retrograde	3100 Jan 31 00:56	21° <b>≏</b> 45'17		max. Earth dist.	3105 Dec 17 15:46	25° <b>₹</b> 00'47	10.95910 AU
opposition	3100 Apr 08 08:18	18° <b>≏</b> 23'11	2°38'36	morning rise	3106 Jan 03 09:44	26° <b>₹</b> 59'30	
min. Earth dist.	3100 Apr 08 06:30	18° <b>ჲ</b> 23'33	8.47870 AU	J	3106 Jan 30 20:46	ರ°0	
direct	3100 Jun 16 22:36	14° <b>≏</b> 56'00		retrograde	3106 Apr 13 06:23	4° <b>る</b> 00'53	
evening set	3100 Sep 30 21:43	22° <b>≏</b> 45'03		opposition	3106 Jun 22 00:32	0° <b>る</b> 43'12	1°28'00
				min. Earth dist.	3106 Jun 22 02:52	0° <b>る</b> 42'46	8.98291 AU
conjunction	3100 Oct 18 06:38	24° <b>≏</b> 53'10	2°11'28		3106 Jul 01 18:48	30°R. <b>✓</b>	
minimum elong	3100 Oct 18 06:37	24° <b>≏</b> 53'09	2°11'28	direct	3106 Sep 01 02:01	27° <b>≯</b> ¹22'33	
max. Earth dist.	3100 Oct 18 08:13	24° <b>£</b> 53'39	10.52995 AU		3106 Oct 29 14:30	0°ප	
morning rise	3100 Nov 04 10:51	26° <b>£</b> 59'53		evening set	3106 Dec 12 13:50	4° <b>る</b> 31'34	
	3100 Nov 30 14:08	0°M₊					
retrograde	3101 Feb 12 17:32	4°M25'17		conjunction	3106 Dec 29 07:05	6° <b>る</b> 29'37	1°00'18
opposition	3101 Apr 21 09:44	1°M04'18	2°43'49	minimum elong	3106 Dec 29 07:07	6° <b>る</b> 29'38	1°00'17
min. Earth dist.	3101 Apr 21 08:56	1°M04'27	8.58357 AU	max. Earth dist.	3106 Dec 29 03:44		11.00102 AU
	3101 May 05 09:26	30° <b>₹</b> Ω		morning rise	3107 Jan 14 22:42	8° <b>る</b> 27'12	
direct	3101 Jun 30 10:17	27° <b>£</b> 38'04		retrograde	3107 Apr 25 01:48	15° <b>る</b> 27'46	
_	3101 Aug 24 00:48	0° <b>M</b> ,		opposition	3107 Jul 04 05:21	12° <b>ろ</b> 10'08	0°58'56
evening set	3101 Oct 14 00:38	5° <b>M</b> 19'34		min. Earth dist.	3107 Jul 04 08:18	12° <b>る</b> 09'35	9.01482 AU
	21010 . 21 05 20	50M 05111	2012112	direct	3107 Sep 13 05:23	8°る50'20	
conjunction	3101 Oct 31 05:29	7°M25'11	2°12'43	evening set	3107 Dec 24 01:29	15° <b>る</b> 55'45	
minimum elong	3101 Oct 31 05:29	7°M25'11	2°12'43		2100 7 00 15 52	150750100	000 5100
max. Earth dist.	3101 Oct 31 05:57		10.63393 AU	conjunction	3108 Jan 09 17:53	17°る53'20	
morning rise	3101 Nov 17 05:52	9°M29'29		minimum elong	3108 Jan 09 17:54	17° <b>る</b> 53'21	0°35'33
	3102 Jan 10 05:27	15°M		max. Earth dist.	3108 Jan 09 14:18 3108 Jan 26 09:26		11.02309 AU
retrograde	3102 Feb 25 03:17	16°M47'51		morning rise		19° <b>る</b> 50'41	
	3102 Apr 13 12:49	15°RM	2041112	retrograde	3108 May 05 23:57	26°පි51'56 23°පි34'04	0°27'40
opposition min. Earth dist.	3102 May 04 06:09	13°M27'51 13°M27'47	2°41'13 8.68562 AU	opposition min. Earth dist.	3108 Jul 15 09:31 3108 Jul 15 12:10	23° <b>る</b> 34'04 23° <b>る</b> 33'35	9.02644 AU
direct	3102 May 04 06:32 3102 Jul 13 16:44	13 IIC2/4/ 10°ML02'42	8.08302 AU	direct		23 <b>3</b> 33 33 20° <b>る</b> 14'58	9.02044 AU
direct	3102 Jul 13 16.44 3102 Oct 03 18:56	10 11602 42 15°M			3108 Sep 24 06:32 3109 Jan 03 11:50	20 31438 27° <b>3</b> 18'04	
evening set	3102 Oct 03 18:36 3102 Oct 26 18:07	17°M36'34		evening set	3109 Jan 03 11.30	27 01804	
evening set	3102 Oct 20 18.07	17 1163034		conjunction	3109 Jan 20 03:51	29° <b>る</b> 15'33	0°09'30
conjunction	3102 Nov 12 19:24	19° <b>M</b> 39'57	2°07'49	minimum elong	3109 Jan 20 03:51	29°る15'33	0°09'30
minimum elong	3102 Nov 12 19:24 3102 Nov 12 19:25	19°M39'57	2°07'49	behind sun begin	3109 Jan 19 22:00	29° <b>る</b> 13'50	0 07 30
max. Earth dist.	3102 Nov 12 19:23 3102 Nov 12 18:18		10.73282 AU	behind sun end	3109 Jan 20 09:41	29° <b>る</b> 17'15	
morning rise	3102 Nov 29 16:42	21°M42'08	10.75202 710	max. Earth dist.	3109 Jan 20 00:54		11.02448 AU
retrograde	3103 Mar 09 08:32	28°M54'24		max. Burtii dist.	3109 Jan 26 10:08	0°≈	11.02110110
opposition	3103 May 16 21:51	25°M35'16	2°31'25	morning rise	3109 Feb 05 19:33	1°≈12'59	
min. Earth dist.	3103 May 16 22:43	25°M35'06	8.78023 AU	retrograde	3109 May 17 23:15	8°≈16'23	
direct	3103 Jul 26 15:58	22°M11'16		desc. node	3109 Jun 03 06:59	8° <b>≈</b> 03'29	
evening set	3103 Nov 08 02:49	29°M37'46		opposition	3109 Jul 27 13:47	4°≈58'02	-0°04'41
· ·	3103 Nov 11 06:01	0°⊀		min. Earth dist.	3109 Jul 27 16:02	4° <b>≈</b> 57'37	9.01735 AU
				direct	3109 Oct 06 04:21	1° <b>≈</b> 39'26	
conjunction	3103 Nov 25 01:17	1° <b>∡</b> ³39'17	1°57'22	evening set	3110 Jan 14 22:30	8° <b>≈</b> 41'38	
minimum elong	3103 Nov 25 01:19	1° <b>∡</b> ³39'18	1°57'22				
max. Earth dist.	3103 Nov 24 23:37	1° <b>∡</b> ³38'47	10.82236 AU	conjunction	3110 Jan 31 14:18	10° <b>≈</b> 39'18	-0°17'06
morning rise	3103 Dec 11 20:11	3° <b>∡</b> ³39'45		minimum elong	3110 Jan 31 14:17	10° <b>≈</b> 39'17	0°17'05
retrograde	3104 Mar 20 09:24	10° <b>∡</b> 47'04		max. Earth dist.	3110 Jan 31 11:12	10° <b>≈</b> 38′23	11.00508 AU
opposition	3104 May 28 09:44	7° <b>∡</b> ¹28'36	2°15'18	morning rise	3110 Feb 17 06:36	12° <b>≈</b> 37'10	
min. Earth dist.	3104 May 28 10:31	7° <b>∡</b> ¹28'27	8.86340 AU		3110 Mar 10 16:38	15° <b>≈</b>	
direct	3104 Aug 07 09:06	4° <b>₹</b> 05'48		retrograde	3110 May 30 02:29	19° <b>≈</b> 44'07	
evening set	3104 Nov 19 03:51	11° <b>≯</b> 25'31		opposition	3110 Aug 08 19:29	16° <b>≈</b> 25′06	
				min. Earth dist.	3110 Aug 08 22:11		8.98777 AU
conjunction	3104 Dec 06 00:12	13° <b>≯</b> 25'31	1°42'05		3110 Aug 28 14:42	15° <b>R</b> ≈	
minimum elong	3104 Dec 06 00:14	13° <b>₹</b> 25'32		direct	3110 Oct 18 02:06	13° <b>≈</b> 06'44	
max. Earth dist.	3104 Dec 05 22:43		10.89880 AU		3110 Dec 05 15:19	15° <b>≈</b>	
morning rise	3104 Dec 22 17:18	15° × 24'38		evening set	3111 Jan 26 10:52	20° <b>≈</b> 09'24	
retrograde	3105 Apr 01 09:32	22° <b>х</b> 28'19	10501:0		011177	222 2	00.42:0.4
opposition	3105 Jun 09 18:24	19° <b>₹</b> 10'21	1°53'49	conjunction	3111 Feb 12 02:39	22°≈07'35	
min. Earth dist.	3105 Jun 09 19:32	19° 🗷 10'08	8.93183 AU	minimum elong	3111 Feb 12 02:38	22°≈07'35	
direct	3105 Aug 19 20:49	15° 🖈 48'41		max. Earth dist.	3111 Feb 11 22:45		10.96548 AU
evening set	3105 Nov 30 23:04	23° <b>≯</b> 02'29		morning rise	3111 Feb 28 19:59	24°≈06'14	
agniumation	2105 Dec 17 17:42	250.701121	1922146	ratragrada	3111 May 01 21:57	0° <b>){</b> 1° <b>¥</b> 18'06	
conjunction	3105 Dec 17 17:42 3105 Dec 17 17:44	25° <b>尽</b> 01'21 25° <b>尽</b> 01'22		retrograde	3111 Jun 11 07:58	1° <b>)</b> 18'06 30°R≈	
minimum elong	3103 Dec 1/ 1/:44	23 × 01 22	1 22 40		3111 Jul 22 17:40	ου κ <b>≫</b>	

	2111 A 21 02-10	27959111	1000107		3117 Nov 04 13:02	11° <b>8</b> 49'03	2942127
opposition	3111 Aug 21 03:18	27°≈58'11		opposition		• • • • •	
min. Earth dist.	3111 Aug 21 06:30	27°≈57'35	8.93859 AU	min. Earth dist.	3117 Nov 04 13:35	11° <b>8</b> 48'56	8.36961 AU
direct	3111 Oct 29 23:52	24°≈39'48		direct	3118 Jan 10 18:09	8° <b>8</b> 26'06	
	3112 Jan 22 19:47	0° <b>)</b> (			3118 Apr 12 16:33	15° <b>8</b>	
evening set	3112 Feb 07 02:26	1° <b>∺</b> 44′23		evening set	3118 Apr 21 17:03	16° <b>8</b> 06'16	
conjunction	3112 Feb 23 18:46	3° <b>)</b> 43′24	-1°07'32	conjunction	3118 May 09 01:30	18° <b>8</b> 17'22	-2°08'02
minimum elong	3112 Feb 23 18:44	3° <b>)</b> 43′24	1°07'32	minimum elong	3118 May 09 01:32	18° <b>8</b> 17'23	2°08'01
max. Earth dist.	3112 Feb 23 14:47	3° <b>)</b> 42′13	10.90676 AU	max. Earth dist.	3118 May 09 01:52	18° <b>8</b> 17'29	10.31811 AU
morning rise	3112 Mar 11 13:25	5° <b>)</b> 43′08		morning rise	3118 May 26 14:20	20° <b>8</b> 29'55	
retrograde	3112 Jun 22 18:36	13° <b>₩</b> 01'11		retrograde	3118 Sep 10 06:06	28° <b>8</b> 35'35	
opposition	3112 Sep 01 13:52	9° <b>)</b> 40′08	-1°36'50	opposition	3118 Nov 18 03:40	25° <b>8</b> 07'06	-2°32'44
min. Earth dist.	3112 Sep 01 16:59	9° <b>)</b> 39'33	8.87102 AU	min. Earth dist.	3118 Nov 18 02:50	25° <b>8</b> 07'16	
direct	3112 Nov 10 01:24	6° <b>¥</b> 21'30		direct	3119 Jan 24 01:51	21° <b>8</b> 42'56	
evening set	3113 Feb 17 22:32	13° <b>¥</b> 29′24		evening set	3119 May 05 13:30	29° <b>8</b> 30'37	
e venning see	3113100 1, 22.32	15 /(2) 2.		evening sec	3119 May 09 10:56	0°П	
conjunction	3113 Mar 06 16:02	15° <b>¥</b> 29'39	-1°29'29				
minimum elong	3113 Mar 06 15:59	15° <b>∺</b> 29'38	1°29'30	conjunction	3119 May 23 02:45	1° <b>∏</b> 44'24	-1°56'29
max. Earth dist.	3113 Mar 06 12:50	15° <b>¥</b> 28'41	10.83031 AU	minimum elong	3119 May 23 02:48	1° <b>Ⅱ</b> 44'25	1°56'28
morning rise	3113 Mar 23 12:18	17° <b>)</b> € 30'47		max. Earth dist.	3119 May 23 04:32	1° <b>∏</b> 44'58	10.22647 AU
retrograde	3113 Jul 05 13:02	24° <b>)</b> 56'09		morning rise	3119 Jun 09 20:03	3° <b>П</b> 59'30	
opposition	3113 Sep 14 04:06	21° <b>)</b> (33'51	-2°01'58	retrograde	3119 Sep 24 13:17	12° <b>Ⅱ</b> 10'36	
min. Earth dist.	3113 Sep 14 04:00 3113 Sep 14 06:28		8.78679 AU	opposition	3119 Dec 01 22:34	8° <b>П</b> 41'24	-2°14'22
direct	3113 Nov 22 04:37	18° <b>)</b> 14'46	0.70077 AO	min. Earth dist.	3119 Dec 01 20:39		8.18730 AU
evening set	3113 Nov 22 04.37 3114 Mar 02 00:41	25°\(\frac{1440}{27'19}			3119 Dec 01 20:39 3120 Feb 06 14:45	5° <b>П</b> 15'58	6.16/30 AU
evening set	3114 Mai 02 00.41	23 <b>X</b> 2/19		direct			
	211434 10 10 42	2701/20100	1045156	evening set	3120 May 18 18:48	13° <b>Ⅱ</b> 10'46	
conjunction	3114 Mar 18 19:43	27°\(\frac{1}{2}\)29'08			2120 1 05 12 15	1.50 <b>T</b> 2.510.0	1020112
minimum elong	3114 Mar 18 19:41	27° <b>₩</b> 29'08		conjunction	3120 Jun 05 12:47	15° <b>Ⅱ</b> 27'00	
max. Earth dist.	3114 Mar 18 16:42		10.73867 AU	minimum elong	3120 Jun 05 12:50	15° <b>Ⅱ</b> 27'01	
morning rise	3114 Apr 04 18:08	29° <b>)</b> 32′03		max. Earth dist.	3120 Jun 05 15:08		10.15080 AU
	3114 Apr 08 16:28	$0$ ° $\mathbf{\Upsilon}$		morning rise	3120 Jun 23 10:19	17° <b>∏</b> 44'24	
retrograde	3114 Jul 18 13:12	7° <b>Y</b> 05'35		retrograde	3120 Oct 07 23:33	25° <b>Ⅱ</b> 58'56	
opposition	3114 Sep 26 22:49	3° <b>Ƴ</b> 41'58	-2°22'15	opposition	3120 Dec 14 20:50	22° <b>Ⅱ</b> 29'22	-1°47'56
min. Earth dist.	3114 Sep 27 00:46	3° <b>Ƴ</b> 41'36	8.68943 AU	min. Earth dist.	3120 Dec 14 18:31	22° <b>Ⅱ</b> 29'51	8.12103 AU
direct	3114 Dec 04 10:26	0° <b>Y</b> 22′13		direct	3121 Feb 19 10:00	19° <b>Ⅲ</b> 02'44	
evening set	3115 Mar 14 10:03	7° <b>Ƴ</b> 40'37		evening set	3121 Jun 02 07:38	27° <b>Ⅱ</b> 03'47	
conjunction	3115 Mar 31 07:15	9° <b>Ƴ</b> 44'21	-2°01'52	conjunction	3121 Jun 20 05:51	29°∏22'04	-1°14'01
minimum elong	3115 Mar 31 07:14	9° <b>Υ</b> 44'20	2°01'52	minimum elong	3121 Jun 20 05:54	29° <b>I</b> I22'05	
max. Earth dist.	3115 Mar 31 04:03		10.63638 AU	max. Earth dist.	3121 Jun 20 08:31		10.09554 AU
morning rise	3115 Apr 17 08:32	11° <b>Υ</b> 49'21	10.03038 AC	max. Lartii dist.	3121 Jun 25 03:05	0°95	10.07334 AO
retrograde	3115 Apr 17 08:32 3115 Jul 31 19:48	11 γ 4921 19° <b>Υ</b> 31'28		marnina rica	3121 Jul	1° <b>9</b> 341'16	
Č	3115 Oct 09 22:32	16° <b>Υ</b> 06'31	2926120	morning rise	3121 Oct 22 10:54	9°957'04	
opposition				retrograde			1014140
min. Earth dist.	3115 Oct 10 00:22	16° <b>Υ</b> 06'09 12° <b>Υ</b> 45'50	8.58392 AU	opposition min. Earth dist.	3121 Dec 28 21:38	6°527'29	
direct	3115 Dec 16 23:00				3121 Dec 28 19:10	6°527'59	8.07701 AU
evening set	3116 Mar 26 03:26	20° <b>Y</b> 10′58		direct	3122 Mar 05 11:48	2°559'46	
agniumation	2116 Apr. 12 02:29	22° <b>Υ</b> 16'57	2010/21	evening set	3122 Jun 17 02:13	11° <b>©</b> 05'48	
conjunction	3116 Apr 12 03:38	$22^{\circ}$ \ \ \ \ 1637			2122 1 1 05 02 46	120625121	0045112
minimum elong	3116 Apr 12 03:38			conjunction	3122 Jul 05 03:46	13°525'31	
max. Earth dist.	3116 Apr 12 00:50		10.52861 AU	minimum elong	3122 Jul 05 03:48	13°925'31	0°45'13
morning rise	3116 Apr 29 08:23	24° <b>Y</b> 24'19		max. Earth dist.	3122 Jul 05 06:56		10.06406 AU
	3116 Jun 21 13:29	0°8		morning rise	3122 Jul 23 07:09	15° <b>©</b> 45'47	
retrograde	3116 Aug 13 09:17	2° <b>8</b> 14'59		retrograde	3122 Nov 05 20:17	24° <b>©</b> 00'39	
	3116 Oct 06 15:08	30° <b>₹</b> Υ		opposition	3123 Jan 11 23:37	20° <b>©</b> 31'23	
opposition	3116 Oct 22 03:19	28° <b>Ƴ</b> 48'43		min. Earth dist.	3123 Jan 11 20:52	20° <b>©</b> 31'57	8.05802 AU
min. Earth dist.	3116 Oct 22 04:55	28° <b>Ƴ</b> 48'24	8.47551 AU	direct	3123 Mar 19 18:28	17° <b>©</b> 02'49	
direct	3116 Dec 28 17:09	25° <b>Y</b> 26'57		evening set	3123 Jul 02 00:50	25° <b>©</b> 12'18	
	3117 Mar 13 14:15	0°8					
evening set	3117 Apr 08 05:41	2° <b>8</b> 59'28		conjunction	3123 Jul 20 04:22	27° <b>©</b> 32'38	-0°13'38
				minimum elong	3123 Jul 20 04:23	27° <b>©</b> 32'38	0°13'38
conjunction	3117 Apr 25 09:41	5° <b>8</b> 07'55	-2°12'35	behind sun begin	3123 Jul 20 00:34	27° <b>©</b> 31'25	
minimum elong	3117 Apr 25 09:42	5° <b>8</b> 07'55	2°12'34	behind sun end	3123 Jul 20 08:11	27° <b>©</b> 33'51	
max. Earth dist.	3117 Apr 25 08:20	5° <b>8</b> 07'30	10.42065 AU	max. Earth dist.	3123 Jul 20 07:59	27° <b>©</b> 33'47	10.05831 AU
morning rise	3117 May 12 18:17	7° <b>8</b> 17'50		morning rise	3123 Aug 07 08:28	29° <b>©</b> 53'06	
-	3117 Aug 09 07:52	15° <b>8</b>			3123 Aug 08 06:12	$0^{\circ}\Omega$	
retrograde	3117 Aug 27 04:50	15° <b>8</b> 16'31		retrograde	3123 Nov 20 03:36	8° <b>Ω</b> 04'56	
Č				_			
	3117 Sep 14 03:37	15°R <b>∀</b>		asc. node	3123 Dec 26 13:42	6° <b>Ω</b> 54'07	

opposition	3124 Jan 26 01:16	4° <b>Ω</b> 36'18	0°02!15	opposition	3130 Apr 15 21:24	25° <b>£</b> 36'30	2°42'15
min. Earth dist.	3124 Jan 25 22:03	4° <b>Ω</b> 36'58	8.06526 AU	min. Earth dist.	•	25° <b>⊆</b> 36'51	8.53680 AU
direct	3124 Jan 23 22:03 3124 Apr 02 02:34	1° <b>Ω</b> 07'09	8.00320 AU	direct	3130 Apr 15 19:38 3130 Jun 24 17:14	23° <b>⊆</b> 30'31 22° <b>⊆</b> 10'08	6.33080 AU
evening set	3124 Apr 02 02:34 3124 Jul 16 00:49	9° <b>Ω</b> 18'18		evening set	3130 Oct 08 12:17	29° <b>£</b> 55'30	
evening set	3124 Jul 10 00.47	) <b>66</b> 1010		evening set	3130 Oct 08 12:17 3130 Oct 09 03:13	0° <b>M</b>	
conjunction	3124 Aug 03 04:40	11°Ω38'23	0°18'47		3130 Oct 09 03.13	U IIG	
minimum elong	3124 Aug 03 04:40 3124 Aug 03 04:39	11°Ω38'22	0°18'47	conjunction	3130 Oct 25 18:57	2°MJ02'16	2°12'47
max. Earth dist.	3124 Aug 03 04:52		10.07865 AU	minimum elong	3130 Oct 25 18:57	2°M02'16	2°12'47
morning rise	3124 Aug 21 07:42	13° <b>Ω</b> 58'11	10.07003 110	max. Earth dist.	3130 Oct 25 20:10		10.58955 AU
	3124 Aug 29 13:14	15°Ω		morning rise	3130 Nov 11 21:12	4°ML07'42	10.00,00 110
retrograde	3124 Dec 03 08:12	22°Ω05'09		retrograde	3131 Feb 19 22:55	11°M29'28	
opposition	3125 Feb 08 01:41	18° <b>£</b> 37′26	0°43'01	opposition	3131 Apr 28 20:32	8°M09'24	2°43'07
min. Earth dist.	3125 Feb 07 21:44	18° <b>Ω</b> 38'15	8.09833 AU	min. Earth dist.	3131 Apr 28 19:08	8° <b>M</b> 09'41	8.64387 AU
direct	3125 Apr 16 11:17	15° <b>Ω</b> 08'01		direct	3131 Jul 08 03:00	4° <b>M</b> 44'11	
evening set	3125 Jul 30 23:12	23° <b>Ω</b> 18'55		evening set	3131 Oct 21 10:39	12°M21'46	
conjunction	3125 Aug 18 01:42	25° <b>Ω</b> 37'53	0°49'50	conjunction	3131 Nov 07 13:38	14°M26'09	2°10'36
minimum elong	3125 Aug 18 01:40	25° <b>Ω</b> 37'52	0°49'49	minimum elong	3131 Nov 07 13:38	14°M26'09	2°10'36
max. Earth dist.	3125 Aug 18 06:34	25° <b>Ω</b> 39'27	10.12389 AU	max. Earth dist.	3131 Nov 07 14:27	14°M26'24	10.69406 AU
morning rise	3125 Sep 05 02:05	27° <b>Ω</b> 56'11			3131 Nov 12 04:40	15° <b>M</b> ₀	
	3125 Sep 21 22:12	0° <b>m</b> )		morning rise	3131 Nov 24 12:11	16°M29'15	
retrograde	3125 Dec 17 08:01	5° m 56'53		retrograde	3132 Mar 03 08:06	23°M44'22	
opposition	3126 Feb 21 23:33	2° m/30'18	1°19'49	opposition	3132 May 10 14:57	20°M25'16	2°36'28
min. Earth dist.	3126 Feb 21 19:26	2° <b>m</b> y 31'08	8.15523 AU	min. Earth dist.	3132 May 10 14:36	20°M25'20	8.74447 AU
	3126 Mar 28 06:53	30° <b>₽</b> €		direct	3132 Jul 20 04:37	17° <b>ML</b> 01'13	
direct	3126 Apr 30 19:08	29° <b>Ω</b> 00′58		evening set	3132 Nov 01 23:48	24°M31'08	
	3126 Jun 03 04:59	0° <b>m</b> ∕					
evening set	3126 Aug 14 17:42	7° <b>m</b> 09'43		conjunction	3132 Nov 18 23:37	26°M33'28	2°02'34
				minimum elong	3132 Nov 18 23:38	26°M33'28	2°02'35
conjunction	3126 Sep 01 17:24	9° Mg 26'51	1°17'39	max. Earth dist.	3132 Nov 18 23:13	26°M33'20	10.78956 AU
minimum elong	3126 Sep 01 17:21	9° Mg 26'50	1°17'38	morning rise	3132 Dec 05 19:24	28°M34'39	
max. Earth dist.	3126 Sep 01 22:12	9° <b>m</b> 28'23	10.19126 AU		3132 Dec 18 02:14	0° <b>∡</b>	
morning rise	3126 Sep 19 13:55	11° <b>m</b> )43'01		retrograde	3133 Mar 15 11:07	5° <b>∡</b> ¹44'10 −	
retrograde	3126 Dec 31 00:53	19° <b>m</b> 36'21		opposition	3133 May 23 05:02	2° <b>₹</b> 25'51	2°23'04
opposition	3127 Mar 07 17:48	16° Mp 11'05	1°51'27	min. Earth dist.	3133 May 23 06:28	2° <b>₹</b> 25'35	8.83353 AU
min. Earth dist.	3127 Mar 07 14:14	16° Mp 11'49	8.23247 AU		3133 Jun 28 04:16	30°RM₁	
direct	3127 May 15 01:22	12° m/42'07		direct	3133 Aug 02 00:30	29°M02'56	
evening set	3127 Aug 29 05:54	20° Mp 47'01			3133 Sep 05 11:04	0° <b>∡</b> 7	
	2127 9 16 01.42	220m 01147	1040141	evening set	3133 Nov 14 04:47	6° <b>₹</b> 25'47	
conjunction	3127 Sep 16 01:42	23° Mp 01'47 23° Mp 01'46	1°40'41 1°40'41	conjunction	3133 Dec 01 01:59	00.7176176	1°49'20
minimum elong max. Earth dist.	3127 Sep 16 01:39 3127 Sep 16 05:45		1 4041 10.27669 AU	minimum elong	3133 Dec 01 01.39 3133 Dec 01 02:02	8° ₹ 26'26 8° ₹ 26'26	1°49'21
morning rise	3127 Sep 16 03.43 3127 Oct 03 17:38	25° m) 15'22	10.27009 AU	max. Earth dist.	3133 Nov 30 23:25		1 4921 10.87134 AU
morning rise	3127 Oct 03 17:38 3127 Nov 15 03:25	0° <b>⊽</b>		morning rise	3133 Nov 30 23:23 3133 Dec 17 19:54	10° <b>₹</b> 26'07	10.8/134 AU
retrograde	3128 Jan 13 10:48	ა <del></del> 3° <b></b> 00'44		retrograde	3134 Mar 27 11:08	10 × 2007 17° × 31'27	
retrograde	3128 Mar 15 12:27	30°R, Mb		opposition	3134 Jun 04 15:30	14° <b>×</b> 13'41	2°03'52
opposition	3128 Mar 20 07:57	29° My 36'53	2°16'18	min. Earth dist.	3134 Jun 04 18:05	14° <b>х</b> 13'12	8.90690 AU
min. Earth dist.	3128 Mar 20 05:19	29° m <sub>2</sub> 37'25	8.32540 AU	direct	3134 Aug 14 15:52	10° <b>₹</b> 51'50	0.90090110
direct	3128 May 28 03:34	26° m, 08'34		evening set	3134 Nov 26 03:07	18° <b>≯</b> 08'30	
	3128 Aug 05 23:49	0∘ <u>⊽</u>		č			
evening set	3128 Sep 11 09:42	4° <b>≙</b> 08'01		conjunction	3134 Dec 12 22:23	20° <b>∡</b> *07'53	1°31'42
Č	1			minimum elong	3134 Dec 12 22:25	20° <b>҂</b> 07'53	1°31'42
conjunction	3128 Sep 29 00:59	6° <b>£</b> 20′07	1°57'52	max. Earth dist.	3134 Dec 12 18:39	20° <b>₹</b> 06'46	10.93617 AU
minimum elong	3128 Sep 29 00:57	6° <b>₽</b> 20'06	1°57'52	morning rise	3134 Dec 29 14:59	22° <b>₹</b> 06'28	
max. Earth dist.	3128 Sep 29 03:50	6° <b>₽</b> 21'01	10.37518 AU	retrograde	3135 Apr 08 09:00	29° <b>₹</b> '09'01	
morning rise	3128 Oct 16 12:06	8° <b>≙</b> 30'55		opposition	3135 Jun 16 23:13	25° <b>₹</b> '51'32	1°39'50
retrograde	3129 Jan 25 13:41	16° <b>≙</b> 08'09		min. Earth dist.	3135 Jun 17 01:58	25° <b>≯</b> 51′01	8.96226 AU
opposition	3129 Apr 02 17:18	12° <b>≏</b> 45'41	2°33'21	direct	3135 Aug 27 01:16	22° <b>х</b> 30′39	
min. Earth dist.	3129 Apr 02 15:19	12° <b>≏</b> 46′04	8.42872 AU	evening set	3135 Dec 07 20:14	29° <b>∡</b> ′42′08	
direct	3129 Jun 11 01:05	9° <b>≏</b> 18'16			3135 Dec 10 09:36	0°₹	
evening set	3129 Sep 25 04:01	17° <b>≏</b> 11'03					
				conjunction	3135 Dec 24 14:11	1° <b>る</b> 40'35	1°10'31
conjunction	3129 Oct 12 14:48	19° <b>≏</b> 20′26	2°08'37	minimum elong	3135 Dec 24 14:13	1° <b>る</b> 40'36	1°10'31
minimum elong	3129 Oct 12 14:47		2°08'37	max. Earth dist.	3135 Dec 24 10:37		10.98231 AU
max. Earth dist.	3129 Oct 12 16:30		10.48136 AU	morning rise	3136 Jan 10 05:55	3° <b>云</b> 38'28	
morning rise	3129 Oct 29 21:17	21° <b>≏</b> 28'28		retrograde	3136 Apr 19 06:49	10°る39'42	
retrograde	3130 Feb 07 09:05	28° <b>≏</b> 57'42		opposition	3136 Jun 28 05:10	7° <b>る</b> 22'11	1°12'03

min. Earth dist.	3136 Jun 28 08:01	7° <b>る</b> 21'40	8.99829 AU	opposition	3142 Sep 09 01:57	16° <b>)</b> 38′55	-1°51'43
direct	3136 Sep 07 06:49	4° <b>ප</b> 02'06		min. Earth dist.	3142 Sep 09 04:58	16° <b>)</b> 38′21	8.80024 AU
evening set	3136 Dec 18 09:38	11° <b>る</b> 09'30		direct	3142 Nov 17 06:33	13° <b>∺</b> 19'24	
				evening set	3143 Feb 25 03:51	20° <b>)</b> 30′45	
conjunction	3137 Jan 04 02:35	13° <b>る</b> 07'24	0°46'39				
minimum elong	3137 Jan 04 02:37	13° <b>ठ</b> 07'24	0°46'38	conjunction	3143 Mar 13 22:06	22° <b>)</b> 32′06	
max. Earth dist.	3137 Jan 03 22:41		11.00855 AU	minimum elong	3143 Mar 13 22:03	22° <b>)</b> € 32'05	
morning rise	3137 Jan 20 18:03	15° <b>る</b> 04'55		max. Earth dist.	3143 Mar 13 18:25		10.75587 AU
retrograde	3137 May 01 05:17	22° <b>る</b> 06'14		morning rise	3143 Mar 30 19:44	24° <b>)</b> (34′30	
opposition	3137 Jul 10 10:06	18° <b>ろ</b> 48'28	0°41'36		3143 May 22 21:58	0° <b>Υ</b>	
min. Earth dist.	3137 Jul 10 13:48	18°る47'47	9.01410 AU	retrograde	3143 Jul 13 05:45	2° <b>Υ</b> 05'17	
direct	3137 Sep 19 07:52	15° <b>る</b> 28'57			3143 Sep 04 05:01	30° <b>₹</b>	
evening set	3137 Dec 29 21:05	22° <b>る</b> 33'32		opposition	3143 Sep 21 19:12	28° <b>)</b> (41′39	
				min. Earth dist.	3143 Sep 21 21:39	28° <b>)</b> (41'11	8.71006 AU
conjunction	3138 Jan 15 13:15	24°₹31'11	0°21'01	direct	3143 Nov 29 12:10	25° <b>₩</b> 21'35	
minimum elong	3138 Jan 15 13:16	24°₹31'12	0°21'01		3144 Feb 14 09:41	0° <b>Υ</b>	
max. Earth dist.	3138 Jan 15 08:16		11.01424 AU	evening set	3144 Mar 08 10:11	2° <b>Y</b> 38'13	
morning rise	3138 Feb 01 04:57	26° <b>る</b> 28'43					
_	3138 Mar 06 01:26	0° <b>≈</b>		conjunction	3144 Mar 25 06:30	4° <b>Υ</b> 41'20	
retrograde	3138 May 13 01:58	3° <b>≈</b> 31'34		minimum elong	3144 Mar 25 06:27	4° <b>Υ</b> 41'19	
opposition	3138 Jul 22 14:44	0° <b>≈</b> 13'15	0°09'33	max. Earth dist.	3144 Mar 25 04:15		10.66047 AU
min. Earth dist.	3138 Jul 22 19:08	0° <b>≈</b> 12'26	9.00934 AU	morning rise	3144 Apr 11 06:34	6° <b>Y</b> 45'38	
	3138 Jul 25 14:28	30°Ŗ₹		retrograde	3144 Jul 25 09:38	14° <b>Y</b> 24'49	
direct	3138 Oct 01 07:31	26° <b>⋜</b> 54'06		opposition	3144 Oct 03 16:55	10° <b>Y</b> 59'53	
desc. node	3138 Nov 10 09:04	28° <b>る</b> 11'18		min. Earth dist.	3144 Oct 03 18:11		8.61102 AU
	3138 Dec 03 19:57	0° <b>≈</b>		direct	3144 Dec 10 23:40	7° <b>Ƴ</b> 39'08	
evening set	3139 Jan 10 07:52	3° <b>≈</b> 57'16		evening set	3145 Mar 21 00:19	15° <b>Y</b> 02'02	
						. ==000====	
conjunction	3139 Jan 26 23:41	5° <b>≈</b> 55'00		conjunction	3145 Apr 06 23:21	17° <b>Y</b> 07'14	
minimum elong	3139 Jan 26 23:41	5°≈55'00	0°05'32	minimum elong	3145 Apr 06 23:19	17° <b>Y</b> 07'14	
behind sun begin	3139 Jan 26 16:58	5°≈53'02		max. Earth dist.	3145 Apr 06 22:28		10.55833 AU
behind sun end	3139 Jan 27 06:24	5°≈56'58		morning rise	3145 Apr 24 02:25	19° <b>Y</b> 13'45	
max. Earth dist.	3139 Jan 26 18:30		10.99938 AU	retrograde	3145 Aug 07 22:01	27° <b>Y</b> 01′29	
morning rise	3139 Feb 12 15:54	7°≈52'51		opposition	3145 Oct 16 19:48	23° <b>Y</b> 35'21	
retrograde	3139 May 25 03:28	14°≈58'45		min. Earth dist.	3145 Oct 16 19:47	23° <b>Y</b> 35'21	8.50747 AU
opposition	3139 Aug 03 20:14	11°≈39'39		direct	3145 Dec 23 14:15	20°Υ13'45	
min. Earth dist.	3139 Aug 04 00:10	11°≈38'55	8.98436 AU	evening set	3146 Apr 02 22:59	27° <b>Ƴ</b> 43'41	
direct	3139 Oct 13 07:36	8°≈20'41			21464 20 0140	2000051112	2012125
	3140 Jan 18 09:24	15° <b>≈</b>		conjunction	3146 Apr 20 01:18	29° <b>Y</b> 51'12	
evening set	3140 Jan 21 19:30	15° <b>≈</b> 23'46		minimum elong	3146 Apr 20 01:18	29° <b>Y</b> 51'12	
	2140 F 1 07 11 26	17021155	0021152	max. Earth dist.	3146 Apr 20 01:05		10.45426 AU
conjunction	3140 Feb 07 11:26	17°≈21'55			3146 Apr 21 05:24	0°8	
minimum elong	3140 Feb 07 11:25	17°≈21'55		morning rise	3146 May 07 08:05	2°800'10	
max. Earth dist.	3140 Feb 07 07:21		10.96452 AU	retrograde	3146 Aug 21 16:20 3146 Oct 30 03:59	9° <b>8</b> 56'08	2042150
morning rise	3140 Feb 24 04:20	19°≈20'25		opposition		6° <b>8</b> 28'55	
retrograde	3140 Jun 05 08:49	26°≈30'46 23°≈10'42	0954140	min. Earth dist. direct	3146 Oct 30 03:15	6° <b>と</b> 29'04 3° <b>と</b> 06'23	8.40448 AU
opposition min. Earth dist.	3140 Aug 15 03:19 3140 Aug 15 06:23		-0 3449 8.94003 AU	evening set	3147 Jan 05 11:32 3147 Apr 16 06:52	10° <b>8</b> 43'47	
direct	3140 Oct 24 05:23	23 ≈1007 19°≈51'45	6.94003 AU	evening set	3147 Apr 10 00.32	10 04347	
	3140 Oct 24 03:23 3141 Feb 01 09:51	19 ≈51 43 26°≈56'12		agniunation	3147 May 03 13:14	12° <b>8</b> 53'51	2010/40
evening set	3141 Feb 01 09:31	20 ≈3012		conjunction minimum elong	3147 May 03 13:14 3147 May 03 13:15	12° <b>6</b> 53'51	
conjunction	3141 Feb 18 02:08	28°≈55'05	-0°57'10	max. Earth dist.	3147 May 03 13:15 3147 May 03 13:36		10.35362 AU
minimum elong	3141 Feb 18 02:06	28°≈55'05		max. Earm dist.	3147 May 03 13:30 3147 May 20 06:53	12 <b>8</b> 33 38	10.55502 AU
max. Earth dist.	3141 Feb 18 02:00 3141 Feb 17 22:24		10.91088 AU	mamina rias	-	15° <b>8</b> 05'23	
max. Earm dist.		28 ≈33 38 0° <b>∺</b>	10.91088 AU	morning rise	3147 May 21 00:17		
morning rise	3141 Feb 27 03:24 3141 Mar 06 20:08	0°₩ 54'33		retrograde opposition	3147 Sep 04 15:52 3147 Nov 12 17:09	23° <b>8</b> 08'43 19° <b>8</b> 40'38	-2037155
•		8° <b>∺</b> 10′39		min. Earth dist.		19° <b>8</b> 40'51	8.30751 AU
retrograde opposition	3141 Jun 17 18:14	8° <del>X</del> 10 39 4° <del>X</del> 49'28	1024140	direct	3147 Nov 12 16:04 3148 Jan 18 16:45	16° <b>8</b> 17'03	0.50/51 AU
opposition min. Earth dist.	3141 Aug 27 12:49	4° <del>11</del> 49'28 4° <del>11</del> 48'56				24° <b>8</b> 01'59	
	3141 Aug 27 15:39 3141 Nov 05 04:51	4° <del>X</del> 48′36 1° <del>X</del> 30′20	8.87789 AU	evening set	3148 Apr 29 00:01	24 <b>O</b> 01 39	
direct		8°\(\frac{1}{3}\)30'20		conjugation	21/19 May 16 11:02	26° <b>8</b> 14'41	2002!11
evening set	3142 Feb 13 04:15	о дз/33		conjunction	3148 May 16 11:02 3148 May 16 11:04	26° <b>8</b> 14'41	
conjunction	31/2 Mar 01 21:12	100M27122	1020122	minimum elong	•		
conjunction	3142 Mar 01 21:12	10° <b>₩</b> 37'33		max. Earth dist.	3148 May 16 12:26		10.26179 AU
minimum elong	3142 Mar 01 21:10	10° <b>₩</b> 37'32		morning rise	3148 Jun 03 02:35	28° <b>႘</b> 28'48	
max. Earth dist.	3142 Mar 01 17:01		10.84045 AU		3148 Jun 15 12:23	0°Ⅱ (°Ⅱ3900	
morning rise	3142 Mar 18 16:50	12° <b>¥</b> 38'19		retrograde	3148 Sep 17 20:45	6° <b>Ⅱ</b> 38'06	2022107
retrograde	3142 Jun 30 09:28	20° <b>∺</b> 01'17		opposition	3148 Nov 25 10:52	3° <b>Ⅱ</b> 09′24	-2 23 00

min. Earth dist.	3148 Nov 25 09:12		8.22186 AU	conjunction	3154 Aug 12 04:33	19° <b>£</b> 59'37	
t' .	3149 Jan 14 14:23	30°R <b>8</b>		minimum elong	3154 Aug 12 04:31	19° <b>£</b> 59'37	0°37'03
direct	3149 Jan 31 04:27	29° <b>8</b> 44'45		max. Earth dist.	3154 Aug 12 07:42		10.11321 AU
. ,	3149 Feb 16 16:23	0°II		morning rise	3154 Aug 30 06:14	22° <b>Ω</b> 18'34	
evening set	3149 May 13 02:04	7° <b>Ⅱ</b> 36'51			3154 Nov 22 01:28	0° m)	
conjunction	2140 May 20, 17:56	9° <b>Ⅱ</b> 52'04	1946!20	retrograde	3154 Dec 11 21:28 3154 Dec 31 17:58	0° Mp21'53 30° RΩ	
minimum elong	3149 May 30 17:56 3149 May 30 17:59	9° <b>I</b> 52'05	1°46'39	opposition	3155 Feb 16 12:31	30 κδι 26° <b>Ω</b> 55'17	1°04'49
max. Earth dist.	3149 May 30 17.39 3149 May 30 20:52		10.18389 AU	min. Earth dist.	3155 Feb 16 12:31 3155 Feb 16 10:01	26° <b>Ω</b> 55'48	8.13815 AU
morning rise	3149 Jun 17 13:46	12° <b>Ⅱ</b> 08'33	10.16369 AU	direct	3155 Apr 25 03:19	20 <b>δι</b> 35 48 23° <b>Ω</b> 26'18	6.13613 AU
retrograde	3149 Oct 02 05:35	20° <b>I</b> 22'01		direct	3155 Jul 26 21:49	0° <b>m</b> )	
opposition	3149 Dec 09 08:18	16° <b>I</b> 52'57	-1°59'54	evening set	3155 Aug 08 22:14	1° Mp 36'05	
min. Earth dist.	3149 Dec 09 05:38		8.15244 AU	evening set	3133 Aug 00 22.14	1 11/3003	
direct	3150 Feb 13 22:34	13° <b>Ⅱ</b> 27'14	0.13244710	conjunction	3155 Aug 26 23:06	3° <b>m</b> 53'58	1°06'26
evening set	3150 May 27 12:11	21° <b>II</b> 25'45		minimum elong	3155 Aug 26 23:03	3° My 53'58	1°06'26
e venning see	3130 May 27 12.11	21 123 13		max. Earth dist.	3155 Aug 27 01:45	3° <b>m</b> 54'49	
conjunction	3150 Jun 14 08:41	23° <b>Ⅱ</b> 43'09	-1°24'48	morning rise	3155 Sep 13 21:30	6° Mp 11'04	10.10012110
minimum elong	3150 Jun 14 08:44	23° <b>I</b> I43'10		retrograde	3155 Dec 25 16:06	14° <b>m</b> ) 07'34	
max. Earth dist.	3150 Jun 14 13:09		10.12449 AU	opposition	3156 Mar 01 08:31	10° Mp 42'06	1°38'52
morning rise	3150 Jul 02 08:16	26° <b>I</b> I01'35	10.12 119 110	min. Earth dist.	3156 Mar 01 05:56	10° Mp 42'38	8.20358 AU
	3150 Aug 05 01:32	0 - -		direct	3156 May 08 11:45	7° m 13'14	
retrograde	3150 Oct 16 16:29	4° <b>©</b> 17'03		evening set	3156 Aug 22 13:29	15° <b>m</b> ) 19'57	
opposition	3150 Dec 23 08:27	0°947'53	-1°29'22	Ü	Č	•	
min. Earth dist.	3150 Dec 23 04:42	0°948'39	8.10330 AU	conjunction	3156 Sep 09 10:58	17° mp 35'43	1°31'39
	3151 Jan 02 04:30	30° <b>Ŗ</b> Ⅱ		minimum elong	3156 Sep 09 10:54	17° m/35'42	1°31'39
direct	3151 Feb 27 22:16	27° <b>Ⅱ</b> 21'10		max. Earth dist.	3156 Sep 09 13:34	17° m 36'33	10.24266 AU
	3151 Apr 23 20:08	0°ಅ		morning rise	3156 Sep 27 05:01	19° <b>m</b> 50'26	
evening set	3151 Jun 11 04:53	5° <b>9</b> 24'57		retrograde	3157 Jan 07 04:58	27° <b>m</b> 39'17	
				opposition	3157 Mar 15 00:38	24° Mp 15'00	2°06'46
conjunction	3151 Jun 29 05:14	7°5544'01	-0°57'45	min. Earth dist.	3157 Mar 14 21:52	24° Mp 15'34	8.28668 AU
minimum elong	3151 Jun 29 05:17	7° <b>5</b> 44'02	0°57'45	direct	3157 May 22 15:34	20° <b>m</b> 46'31	
max. Earth dist.	3151 Jun 29 10:21	7° <b>5</b> 45'40	10.08678 AU	evening set	3157 Sep 05 20:55	28° <b>m</b> 48'25	
morning rise	3151 Jul 17 07:35	10°903'46			3157 Sep 15 10:34	0ಂ <b>ರಾ</b>	
retrograde	3151 Oct 31 03:33	18°918'58					
opposition	3152 Jan 06 10:08	14°950'01	-0°53'13	conjunction	3157 Sep 23 14:18	1° <b>≏</b> 01'42	1°51'25
min. Earth dist.	3152 Jan 06 06:08	14° <b>©</b> 50'51	8.07676 AU	minimum elong	3157 Sep 23 14:15	1° <b>≏</b> 01'41	1°51'25
direct	3152 Mar 13 02:08	11° <b>5</b> 22'23		max. Earth dist.	3157 Sep 23 17:00	1° <b>≏</b> 02'33	10.33254 AU
evening set	3152 Jun 25 02:18	19° <b>©</b> 30'05		morning rise	3157 Oct 11 03:31	3° <b>≙</b> 13'42	
				retrograde	3158 Jan 20 11:53	10° <b>≙</b> 54'31	
conjunction	3152 Jul 13 05:09	21°950'04		opposition	3158 Mar 28 12:01	7° <b>£</b> 31'25	
minimum elong	3152 Jul 13 05:10	21° <b>©</b> 50'05		min. Earth dist.	3158 Mar 28 09:30	7° <b>£</b> 31'55	8.38255 AU
max. Earth dist.	3152 Jul 13 09:55		10.07211 AU	direct	3158 Jun 05 14:41	4° <b>ჲ</b> 03'33	
morning rise	3152 Jul 31 08:51	24° <b>©</b> 10'22		evening set	3158 Sep 19 19:25	11° <b>≏</b> 59'18	
	3152 Sep 22 03:58	$0$ $\circ$ $\Omega$					
retrograde	3152 Nov 13 13:25	2° <b>Ω</b> 23'16		conjunction	3158 Oct 07 08:21	14° <b>≙</b> 09'54	2°04'56
	3153 Jan 06 02:20	30° <b>₹</b> 5		minimum elong	3158 Oct 07 08:19	14° <b>£</b> 09'54	
opposition	3153 Jan 19 12:05	28°954'52		max. Earth dist.	3158 Oct 07 10:46		10.43253 AU
min. Earth dist.	3153 Jan 19 08:32		8.07357 AU	morning rise	3158 Oct 24 16:42	16° <b>£</b> 19'08	
direct	3153 Mar 27 08:30	25°526'31		retrograde	3159 Feb 02 10:32	23° <b>£</b> 51'50	2020125
asc. node	3153 May 28 10:55	28°543'29		opposition	3159 Apr 10 18:15	20° <b>£</b> 29'54	
	3153 Jun 09 19:12	0° <b>Ω</b>		min. Earth dist.	3159 Apr 10 16:51	20° <b>£</b> 30'11	8.48577 AU
evening set	3153 Jul 10 02:00	3° <b>Ω</b> 36'40		direct	3159 Jun 19 08:50	17° <b>Ω</b> 02'51	
agniumation	3153 Jul 28 05:47	5° <b>Ω</b> 56'48	0°05'15	evening set	3159 Oct 03 08:00	24° <b>£</b> 51'31	
conjunction	3153 Jul 28 05:46	5° <b>Ω</b> 56'47	0°05'15	agniumation	2150 Oat 20 16:20	26° <b>£</b> 59'26	2011152
minimum elong behind sun begin	3153 Jul 27 22:39	5° <b>Ω</b> 54'31	0 03 13	conjunction minimum elong	3159 Oct 20 16:30 3159 Oct 20 16:29	26° <b>£</b> 59'26	
behind sun end	3153 Jul 28 12:53	5° <b>Ω</b> 59'04		max. Earth dist.	3159 Oct 20 10:29 3159 Oct 20 17:44		10.53721 AU
max. Earth dist.	3153 Jul 28 12.33 3153 Jul 28 09:46		10.08084 AU	morning rise	3159 Nov 06 20:25	20 <b>⊆</b> 3949 29° <b>⊆</b> 06'00	10.55721 AU
morning rise	3153 Jul 28 09:46 3153 Aug 15 09:15	8° <b>Ω</b> 16'49	10.00004 AU	morning 1150	3159 Nov 14 08:51	0° <b>M</b>	
morning 1150	3153 Aug 13 09:13 3153 Oct 18 22:44	8 8€1049 15°Ω		retrograde	3160 Feb 15 02:06	6°M230'59	
retrograde	3153 Nov 27 20:12	15 <b>8€</b> 16° <b>Ω</b> 25'42		opposition	3160 Apr 22 19:30	3°M10'09	2°43'48
ronograde	3154 Jan 07 02:23	10 <b>8 (</b> 2.5 42 15°R <b>Ω</b>		min. Earth dist.	3160 Apr 22 19:10	3°ML10'13	8.59097 AU
opposition	3154 Feb 02 13:17	13 <b>₹3</b> € 12° <b>Ω</b> 58'07	0°26'29	mm. Barui Uist.	3160 Apr 22 19:10 3160 Jun 14 01:08	30°R <b>Ω</b>	0.57071 AU
min. Earth dist.	3154 Feb 02 13:17 3154 Feb 02 10:24	$12^{\circ} \Omega 58' 43$	8.09412 AU	direct	3160 Jul 14 01:08 3160 Jul 01 21:20	30 K== 29° <b>£</b> 44'03	
direct	3154 Apr 10 17:30	9° <b>Ω</b> 29'18	5.07-112 AU	uncet	3160 Jul 19 16:50	29 <b>==</b> 44 03 0° <b>M</b>	
311000	3154 Jul 03 01:33	15° <b>Ω</b>		evening set	3160 Oct 15 10:16	7°M25'04	
evening set	3154 Jul 25 01:28	17° <b>Ω</b> 40'13		o . oming sec	5100 300 15 10.10	, 110±3 UT	
J. J	510.0di 25 01.20	1, 001013					

conjunction	3160 Nov 01 14:42	9° <b>M</b> 30'30	2°12'20	evening set	3166 Dec 25 07:46	17°る54'50	
minimum elong	3160 Nov 01 14:42	9° <b>M</b> .30'30	2°12'20	evening set	3100 Dec 23 07.40	17 03430	
max. Earth dist.	3160 Nov 01 14:36		10.64137 AU	conjunction	3167 Jan 11 00:14	19° <b>る</b> 52'22	0°32'15
morning rise	3160 Nov 18 14:55	11°MJ34'39		minimum elong	3167 Jan 11 00:15	19° <b>る</b> 52'23	0°32'15
S	3160 Dec 19 03:59	15° <b>M</b> ₊		max. Earth dist.	3167 Jan 10 21:27	19° <b>る</b> 51'33	11.02648 AU
retrograde	3161 Feb 26 12:03	18°M52'36		morning rise	3167 Jan 27 15:43	21° <b>る</b> 49'40	
opposition	3161 May 05 15:40	15°M32'43	2°40'15	retrograde	3167 May 08 06:50	28° <b>る</b> 50'47	
min. Earth dist.	3161 May 05 15:51	15°MJ32'41	8.69304 AU	opposition	3167 Jul 17 17:12	25° <b>පි</b> 32'51	0°23'34
	3161 May 12 18:24	15° <b>₹M</b> L		min. Earth dist.	3167 Jul 17 19:14	25° <b>る</b> 32'28	9.02921 AU
direct	3161 Jul 15 02:34	12°ML07'42		direct	3167 Sep 26 13:33	22° <b>る</b> 13'46	
	3161 Sep 13 23:38	15° <b>M</b> ₊		evening set	3168 Jan 05 17:56	29° <b>る</b> 16'28	
evening set	3161 Oct 28 02:58	19° <b>M</b> 40'58			3168 Jan 11 23:21	0° <b>≈</b>	
conjunction	3161 Nov 14 04:03	21°M44'13	2°06'42	conjunction	3168 Jan 22 09:55	1°≈13'54	0°06'08
minimum elong	3161 Nov 14 04:05	21°M44'14	2°06'42	minimum elong	3168 Jan 22 09:55	1°≈13'54	0°06'09
max. Earth dist.	3161 Nov 14 03:10		10.74018 AU	behind sun begin	3168 Jan 22 03:17	1°≈11'58	
morning rise	3161 Dec 01 01:12	23°M46'17		behind sun end	3168 Jan 22 16:33	1°≈15'50	11.02660 411
. 1	3162 Feb 05 02:23	0° <b>∡</b> 7		max. Earth dist.	3168 Jan 22 07:14	1°≈13'08	11.02668 AU
retrograde	3162 Mar 10 16:14	0° <b>∡</b> 758'09		morning rise	3168 Feb 08 01:38	3°≈11'18	
***	3162 Apr 13 23:39	30°RM	2020127	desc. node	3168 Apr 17 17:53	9°≈26'27	
opposition	3162 May 18 07:01	27°M39'03		retrograde	3168 May 19 06:59	10°≈14'40	0000140
min. Earth dist.	3162 May 18 07:09	27°M39'02	8.78735 AU	opposition	3168 Jul 28 21:27	6°≈56'16	
direct	3162 Jul 28 02:00	24°M15'10		min. Earth dist.	3168 Jul 28 23:51	6°≈55'49	9.01899 AU
	3162 Oct 25 18:47	0°⊀ <b>7</b>		direct	3168 Oct 07 11:30	3°≈37'39	
evening set	3162 Nov 09 11:01	1° <b>∡</b> 741′03		evening set	3169 Jan 16 04:26	10° <b>≈</b> 39'32	
conjunction	3162 Nov 26 09:26	3° <b>∡</b> ¹42'27	1°55'35	conjunction	3169 Feb 01 20:07	12° <b>≈</b> 37'10	-0°20'24
minimum elong	3162 Nov 26 09:28	3° <b>҂</b> ¹42'27	1°55'36	minimum elong	3169 Feb 01 20:07	12° <b>≈</b> 37'10	0°20'24
max. Earth dist.	3162 Nov 26 08:39	3° <b>∡</b> ¹42'12	10.82928 AU	max. Earth dist.	3169 Feb 01 16:27	12° <b>≈</b> 36′06	11.00621 AU
morning rise	3162 Dec 13 04:07	5° <b>∡¹</b> 42'47		morning rise	3169 Feb 18 12:36	14° <b>≈</b> 35′03	
retrograde	3163 Mar 22 18:29	12° <b>∡</b> ¹49'44		_	3169 Feb 22 03:06	15° <b>≈</b>	
opposition	3163 May 30 18:36	9° <b>∡</b> ³31'17	2°12'45	retrograde	3169 May 31 08:45	21° <b>≈</b> 42′03	
min. Earth dist.	3163 May 30 19:11	9° <b>∡</b> ³31'11	8.86993 AU	opposition	3169 Aug 10 03:00	18° <b>≈</b> 22'58	-0°40'57
direct	3163 Aug 09 18:47	6° <b>₰</b> 08'34		min. Earth dist.	3169 Aug 10 06:08	18° <b>≈</b> 22'23	8.98842 AU
evening set	3163 Nov 21 11:35	13° <b>∡</b> ¹27'39		direct	3169 Oct 19 08:23	15° <b>≈</b> 04'36	
				evening set	3170 Jan 27 16:48	22° <b>≈</b> 07'07	
conjunction	3163 Dec 08 07:48	15° <b>∡</b> 27'33	1°39'44				
minimum elong	3163 Dec 08 07:50	15° <b>∡</b> 27'34	1°39'45	conjunction	3170 Feb 13 08:35	24° <b>≈</b> 05'16	-0°46'12
max. Earth dist.	3163 Dec 08 06:34	15° <b>∡</b> 27'11	10.90501 AU	minimum elong	3170 Feb 13 08:34	24°≈05'15	0°46'12
morning rise	3163 Dec 25 00:47	17° <b>∡</b> ¹26'33		max. Earth dist.	3170 Feb 13 04:46	24° <b>≈</b> 04'08	10.96567 AU
retrograde	3164 Apr 02 17:06	24° <b>∡</b> ¹29'52		morning rise	3170 Mar 02 02:02	26° <b>≈</b> 03'55	
opposition	3164 Jun 11 03:03	21° <b>₹</b> 11'55	1°50'39		3170 Apr 08 01:42	0° <b>ℋ</b>	
min. Earth dist.	3164 Jun 11 04:38	21° <b>∡</b> 11'37	8.93762 AU	retrograde	3170 Jun 12 14:18	3° <b>升</b> 15′57	
direct	3164 Aug 21 03:59	17° <b>∡</b> 750′18			3170 Aug 21 12:45	30° <b>₹</b> ≈	
evening set	3164 Dec 02 06:17	25° <b>₹</b> 03'31		opposition	3170 Aug 22 10:34	29° <b>≈</b> 55'57	-1°11'46
				min. Earth dist.	3170 Aug 22 13:30		8.93841 AU
conjunction	3164 Dec 19 00:43	27° <b>∡</b> ¹02'16		direct	3170 Oct 31 07:50	26° <b>≈</b> 37'35	
minimum elong	3164 Dec 19 00:45	27° <b>∡</b> *02'16			3171 Jan 04 23:52	0° <b>)</b> €	
max. Earth dist.	3164 Dec 18 22:14		10.96451 AU	evening set	3171 Feb 08 08:23	3° <b>)</b> 42′05	
morning rise	3165 Jan 04 16:48	29° <b>∡</b> 100′21					4040:
	3165 Jan 13 08:54	0°る		conjunction	3171 Feb 25 00:50	5° <b>)</b> (41′08	
retrograde	3165 Apr 14 12:34	6° <b>ප</b> 01'26		minimum elong	3171 Feb 25 00:48	5° <b>)</b> 41′07	
opposition	3165 Jun 23 08:55	2° <b>る</b> 43'44		max. Earth dist.	3171 Feb 24 21:49		10.90625 AU
min. Earth dist.	3165 Jun 23 11:26	2°₹43'16	8.98788 AU	morning rise	3171 Mar 13 19:28	7° <b>)</b> (40′52	
	3165 Aug 05 10:54	30°R. <b>✓</b>		retrograde	3171 Jun 25 02:51	14° <b>)</b> 59'09	
direct	3165 Sep 02 11:07	29° <b>₹</b> '23'05		opposition	3171 Sep 03 21:07	11° <b>)</b> € 38'03	
	3165 Sep 30 03:06	0°る		min. Earth dist.	3171 Sep 03 23:20		8.87039 AU
evening set	3165 Dec 13 20:29	6° <b>る</b> 31'34		direct	3171 Nov 12 07:59	8° <b>升</b> 19'27	
conjunction	3165 Dec. 20, 12:42	ç∘ <b>≂</b> 20122	0°57'11	evening set	3172 Feb 20 04:40	15° <b>¥</b> 27'18	
conjunction	3165 Dec 30 13:42	8° <b>る</b> 29'32		aaniumatiam	2172 Mar 07 22:11	170 <b>W</b> 2712 4	1021154
minimum elong	3165 Dec 30 13:43	8° <b>る</b> 29'32		conjunction	3172 Mar 07 22:11	17° <b>¥</b> 27'34	
max. Earth dist.	3165 Dec 30 10:23		11.00554 AU	minimum elong	3172 Mar 07 22:09	17° <b>¥</b> 27'33	
morning rise	3166 Jan 16 05:22	10°る27'02		max. Earth dist.	3172 Mar 07 19:28		10.82959 AU
retrograde	3166 Apr 26 09:32	17° <b>る</b> 27'24	005450	morning rise	3172 Mar 24 18:30	19° <b>)</b> (28'44	
opposition	3166 Jul 05 13:18	14° <b>ろ</b> 09'41	0°54'59	retrograde	3172 Jul 06 20:28	26° <b>)</b> 54'19	2004126
min. Earth dist.	3166 Jul 05 15:40	14° <b>る</b> 09'15	9.01877 AU	opposition	3172 Sep 15 11:23	23° <b>)</b> (31'59	
direct	3166 Sep 14 14:25	10° <b>る</b> 49'55		min. Earth dist.	3172 Sep 15 13:23	23° <b>,</b> †31'36	8.78614 AU

1:	2172 ) 22 10 14	2001/12/56			2170 0 25 22 52	1.40T.10100	
direct	3172 Nov 23 10:14	20° <b>光</b> 12'56		retrograde	3178 Sep 25 22:52	14° <b>∐</b> 12'29	
evening set	3173 Mar 03 07:06	27° <b>∺</b> 25'31		opposition	3178 Dec 03 06:11	10° <b>Ⅱ</b> 43'22	
				min. Earth dist.	3178 Dec 03 04:49		8.18500 AU
conjunction	3173 Mar 20 02:08	29° <b>∺</b> 27′21 -1′	°49'48	direct	3179 Feb 07 21:37	7° <b>Ⅱ</b> 17'55	
minimum elong	3173 Mar 20 02:06	29° <b>)</b> 27′20 1′	°49'48	evening set	3179 May 21 03:22	15° <b>Ⅱ</b> 13'04	
max. Earth dist.	3173 Mar 19 22:35	29° <b>¥</b> 26'16 10	0.73799 AU	-			
	3173 Mar 24 13:26	0°Υ		conjunction	3179 Jun 07 21:36	17° <b>Ⅱ</b> 29'25	-1°35'46
morning rise	3173 Apr 06 00:45	1° <b>Υ</b> 30'18		minimum elong	3179 Jun 07 21:40	17° <b>Ⅲ</b> 29'27	
•	•	9° <b>Υ</b> '04'01		_	3179 Jun 07 22:58		10.14875 AU
retrograde	3173 Jul 19 20:33			max. Earth dist.			10.148/3 AU
opposition	3173 Sep 28 05:58	5° <b>Y</b> 40′25 -2′		morning rise	3179 Jun 25 19:33	19° <b>∐</b> 46'58	
min. Earth dist.	3173 Sep 28 08:24		3.68867 AU	retrograde	3179 Oct 10 07:47	28° <b>Ⅱ</b> 01'29	
direct	3173 Dec 05 17:17	2° <b>Y</b> 20'40		opposition	3179 Dec 17 04:37	24° <b>Ⅲ</b> 32′01	-1°44'33
evening set	3174 Mar 15 16:40	9° <b>Ƴ</b> 39'10		min. Earth dist.	3179 Dec 17 03:07	24° <b>∏</b> 32'19	8.11914 AU
				direct	3180 Feb 21 18:45	21° <b>Ⅱ</b> 05′20	
conjunction	3174 Apr 01 13:58	11° <b>Y</b> ′42'58 -2'	2°03'06	evening set	3180 Jun 03 16:37	29° <b>Ⅱ</b> 06'44	
minimum elong	3174 Apr 01 13:57	11° <b>Y</b> ′42'57 2'	2°03'06	J	3180 Jun 10 15:36	0°9	
max. Earth dist.	3174 Apr 01 10:21	11° <b>Υ</b> 41'51 10			3100 0411 10 15.50	0 0	
	-	13° <b>Υ</b> '48'02	0.05544 AO	:	2100 Jun 21 15:00	10625107	1011103
morning rise	3174 Apr 18 15:29			conjunction	3180 Jun 21 15:08	1°925'07	
retrograde	3174 Aug 02 03:23	21° <b>Υ</b> 30'21		minimum elong	3180 Jun 21 15:11	1° <b>©</b> 25'08	
opposition	3174 Oct 11 05:42	18° <b>Y</b> ′05′26 -2′		max. Earth dist.	3180 Jun 21 17:13		10.09400 AU
min. Earth dist.	3174 Oct 11 08:01	18° <b>Y</b> 04'59 8	3.58275 AU	morning rise	3180 Jul 09 16:30	3° <b>5</b> 44'24	
direct	3174 Dec 18 05:16	14° <b>Ƴ</b> 44'47		retrograde	3180 Oct 23 17:57	12° <b>©</b> 00'08	
evening set	3175 Mar 28 10:14	22° <b>Y</b> 10'07		opposition	3180 Dec 30 05:29	8° <b>5</b> 30'37	-1°10'50
				min. Earth dist.	3180 Dec 30 03:27	8° <b>©</b> 31'02	8.07573 AU
conjunction	3175 Apr 14 10:43	24° <b>Y</b> 16'09 -2	°10'52	direct	3181 Mar 06 20:59	5° <b>©</b> 02'53	
minimum elong	3175 Apr 14 10:42		°10'51	evening set	3181 Jun 18 11:34	13°909'11	
max. Earth dist.	-	24°Υ15'24 10		evening set	3101 Juli 10 11.54	13 30711	
	3175 Apr 14 08:18		0.32/18 AU		2101 1 1 06 12 22	1500000150	0041152
morning rise	3175 May 01 15:37	26° <b>Y</b> 23'36		conjunction	3181 Jul 06 13:22	15°528'59	
	3175 Jun 02 08:14	0° <b>8</b>		minimum elong	3181 Jul 06 13:24	15° <b>©</b> 29'00	
retrograde	3175 Aug 15 16:16	4° <b>8</b> 14'32		max. Earth dist.	3181 Jul 06 16:32	15° <b>©</b> 30'00	10.06314 AU
opposition	3175 Oct 24 10:31	0° <b>8</b> 48'17 -2'	°43'41	morning rise	3181 Jul 24 16:50	17° <b>5</b> 49'17	
min. Earth dist.	3175 Oct 24 11:59	0° <b>8</b> 48'00 8	3.47385 AU	retrograde	3181 Nov 07 04:00	26°904'01	
	3175 Nov 03 19:24	30° <b>₹Ƴ</b>		opposition	3182 Jan 13 07:27	22° <b>©</b> 34'48	-0°32'36
direct	3175 Dec 31 00:31	27° <b>Y</b> ′26'34		min. Earth dist.	3182 Jan 13 04:34	22° <b>©</b> 35'23	8.05745 AU
	3176 Feb 23 15:45	0°8		direct	3182 Mar 21 02:22	19° <b>©</b> 06'11	
evening set	3176 Apr 09 12:52	4° <b>8</b> 59'19		evening set	3182 Jul 03 10:22	27°915'52	
evening sec	517011pi 05 12.52	1 037 17		evening sec	3102 341 03 10.22	27 - 01332	
:	3176 Apr 26 17:15	70 07151 2	0012120	:	2102 [-1 21 14.02	200627114	0010100
conjunction	1	7° <b>8</b> 07'54 -2'		conjunction	3182 Jul 21 14:02	29°936'14	
minimum elong	3176 Apr 26 17:16	7° <b>8</b> 07'54 2'		minimum elong	3182 Jul 21 14:03	29° <b>©</b> 36'14	0°10'09
max. Earth dist.	3176 Apr 26 16:27	7° <b>8</b> 07'39 10	0.41875 AU	behind sun begin	3182 Jul 21 08:14	29° <b>©</b> 34'22	
morning rise	3176 May 14 02:03	9° <b>8</b> 17'55		behind sun end	3182 Jul 21 19:52	29° <b>©</b> 38'07	
	3176 Jul 06 17:04	15° <b>8</b>		max. Earth dist.	3182 Jul 21 18:08	29° <b>5</b> 37'33	10.05815 AU
retrograde	3176 Aug 28 12:26	17° <b>8</b> 16'50			3182 Jul 24 15:15	$0^{\circ}\Omega$	
	3176 Oct 21 16:49	15° <b>₹</b> 8		morning rise	3182 Aug 08 18:01	1° <b>Ω</b> 56'42	
opposition	3176 Nov 05 20:16	13° <b>8</b> 49'24 -2	°41'40	asc. node	3182 Nov 16 19:04	10° <b>Ω</b> 07'04	
min. Earth dist.	3176 Nov 05 20:23	13° <b>8</b> 49'22 8		retrograde	3182 Nov 21 12:39	10° <b>Ω</b> 08'19	
direct	3177 Jan 12 01:30	10° <b>8</b> 26'29	.50752710	opposition	3183 Jan 27 09:09	6° <b>Ω</b> 39'43	0°07'38
direct	3177 Mar 27 13:06	15° <b>8</b>		**		6°Ω40'27	8.06552 AU
. ,				min. Earth dist.	3183 Jan 27 05:32		8.00332 AU
evening set	3177 Apr 23 00:46	18° <b>8</b> 06'56		direct	3183 Apr 04 10:33	3° <b>Ω</b> 10'30	
				evening set	3183 Jul 18 10:26	11° <b>Ω</b> 21'47	
conjunction	3177 May 10 09:33	20° <b>8</b> 18'12 -2					
minimum elong	3177 May 10 09:35	20° <b>8</b> 18'12 2'	2°07'00	conjunction	3183 Aug 05 14:17	13° <b>Ω</b> 41'51	0°22'15
max. Earth dist.	3177 May 10 09:46	20° <b>8</b> 18'16 10	0.31587 AU	minimum elong	3183 Aug 05 14:16	13° <b>Ω</b> 41′50	0°22'15
morning rise	3177 May 27 22:40	22° <b>8</b> 30'52		max. Earth dist.	3183 Aug 05 18:58	13° <b>Ω</b> 43'21	10.07931 AU
C	3177 Aug 16 01:27	$\Pi^{\circ}$			3183 Aug 15 16:12	15° <b>Ω</b>	
retrograde				morning rise	3183 Aug 23 17:04	16° <b>Ω</b> 01'35	
. on opiudo	3177 Sen 11 15:47	()° 11 36'42					
	3177 Sep 11 15:47	0° <b>∏</b> 36'42 30°₽₩		•	•		
annasition	3177 Oct 08 07:14	30° <b>₹</b> 8	221100	retrograde	3183 Dec 05 16:58	24° <b>Ω</b> 08'17	0047112
opposition	3177 Oct 08 07:14 3177 Nov 19 11:03	30°R <b>と</b> 27° <b>と</b> 08'17 -2		retrograde opposition	3183 Dec 05 16:58 3184 Feb 10 09:32	24°Ω08'17 20°Ω40'34	
min. Earth dist.	3177 Oct 08 07:14 3177 Nov 19 11:03 3177 Nov 19 10:12	30°R <b>台</b> 27° <b>台</b> 08'17 -2' 27° <b>号</b> 08'27 8	9°31'00 3.26941 AU	retrograde opposition min. Earth dist.	3183 Dec 05 16:58 3184 Feb 10 09:32 3184 Feb 10 05:36	24° Ω08'17 20° Ω40'34 20° Ω41'23	0°47'12 8.09938 AU
**	3177 Oct 08 07:14 3177 Nov 19 11:03 3177 Nov 19 10:12 3178 Jan 25 07:20	30°R8 27°808'17 -2 27°808'27 8 23°844'07		retrograde opposition min. Earth dist. direct	3183 Dec 05 16:58 3184 Feb 10 09:32 3184 Feb 10 05:36 3184 Apr 17 19:45	24° Ω08'17 20° Ω40'34 20° Ω41'23 17° Ω11'05	
min. Earth dist.	3177 Oct 08 07:14 3177 Nov 19 11:03 3177 Nov 19 10:12	30°R <b>と</b> 27° <b>と</b> 08'17 -2 27° <b>と</b> 08'27 8 23° <b>と</b> 44'07 0°耳		retrograde opposition min. Earth dist.	3183 Dec 05 16:58 3184 Feb 10 09:32 3184 Feb 10 05:36	24° Ω08'17 20° Ω40'34 20° Ω41'23	
min. Earth dist.	3177 Oct 08 07:14 3177 Nov 19 11:03 3177 Nov 19 10:12 3178 Jan 25 07:20	30°R8 27°808'17 -2 27°808'27 8 23°844'07		retrograde opposition min. Earth dist. direct	3183 Dec 05 16:58 3184 Feb 10 09:32 3184 Feb 10 05:36 3184 Apr 17 19:45	24° Ω08'17 20° Ω40'34 20° Ω41'23 17° Ω11'05	
min. Earth dist. direct	3177 Oct 08 07:14 3177 Nov 19 11:03 3177 Nov 19 10:12 3178 Jan 25 07:20 3178 Apr 24 09:16	30°R <b>と</b> 27° <b>と</b> 08'17 -2 27° <b>と</b> 08'27 8 23° <b>と</b> 44'07 0°耳		retrograde opposition min. Earth dist. direct	3183 Dec 05 16:58 3184 Feb 10 09:32 3184 Feb 10 05:36 3184 Apr 17 19:45	24° Ω08'17 20° Ω40'34 20° Ω41'23 17° Ω11'05	8.09938 AU
min. Earth dist. direct	3177 Oct 08 07:14 3177 Nov 19 11:03 3177 Nov 19 10:12 3178 Jan 25 07:20 3178 Apr 24 09:16	30°R <b>と</b> 27° <b>と</b> 08'17 -2 27° <b>と</b> 08'27 8 23° <b>と</b> 44'07 0°耳	3.26941 AU	retrograde opposition min. Earth dist. direct evening set conjunction	3183 Dec 05 16:58 3184 Feb 10 09:32 3184 Feb 10 05:36 3184 Apr 17 19:45 3184 Aug 01 08:54 3184 Aug 19 11:11	24° Ω08'17 20° Ω40'34 20° Ω41'23 17° Ω11'05 25° Ω22'04	8.09938 AU 0°53'02
min. Earth dist. direct evening set conjunction	3177 Oct 08 07:14 3177 Nov 19 11:03 3177 Nov 19 10:12 3178 Jan 25 07:20 3178 Apr 24 09:16 3178 May 06 21:40 3178 May 24 11:10	30°R8 27°808'17 -2 27°808'27 8 23°844'07 0°耳 1°耳32'08	°54'43	retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	3183 Dec 05 16:58 3184 Feb 10 09:32 3184 Feb 10 05:36 3184 Apr 17 19:45 3184 Aug 01 08:54 3184 Aug 19 11:11 3184 Aug 19 11:09	24° Ω08'17 20° Ω40'34 20° Ω41'23 17° Ω11'05 25° Ω22'04 27° Ω40'56 27° Ω40'55	8.09938 AU 0°53'02 0°53'01
min. Earth dist. direct evening set conjunction minimum elong	3177 Oct 08 07:14 3177 Nov 19 11:03 3177 Nov 19 10:12 3178 Jan 25 07:20 3178 Apr 24 09:16 3178 May 06 21:40 3178 May 24 11:10 3178 May 24 11:13	30°R8 27°808'17 -2 27°808'27 8 23°844'07 0°耳 1°耳32'08 3°耳46'03 -1' 3°耳46'04 1	°54'43 °54'42	retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	3183 Dec 05 16:58 3184 Feb 10 09:32 3184 Feb 10 05:36 3184 Apr 17 19:45 3184 Aug 01 08:54 3184 Aug 19 11:11 3184 Aug 19 11:09 3184 Aug 19 15:58	24° Ω08'17 20° Ω40'34 20° Ω41'23 17° Ω11'05 25° Ω22'04 27° Ω40'56 27° Ω40'55 27° Ω42'29	8.09938 AU 0°53'02
min. Earth dist. direct evening set conjunction	3177 Oct 08 07:14 3177 Nov 19 11:03 3177 Nov 19 10:12 3178 Jan 25 07:20 3178 Apr 24 09:16 3178 May 06 21:40 3178 May 24 11:10	30°R8 27°808'17 -2 27°808'27 8 23°844'07 0°耳 1°耳32'08	°54'43 °54'42	retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	3183 Dec 05 16:58 3184 Feb 10 09:32 3184 Feb 10 05:36 3184 Apr 17 19:45 3184 Aug 01 08:54 3184 Aug 19 11:11 3184 Aug 19 11:09	24° Ω08'17 20° Ω40'34 20° Ω41'23 17° Ω11'05 25° Ω22'04 27° Ω40'56 27° Ω40'55	8.09938 AU 0°53'02 0°53'01

	2104 D 10 15.45	70 m 50120			2101 Mar. 05, 12,40	250 <b>m</b> 42125	
retrograde	3184 Dec 18 15:45	7° Mp 59'29	1922122	retrograde	3191 Mar 05 13:49	25°M42'25	2925107
opposition	3185 Feb 23 07:23	4° Mp 32'56	1°23'33	opposition	3191 May 12 22:01	22°M23'24	
min. Earth dist.	3185 Feb 23 03:50	4° Mp 33'40	8.15699 AU	min. Earth dist.	3191 May 12 22:02	22°M23'24	8.74899 AU
direct	3185 May 02 04:00	1°m,03'31		direct	3191 Jul 22 11:51	18°M59'26	
evening set	3185 Aug 16 03:09	9° Mp 12'16		evening set	3191 Nov 04 06:15	26°M28'59	
conjunction	3185 Sep 03 02:27	11° <b>m</b> )29'15	1°20'24	conjunction	3191 Nov 21 05:48	28°M31'12	2°01'09
minimum elong	3185 Sep 03 02:24	11° <b>m</b> )29'14	1°20'23	minimum elong	3191 Nov 21 05:49	28°M31'12	2°01'10
max. Earth dist.	3185 Sep 03 06:35		10.19329 AU	max. Earth dist.	3191 Nov 21 05:03		10.79455 AU
morning rise	3185 Sep 20 22:38	13° <b>m</b> ) 45'17			3191 Dec 03 12:52	0° <b>∡</b> ¹	
retrograde	3186 Jan 01 08:25	21° mp 38'16		morning rise	3191 Dec 08 01:33	0° <b>х</b> 32′18	
opposition	3186 Mar 09 01:36	18° <b>m</b> 13'01	1°54'31	retrograde	3192 Mar 16 16:56	7° <b>√</b> 41'36	
min. Earth dist.	3186 Mar 08 22:41	18° <b>m</b> ) 13'37	8.23490 AU	opposition	3192 May 24 11:59	4°×723'20	2°20'58
direct		14° <b>m</b> ) 43'59	8.23490 AU	min. Earth dist.	•	4° × 23'20' 4° × 23'08	8.83901 AU
	3186 May 16 09:31	-		direct	3192 May 24 13:07 3192 Aug 03 08:35	1°×700'31	6.63901 AU
evening set	3186 Aug 30 14:50	22° Mp 48'45		evening set	3192 Aug 03 08:33 3192 Nov 15 10:37	8° × 22'53	
conjunction	3186 Sep 17 10:13	25° m 03'22	1°42'51	evening set	3172 1107 13 10.37	0 × 22 33	
minimum elong	3186 Sep 17 10:10	25° m 03'21	1°42'50	conjunction	3192 Dec 02 07:41	10° <b>∡</b> °23′26	1°47'21
max. Earth dist.	3186 Sep 17 10:10 3186 Sep 17 13:23	-	10.27934 AU	minimum elong	3192 Dec 02 07:41 3192 Dec 02 07:44	10 × 23 20 10° × 23'27	1°47'22
morning rise	3186 Oct 05 01:53	27° Mp 16'49	10.27754 AU	max. Earth dist.	3192 Dec 02 07:44 3192 Dec 02 05:31		10.87740 AU
morning risc	3186 Oct 27 22:51	0° <b>⊡</b>		morning rise	3192 Dec 02 03:31 3192 Dec 19 01:35	10 × 2247 12°× 23'02	10.87740 AU
rotro aro do	3187 Jan 14 18:04			•			
retrograde		5° <b>£</b> 01'50	2010122	retrograde	3193 Mar 28 16:47	19° 🖈 28'05	2001107
opposition	3187 Mar 22 15:34	1° <b>£</b> 37'59		opposition	3193 Jun 05 22:11	16° <b>₹</b> 10'21	2°01'07
min. Earth dist.	3187 Mar 22 13:07	1° <b>≏</b> 38'28	8.32837 AU	min. Earth dist.	3193 Jun 05 23:46	16°×710'03	8.91333 AU
	3187 Apr 12 21:05	30°R, Mp		direct	3193 Aug 15 22:31	12° <b>х</b> 48'39	
direct	3187 May 30 12:11	28° m 09'38		evening set	3193 Nov 27 08:25	20° <b>∡</b> 04'44	
. ,	3187 Jul 16 11:26	0° <b>ʊ</b>			2102 D 14 02 42	220 70401	1020115
evening set	3187 Sep 13 18:11	6° <b>£</b> 08'53		conjunction	3193 Dec 14 03:42	22°×704'01	1°29'15
	21070 . 01 00 00	00.000.51	1050100	minimum elong	3193 Dec 14 03:44	22° <b>×</b> 04'02	1°29'15
conjunction	3187 Oct 01 09:08	8° <b>£</b> 20'51	1°59'20	max. Earth dist.	3193 Dec 14 01:05		10.94294 AU
minimum elong	3187 Oct 01 09:05	8° <b>£</b> 20'50	1°59'20	morning rise	3193 Dec 30 20:11	24° <b>∡</b> °02'31	
max. Earth dist.	3187 Oct 01 11:29		10.37831 AU		3194 Mar 04 12:23	0°ಕ	
morning rise	3187 Oct 18 19:57	10° <b>≏</b> 31'30		retrograde	3194 Apr 09 15:09	1° <b>る</b> 04'47	
retrograde	3188 Jan 27 19:41	18° <b>≏</b> 08'24			3194 May 16 14:55	30°Ŗ <b>⋌</b> ¹	
opposition	3188 Apr 04 00:39	14° <b>£</b> 45'56	2°34'43	opposition	3194 Jun 18 05:31	27° <b>х</b> 47'21	1°36'35
min. Earth dist.	3188 Apr 03 22:13	14° <b>≏</b> 46'25	8.43204 AU	min. Earth dist.	3194 Jun 18 07:35	27° <b>∡</b> ¹46'58	8.96906 AU
direct	3188 Jun 12 10:16	11° <b>≏</b> 18'31		direct	3194 Aug 28 08:02	24° <b>∡</b> ¹26'37	
evening set	3188 Sep 26 11:56	19° <b>≙</b> 11'03			3194 Nov 24 16:11	0°ප	
				evening set	3194 Dec 09 01:10	1° <b>る</b> 37'33	
conjunction	3188 Oct 13 22:29	21° <b>≏</b> 20'18	2°09'20			_	
minimum elong	3188 Oct 13 22:28	21° <b>≏</b> 20'17	2°09'20	conjunction	3194 Dec 25 19:04		1°07'42
max. Earth dist.	3188 Oct 14 00:37		10.48482 AU	minimum elong	3194 Dec 25 19:06	3° <b>る</b> 35'56	1°07'42
morning rise	3188 Oct 31 04:36	23° <b>≙</b> 28'11		max. Earth dist.	3194 Dec 25 16:02	3° <b>る</b> 35'01	10.98913 AU
	3189 Jan 06 21:49	0° <b>M</b> ₊		morning rise	3195 Jan 11 10:45	5° <b>る</b> 33'42	
retrograde	3189 Feb 08 15:54	0°ML57'10		retrograde	3195 Apr 21 13:06	12° <b>る</b> 34'40	
	3189 Mar 13 23:25	30° <b>₹</b> Ω		opposition	3195 Jun 30 11:16	9° <b>ප</b> 17'16	1°08'27
opposition	3189 Apr 17 04:44	27° <b>≏</b> 35'59	2°42'40	min. Earth dist.	3195 Jun 30 14:20	9° <b>る</b> 16'42	9.00495 AU
min. Earth dist.	3189 Apr 17 02:23	27° <b>≏</b> 36'26	8.54038 AU	direct	3195 Sep 09 11:56	5° <b>る</b> 57'20	
direct	3189 Jun 26 01:32	24° <b>≏</b> 09'40		evening set	3195 Dec 20 14:15	13° <b>る</b> 04'13	
	3189 Sep 23 11:56	0° <b>M</b> .					
evening set	3189 Oct 09 19:34	1°M54'42		conjunction	3196 Jan 06 07:02	15° <b>පි</b> 02'01	0°43'36
				minimum elong	3196 Jan 06 07:04	15° <b>る</b> 02'02	0°43'36
conjunction	3189 Oct 27 02:03	4°Mo1'21	2°12'45	max. Earth dist.	3196 Jan 06 02:41	15° <b>る</b> 00'44	11.01503 AU
minimum elong	3189 Oct 27 02:03	4° <b>ጤ</b> 01'21	2°12'45	morning rise	3196 Jan 22 22:36	16° <b>ප</b> 59'30	
max. Earth dist.	3189 Oct 27 04:09	4°ML02'00	10.59331 AU	retrograde	3196 May 02 08:47	24°る00'37	
morning rise	3189 Nov 13 03:56	6°ML06'39		opposition	3196 Jul 11 16:01	20°る42'55	0°37'46
retrograde	3190 Feb 21 06:46	13°ML28'11		min. Earth dist.	3196 Jul 11 20:00	20° <b>ප්</b> 42'11	9.02030 AU
opposition	3190 Apr 30 03:47	10°ML08'10	2°42'37	direct	3196 Sep 20 12:55	17° <b>る</b> 23'33	
min. Earth dist.	3190 Apr 30 02:21	10°ML08'26	8.64780 AU	evening set	3196 Dec 31 01:22	24° <b>る</b> 27'43	
direct	3190 Jul 09 08:59	6°M43'02	-	<b>5</b>	- · · <del>-</del>		
evening set	3190 Oct 22 17:31	14°ML20'15		conjunction	3197 Jan 16 17:30	26° <b>ට</b> 25'17	0°17'52
	3190 Oct 28 05:57	15°M		minimum elong	3197 Jan 16 17:30	26° <b>පි</b> 25'17	
				max. Earth dist.	3197 Jan 16 12:32		11.02013 AU
conjunction					10 12.02		
	3190 Nov 08 20:16	16°M.24'32	2°09'51	morning rise	3197 Feb 02 09:17	28° <del>C</del> 522'45	
	3190 Nov 08 20:16 3190 Nov 08 20:17	16°M24'32		morning rise	3197 Feb 02 09:17 3197 Feb 16 17:58	28°る22'45 0°≈	
minimum elong	3190 Nov 08 20:17	16°M24'32	2°09'51	-	3197 Feb 16 17:58	0° <b>≈</b>	
		16°M24'32		morning rise retrograde opposition			0°05'40

min. Earth dist.	3197 Jul 24 00:18	2°206'30	9.01481 AU	minimum elong	3203 Mar 27 10:42	6° <b>Ƴ</b> 34'09	1°57'56
iiiii. Lattii dist.	3197 Aug 24 00:10	2 ~00 30 30°Rる	7.01401 AO	max. Earth dist.	3203 Mar 27 10:42 3203 Mar 27 08:46		10.65927 AU
desc. node	3197 Sep 27 15:36	28° <b>る</b> 49'25		morning rise	3203 Apr 13 10:51	8° <b>Υ</b> 38'30	10.03727110
direct	3197 Oct 02 14:10	28° <b>♂</b> 48'14		retrograde	3203 Jul 27 16:09	16° <b>Y</b> 17'50	
	3197 Nov 10 02:54	0° <b>≈</b>		opposition	3203 Oct 05 21:39	12° <b>Y</b> 52'48	-2°32'39
evening set	3198 Jan 11 11:56	5°≈51'00		min. Earth dist.	3203 Oct 05 22:37	12° <b>Υ</b> 52'37	8.60925 AU
C				direct	3203 Dec 13 02:48	9° <b>Ƴ</b> 31'59	
conjunction	3198 Jan 28 03:51	7° <b>≈</b> 48'41	-0°08'41	evening set	3204 Mar 22 04:38	16° <b>Ƴ</b> 54'56	
minimum elong	3198 Jan 28 03:50	7° <b>≈</b> 48'41	0°08'41				
behind sun begin	3198 Jan 27 21:46	7° <b>≈</b> 46'54		conjunction	3204 Apr 08 03:44	19° <b>Ƴ</b> 00'11	-2°08'14
behind sun end	3198 Jan 28 09:55	7° <b>≈</b> 50'28		minimum elong	3204 Apr 08 03:43	19° <b>Ƴ</b> 00'10	2°08'14
max. Earth dist.	3198 Jan 27 23:30	7° <b>≈</b> 47'25	11.00434 AU	max. Earth dist.	3204 Apr 08 02:10	18° <b>Ƴ</b> 59'41	10.55595 AU
morning rise	3198 Feb 13 20:01	9° <b>≈</b> 46'29		morning rise	3204 Apr 25 07:03	21° <b>Y</b> 06'45	
	3198 Apr 07 15:52	15° <b>≈</b>		retrograde	3204 Aug 09 03:00	28° <b>Y</b> 54'38	
retrograde	3198 May 26 08:52	16° <b>≈</b> 52'19		opposition	3204 Oct 18 00:33	25° <b>Y</b> 28′25	-2°42'04
	3198 Jul 15 20:33	15° <b>R</b> ≈		min. Earth dist.	3204 Oct 18 00:58	25° <b>Y</b> 28′20	8.50451 AU
opposition	3198 Aug 05 01:32	13° <b>≈</b> 33'14	-0°26'46	direct	3204 Dec 24 18:12	22° <b>Y</b> 06'43	
min. Earth dist.	3198 Aug 05 04:48	13° <b>≈</b> 32'38	8.98876 AU	evening set	3205 Apr 04 03:37	29° <b>Y</b> 36'48	
direct	3198 Oct 14 11:52	10° <b>≈</b> 14′25			3205 Apr 07 07:03	$9^{\circ}$ 8	
	3199 Jan 02 12:07	15° <b>≈</b>					
evening set	3199 Jan 22 23:30	17° <b>≈</b> 17'11		conjunction	3205 Apr 21 06:05	1° <b>8</b> 44'25	
				minimum elong	3205 Apr 21 06:05	1° <b>8</b> 44'25	2°12'32
conjunction	3199 Feb 08 15:25	19° <b>≈</b> 15'16		max. Earth dist.	3205 Apr 21 04:46	_	10.45077 AU
minimum elong	3199 Feb 08 15:24	19° <b>≈</b> 15'16		morning rise	3205 May 08 13:11	3° <b>8</b> 53'28	
max. Earth dist.	3199 Feb 08 11:33		10.96831 AU	retrograde	3205 Aug 22 20:34	11° <b>8</b> 49'36	
morning rise	3199 Feb 25 08:19	21°≈13'43		opposition	3205 Oct 31 08:39	8° <b>8</b> 22'18	
retrograde	3199 Jun 07 13:46	28° <b>≈</b> 24'04		min. Earth dist.	3205 Oct 31 08:52	_	8.40044 AU
opposition	3199 Aug 17 08:33	25° <b>≈</b> 04'01		direct	3206 Jan 06 16:38	4° <b>8</b> 59'37	
min. Earth dist.	3199 Aug 17 11:42	25°≈03'26	8.94323 AU	evening set	3206 Apr 17 11:43	12° <b>8</b> 37'16	
direct	3199 Oct 26 09:59	21°≈45'09			220634 04 10 22	1.401.4.500	2010111
evening set	3200 Feb 03 13:50	28°≈49'21		conjunction	3206 May 04 18:23	14° <b>8</b> 47'28	
	3200 Feb 13 12:44	0° <b>ℋ</b>		minimum elong	3206 May 04 18:24	14° <b>8</b> 47'28	
	2200 F 1 20 06 01	001/40112	0050157	max. Earth dist.	3206 May 04 18:19	_	10.34914 AU
conjunction	3200 Feb 20 06:01 3200 Feb 20 05:59	0° <b>)</b> 48'12 0° <b>)</b> 48'11	-0°59'57 0°59'56	marning rise	3206 May 06 10:00 3206 May 22 05:43	15° <b>と</b> 16° <b>と</b> 59'08	
minimum elong max. Earth dist.	3200 Feb 20 03:39 3200 Feb 20 01:38		10.91349 AU	morning rise retrograde	3206 May 22 03.43 3206 Sep 05 20:48	25° <b>8</b> 02'40	
morning rise	3200 Feb 20 01:38 3200 Mar 08 00:09	2°\(\frac{4}{4}7'38\)	10.91349 AU	opposition	3206 Sep 03 20:48 3206 Nov 13 21:55	21° <b>8</b> 34'29	2026142
retrograde	3200 Jun 18 23:37	10°\(\frac{1}{10}\)		min. Earth dist.	3206 Nov 13 21:19	21° <b>8</b> 34'36	
opposition	3200 Juli 18 23:37 3200 Aug 28 18:01	6°\(\frac{10}{42}\)'35	-1°28'01	direct	3207 Jan 19 21:26	18° <b>8</b> 10'46	0.30237 AC
min. Earth dist.	3200 Aug 28 21:27		8.87993 AU	evening set	3207 May 01 05:06	25° <b>8</b> 56'01	
direct	3200 Nov 06 08:56	3° <b>¥</b> 23′28	0.07775710	evening sec	3207 May 01 03.00	23 03001	
evening set	3201 Feb 14 08:10	10° <b>)</b> € 30'32		conjunction	3207 May 18 16:33	28° <b>8</b> 08'53	-2°00'51
		,		minimum elong	3207 May 18 16:35	28° <b>8</b> 08'54	
conjunction	3201 Mar 03 01:08	12° <b>)</b> 30′28	-1°22'48	max. Earth dist.	3207 May 18 18:14	28° <b>8</b> 09'25	10.25652 AU
minimum elong	3201 Mar 03 01:06	12° <b>¥</b> 30′27			3207 Jun 02 06:28	0° <b>I</b> I	
max. Earth dist.	3201 Mar 02 20:43	12° <b>¥</b> 29'08	10.84187 AU	morning rise	3207 Jun 05 08:20	0°Ⅲ23′09	
morning rise	3201 Mar 19 20:54	14° <b>)</b> 31′13		retrograde	3207 Sep 20 02:13	8° <b>Ⅲ</b> 32'41	
retrograde	3201 Jul 01 13:00	21° <b>¥</b> 54'16		opposition	3207 Nov 27 15:44	5° <b>Ⅱ</b> 03'54	-2°21'03
opposition	3201 Sep 10 06:55	18° <b>∺</b> 31'51	-1°54'25	min. Earth dist.	3207 Nov 27 13:56	5° <b>Ⅱ</b> 04'15	8.21626 AU
min. Earth dist.	3201 Sep 10 10:10	18° <b>∺</b> 31'14	8.80105 AU	direct	3208 Feb 02 09:37	1° <b>Ⅱ</b> 39′07	
direct	3201 Nov 18 11:20	15° <b>∺</b> 12'19		evening set	3208 May 14 07:42	9° <b>Ⅱ</b> 31'39	
evening set	3202 Feb 26 07:50	22° <b>∺</b> 23'35					
				conjunction	3208 Jun 01 00:01	11° <b>Ⅱ</b> 47′03	-1°44'40
conjunction	3202 Mar 15 02:14	24° <b>)</b> €24'56		minimum elong	3208 Jun 01 00:05	11° <b>Ⅱ</b> 47'04	
minimum elong	3202 Mar 15 02:12	24° <b>)</b> €24'56		max. Earth dist.	3208 Jun 01 03:18		10.17814 AU
max. Earth dist.	3202 Mar 14 23:08		10.75597 AU	morning rise	3208 Jun 18 20:04	14° <b>Ⅱ</b> 03'41	
morning rise	3202 Mar 31 23:52	26° <b>∺</b> 27'19		retrograde	3208 Oct 03 11:10	22° <b>I</b> 17'23	
	3202 May 02 23:45	0° <b>Υ</b>		opposition	3208 Dec 10 13:18	18° <b>Ⅱ</b> 48'16	
retrograde	3202 Jul 14 10:23	3° <b>Y</b> 58'15		min. Earth dist.	3208 Dec 10 10:17	18° <b>Ⅱ</b> 48'53	8.14657 AU
opposition	3202 Sep 22 23:56	0° <b>Υ</b> 34'31		direct	3209 Feb 15 03:42	15° <b>Ⅱ</b> 22'28	
min. Earth dist.	3202 Sep 23 01:58		8.70956 AU	evening set	3209 May 28 18:25	23° <b>Ⅱ</b> 21'29	
T	3202 Sep 30 13:45	30° <b>₹</b> ₩			2200 X 17 17 1	0.50 T 2.000 -	100011.5
direct	3202 Nov 30 17:54	27° <b>)</b> 14'25		conjunction	3209 Jun 15 15:14	25° <b>Ⅱ</b> 39'05	
	3203 Jan 27 13:16	0° <b>Υ</b>		minimum elong	3209 Jun 15 15:18	25° <b>Ⅱ</b> 39'06	
evening set	3203 Mar 10 14:18	4° <b>Ƴ</b> 31'01		max. Earth dist.	3209 Jun 15 19:39		10.11873 AU
agniumation	2202 Mar 27 10:44	6° <b>Ƴ</b> 34'10	1057156	morning rise	3209 Jul 03 15:01	27° <b>Ⅱ</b> 57'40 0° <b>©</b>	
conjunction	3203 Mar 27 10:44	0 13410	-1 3/30		3209 Jul 20 04:34	0 <b>29</b>	

. 1	2200 0 4 17 22 51	(0612122		1' '	2215 M 10 17 20	00 m. 1 112 0	
retrograde	3209 Oct 17 22:51	6°913'23	1005154	direct	3215 May 10 17:30	9° m 11'32	
opposition	3209 Dec 24 13:49	2°544'13		evening set	3215 Aug 24 20:53	17° <b>m</b> ) 18'17	
min. Earth dist.	3209 Dec 24 10:03	2°544'59	8.09776 AU				
	3210 Feb 01 06:44	30°RⅡ		conjunction	3215 Sep 11 18:10	19° <b>m</b> 34'00	1°33'57
direct	3210 Mar 01 02:54	29° <b>Ⅱ</b> 17′26		minimum elong	3215 Sep 11 18:07	19° <b>m</b> 33'59	1°33'56
	3210 Mar 28 19:37	0ංම		max. Earth dist.	3215 Sep 11 21:24	19° <b>m</b> 35'01	10.24507 AU
evening set	3210 Jun 12 11:38	7° <b>©</b> 21'45		morning rise	3215 Sep 29 11:47	21° <b>m</b> 48'34	
				retrograde	3216 Jan 09 12:31	29° <b>m</b> 37'16	
conjunction	3210 Jun 30 12:08	9° <b>©</b> 40'59	-0°54'46	opposition	3216 Mar 16 06:45	26° Mp 13'05	2°09'14
minimum elong	3210 Jun 30 12:10	9° <b>©</b> 41'00	0°54'45	min. Earth dist.	3216 Mar 16 03:59	26° Mp 13'38	8.28934 AU
max. Earth dist.	3210 Jun 30 16:47	9° <b>©</b> 42'30	10.08179 AU	direct	3216 May 23 21:09	22° Mp 44'41	
morning rise	3210 Jul 18 14:41	12° <b>©</b> 00'52			3216 Aug 31 19:57	0∘ <b>亚</b>	
retrograde	3210 Nov 01 10:49	20° <b>©</b> 16'17		evening set	3216 Sep 07 04:12	0° <b>≏</b> 46'36	
opposition	3211 Jan 07 15:54	16° <b>5</b> 47'23	-0°49'18				
min. Earth dist.	3211 Jan 07 12:15	16° <b>5</b> 48'08	8.07250 AU	conjunction	3216 Sep 24 21:15	2° <b>≏</b> 59'46	1°53'05
direct	3211 Mar 15 06:51	13° <b>©</b> 19'41		minimum elong	3216 Sep 24 21:12	2° <b>≏</b> 59'45	1°53'05
evening set	3211 Jun 27 09:35	21° <b>5</b> 27'53		max. Earth dist.	3216 Sep 25 00:11	3° <b>ჲ</b> 00'42	10.33539 AU
				morning rise	3216 Oct 12 10:01	5° <b>≙</b> 11'39	
conjunction	3211 Jul 15 12:28	23° <b>5</b> 47'59	-0°23'52	retrograde	3217 Jan 21 17:46	12° <b>≙</b> 52'17	
minimum elong	3211 Jul 15 12:29	23°547'59	0°23'52	opposition	3217 Mar 29 18:17	9° <b>₽</b> 29'19	2°28'51
max. Earth dist.	3211 Jul 15 16:39	23°549'20	10.06892 AU	min. Earth dist.	3217 Mar 29 16:18	9° <b>₽</b> 29'42	8.38566 AU
morning rise	3211 Aug 02 16:20	26°908'22		direct	3217 Jun 06 21:33	6° <b>ഫ</b> 01'32	
S	3211 Sep 04 04:50	$0^{\circ}\Omega$		evening set	3217 Sep 21 02:24	13° <b>≏</b> 57'13	
retrograde	3211 Nov 15 20:46	4° <b>Ω</b> 21'18		Ü	1		
opposition	3212 Jan 21 18:04	0°Ω52'57	-0°09'37	conjunction	3217 Oct 08 14:55	16° <b>♀</b> 07'42	2°05'54
min. Earth dist.	3212 Jan 21 14:58	0°Ω53'35	8.07150 AU	minimum elong	3217 Oct 08 14:53	16° <b>≏</b> 07'41	2°05'54
min. Burtir dist.	3212 Feb 01 13:53	30°Rூ	0.07100110	max. Earth dist.	3217 Oct 08 16:54		10.43580 AU
direct	3212 Mar 28 15:10	27° <b>5</b> 24'32		morning rise	3217 Oct 25 22:58	18° <b>£</b> 16'49	10.15000110
asc. node	3212 Apr 21 01:15	27°954'48		retrograde	3218 Feb 03 16:04	25° <b>£</b> 49'20	
use. Houe	3212 May 22 06:46	0°Ω		opposition	3218 Apr 12 00:32	22° <b>⊆</b> 27'32	2°40'20
evening set	3212 Jul 11 09:37	5° <b>Ω</b> 35'03		min. Earth dist.	3218 Apr 11 23:38	22° <b>-</b> 27'32	8.48929 AU
evening set	3212 Jul 11 07.37	3 <b>8 6</b> 3 3 0 3		direct	3218 Jun 20 15:53	19° <b>⊆</b> 00'34	0.40727 AU
conjunction	3212 Jul 29 13:21	7° <b>Ω</b> 55'11	0°08'32	evening set	3218 Oct 04 14:36	26° <b>£</b> 49'05	
	3212 Jul 29 13:20	7° <b>Ω</b> 55'11	0°08'32	evening set	3218 001 04 14.30	20 = 49 03	
minimum elong	3212 Jul 29 13:20 3212 Jul 29 06:57	7° <b>Ω</b> 53'08	0 08 32	:	2210 0-4 21 22.45	200 0 56154	201200
behind sun begin		$7^{\circ}$ <b>1</b> 3308 $7^{\circ}$ <b>1</b> 57'14		conjunction minimum elong	3218 Oct 21 22:45	28° <b>£</b> 56'54	
behind sun end	3212 Jul 29 19:43		10 07007 AII	C	3218 Oct 21 22:44	28° <b>£</b> 56'54	
max. Earth dist.	3212 Jul 29 16:46		10.07987 AU	max. Earth dist.	3218 Oct 21 23:16		10.54085 AU
morning rise	3212 Aug 16 16:51	10° <b>Ω</b> 15'13			3218 Oct 30 11:07	0°M	
	3212 Sep 26 21:47	15° <b>Ω</b>		morning rise	3218 Nov 08 02:32	1°M03'22	
retrograde	3212 Nov 29 01:49	18° <b>Ω</b> 23'57	0020122	retrograde	3219 Feb 16 07:57	8°M28'10	20.42440
opposition	3213 Feb 03 19:22	14° <b>Ω</b> 56'27	0°30′32	opposition	3219 Apr 25 01:43	5°M07'25	2°43'40
	3213 Feb 03 02:04	15°R <b>Ω</b>		min. Earth dist.	3219 Apr 25 01:12	5°M07'31	8.59473 AU
min. Earth dist.	3213 Feb 03 16:41	14° <b>Ω</b> 57'00	8.09407 AU	direct	3219 Jul 04 03:48	1°M41'25	
direct	3213 Apr 12 01:22	11° <b>Ω</b> 27'37		evening set	3219 Oct 17 16:31	9°M22'12	
	3213 Jun 16 01:15	15° <b>Ω</b>					
evening set	3213 Jul 26 09:04	19° <b>Ω</b> 38'44		conjunction	3219 Nov 03 20:45	11°M27'32	
		_		minimum elong	3219 Nov 03 20:46	11°M27'32	
conjunction	3213 Aug 13 12:01	21° <b>Ω</b> 58′06	0°40'11	max. Earth dist.	3219 Nov 03 20:43		10.64519 AU
minimum elong	3213 Aug 13 11:59	21° <b>Ω</b> 58′05	0°40'11	morning rise	3219 Nov 20 20:47	13°M31'36	
max. Earth dist.	3213 Aug 13 15:01		10.11388 AU		3219 Dec 03 10:00	15°M	
morning rise	3213 Aug 31 13:31	24° <b>Ω</b> 16'58		retrograde	3220 Feb 28 16:56	20°M49'22	
	3213 Oct 22 14:28	0° mp		opposition	3220 May 06 21:50	17°M29'32	2°39'16
retrograde	3213 Dec 13 02:31	2° m/20'08		min. Earth dist.	3220 May 06 21:19	17°M29'38	8.69683 AU
	3214 Feb 04 00:09	$30^\circ$ R $\Omega$			3220 Jun 12 09:05	15°RM₊	
opposition	3214 Feb 17 18:35	28° <b>Ω</b> 53'37	1°08'32	direct	3220 Jul 16 10:00	14°M04'37	
min. Earth dist.	3214 Feb 17 15:45	28° <b>Ω</b> 54'12	8.13943 AU		3220 Aug 19 01:36	15°M	
direct	3214 Apr 26 10:40	25° <b>Ω</b> 24'40		evening set	3220 Oct 29 08:46	21°M37'34	
	3214 Jul 10 23:31	0° <b>m</b> )					
evening set	3214 Aug 10 05:43	3° Mp 34'33		conjunction	3220 Nov 15 09:47	23°M40'44	2°05'34
				minimum elong	3220 Nov 15 09:48	23°M40'44	2°05'35
conjunction	2214 4 20 0626	5° <b>m</b> 52'23	1°09'14	max. Earth dist.	3220 Nov 15 09:46	23°M40'44	10.74400 AU
	3214 Aug 28 06:26		1000112	morning rise	2220 Dag 02 06:41	25°M42'42	
minimum elong	3214 Aug 28 06:26 3214 Aug 28 06:23	5° <b>m</b> 52′22	1°09'13	morning risc	3220 Dec 02 06:41	23 1164242	
minimum elong max. Earth dist.	•		1°09'13 10.16985 AU	morning rise	3220 Dec 02 06:41 3221 Jan 11 06:39	23 11 <b>0</b> 42 42 0° <b>√</b>	
Č	3214 Aug 28 06:23			retrograde			
max. Earth dist.	3214 Aug 28 06:23 3214 Aug 28 09:31	5° m 53'22		_	3221 Jan 11 06:39	0° <b>₹</b>	
max. Earth dist. morning rise	3214 Aug 28 06:23 3214 Aug 28 09:31 3214 Sep 15 04:30	5° m 53'22 8° m 09'22		_	3221 Jan 11 06:39 3221 Mar 11 22:54	0° <b>҂</b> 2° <b>҂</b> 54′24	2°27'51
max. Earth dist. morning rise retrograde	3214 Aug 28 06:23 3214 Aug 28 09:31 3214 Sep 15 04:30 3214 Dec 26 22:24	5° m 53'22 8° m 09'22 16° m 05'43	10.16985 AU	retrograde	3221 Jan 11 06:39 3221 Mar 11 22:54 3221 May 14 03:17	0° ₹ 2° ₹ 54′24 30° R M 29° M 35′20	2°27'51 8.79107 AU

evening set	3234 Mar 29 14:27	24° <b>Y</b> ′02'59		opposition	3240 Jan 01 10:12	10° <b>©</b> 25'51	
				min. Earth dist.	3240 Jan 01 07:54		8.07521 AU
conjunction	3234 Apr 15 15:10	26° <b>Y</b> 09'05 -2		direct	3240 Mar 08 01:38	6° <b>ॐ</b> 58'05	
minimum elong	3234 Apr 15 15:10		2°11'14	evening set	3240 Jun 19 17:41	15° <b>©</b> 04'36	
max. Earth dist.	3234 Apr 15 13:24	26° <b>Y</b> 08′32 1	10.52711 AU				
morning rise	3234 May 02 20:09	28° <b>Ƴ</b> 16'34		conjunction	3240 Jul 07 19:44	17° <b>©</b> 24'26	-0°38'48
	3234 May 17 08:25	$9^{\circ}$ 8		minimum elong	3240 Jul 07 19:46	17° <b>5</b> 24'27	0°38'48
retrograde	3234 Aug 16 21:37	6° <b>8</b> 07'38		max. Earth dist.	3240 Jul 07 23:22	17° <b>©</b> 25'37	10.06288 AU
opposition	3234 Oct 25 14:58	2° <b>8</b> 41'24 -2	2°43'43	morning rise	3240 Jul 25 23:10	19° <b>©</b> 44'46	
min. Earth dist.	3234 Oct 25 15:52	2° <b>8</b> 41'14 8	8.47360 AU	retrograde	3240 Nov 08 09:58	27° <b>©</b> 59'19	
	3234 Dec 04 11:19	30° <b>ŖƳ</b>		opposition	3241 Jan 14 12:09	24° <b>©</b> 30'08	-0°28'40
direct	3235 Jan 01 04:38	29° <b>Ƴ</b> 19'44		min. Earth dist.	3241 Jan 14 08:57	24°930'48	8.05744 AU
	3235 Jan 28 12:05	0°8		direct	3241 Mar 22 07:29	21° <b>©</b> 01'30	
evening set	3235 Apr 11 17:19	6° <b>8</b> 52'35		evening set	3241 Jul 04 16:42	29° <b>©</b> 11'22	
C	•			Č	3241 Jul 11 00:52	$0^{\circ}\Omega$	
conjunction	3235 Apr 28 21:54	9° <b>8</b> 01'14 <i>-</i> 2	2°12'01				
minimum elong	3235 Apr 28 21:55	9° <b>8</b> 01'14 2		conjunction	3241 Jul 22 20:25	1° <b>Ω</b> 31'43	-0°06'57
max. Earth dist.	3235 Apr 28 20:55	9° <b>8</b> 00'55 1		minimum elong	3241 Jul 22 20:26	1°Ω31'44	
morning rise	3235 May 16 06:55	11° <b>8</b> 11'20	10.11020110	behind sun begin	3241 Jul 22 13:38	1°Ω29'33	0 0037
morning 113C	3235 Jun 18 13:16	15°8		behind sun end	3241 Jul 23 03:14	1°Ω33'55	
retrograde	3235 Aug 30 19:03	19° <b>8</b> 10'21		max. Earth dist.	3241 Jul 23 00:43		10.05844 AU
opposition	3235 Aug 30 19:03 3235 Nov 08 00:48	15° <b>8</b> 42'58 -2	2040140	morning rise	3241 Aug 10 00:15	3°Ω52'10	10.03644 AU
		· . · .		•	•	10°Ω28'00	
min. Earth dist.	3235 Nov 08 00:54	15° <b>8</b> 42'57 8	8.30083 AU	asc. node	3241 Oct 11 13:21		
1.	3235 Nov 17 03:02	15°₹ <b>8</b>		retrograde	3241 Nov 22 17:57	12° <b>Ω</b> 03'34	0011126
direct	3236 Jan 14 04:11	12° <b>8</b> 20'05		opposition	3242 Jan 28 13:58	8° <b>Ω</b> 35'00	0°11'36
	3236 Mar 09 18:12	15° <b>8</b>		min. Earth dist.	3242 Jan 28 10:26	8° <b>Ω</b> 35'43	8.06613 AU
evening set	3236 Apr 24 05:34	20° <b>8</b> 00'41		direct	3242 Apr 05 15:43	5° <b>Ω</b> 05'45	
				evening set	3242 Jul 19 16:45	13°Ω17'08	
conjunction	3236 May 11 14:33	22° <b>8</b> 12'01 -2			3242 Aug 02 01:36	15° <b>Ω</b>	
minimum elong	3236 May 11 14:35	22° <b>8</b> 12'02 2				_	
max. Earth dist.	3236 May 11 13:52	22° <b>8</b> 11'48 1	10.31509 AU	conjunction	3242 Aug 06 20:29	15° <b>Ω</b> 37'09	0°25'23
morning rise	3236 May 29 04:02	24° <b>8</b> 24'48		minimum elong	3242 Aug 06 20:28	15° <b>Ω</b> 37'09	0°25'22
	3236 Jul 19 15:20	$\Pi$ $\circ$ 0		max. Earth dist.	3242 Aug 07 00:51		10.08024 AU
retrograde	3236 Sep 12 21:33	2° <b>Ⅱ</b> 30'40		morning rise	3242 Aug 24 23:06	17° <b>Ω</b> 56'50	
	3236 Nov 08 12:27	30° <b>₹</b> 8		retrograde	3242 Dec 06 22:07	26° <b>Ω</b> 03'15	
opposition	3236 Nov 20 15:40	29° <b>8</b> 02'20 -2	2°29'18	opposition	3243 Feb 11 14:23	22° <b>Ω</b> 35'36	0°50'57
min. Earth dist.	3236 Nov 20 15:28	29° <b>8</b> 02'22 8	8.26845 AU	min. Earth dist.	3243 Feb 11 11:05	22° <b>Ω</b> 36′16	8.10066 AU
direct	3237 Jan 26 11:47	25° <b>8</b> 38'09		direct	3243 Apr 20 00:38	19° <b>Ω</b> 06′03	
	3237 Apr 08 22:18	$\Pi^{\circ}$ 0		evening set	3243 Aug 03 15:14	27° <b>Ω</b> 17'04	
evening set	3237 May 08 02:51	3° <b>Ⅱ</b> 26′25					
				conjunction	3243 Aug 21 17:15	29° <b>Ω</b> 35'52	0°55'54
conjunction	3237 May 25 16:35	5° <b>Ⅱ</b> 40'25 -	1°53'01	minimum elong	3243 Aug 21 17:12	29° <b>Ω</b> 35'51	0°55'53
minimum elong	3237 May 25 16:38	5° <b>Ⅱ</b> 40′26	1°53'00	max. Earth dist.	3243 Aug 21 21:05	29° <b>Ω</b> 37'06	10.12680 AU
max. Earth dist.	3237 May 25 16:35	5° <b>Ⅱ</b> 40′25 1	10.22317 AU		3243 Aug 24 20:13	0° <b>™</b>	
morning rise	3237 Jun 12 10:36	7° <b>Ⅱ</b> 55'45		morning rise	3243 Sep 08 17:06	1° m 53'58	
retrograde	3237 Sep 27 03:01	16° <b>Ⅱ</b> 06'55		retrograde	3243 Dec 20 20:46	9° m 54'00	
opposition	3237 Dec 04 10:50	12° <b>Ⅱ</b> 37'54 -2	2°09'14	opposition	3244 Feb 25 12:08	6° m) 27'29	1°26'52
min. Earth dist.	3237 Dec 04 10:14		8.18394 AU	min. Earth dist.	3244 Feb 25 09:19	6° m) 28'03	8.15887 AU
direct	3238 Feb 09 03:10	9° <b>Ⅱ</b> 12'26		direct	3244 May 03 09:08	2° m 58'00	
evening set	3238 May 22 08:48	17° <b>Ⅱ</b> 07'48		evening set	3244 Aug 17 09:16	11° <b>m</b> ) 06'44	
evening sec	3230 May 22 00.10	17 207 10		evening sec	521111ag 17 05.10	11 100 11	
conjunction	3238 Jun 09 03:21	19° <b>Ⅱ</b> 24'16 -:	1°33'29	conjunction	3244 Sep 04 08:14	13° <b>m</b> )23'37	1°22'50
minimum elong	3238 Jun 09 03:24	19° <b>Ⅱ</b> 24'17		minimum elong	3244 Sep 04 08:11		1°22'50
max. Earth dist.	3238 Jun 09 04:24	19° <b>Ⅱ</b> 24'17 1		max. Earth dist.	3244 Sep 04 11:22		10.19536 AU
	3238 Jun 27 01:33	19 <b>П</b> 2437 1 21° <b>П</b> 41'53	10.14/60 AU	morning rise	3244 Sep 04 11.22 3244 Sep 22 04:11	15°My39'31	10.19330 AU
morning rise		21 <b>H</b> 41 33 29° <b>H</b> 56'23		Č	*		
retrograde	3238 Oct 11 12:16		10/11/22	retrograde	3245 Jan 02 12:37	23° Mp 32'11	1057112
opposition	3238 Dec 18 09:21	26°∏26'58 -:		opposition	3245 Mar 10 06:18	20° Mp 06'58	1°57'13
min. Earth dist.	3238 Dec 18 08:06	26° <b>Ⅱ</b> 27'13 8	6.11823 AU	min. Earth dist.	3245 Mar 10 03:31	20° Mp 07'32	8.23723 AU
direct	3239 Feb 22 23:49	23° <b>Ⅱ</b> 00'16		direct	3245 May 17 15:44	16° Mp 37'53	
• .	3239 May 28 16:38	0°9		evening set	3245 Aug 31 20:26	24° <b>m</b> 42'32	
evening set	3239 Jun 05 22:18	1° <b>©</b> 01'51					
				conjunction	3245 Sep 18 15:30	26° m 57'01	1°44'44
conjunction	3239 Jun 23 21:10	3°9520'21 -		minimum elong	3245 Sep 18 15:27	26° <b>m</b> 57'01	1°44'43
minimum elong	3239 Jun 23 21:13	3°\$20'22		max. Earth dist.	3245 Sep 18 18:22		10.28180 AU
max. Earth dist.	3239 Jun 23 23:35	3°521'08 1	10.09331 AU	morning rise	3245 Oct 06 06:53	29° <b>m</b> 10'21	
morning rise	3239 Jul 11 22:40	5° <b>©</b> 39'41			3245 Oct 13 00:27	0∘ <b>⊽</b>	
retrograde	3239 Oct 25 23:19	13° <b>©</b> 55'19		retrograde	3246 Jan 15 21:01	6° <b>£</b> 55'06	

opposition	3246 Mar 23 20:04	3° <b>≏</b> 31'14	2°20'30	opposition	3252 Jun 07 01:59	18° <b>∡</b> 00′29	1°58'31
min. Earth dist.	3246 Mar 23 17:09	3° <b>≙</b> 31'49	8.33100 AU	min. Earth dist.	3252 Jun 07 02:46	18° <b>₹</b> 00'20	8.91756 AU
direct	3246 May 31 18:33	0° <b>£</b> 02'53		direct	3252 Aug 17 02:59	14° <b>₰</b> 38'53	
evening set	3246 Sep 14 23:19	8° <b>≏</b> 01'57		evening set	3252 Nov 28 11:06	21° <b>₹</b> 54'34	
						_	
conjunction	3246 Oct 02 14:05	10° <b>≙</b> 13'47		conjunction	3252 Dec 15 06:22	23° <b>₹</b> '53'46	1°26'57
minimum elong	3246 Oct 02 14:02	10° <b>≙</b> 13'47	2°00'34	minimum elong	3252 Dec 15 06:24	23° <b>₹</b> 53'47	
max. Earth dist.	3246 Oct 02 16:52	10° <b>£</b> 14'40	10.38104 AU	max. Earth dist.	3252 Dec 15 04:37		10.94756 AU
morning rise	3246 Oct 20 00:33	12° <b>£</b> 24'19		morning rise	3252 Dec 31 22:46	25° <b>₹</b> 52'12	
retrograde	3247 Jan 29 00:13	20° <b>£</b> 00'58	2025150		3253 Feb 09 03:45	0°る	
opposition	3247 Apr 06 04:57	16° <b>£</b> 38'30	2°35'50	retrograde	3253 Apr 10 19:10	2°る54'16	
min. Earth dist.	3247 Apr 06 02:05	16° <b>£</b> 39'04	8.43481 AU	-4-	3253 Jun 14 04:35	30°₹ <b>⋌</b> 7	1022122
direct	3247 Jun 14 14:41	13° <b>£</b> 11'06		opposition	3253 Jun 19 09:10	29° ₹36'53	1°33'33
evening set	3247 Sep 28 16:39	21° <b>≏</b> 03'25		min. Earth dist. direct	3253 Jun 19 11:18	29° <b>х</b> 36′29 26° <b>х</b> 16′15	8.97389 AU
aaniunatian	3247 Oct 16 03:02	23° <b>£</b> 12'34	2°09'54	direct	3253 Aug 29 10:23 3253 Nov 08 03:58	20 x・10 13	
conjunction minimum elong	3247 Oct 16 03:02 3247 Oct 16 03:01	23° <b>£</b> 12'34 23° <b>£</b> 12'33	2°09'54	evening set	3253 Nov 08 03:38 3253 Dec 10 03:34	0 3 3° <b>る</b> 26'44	
max. Earth dist.	3247 Oct 16 05:51		2 09 34 10.48763 AU	evening set	3233 Dec 10 03.34	3 62044	
morning rise	3247 Oct 16 03.31 3247 Nov 02 08:46	25° <b>£</b> 20'20	10.46/03 AU	conjunction	3253 Dec 26 21:20	5°₹25'03	1°05'05
morning rise	3247 Nov 02 08:40 3247 Dec 15 01:41	0°M		minimum elong	3253 Dec 26 21:20 3253 Dec 26 21:22	5° <b>る</b> 25'03	1°05'05
retrograde	3248 Feb 10 20:44	2°M49'05		max. Earth dist.	3253 Dec 26 21:22 3253 Dec 26 18:00		10.99408 AU
retrograde	3248 Apr 11 12:22	2 11 <b>0</b> 47 03		morning rise	3254 Jan 12 13:07	7°る22'48	10.77400 AC
opposition	3248 Apr 18 09:00	29° <b>£</b> 27'55	2°42'57	retrograde	3254 Apr 22 14:27	14°る23'33	
min. Earth dist.	3248 Apr 18 06:51	29° <b>£</b> 28′20	8.54317 AU	opposition	3254 Jul 01 14:40	11°る06'12	1°05'05
direct	3248 Jun 27 04:57	26° <b>⊆</b> 01'39	0.54517710	min. Earth dist.	3254 Jul 01 18:06	11°る05'34	9.00987 AU
uncet	3248 Sep 07 06:14	0°M		direct	3254 Sep 10 14:42	7° <b>る</b> 46'21	9.00907 110
evening set	3248 Oct 10 23:50	3°M46'25		evening set	3254 Dec 21 16:24	14°る52'53	
evening set	3240 Oct 10 23.30	3 110-10-23		evening set	3234 Dec 21 10.24	14 03233	
conjunction	3248 Oct 28 06:03	5°M52'59	2°12'38	conjunction	3255 Jan 07 09:06	16° <b>る</b> 50'37	0°40'46
minimum elong	3248 Oct 28 06:03	5°M52'59	2°12'38	minimum elong	3255 Jan 07 09:07	16° <b>る</b> 50'37	0°40'46
max. Earth dist.	3248 Oct 28 08:12		10.59612 AU	max. Earth dist.	3255 Jan 07 04:35		11.01985 AU
morning rise	3248 Nov 14 07:42	7°M58'13		morning rise	3255 Jan 24 00:44	18° <b>る</b> 48'02	
S	3249 Feb 03 05:32	15° <b>™</b>		retrograde	3255 May 04 11:39	25° <b>る</b> 49'02	
retrograde	3249 Feb 22 09:38	15° <b>M</b> ₁9'33		opposition	3255 Jul 13 19:10	22° <b>る</b> 31'23	0°34'14
Č	3249 Mar 13 17:06	15° <b>₹M</b> L		min. Earth dist.	3255 Jul 13 22:44	22° <b>る</b> 30'43	9.02490 AU
opposition	3249 May 01 08:01	11°M59'35	2°42'04	direct	3255 Sep 22 17:33	19° <b>る</b> 12'08	
min. Earth dist.	3249 May 01 07:05	11° <b>M</b> 59'46	8.65066 AU	evening set	3256 Jan 02 03:15	26° <b>る</b> 15'56	
direct	3249 Jul 10 13:50	8°M34'29					
	3249 Oct 13 17:40	15° <b>M</b> ₊		conjunction	3256 Jan 18 19:27	28° <b>る</b> 13'28	0°14'56
evening set	3249 Oct 23 21:21	16°M11'28		minimum elong	3256 Jan 18 19:27	28° <b>る</b> 13'28	0°14'57
				behind sun begin	3256 Jan 18 16:37	28° <b>る</b> 12'38	
conjunction	3249 Nov 09 23:50	18°ML15'40	2°09'04	behind sun end	3256 Jan 18 22:17	28° <b>る</b> 14'18	
minimum elong	3249 Nov 09 23:51	18° <b>M</b> ₊15'41	2°09'05	max. Earth dist.	3256 Jan 18 15:18	28°る12'15	11.02448 AU
max. Earth dist.	3249 Nov 10 00:23	18° <b>M</b> ₊15'50	10.70120 AU		3256 Feb 02 21:37	0° <b>≈</b>	
morning rise	3249 Nov 26 22:10	20°M18'38		morning rise	3256 Feb 04 11:11	0° <b>≈</b> 10'53	
retrograde	3250 Mar 06 17:20	27°M33'21		retrograde	3256 May 15 10:35	7° <b>≈</b> 13'34	
opposition	3250 May 14 02:02	24°M14'23	2°33'47	opposition	3256 Jul 24 23:24	3°≈55′20	0°02'05
min. Earth dist.	3250 May 14 02:03	24°M14'23	8.75206 AU	min. Earth dist.	3256 Jul 25 02:34	3° <b>≈</b> 54'45	9.01886 AU
direct	3250 Jul 23 16:29	20°M50'29		desc. node	3256 Aug 18 04:07	2°≈13'15	
evening set	3250 Nov 05 09:40	28°M19'46		direct	3256 Oct 03 16:10	0°≈36′28	
	3250 Nov 19 08:27	0°⊀		evening set	3257 Jan 12 13:42	7° <b>≈</b> 38'55	
	2250 Nt 22 00 05	00 701155	1050147		2257 1- 20 05 40	0027/22	0011125
conjunction	3250 Nov 22 09:05	0° 🗷 21'56		conjunction	3257 Jan 29 05:40	9° <b>≈</b> 36'33	
minimum elong	3250 Nov 22 09:07	0°×721'57		minimum elong	3257 Jan 29 05:39	9°≈36'33	0°11'34
max. Earth dist.	3250 Nov 22 08:20		10.79784 AU	behind sun begin	3257 Jan 29 00:35	9°≈35'04	
morning rise	3250 Dec 09 04:50	2° <b>х</b> 23′00 9° <b>х</b> 32′08		behind sun end max. Earth dist.	3257 Jan 29 10:43	9°≈38'02	11 00004 ATT
retrograde opposition	3251 Mar 18 19:58 3251 May 26 15:51	9° <b>×</b> '32'08 6° <b>×</b> '13'55	2018/57	max. Earth dist.	3257 Jan 29 01:50 3257 Feb 14 21:48	9°≈35°26 11°≈34'18	11.00804 AU
min. Earth dist.	3251 May 26 15:51 3251 May 26 16:08	6° <b>₹</b> 13'52	8.84251 AU	morning rise	3257 Feb 14 21:48 3257 Mar 18 17:56	11°≈34°18 15°≈	
direct	3251 May 26 16:08 3251 Aug 05 12:34	2° 🗷 51'14	0.07231 AU	retrograde	3257 May 27 11:53	13 ≈ 18°≈40'07	
evening set	3251 Nov 17 13:40	2 <b>x</b> ·31 14 10° <b>x</b> 13'15		opposition	3257 Aug 06 04:31	18 ≈4007 15°≈21'05	-0°30'16
evening set	J2J1110V 1/ 1J.40	10 🔨 13 13		min. Earth dist.	3257 Aug 06 07:40	15°≈20'30	8.99210 AU
conjunction	3251 Dec 04 10:44	12° <b>∡</b> 13'45	1°45'28	mm. Darm dist.	3257 Aug 10 22:33	15 <b>≈</b> 20 30	5.77210 AU
minimum elong	3251 Dec 04 10:44 3251 Dec 04 10:46	12° 🖈 13'45		direct	3257 Aug 10 22:33 3257 Oct 15 14:18	13 n∞ 12°≈02'21	
max. Earth dist.	3251 Dec 04 10:40 3251 Dec 04 09:41		10.88132 AU		3257 Dec 16 06:24	12 <b>≈</b> 02 21 15° <b>≈</b>	
morning rise	3251 Dec 04 05:41 3251 Dec 21 04:29	14° × 13'17		evening set	3258 Jan 24 01:21	19° <b>≈</b> 04'52	
retrograde	3252 Mar 29 20:07	21° <b>×</b> 13'11				-,	

conjunction	3258 Feb 09 17:10	21°≈02'55	-0°37'40	evening set	3264 Apr 05 05:49	1° <b>8</b> 23'57	
minimum elong	3258 Feb 09 17:09	21°≈02'55	0°37'40			- 0	
max. Earth dist.	3258 Feb 09 12:42	21° <b>≈</b> 01'36	10.97125 AU	conjunction	3264 Apr 22 08:32	3° <b>8</b> 31'38	-2°12'32
morning rise	3258 Feb 26 10:11	23° <b>≈</b> 01'21		minimum elong	3264 Apr 22 08:32	3° <b>8</b> 31'38	2°12'31
	3258 May 24 05:24	0° <b>)</b>		max. Earth dist.	3264 Apr 22 07:07	3° <b>8</b> 31'11	10.44971 AU
retrograde	3258 Jun 08 16:50	0° <b>)</b> 11'41		morning rise	3264 May 09 15:52	5° <b>8</b> 40'44	
	3258 Jun 24 05:26	30° <b>R</b> ≈		retrograde	3264 Aug 23 22:58	13° <b>8</b> 36'52	
opposition	3258 Aug 18 11:25	26° <b>≈</b> 51'39	-1°01'39	opposition	3264 Nov 01 10:53	10° <b>8</b> 09'32	-2°43'14
min. Earth dist.	3258 Aug 18 15:09	26° <b>≈</b> 50'58	8.94581 AU	min. Earth dist.	3264 Nov 01 11:25	10° <b>8</b> 09'26	8.39910 AU
direct	3258 Oct 27 12:06	23° <b>≈</b> 32'51		direct	3265 Jan 07 18:52	6° <b>8</b> 46'46	
	3259 Jan 30 08:28	0° <b>)</b> €		evening set	3265 Apr 18 14:02	14° <b>8</b> 24'30	
evening set	3259 Feb 04 15:39	0° <b>)</b> 36′52			3265 Apr 23 08:12	15° <b>8</b>	
agnismation	3259 Feb 21 07:47	2° <b>)</b> 35'40	1902/20	agnismation	2265 May 05, 21:02	16° <b>8</b> 34'47	2900121
conjunction minimum elong	3259 Feb 21 07:45	2° <del>X</del> 35'39		conjunction minimum elong	3265 May 05 21:03 3265 May 05 21:04	16° <b>8</b> 34'47	
max. Earth dist.	3259 Feb 21 07:43 3259 Feb 21 03:08		1 02 29 10.91569 AU	max. Earth dist.	3265 May 05 21:27		10.34752 AU
morning rise	3259 Mar 10 02:02	4° <b>H</b> 35'06	10.91309 AU	morning rise	3265 May 23 08:33	18° <b>8</b> 46'31	10.54752 AU
retrograde	3259 Jun 21 00:36	11° <b>X</b> 51'15		retrograde	3265 Sep 06 22:50	26° <b>8</b> 50'03	
opposition	3259 Aug 30 20:52	8°\(\frac{11}{30'03}\)	-1°30'55	opposition	3265 Nov 14 24:00	23° <b>8</b> 21'49	-2°35'30
min. Earth dist.	3259 Aug 30 20:32 3259 Aug 31 00:25	8° <b>∺</b> 29'23		min. Earth dist.	3265 Nov 14 24:00 3265 Nov 14 23:07	23° <b>8</b> 21'59	
direct	3259 Aug 31 00:23 3259 Nov 08 11:28	5° <b>H</b> 10'59	6.661// AU	direct	3266 Jan 21 00:11	19° <b>8</b> 58'02	8.30008 AC
evening set	3260 Feb 16 09:55	12° <b>H</b> 17'54		evening set	3266 May 02 07:32	27° <b>8</b> 43'24	
evening set	3200100 10 09.33	12 /(1/34		evening set	3200 May 02 07.32	21 043 24	
conjunction	3260 Mar 04 03:00	14° <b>) (</b> 17′48	-1°25'00	conjunction	3266 May 19 19:18	29° <b>8</b> 56'22	-1°59'34
minimum elong	3260 Mar 04 02:58	14° <b>) (</b> 17′48	1°25'00	minimum elong	3266 May 19 19:20	29° <b>8</b> 56'23	1°59'34
max. Earth dist.	3260 Mar 03 23:19	14° <b>) 1</b> 6′42	10.84330 AU	max. Earth dist.	3266 May 19 21:17	29° <b>8</b> 57'00	10.25439 AU
morning rise	3260 Mar 20 22:45	16° <b>)</b> 18′33			3266 May 20 06:41	$\Pi$ °0	
retrograde	3260 Jul 02 16:08	23° <b>)</b> 41′41		morning rise	3266 Jun 06 11:13	2° <b>Ⅱ</b> 10'42	
opposition	3260 Sep 11 09:37	20° <b>) 1</b> 9′12	-1°56'51	retrograde	3266 Sep 21 04:26	10° <b>Ⅱ</b> 20'16	
min. Earth dist.	3260 Sep 11 12:15	20° <b>)</b> 18′43	8.80215 AU	opposition	3266 Nov 28 17:46	6° <b>∏</b> 51′25	-2°19'05
direct	3260 Nov 19 14:42	16° <b>⊁</b> 59'42		min. Earth dist.	3266 Nov 28 15:38	6° <b>∏</b> 51'51	8.21393 AU
evening set	3261 Feb 27 09:47	24° <b>∺</b> 10′50		direct	3267 Feb 03 11:30	3° <b>Ⅱ</b> 26'35	
				evening set	3267 May 16 10:19	11° <b>Ⅱ</b> 19'16	
conjunction	3261 Mar 16 04:17	26° <b>∺</b> 12'11					
minimum elong	3261 Mar 16 04:15	26° <b>∺</b> 12'11		conjunction	3267 Jun 03 02:53	13° <b>∏</b> 34'47	
max. Earth dist.	3261 Mar 16 01:39		10.75664 AU	minimum elong	3267 Jun 03 02:57	13° <b>∏</b> 34'48	
morning rise	3261 Apr 02 01:56	28° <b>)</b> 14'34		max. Earth dist.	3267 Jun 03 05:51		10.17571 AU
_	3261 Apr 17 06:09	0° <b>Υ</b>		morning rise	3267 Jun 20 23:11	15° <b>Ⅲ</b> 51'31	
retrograde	3261 Jul 15 14:13	5° <b>Y</b> 45'32		retrograde	3267 Oct 05 14:54	24° <b>∏</b> 05'14	
opposition	3261 Sep 24 02:26	2° <b>Υ</b> 21'46		opposition	3267 Dec 12 15:20	20° <b>Ⅲ</b> 36′05	
min. Earth dist.	3261 Sep 24 04:03	2° <b>Y</b> 21'27	8.70993 AU	min. Earth dist.	3267 Dec 12 12:31	20° <b>Ⅲ</b> 36'39	8.14401 AU
	3261 Oct 28 12:05	30° <b>₹</b>		direct	3268 Feb 17 04:22	17° <b>Ⅲ</b> 10′11	
direct	3261 Dec 01 19:06	29° <b>)</b> €01'40		evening set	3268 May 29 21:21	25° <b>∏</b> 09'28	
	3262 Jan 04 09:20	0°Υ					
evening set	3262 Mar 11 16:24	6° <b>Y</b> 18′12		conjunction	3268 Jun 16 18:20	27° <b>Ⅱ</b> 27'10	
	22/23/	000001101	1050100	minimum elong	3268 Jun 16 18:24	27° <b>Ⅲ</b> 27'12	
conjunction	3262 Mar 28 12:51	8° <b>Υ</b> 21'21		max. Earth dist.	3268 Jun 16 21:45		10.11622 AU
minimum elong	3262 Mar 28 12:49	8° <b>Υ</b> 21'20	1°59'09 10.65927 AU	morning rise	3268 Jul 04 18:24	29° <b>∏</b> 45'52	
max. Earth dist.	3262 Mar 28 10:19	8° γ 20'34 10° γ 25'42	10.65927 AU		3268 Jul 06 15:12	0.ee	
morning rise	3262 Apr 14 13:07	$10^{\circ}$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		retrograde	3268 Oct 19 02:37	8°501'33	1922144
retrograde	3262 Jul 28 18:19 3262 Oct 07 00:10	$18^{\circ}$ <b>Y</b> 05 04 $14^{\circ}$ <b>Y</b> 40'00	2022140	opposition min. Earth dist.	3268 Dec 25 15:56 3268 Dec 25 12:56	4°932'25	
opposition min. Earth dist.		14° <b>Υ</b> 40'00 14° <b>Υ</b> 39'44		direct		1°905'33	8.09525 AU
direct	3262 Oct 07 01:29 3262 Dec 14 04:42	14 <b>γ</b> 39 44 11° <b>γ</b> 19'08	6.00693 AU	evening set	3269 Mar 02 04:41 3269 Jun 13 14:47	9°910'13	
evening set	3262 Dec 14 04:42 3263 Mar 24 06:44	11 <b>γ</b> 1908 18° <b>γ</b> 42'05		evening set	3209 Juli 13 14.47	9 301013	
Croming set	5205 Mai 27 00.44	10 1 72 03		conjunction	3269 Jul 01 15:22	11° <b>©</b> 29'31	-0°52'03
conjunction	3263 Apr 10 05:53	20° <b>Ƴ</b> 47'21	-2°08'52	minimum elong	3269 Jul 01 15:25	11° <b>©</b> 29'32	
minimum elong	3263 Apr 10 05:52	20° <b>Ƴ</b> 47'20	2°08'52	max. Earth dist.	3269 Jul 01 19:02	11° <b>©</b> 30'42	10.07953 AU
max. Earth dist.	3263 Apr 10 03:34		10.55539 AU	morning rise	3269 Jul 19 18:08	13°549'29	
morning rise	3263 Apr 27 09:28	22° <b>Y</b> 53'58		retrograde	3269 Nov 02 13:31	22°504'53	
-	3263 Jul 13 07:40	$8^{\circ}$ 0		opposition	3270 Jan 08 18:08	18° <b>©</b> 36'03	-0°45'47
retrograde	3263 Aug 11 05:26	0° <b>8</b> 41'53		min. Earth dist.	3270 Jan 08 15:07	18° <b>©</b> 36'40	8.07058 AU
	3263 Sep 09 07:40	30° <b>R</b> Υ		direct	3270 Mar 16 10:19	15° <b>©</b> 08'19	
opposition	3263 Oct 20 03:01	27° <b>Ƴ</b> 15'36	-2°42'27	evening set	3270 Jun 28 12:55	23° <b>©</b> 16'51	
min. Earth dist.	3263 Oct 20 04:08	27° <b>Y</b> 15'23	8.50367 AU				
direct	3263 Dec 26 20:38	23° <b>Y</b> 53'50		conjunction	3270 Jul 16 15:53	25° <b>©</b> 36'59	-0°20'58
	3264 Mar 24 14:21	$9^{\circ}$ 8		minimum elong	3270 Jul 16 15:54	25° <b>©</b> 37'00	0°20'58

E d Ed	2270 1 1 16 10 45	250620114	10.06750 ATT	1	2276 1 22 20 02	1.40 0 4011.5	
max. Earth dist.	3270 Jul 16 19:45		10.06759 AU	retrograde	3276 Jan 23 20:02	14° <b>£</b> 40'15	2020110
morning rise	3270 Aug 03 19:51	27°957'25		opposition	3276 Mar 30 20:36	11° <b>Ω</b> 17'23	2°30'10
	3270 Aug 20 08:41	0° <b>Ω</b>		min. Earth dist.	3276 Mar 30 19:16	11° <b>Ω</b> 17'39	8.38730 AU
retrograde	3270 Nov 16 21:55 3271 Jan 22 20:22	6°Ω10'18 2°Ω42'01	0005150	direct	3276 Jun 07 24:00	7° <b>Ω</b> 49'39	
opposition min. Earth dist.	3271 Jan 22 20.22 3271 Jan 22 17:15	2° <b>Ω</b> 42'40	8.07092 AU	evening set	3276 Sep 22 05:21	15° <b>≏</b> 45'22	
min. Earth dist.		2° <b>8′</b> 42′40 30° <b>₹</b> 5	8.07092 AU	amiumatian	2276 Oct. 00, 17:21	170 0 55146	2°06'40
aga mada	3271 Mar 01 13:01 3271 Mar 19 20:39	30 k≌ 29°©20'14		conjunction	3276 Oct 09 17:31 3276 Oct 09 17:29	17° <b>£</b> 55'46 17° <b>£</b> 55'45	
asc. node direct	3271 Mar 30 18:54	29 \$20 14 29°\$13'35		minimum elong max. Earth dist.	3276 Oct 09 17.29 3276 Oct 09 18:35		10.43719 AU
direct							10.43/19 AU
avanina aat	3271 Apr 28 20:38 3271 Jul 13 13:06	0° <b>Ω</b> 7° <b>Ω</b> 24'17		morning rise	3276 Oct 27 01:24 3277 Feb 04 18:08	20° <b>£</b> 04'48 27° <b>£</b> 37'18	
evening set	32/1 Jul 13 13.00	/ 06241/		retrograde			2940152
	2271 I1 21 16.52	09 0 4 4 12 6	0911126	opposition	3277 Apr 13 03:03	24° <b>£</b> 15'34	2°40'52
conjunction	3271 Jul 31 16:53	9° <b>Ω</b> 44'26	0°11'26	min. Earth dist.	3277 Apr 13 02:03	24° <b>£</b> 15'46	8.49054 AU
minimum elong	3271 Jul 31 16:53	9° <b>Ω</b> 44'26	0°11'26	direct	3277 Jun 21 18:46	20° <b>Ω</b> 48'40	
behind sun begin	3271 Jul 31 11:39	9° <b>Ω</b> 42'45		evening set	3277 Oct 05 17:15	28° <b>≏</b> 37'10	
behind sun end	3271 Jul 31 22:06	9° <b>Ω</b> 46'06	10.00015 ATT		3277 Oct 16 23:55	0°M	
max. Earth dist.	3271 Jul 31 20:40		10.08015 AU			0.0100	
morning rise	3271 Aug 18 20:18	12° <b>Ω</b> 04'26		conjunction	3277 Oct 23 01:13	0°M44'56	
_	3271 Sep 11 23:46	15° <b>Ω</b>		minimum elong	3277 Oct 23 01:12	0° <b>™</b> 44'56	
retrograde	3271 Dec 01 03:34	20°Ω13'00		max. Earth dist.	3277 Oct 23 01:39		10.54189 AU
opposition	3272 Feb 05 21:36	16° <b>Ω</b> 45'31		morning rise	3277 Nov 09 04:49	2°M51'21	
min. Earth dist.	3272 Feb 05 18:26	16° <b>Ω</b> 46'10	8.09512 AU	retrograde	3278 Feb 17 09:30	10°M16'10	
	3272 Feb 28 08:30	15° <b>ŖΩ</b>		opposition	3278 Apr 26 04:19	6°M55'28	2°43'25
direct	3272 Apr 13 03:42	13° <b>Ω</b> 16'41		min. Earth dist.	3278 Apr 26 03:11	6° <b>™</b> 55'41	8.59556 AU
	3272 May 27 09:32	15° <b>Ω</b>		direct	3278 Jul 05 07:34	3° <b>™</b> 29'33	
evening set	3272 Jul 27 12:36	21° <b>Ω</b> 27'50		evening set	3278 Oct 18 19:06	11°ML10'17	
		0					
conjunction	3272 Aug 14 15:30	23° <b>Ω</b> 47'09	0°42'56	conjunction	3278 Nov 04 23:17	13°M15'36	
minimum elong	3272 Aug 14 15:28	23° <b>Ω</b> 47'08	0°42'55	minimum elong	3278 Nov 04 23:18	13°M15'36	
max. Earth dist.	3272 Aug 14 19:09		10.11547 AU	max. Earth dist.	3278 Nov 04 23:55		10.64585 AU
morning rise	3272 Sep 01 16:42	26° <b>Ω</b> 05'55			3278 Nov 19 05:48	15°M	
	3272 Oct 04 20:05	O° Mp		morning rise	3278 Nov 21 23:04	15° <b>™</b> 19'37	
retrograde	3272 Dec 14 05:36	4°Mp08'51		retrograde	3279 Mar 01 20:41	22°M37'26	
opposition	3273 Feb 18 20:44	0° Mp 42′23	1°11'46	opposition	3279 May 09 00:35	19° <b>™</b> 17'38	2°38'15
min. Earth dist.	3273 Feb 18 17:29	0° Mp 43′03	8.14138 AU	min. Earth dist.	3279 May 08 23:53	19° <b>™</b> 17'46	8.69723 AU
	3273 Feb 27 13:29	30°₽ <b>Ω</b>		direct	3279 Jul 18 12:41	15° <b>™</b> 52'48	
direct	3273 Apr 27 12:30	27° <b>Ω</b> 13′26		evening set	3279 Oct 31 11:19	23°M25'40	
	3273 Jun 23 21:45	O° Mp					
evening set	3273 Aug 11 09:04	5° Mp 23′18		conjunction	3279 Nov 17 12:14	25°M28'50	
				minimum elong	3279 Nov 17 12:15	25°M28'50	2°04'28
conjunction	3273 Aug 29 09:36	7° <b>™</b> 41'04	1°11'38	max. Earth dist.	3279 Nov 17 12:37	25°M28'57	10.74427 AU
minimum elong	3273 Aug 29 09:33	7° <b>™</b> 41'03	1°11'37	morning rise	3279 Dec 04 08:58	27°M30'47	
max. Earth dist.	3273 Aug 29 13:14	7° Mp42'13	10.17194 AU		3279 Dec 26 05:49	0° <b>∡</b> ¹	
morning rise	3273 Sep 16 07:17	9° <b>™</b> 57'56		retrograde	3280 Mar 13 01:46	4° <b>∡</b> ¹42'30	
retrograde	3273 Dec 28 01:28	17° <b>m</b> 54'05		opposition	3280 May 20 16:20	1° <b>∡</b> ¹23'29	2°26'08
opposition	3274 Mar 04 16:46	14° Mp 28′46	1°44'46	min. Earth dist.	3280 May 20 16:34	1° <b>∡</b> ¹23′26	8.79115 AU
min. Earth dist.	3274 Mar 04 13:53	14° <b>m</b> 29'21	8.20787 AU		3280 Jun 08 13:06	30°RM₊	
direct	3274 May 11 19:45	10° <b>m</b> 59'59		direct	3280 Jul 30 10:05	27° <b>M</b> 59'44	
evening set	3274 Aug 26 00:03	19° <b>m</b> 06'45			3280 Sep 18 23:26	0° <b>∡</b> ¹	
				evening set	3280 Nov 11 18:46	5° <b>₹</b> 25'06	
conjunction	3274 Sep 12 21:03	21°Mp22'21	1°35'53				
minimum elong	3274 Sep 12 21:00	21°M 22'20	1°35'52	conjunction	3280 Nov 28 16:55	7° <b>∡</b> ¹26'24	1°52'12
max. Earth dist.	3274 Sep 13 00:08	21°M 23'20	10.24713 AU	minimum elong	3280 Nov 28 16:57	7° <b>∡</b> ¹26'25	1°52'12
morning rise	3274 Sep 30 14:20	23° Mp 36'50		max. Earth dist.	3280 Nov 28 16:12	7° <b>∡</b> ¹26'11	10.83295 AU
•	3274 Dec 01 17:58	0∘ <b>⊽</b>		morning rise	3280 Dec 15 11:32	9° <b>∡</b> ¹26'42	
retrograde	3275 Jan 10 14:14	1° <b>≏</b> 25'23		retrograde	3281 Mar 25 01:47	16° <b>₹</b> 33'29	
Z .	3275 Feb 20 02:28	30° <b>₽.™</b>		opposition	3281 Jun 02 03:56	13° <b>∡</b> 15′03	2°07'59
opposition	3275 Mar 18 09:00	28° <b>m</b> 01'17	2°11'17	min. Earth dist.	3281 Jun 02 05:10	13° <b>√</b> 14'49	8.87339 AU
min. Earth dist.	3275 Mar 18 06:57	28° mp 01'42		direct	3281 Aug 12 03:19	9° <b>×</b> 752'24	
direct	3275 May 26 00:16	24° m/32'54		evening set	3281 Nov 23 18:56	17° <b>√</b> 10'57	
	3275 Aug 18 13:42	0∘ <b>ರ</b>					
evening set	3275 Sep 09 07:19	° <b>⊆</b> 34'51		conjunction	3281 Dec 10 14:52	19° <b>∡</b> 10'46	1°35'23
				minimum elong	3281 Dec 10 14:55	19° <b>∡</b> 10'47	1°35'23
conjunction	3275 Sep 26 23:59	4° <b>£</b> 47'55	1°54'28	max. Earth dist.	3281 Dec 10 14:55 3281 Dec 10 12:56	19° <b>х</b> 10'11	
minimum elong	3275 Sep 26 23:57	4° <b>⊆</b> 47'54		morning rise	3281 Dec 10 12:30 3281 Dec 27 08:01	21°×709'45	10.70027 AU
max. Earth dist.	3275 Sep 20 23.37 3275 Sep 27 02:05		1 3427 10.33715 AU	retrograde	3281 Dec 27 08:01 3282 Apr 05 24:00	21 × 109 45 28° × 12'56	
morning rise	3275 Oct 14 12:31	4 <b>≗</b> 48 33 6° <b>£</b> 59'43	10.33/13 AU	opposition	3282 Apr 03 24.00 3282 Jun 14 12:03		1°44'49
morning rise	J21J OCT 14 12.31	0 == 39 43		оррознин	3202 Juli 14 12.03	∠ <del>+ x</del> ·3434	1 77 47

min Earth diat	3282 Jun 14 13:20	249.754!40	9.04062 ATT	ratra arada	3288 Jun 14 22:44	6° <b>¥</b> 56'03	
min. Earth dist. direct	3282 Juli 14 13.20 3282 Aug 24 14:36	24° ₹ 54'40 21° ₹ 33'20	8.94062 AU	retrograde	3288 Aug 24 18:19	3° <b>₩</b> 35'56	1010112
evening set	3282 Aug 24 14.36 3282 Dec 05 13:04	21 <b>x</b> ·33 20 28° <b>x</b> <sup>1</sup> 45'59		opposition min. Earth dist.	3288 Aug 24 19:58		8.93840 AU
evening set	3282 Dec 05 13:04 3282 Dec 16 01:00	28 <b>メ</b> ・43 39 0°る		direct	3288 Nov 02 13:51	0° <b>₩</b> 17'37	6.93640 AU
	3282 Dec 10 01.00	0.5				0 <b>★</b> 1737 7° <b>¥</b> 21'59	
	3282 Dec 22 07:29	0° <b>る</b> 44'41	1°14'52	evening set	3289 Feb 10 14:06	/ π2139	
conjunction		0 34441 0° <b>3</b> 44'42		agniumation	2290 Eab 27 06:22	00₩21101	1015117
minimum elong	3282 Dec 22 07:31		1°14'51 10.96734 AU	conjunction	3289 Feb 27 06:33	9° <b>∺</b> 21'01 9° <b>∺</b> 21'00	
max. Earth dist.	3282 Dec 22 05:39		10.96/34 AU	minimum elong	3289 Feb 27 06:31		
morning rise	3283 Jan 07 23:37	2°る42'44		max. Earth dist.	3289 Feb 27 03:48		10.90613 AU
retrograde	3283 Apr 17 20:34	9° <b>る</b> 43'46	1015144	morning rise	3289 Mar 16 01:20	11° <b>)</b> 20'46	
opposition	3283 Jun 26 17:53	6°₹25'56		retrograde	3289 Jun 27 11:04	18° <b>)</b> ₹39'20	
min. Earth dist.	3283 Jun 26 18:54	6°₹25'45	8.99034 AU	opposition	3289 Sep 06 04:44	15° <b>)</b> 18′11	
direct	3283 Sep 05 20:29	3° <b>る</b> 05'21		min. Earth dist.	3289 Sep 06 06:49		8.87046 AU
evening set	3283 Dec 17 02:43	10°る13'13		direct	3289 Nov 14 13:45	11° <b>米</b> 59'38	
		🗕		evening set	3290 Feb 22 10:31	19° <b>)</b> 07′26	
conjunction	3284 Jan 02 20:02	12° <b>ろ</b> 11'09	0°51'31				
minimum elong	3284 Jan 02 20:04	12° <b>る</b> 11'10	0°51'31	conjunction	3290 Mar 11 03:57	21° <b>∺</b> 07'41	
max. Earth dist.	3284 Jan 02 18:30		11.00780 AU	minimum elong	3290 Mar 11 03:54	21° <b>)</b> 07′40	
morning rise	3284 Jan 19 11:37	14° <b>る</b> 08'38		max. Earth dist.	3290 Mar 11 00:43		10.82997 AU
retrograde	3284 Apr 28 18:00	21° <b>る</b> 08'59		morning rise	3290 Mar 28 00:35	23° <b>₭</b> 08'53	
opposition	3284 Jul 07 22:10	17° <b>る</b> 51'09	0°47'49		3290 Jun 13 12:32	$0^{\circ}$ $\Upsilon$	
min. Earth dist.	3284 Jul 07 23:36	17°る50'53	9.02069 AU	retrograde	3290 Jul 10 03:31	0° <b>Ƴ</b> 34'42	
direct	3284 Sep 16 22:23	14° <b>る</b> 31'25			3290 Aug 06 01:10	30° <b>₹</b> ₩	
evening set	3284 Dec 27 13:51	21° <b>る</b> 35'48		opposition	3290 Sep 18 18:54	27° <b>₩</b> 12'21	-2°09'03
				min. Earth dist.	3290 Sep 18 21:20	27° <b>)</b> 11'54	8.78716 AU
conjunction	3285 Jan 13 06:16	23° <b>る</b> 33'18	0°26'16	direct	3290 Nov 26 16:26	23° <b>)</b> 53′20	
minimum elong	3285 Jan 13 06:16	23° <b>る</b> 33'18	0°26'16		3291 Feb 25 04:26	$0$ ° $\Upsilon$	
max. Earth dist.	3285 Jan 13 03:45	23° <b>る</b> 32'33	11.02819 AU	evening set	3291 Mar 06 12:59	1° <b>Y</b> 05'50	
morning rise	3285 Jan 29 21:51	25° <b>පි</b> 30'35		-			
	3285 Mar 14 16:28	0° <b>≈</b>		conjunction	3291 Mar 23 08:11	3° <b>Ƴ</b> 07'39	-1°52'54
retrograde	3285 May 10 14:32	2° <b>≈</b> 31'42		minimum elong	3291 Mar 23 08:09	3° <b>Ƴ</b> 07'39	1°52'54
C	3285 Jul 09 12:18	30°R₹		max. Earth dist.	3291 Mar 23 05:28	3° <b>Y</b> 06'50	10.73968 AU
opposition	3285 Jul 20 01:43	29° <b>る</b> 13'39	0°16'09	morning rise	3291 Apr 09 07:04	5° <b>Ƴ</b> 10'37	
min. Earth dist.	3285 Jul 20 04:10	29°₹13'12	9.03064 AU	retrograde	3291 Jul 23 02:32	12° <b>Y</b> 44'29	
direct	3285 Sep 28 20:26	25°₹54'35	y	opposition	3291 Oct 01 13:14	9° <b>Υ</b> 20'50	-2°27'16
unect	3285 Dec 11 22:24	0°≈		min. Earth dist.	3291 Oct 01 15:18	9° <b>Υ</b> 20'26	8.69110 AU
evening set	3286 Jan 07 23:50	2°≈56'52		direct	3291 Dec 09 00:28	6° <b>Υ</b> 01'07	0.07110710
evening set	3200 Jun 07 23.30	2 70.3032		evening set	3292 Mar 17 22:37	13°Υ19'28	
conjunction	3286 Jan 24 15:39	4°≈54'15	0°00'01	evening set	32)2 Wai 1/ 22.37	15   1720	
minimum elong	3286 Jan 24 15:39	4°≈54'15		conjunction	3292 Apr 03 20:22	15° <b>Y</b> 23'17	-2°05'01
behind sun begin	3286 Jan 24 10:49	4°≈52'51	0 00 01	minimum elong	3292 Apr 03 20:20	15° <b>Υ</b> 23'17	
behind sun end	3286 Jan 24 20:30	4°≈55'38		max. Earth dist.	3292 Apr 03 20:20 3292 Apr 03 18:17		10.63819 AU
desc. node	3286 Jan 24 16:27	4°≈54'25		morning rise	3292 Apr 03 18:17 3292 Apr 20 22:02	13 <b>γ</b> 22 39	10.03819 AU
max. Earth dist.	3286 Jan 24 10:27		11.02786 AU	retrograde	3292 Apr 20 22:02 3292 Aug 04 10:36	$25^{\circ}$ <b>Y</b> 10'42	
morning rise	3286 Feb 10 07:39	4 ≈53 19 6°≈51'40	11.02780 AU	opposition	3292 Aug 04 10:30 3292 Oct 13 12:27	23 \ \ 1042 \ 21°\cdot 45'46	2020100
-				min. Earth dist.	3292 Oct 13 12:27 3292 Oct 13 13:49		8.58580 AU
retrograde	3286 May 22 13:02	13°≈55'07 10°≈36'36	0016!10		3292 Oct 13 13:49 3292 Dec 20 12:28	18° <b>Υ</b> 25'11	6.36360 AU
opposition	3286 Aug 01 05:46 3286 Aug 01 08:21			direct		25° <b>Υ</b> 50'23	
min. Earth dist. direct	· ·	10°≈36'07	9.01987 AU	evening set	3293 Mar 30 16:32	23 1 30 23	
	3286 Oct 10 19:23	7°≈17'59			2202 A 16 17-22	2700056120	2011120
evening set	3287 Jan 19 10:01	14°≈19'33		conjunction	3293 Apr 16 17:22	27° <b>Y</b> 56'29 27° <b>Y</b> 56'28	
	3287 Jan 25 04:42	15° <b>≈</b>		minimum elong	3293 Apr 16 17:22		
	2207 F. L. 05, 01, 45	1.60 - 1.7100	0026110	max. Earth dist.	3293 Apr 16 15:31		10.53009 AU
conjunction	3287 Feb 05 01:45	16°≈17'09		morning rise	3293 May 03 22:30	0° <b>8</b> 03'57	
minimum elong	3287 Feb 05 01:44	16°≈17'09			3293 May 03 09:30	0°8	
max. Earth dist.	3287 Feb 04 22:58		11.00681 AU	retrograde	3293 Aug 18 01:08	7° <b>8</b> 54'48	
morning rise	3287 Feb 21 18:17	18°≈15'01		opposition	3293 Oct 26 16:58	4° <b>8</b> 28'37	
retrograde	3287 Jun 03 16:10	25°≈22'15	00.40/	min. Earth dist.	3293 Oct 26 17:48		8.47668 AU
opposition	3287 Aug 13 11:03	22°≈03'02		direct	3294 Jan 02 05:06	1° <b>8</b> 06'59	
min. Earth dist.	3287 Aug 13 12:55	22°≈02'41	8.98877 AU	evening set	3294 Apr 12 19:24	8° <b>8</b> 39'41	
direct	3287 Oct 22 16:51	18° <b>≈</b> 44'41					
evening set	3288 Jan 30 22:19	25° <b>≈</b> 46'56		conjunction	3294 Apr 30 00:04	10° <b>8</b> 48'19	
				minimum elong	3294 Apr 30 00:05	10° <b>8</b> 48'19	
conjunction	3288 Feb 16 14:17	27° <b>≈</b> 45′05		max. Earth dist.	3294 Apr 29 22:10		10.42139 AU
minimum elong	3288 Feb 16 14:16	27° <b>≈</b> 45′05	0°51'44	morning rise	3294 May 17 09:21	12° <b>8</b> 58'25	
max. Earth dist.	3288 Feb 16 12:08	27° <b>≈</b> 44'27	10.96575 AU		3294 Jun 03 08:35	15° <b>8</b>	
morning rise	3288 Mar 04 07:41	29° <b>≈</b> 43'44		retrograde	3294 Aug 31 20:49	20° <b>8</b> 57'11	
	3288 Mar 06 15:45	0° <b>∀</b>		opposition	3294 Nov 09 02:44	17° <b>8</b> 29'52	-2°39'55

min. Earth dist.	3294 Nov 09 03:28	17° <b>8</b> 29'43	8.36990 AU	max. Earth dist.	3300 Jul 25 02:03	3°Ω18'20	10.06015 AU
	3294 Dec 14 13:41	15°R₩		morning rise	3300 Aug 12 02:30	5° <b>Ω</b> 37'41	
direct	3295 Jan 15 06:17	14° <b>8</b> 07'00		asc. node	3300 Sep 10 14:21	9° <b>ん</b> 09'35	
	3295 Feb 15 12:42	15° <b>8</b>		retrograde	3300 Nov 24 19:47	13° <b>Ω</b> 48'49	
evening set	3295 Apr 26 07:32	21° <b>8</b> 47'28		opposition	3301 Jan 30 15:02	10° <b>Ω</b> 20′20	0°15'06
				min. Earth dist.	3301 Jan 30 12:21	10° <b>Ω</b> 20'54	8.06771 AU
conjunction	3295 May 13 16:42	23° <b>8</b> 58'49	-2°04'57	direct	3301 Apr 07 16:21	6° <b>Ω</b> 51′04	
minimum elong	3295 May 13 16:45	23° <b>8</b> 58'50	2°04'57	evening set	3301 Jul 21 18:57	15° <b>Ω</b> 02'31	
max. Earth dist.	3295 May 13 15:23	_	10.31814 AU		3301 Jul 21 11:00	15° <b>Ω</b>	
morning rise	3295 May 31 06:30	26° <b>8</b> 11'36					
	3295 Jul 03 02:44	$\Pi^{\circ}0$		conjunction	3301 Aug 08 22:28	17° <b>Ω</b> 22'29	0°28'06
retrograde	3295 Sep 14 22:15	4° <b>Ⅱ</b> 17'12		minimum elong	3301 Aug 08 22:27	17° <b>Ω</b> 22'28	0°28'06
opposition	3295 Nov 22 17:23	0° <b>Ⅱ</b> 48'56		max. Earth dist.	3301 Aug 09 01:42	17° <b>Ω</b> 23'31	10.08170 AU
min. Earth dist.	3295 Nov 22 17:51		8.27136 AU	morning rise	3301 Aug 27 01:02	19° <b>Ω</b> 42'06	
	3295 Dec 02 23:28	30° <b>₹8</b>		retrograde	3301 Dec 08 23:40	27° <b>Ω</b> 48'19	
direct	3296 Jan 28 14:25	27° <b>8</b> 24'46		opposition	3302 Feb 13 15:24	24° <b>Ω</b> 20'43	0°54'13
	3296 Mar 23 01:01	0°Ⅱ 5°Ⅲ1315.4		min. Earth dist.	3302 Feb 13 12:52	24° <b>Ω</b> 21'15	8.10204 AU
evening set	3296 May 09 04:54	5° <b>Ⅱ</b> 12'54		direct	3302 Apr 22 02:33	20° <b>Ω</b> 51'09	
	2206 Mars 26, 19,57	70T12(15(	1051104	evening set	3302 Aug 05 17:18	29° <b>Ω</b> 02'14	
conjunction	3296 May 26 18:57	7° <b>Ⅱ</b> 26'56 7° <b>Ⅱ</b> 26'57			3302 Aug 13 07:11	0° mp	
minimum elong max. Earth dist.	3296 May 26 19:00 3296 May 26 18:53		1 31 23 10.22599 AU	agnismation	2202 Aug 22 10:07	10 70150	0°58'22
morning rise	3296 May 26 18.33 3296 Jun 13 13:12	7 <b>П</b> 20 33	10.22399 AU	conjunction minimum elong	3302 Aug 23 19:07 3302 Aug 23 19:04	1° Mp 20'58 1° Mp 20'57	0°58'22
retrograde	3296 Sep 28 04:38	17° <b>I</b> I53'09		max. Earth dist.	3302 Aug 23 19:04 3302 Aug 23 22:01	-•	10.12803 AU
opposition	3296 Sep 28 04.38 3296 Dec 05 12:13	17 <b>Ⅱ</b> 33 09 14° <b>Ⅱ</b> 24'12	-2°06'53	morning rise	3302 Aug 23 22:01 3302 Sep 10 18:52	3°M)39'01	10.12803 AU
min. Earth dist.	3296 Dec 05 11:48		8.18658 AU	retrograde	3302 Sep 10 18:32 3302 Dec 22 20:49	11°M <sub>2</sub> 38'52	
direct	3297 Feb 10 04:33	14 <b>П</b> 2417 10° <b>П</b> 58'45	0.10030 AC	opposition	3303 Feb 27 13:02	8° Mp 12'24	1°29'43
evening set	3297 May 23 10:52	18° <b>∏</b> 54'02		min. Earth dist.	3303 Feb 27 10:24	8° Mp 12'56	8.15999 AU
evening sec	32) / May 23 10.32	10 113102		direct	3303 New 27 10:21 3303 May 06 11:50	4° mp 42'53	0.15777110
conjunction	3297 Jun 10 05:45	21° <b>I</b> I10'32	-1°31'21	evening set	3303 Aug 20 11:11	12° <b>m</b> ) 51'41	
minimum elong	3297 Jun 10 05:48	21° <b>I</b> I10'33		evening sec	33031148 20 11.11	12 .401 .1	
max. Earth dist.	3297 Jun 10 07:11		10.15030 AU	conjunction	3303 Sep 07 09:59	15° <b>m</b> 08'29	1°24'55
morning rise	3297 Jun 28 04:02	23° <b>∏</b> 28′09		minimum elong	3303 Sep 07 09:56	15° mp 08'28	1°24'55
C	3297 Aug 29 05:07	0ಂತಾ		max. Earth dist.	3303 Sep 07 12:51	15° <b>m</b> 09'24	10.19627 AU
retrograde	3297 Oct 12 14:12	1°542'20		morning rise	3303 Sep 25 05:43	17° <b>m</b> ) 24'19	
	3297 Nov 26 12:25	30°RⅡ		retrograde	3304 Jan 05 12:27	25° Mp 16'52	
opposition	3297 Dec 19 10:35	28° <b>Ⅱ</b> 13′00	-1°38'28	opposition	3304 Mar 12 07:10	21° <b>m</b> 51'40	1°59'31
min. Earth dist.	3297 Dec 19 09:01	28° <b>Ⅱ</b> 13'19	8.12058 AU	min. Earth dist.	3304 Mar 12 04:02	21° <b>m</b> 52'18	8.23797 AU
direct	3298 Feb 24 01:24	24° <b>∐</b> 46′20		direct	3304 May 19 17:52	18°M 22'35	
	3298 May 14 23:09	$0$ $\circ$ $\odot$		evening set	3304 Sep 02 22:07	26°M 27'15	
evening set	3298 Jun 07 00:21	2° <b>5</b> 47'50					
				conjunction	3304 Sep 20 17:01	28° Mp 41'40	1°46'19
conjunction	3298 Jun 24 23:28	5° <b>5</b> 06'21	-1°05'46	minimum elong	3304 Sep 20 16:58	28° <b>m</b> 41'39	1°46'18
minimum elong	3298 Jun 24 23:31	5° <b>5</b> 06'22		max. Earth dist.	3304 Sep 20 20:20	-•	10.28232 AU
max. Earth dist.	3298 Jun 25 02:13		10.09552 AU		3304 Oct 01 00:30	0∘ <b>⊽</b>	
morning rise	3298 Jul 13 00:59	7° <b>©</b> 25'41		morning rise	3304 Oct 08 08:02	0° <b>£</b> 54'53	
retrograde	3298 Oct 27 00:59	15°5541'02	1000151	retrograde	3305 Jan 17 22:48	8° <b>Ω</b> 39'36	2022107
opposition	3299 Jan 02 11:20	12°5511'38		opposition	3305 Mar 25 20:59	5° <b>Ω</b> 15'43	2°22'07
min. Earth dist.	3299 Jan 02 08:49	12°5512'09	8.07726 AU	min. Earth dist.	3305 Mar 25 17:47	5° <b>Ω</b> 16'22	8.33135 AU
direct	3299 Mar 10 03:06	8°943'53		direct	3305 Jun 02 18:37	1° <b>Ω</b> 47'22	
evening set	3299 Jun 21 19:53	16°950'22		evening set	3305 Sep 17 00:43	9° <b>≏</b> 46'25	
conjunction	3299 Jul 09 22:02	19° <b>©</b> 10'13	0°36'03	conjunction	3305 Oct 04 15:18	11° <b>≏</b> 58'13	2°01'36
minimum elong	3299 Jul 09 22:04	19° <b>©</b> 10'14		minimum elong	3305 Oct 04 15:16	11° <b>⊆</b> 58'12	
max. Earth dist.	3299 Jul 10 01:22		10.06484 AU	max. Earth dist.	3305 Oct 04 15:10 3305 Oct 04 18:38		10.38122 AU
morning rise	3299 Jul 10 01:22 3299 Jul 28 01:29	21°930'31	10.00707 AU	morning rise	3305 Oct 04 18.38 3305 Oct 22 01:25	11 <b>⊆</b> 3913 14° <b>⊆</b> 08'40	10.50122 AU
retrograde	3299 Nov 10 11:23	29° <b>©</b> 44'47		retrograde	3306 Jan 31 01:37	21° <b>Ω</b> 45'16	
opposition	3300 Jan 16 13:10	26°5915'41	-0°25'09	opposition	3306 Apr 08 05:53	18° <b>£</b> 22'48	2°36'43
min. Earth dist.	3300 Jan 16 10:25	26°916'15	8.05925 AU	min. Earth dist.	3306 Apr 08 03:21	18° <b>≏</b> 23'18	8.43485 AU
direct	3300 Mar 24 08:23	22°547'03		direct	3306 Jun 16 15:08	14° <b>£</b> 55'23	
•	3300 Jun 29 05:39	0°Ω		evening set	3306 Sep 30 17:52	22° <b>Ω</b> 47'42	
evening set	3300 Jul 06 19:01	0° <b>Ω</b> 56'56		Č		· <del>-</del>	
Ü				conjunction	3306 Oct 18 04:00	24° <b>≏</b> 56'48	2°10'18
conjunction	3300 Jul 24 22:40	3° <b>Ω</b> 17'17	-0°04'08	minimum elong	3306 Oct 18 03:59	24° <b>≏</b> 56'48	2°10'18
minimum elong	3300 Jul 24 22:41	3° <b>Ω</b> 17'17	0°04'08	max. Earth dist.	3306 Oct 18 06:40	24° <b>≏</b> 57'38	10.48751 AU
behind sun begin	3300 Jul 24 15:26	3° <b>Ω</b> 14'58		morning rise	3306 Nov 04 09:32	27° <b>≏</b> 04'32	
behind sun end	3300 Jul 25 05:56	3° <b>Ω</b> 19′37			3306 Nov 29 16:08	$0^{\circ}$ M.	

	3307 Feb 12 20:46	4°MJ33'15		max. Earth dist.	2212 D 20 10.05	70=707140	10.99633 AU
retrograde			20.4210.4		3312 Dec 28 18:05		10.99633 AU
opposition	3307 Apr 21 10:00	1°M12'07	2°43'04	morning rise	3313 Jan 14 13:22	9° <b>る</b> 06'32	
min. Earth dist.	3307 Apr 21 08:34	1°M12'24	8.54294 AU	retrograde	3313 Apr 24 15:19	16°る07'15	1001157
	3307 May 07 03:02	30° <b>₹</b> Ω		opposition	3313 Jul 03 15:54	12° <b>⋜</b> 49'52	1°01'56
direct	3307 Jun 30 06:39	27° <b>£</b> 45'49		min. Earth dist.	3313 Jul 03 18:47	12° <b>る</b> 49'20	9.01243 AU
	3307 Aug 22 03:03	0°M		direct	3313 Sep 12 17:08	9° <b>ප</b> 30'05	
evening set	3307 Oct 14 00:54	5°M30'37		evening set	3313 Dec 23 16:26	16° <b>る</b> 36'20	
agniumation	2207 Oat 21 06:40	70 <b>m</b> 27100	2°12'25	agniunation	3314 Jan 09 09:12	18° <b>る</b> 34'02	0°38'07
conjunction	3307 Oct 31 06:49	7°M37'08		conjunction		18°る34'02	
minimum elong	3307 Oct 31 06:49		2°12'26	minimum elong	3314 Jan 09 09:13		
max. Earth dist.	3307 Oct 31 08:09		10.59576 AU	max. Earth dist.	3314 Jan 09 05:34		11.02262 AU
morning rise	3307 Nov 17 08:23	9°M42'20		morning rise	3314 Jan 26 00:48	20°る31'25	
_	3308 Jan 07 04:36	15° <b>™</b>		retrograde	3314 May 06 12:37	27° <b>る</b> 32'21	
retrograde	3308 Feb 25 10:13	17°M03'42		opposition	3314 Jul 15 20:10	24°る14'42	
	3308 Apr 16 11:42	15°RM		min. Earth dist.	3314 Jul 15 22:46	24°る14'13	9.02777 AU
opposition	3308 May 03 09:05	13°M43'44		direct	3314 Sep 24 18:02	20° <b>ろ</b> 55'32	
min. Earth dist.	3308 May 03 08:14	13°M43'54	8.65025 AU	evening set	3315 Jan 04 03:14	27° <b>る</b> 59'05	
direct	3308 Jul 12 15:30	10°M18'40				_	
	3308 Sep 30 01:49	15°M		conjunction	3315 Jan 20 19:27	29° <b>る</b> 56'33	0°12'12
evening set	3308 Oct 25 22:08	17° <b>M</b> 55'37		minimum elong	3315 Jan 20 19:28	29° <b>る</b> 56'34	0°12'13
				behind sun begin	3315 Jan 20 14:42	29° <b>る</b> 55'10	
conjunction	3308 Nov 12 00:27	19° <b>M</b> 59'48	2°08'16	behind sun end	3315 Jan 21 00:13	29° <b>る</b> 57'57	
minimum elong	3308 Nov 12 00:28	19° <b>™</b> 59'48	2°08'17	max. Earth dist.	3315 Jan 20 16:06	29° <b>る</b> 55'35	11.02741 AU
max. Earth dist.	3308 Nov 12 00:49	19° <b>™</b> 59'55	10.70077 AU		3315 Jan 21 07:08	0° <b>≈</b>	
morning rise	3308 Nov 28 22:45	22°M02'45		morning rise	3315 Feb 06 11:06	1° <b>≈</b> 53'57	
retrograde	3309 Mar 08 17:29	29°M17'32		retrograde	3315 May 18 11:39	8° <b>≈</b> 56'36	
opposition	3309 May 16 03:10	25°M58'33	2°32'28	desc. node	3315 Jul 13 07:10	6° <b>≈</b> 42'27	
min. Earth dist.	3309 May 16 02:28	25°M58'41	8.75165 AU	opposition	3315 Jul 28 00:29	5° <b>≈</b> 38'23	-0°01'16
direct	3309 Jul 25 17:39	22°M34'43		min. Earth dist.	3315 Jul 28 03:20	5° <b>≈</b> 37'52	9.02179 AU
	3309 Nov 06 20:56	0° <b>∡</b> ¹		direct	3315 Oct 06 16:48	2° <b>≈</b> 19'36	
evening set	3309 Nov 07 10:12	0° <b>∡</b> 03'55		evening set	3316 Jan 15 13:39	9° <b>≈</b> 21'48	
conjunction	3309 Nov 24 09:39	2° <b>≯</b> 06'05	1°58'26	conjunction	3316 Feb 01 05:30	11° <b>≈</b> 19'24	-0°14'17
minimum elong	3309 Nov 24 09:40	2° <b>∡</b> ¹06'06	1°58'27	minimum elong	3316 Feb 01 05:29	11° <b>≈</b> 19′23	0°14'16
max. Earth dist.	3309 Nov 24 09:46	2° <b>∡</b> ¹06'07	10.79758 AU	behind sun begin	3316 Feb 01 02:01	11° <b>≈</b> 18′23	
morning rise	3309 Dec 11 05:17	4° <b>₰</b> 07'09		behind sun end	3316 Feb 01 08:56	11° <b>≈</b> 20′24	
retrograde	3310 Mar 20 21:10	11° <b>∡</b> 16′23		max. Earth dist.	3316 Feb 01 01:25	11° <b>≈</b> 18′12	11.01098 AU
opposition	3310 May 28 17:03	7° <b>∡</b> ¹58'09	2°17'00	morning rise	3316 Feb 17 21:43	13° <b>≈</b> 17′08	
min. Earth dist.	3310 May 28 16:36	7° <b>∡</b> ¹58'14	8.84238 AU		3316 Mar 04 02:48	15° <b>≈</b>	
direct	3310 Aug 07 14:23	4° <b>∡</b> ³35'31		retrograde	3316 May 29 12:48	20° <b>≈</b> 22'54	
evening set	3310 Nov 19 14:13	11° <b>∡</b> 757′27		opposition	3316 Aug 08 05:35	17° <b>≈</b> 03'55	-0°33'30
				min. Earth dist.	3316 Aug 08 09:08	17° <b>≈</b> 03'15	8.99503 AU
conjunction	3310 Dec 06 11:17	13° <b>∡</b> ¹57'56	1°43'39		3316 Sep 07 08:38	15° <b>R</b> ≈	
minimum elong	3310 Dec 06 11:19	13° <b>∡</b> 757'57	1°43'40	direct	3316 Oct 17 14:09	13° <b>≈</b> 45'14	
max. Earth dist.	3310 Dec 06 11:09	13° <b>∡</b> 757'54	10.88158 AU		3316 Nov 25 19:31	15° <b>≈</b>	
morning rise	3310 Dec 23 04:55	15° <b>₹</b> 57'28		evening set	3317 Jan 26 01:19	20° <b>≈</b> 47'33	
retrograde	3311 Apr 01 22:12	23° <b>₹</b> 02'23					
opposition	3311 Jun 10 03:19	19° <b>∡</b> ⁴44'42	1°56'03	conjunction	3317 Feb 11 17:05	22° <b>≈</b> 45'33	-0°40'14
min. Earth dist.	3311 Jun 10 04:05	19° <b>∡</b> ⁴44'33	8.91823 AU	minimum elong	3317 Feb 11 17:03	22° <b>≈</b> 45'32	0°40'14
direct	3311 Aug 20 03:20	16° <b>₹</b> ¹23'10		max. Earth dist.	3317 Feb 11 12:18	22° <b>≈</b> 44'08	10.97412 AU
evening set	3311 Dec 01 11:35	23° <b>∡</b> ³38'39		morning rise	3317 Feb 28 10:13	24° <b>≈</b> 43'57	
					3317 Apr 22 11:34	0° <b>₩</b>	
conjunction	3311 Dec 18 06:42	25° <b>∡</b> ³37'50	1°24'45	retrograde	3317 Jun 10 15:58	1° <b>¥</b> 54'16	
minimum elong	3311 Dec 18 06:44	25° <b>∡</b> ³37'51	1°24'45	C	3317 Jul 31 15:23	30°R <b>≈</b>	
max. Earth dist.	3311 Dec 18 04:58		10.94883 AU	opposition	3317 Aug 20 12:14	28° <b>≈</b> 34'15	-1°04'39
morning rise	3312 Jan 03 23:09	27° <b>∡</b> ³36′16		min. Earth dist.	3317 Aug 20 16:02		8.94858 AU
	3312 Jan 25 10:20	0°ප		direct	3317 Oct 29 12:46	25° <b>≈</b> 15'29	
retrograde	3312 Apr 12 18:27	4° <b>る</b> 38'17			3318 Jan 16 22:40	0° <b>∀</b>	
opposition	3312 Jun 21 10:36	1°る20'54	1°30'40	evening set	3318 Feb 06 15:34	2° <b>∺</b> 19'21	
min. Earth dist.	3312 Jun 21 12:51	1°る20'29	8.97568 AU	3.0	2010100 00 10.04	- /(1/21	
Darm dist.	3312 Jul 10 02:47	1 02029 30°R <i>X</i> <sup>7</sup>	5.77500 110	conjunction	3318 Feb 23 07:47	4° <b>¥</b> 18'07	-1°04'48
direct	3312 Jul 10 02.47 3312 Aug 31 11:05	28° <b>₹</b> 00'18		minimum elong	3318 Feb 23 07:47 3318 Feb 23 07:45	4° <b>∺</b> 18'06	
direct	3312 Aug 31 11:03 3312 Oct 21 03:05	28 × 00 18		max. Earth dist.	3318 Feb 23 07:43 3318 Feb 23 03:48		1 04 48 10.91829 AU
evening set	3312 Oct 21 03:03 3312 Dec 12 03:46	5° <b>ප</b> 10'33		morning rise	3318 Mar 12 02:01	6° <b>∺</b> 17'30	10.71027 AU
evening set	3312 DCC 12 U3.40	J 01033		=			
				retrograda	2212 Jun 22 01-52	130# 22140	
conjunction	3312 Dag 20 21:27	70-200140	1002126	retrograde	3318 Jun 23 01:53	13° <b>¥</b> 33'40	1033124
conjunction minimum elong	3312 Dec 28 21:27 3312 Dec 28 21:29	7°る08'48 7°る08'48	1°02'36	retrograde opposition min. Earth dist.	3318 Jun 23 01:53 3318 Sep 01 21:32 3318 Sep 02 00:26	10° <b>¥</b> 12′28	-1°33'34 8.88421 AU

direct	3318 Nov 10 13:13	6° <b>)</b> 53′27		direct	3325 Jan 22 23:12	21° <b>8</b> 39'28	
evening set	3319 Feb 18 09:49	14° <b>)</b> €00'11		evening set	3325 May 04 07:32	29° <b>8</b> 24'50	
-				-	3325 May 08 23:31	$\Pi^{\circ}0$	
conjunction	3319 Mar 07 02:58	16° <b>)</b> 00′04	-1°26'59				
minimum elong	3319 Mar 07 02:55	16° <b>∺</b> 00'03	1°26'59	conjunction	3325 May 21 19:27	1° <b>Ⅱ</b> 37'52	
max. Earth dist.	3319 Mar 06 23:56		10.84551 AU	minimum elong	3325 May 21 19:30	1° <b>∐</b> 37'53	
morning rise	3319 Mar 23 22:39	18° <b>)</b> €00'47		max. Earth dist.	3325 May 21 20:43		10.25385 AU
retrograde	3319 Jul 05 17:25	25°\(\mathbf{X}\)23'54 22°\(\mathbf{X}\)01'26	1950101	morning rise	3325 Jun 08 11:36	3° <b>П</b> 52'16 12° <b>П</b> 01'43	
opposition min. Earth dist.	3319 Sep 14 10:12 3319 Sep 14 12:17		8.80423 AU	retrograde opposition	3325 Sep 23 05:43 3325 Nov 30 17:16	12°Щ01°43 8°Щ32'51	2017!11
direct	3319 Nov 22 13:48	18° <b>H</b> 41'58	6.60423 AU	min. Earth dist.	3325 Nov 30 17:10 3325 Nov 30 15:33		8.21306 AU
evening set	3320 Mar 01 09:46	25° <b>)</b> 52'57		direct	3326 Feb 05 09:38	5° <b>I</b> 07'55	0.21300110
				evening set	3326 May 18 10:20	13° <b>Ⅲ</b> 00'42	
conjunction	3320 Mar 18 04:15	27° <b>) €</b> 54'17	-1°45'46	, and the second	,		
minimum elong	3320 Mar 18 04:13	27° <b>)</b> 54′16	1°45'46	conjunction	3326 Jun 05 03:02	15° <b>Ⅱ</b> 16′16	-1°41'02
max. Earth dist.	3320 Mar 18 01:13	27° <b>¥</b> 53′21	10.75854 AU	minimum elong	3326 Jun 05 03:05	15° <b>Ⅱ</b> 16'17	1°41'02
morning rise	3320 Apr 04 02:02	29° <b>¥</b> 56′39		max. Earth dist.	3326 Jun 05 04:52		10.17464 AU
	3320 Apr 04 13:20	$0^{\circ}\mathbf{\Upsilon}$		morning rise	3326 Jun 22 23:36	17° <b>Ⅱ</b> 33'05	
retrograde	3320 Jul 17 14:25	7° <b>Y</b> 27'34		retrograde	3326 Oct 07 15:09	25° <b>∐</b> 46'41	
opposition	3320 Sep 26 02:50	4° <b>Υ</b> 03'48		opposition	3326 Dec 14 14:49	22° <b>Ⅱ</b> 17'32	
min. Earth dist.	3320 Sep 26 04:48	4°Υ03'25	8.71166 AU	min. Earth dist.	3326 Dec 14 12:50		8.14267 AU
direct	3320 Dec 03 19:00	0° <b>Υ</b> 43'42		direct	3327 Feb 19 04:33	18° <b>∏</b> 51'32	
evening set	3321 Mar 13 16:24	8° <b>Ƴ</b> 00'09		evening set	3327 Jun 01 21:23	26° <b>Ⅱ</b> 50'59	
conjunction	3321 Mar 30 12:51	10° <b>Ƴ</b> 03'16	-2°00'13	conjunction	3327 Jun 19 18:33	29°∏08'45	-1°17'42
minimum elong	3321 Mar 30 12:31		2°00'12	minimum elong	3327 Jun 19 18:37	29° <b>I</b> 108'46	
max. Earth dist.	3321 Mar 30 09:36		10.66082 AU	max. Earth dist.	3327 Jun 19 21:01		10.11475 AU
morning rise	3321 Apr 16 13:20	12° <b>Y</b> 07'38			3327 Jun 26 09:16	0ಂತಾ	
retrograde	3321 Jul 30 18:35	19° <b>Y</b> 46'56		morning rise	3327 Jul 07 18:55	1°527'30	
opposition	3321 Oct 09 00:22	16° <b>Ƴ</b> 21'52	-2°34'45	retrograde	3327 Oct 22 01:15	9° <b>5</b> 43'07	
min. Earth dist.	3321 Oct 09 02:24	16° <b>Y</b> 21'29	8.61029 AU	opposition	3327 Dec 28 15:21	6°514'00	-1°19'48
direct	3321 Dec 16 04:52	13° <b>Y</b> 01'00		min. Earth dist.	3327 Dec 28 13:03	6° <b>©</b> 14'28	8.09359 AU
evening set	3322 Mar 26 06:36	20° <b>Y</b> 23′52		direct	3328 Mar 04 05:25	2° <b>©</b> 47'03	
		00		evening set	3328 Jun 15 15:03	10° <b>©</b> 51'56	
conjunction	3322 Apr 12 05:55	22° <b>Y</b> 29'07 22° <b>Y</b> 29'07		. ,.	2220 1 1 02 15 50	120611110	0040124
minimum elong max. Earth dist.	3322 Apr 12 05:54		2°09'21 10.55651 AU	conjunction minimum elong	3328 Jul 03 15:50 3328 Jul 03 15:52	13°©11'18 13°©11'19	
morning rise	3322 Apr 12 03:40 3322 Apr 29 09:37	$24^{\circ}\Upsilon 35'45$	10.33631 AU	max. Earth dist.	3328 Jul 03 19:10		0 49 34 10.07783 AU
morning rise	3322 Apr 29 09:37 3322 Jun 19 13:22	0° <b>8</b>		morning rise	3328 Jul 21 18:43	15° <b>©</b> 31'19	10.07783 AU
retrograde	3322 Aug 13 04:58	2° <b>8</b> 23'37		retrograde	3328 Nov 04 12:05	23°5946'42	
8	Č	_					
	3322 Oct 08 12:42	30° <b>ŖƳ</b>		•	3329 Jan 10 17:28	20°917'53	-0°42'34
opposition	3322 Oct 08 12:42 3322 Oct 22 03:00	30°R'Y' 28° <b>Y</b> 57'19	-2°42'42	opposition min. Earth dist.			
opposition min. Earth dist.		28° <b>Υ</b> 57'19	-2°42'42 8.50457 AU	opposition	3329 Jan 10 17:28	20°©17'53	
* *	3322 Oct 22 03:00	28° <b>Υ</b> 57'19		opposition min. Earth dist.	3329 Jan 10 17:28 3329 Jan 10 14:30	20°©17'53 20°©18'29	
min. Earth dist.	3322 Oct 22 03:00 3322 Oct 22 04:17	28° <b>Y</b> 57'19 28° <b>Y</b> 57'04		opposition min. Earth dist. direct	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17	20°©17'53 20°©18'29 16°©50'06	
min. Earth dist.	3322 Oct 22 03:00 3322 Oct 22 04:17 3322 Dec 28 20:42	28° <b>Y</b> 57'19 28° <b>Y</b> 57'04 25° <b>Y</b> 35'32		opposition min. Earth dist. direct evening set conjunction	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17 3329 Jun 30 13:18 3329 Jul 18 16:26	20°©17'53 20°©18'29 16°©50'06 24°©58'52 27°©19'04	8.06888 AU -0°18'20
min. Earth dist. direct evening set	3322 Oct 22 03:00 3322 Oct 22 04:17 3322 Dec 28 20:42 3323 Mar 12 12:53 3323 Apr 08 05:38	28°Y57'19 28°Y57'04 25°Y35'32 0°8 3°805'36	8.50457 AU	opposition min. Earth dist. direct evening set  conjunction minimum elong	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17 3329 Jun 30 13:18 3329 Jul 18 16:26 3329 Jul 18 16:27	20°©17'53 20°©18'29 16°©50'06 24°©58'52 27°©19'04 27°©19'05	8.06888 AU -0°18'20 0°18'20
min. Earth dist. direct evening set conjunction	3322 Oct 22 03:00 3322 Oct 22 04:17 3322 Dec 28 20:42 3323 Mar 12 12:53 3323 Apr 08 05:38 3323 Apr 25 08:37	28°Y57'19 28°Y57'04 25°Y35'32 0°8 3°8'05'36	8.50457 AU -2°12'26	opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17 3329 Jun 30 13:18 3329 Jul 18 16:26 3329 Jul 18 16:27 3329 Jul 18 20:45	20°\$17'53 20°\$18'29 16°\$50'06 24°\$58'52 27°\$19'04 27°\$19'05 27°\$20'28	8.06888 AU -0°18'20
min. Earth dist. direct evening set conjunction minimum elong	3322 Oct 22 03:00 3322 Oct 22 04:17 3322 Dec 28 20:42 3323 Mar 12 12:53 3323 Apr 08 05:38 3323 Apr 25 08:37 3323 Apr 25 08:38	28°Y57'19 28°Y57'04 25°Y35'32 0°8 3°805'36 5°813'18 5°813'18	8.50457 AU -2°12'26 2°12'25	opposition min. Earth dist. direct evening set  conjunction minimum elong	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17 3329 Jun 30 13:18 3329 Jul 18 16:26 3329 Jul 18 16:27 3329 Jul 18 20:45 3329 Aug 05 20:20	20°@17'53 20°@18'29 16°@50'06 24°@58'52 27°@19'04 27°@19'05 27°@20'28 29°@39'31	8.06888 AU -0°18'20 0°18'20
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	3322 Oct 22 03:00 3322 Oct 22 04:17 3322 Dec 28 20:42 3323 Mar 12 12:53 3323 Apr 08 05:38 3323 Apr 25 08:37 3323 Apr 25 08:38 3323 Apr 25 07:54	28°Y57'19 28°Y57'04 25°Y35'32 0°8 3°805'36 5°813'18 5°813'18 5°813'04	8.50457 AU -2°12'26	opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17 3329 Jun 30 13:18 3329 Jul 18 16:26 3329 Jul 18 16:27 3329 Jul 18 20:45 3329 Aug 05 20:20 3329 Aug 08 13:07	20°@17'53 20°@18'29 16°@50'06 24°@58'52 27°@19'04 27°@19'05 27°@20'28 29°@39'31 0°\$\$\end{align**}	8.06888 AU -0°18'20 0°18'20
min. Earth dist. direct evening set conjunction minimum elong	3322 Oct 22 03:00 3322 Oct 22 04:17 3322 Dec 28 20:42 3323 Mar 12 12:53 3323 Apr 08 05:38 3323 Apr 25 08:37 3323 Apr 25 08:38 3323 Apr 25 07:54 3323 May 12 16:03	28°Y57'19 28°Y57'04 25°Y35'32 0°8 3°8'05'36 5°8'13'18 5°8'13'18 5°8'13'04 7°8'22'25	8.50457 AU -2°12'26 2°12'25	opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17 3329 Jun 30 13:18 3329 Jul 18 16:26 3329 Jul 18 16:27 3329 Jul 18 20:45 3329 Aug 05 20:20 3329 Aug 08 13:07 3329 Nov 18 21:44	20°\$17'53 20°\$18'29 16°\$50'06 24°\$58'52 27°\$19'04 27°\$19'05 27°\$20'28 29°\$39'31 0°\$\Omega\$ 7°\$\Omega\$52'25	8.06888 AU -0°18'20 0°18'20 10.06609 AU
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	3322 Oct 22 03:00 3322 Oct 22 04:17 3322 Dec 28 20:42 3323 Mar 12 12:53 3323 Apr 08 05:38 3323 Apr 25 08:37 3323 Apr 25 08:38 3323 Apr 25 07:54 3323 May 12 16:03 3323 Aug 07 23:58	28°Y57'19 28°Y57'04 25°Y35'32 0°8 3°8'05'36 5°8'13'18 5°8'13'18 5°8'13'04 7°8'22'25	8.50457 AU -2°12'26 2°12'25	opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17 3329 Jun 30 13:18 3329 Jul 18 16:26 3329 Jul 18 16:27 3329 Jul 18 20:45 3329 Aug 05 20:20 3329 Aug 08 13:07 3329 Nov 18 21:44 3330 Jan 24 19:49	20°\$17'53 20°\$18'29 16°\$50'06 24°\$58'52 27°\$19'04 27°\$19'05 27°\$20'28 29°\$39'31 0°\$\Omega\$7 7°\$\Omega\$52'25 4°\$\Omega\$24'09	8.06888 AU -0°18'20 0°18'20 10.06609 AU -0°02'39
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	3322 Oct 22 03:00 3322 Oct 22 04:17 3322 Dec 28 20:42 3323 Mar 12 12:53 3323 Apr 08 05:38 3323 Apr 25 08:37 3323 Apr 25 08:38 3323 Apr 25 07:54 3323 May 12 16:03 3323 Aug 07 23:58 3323 Aug 26 22:20	28°Y57'19 28°Y57'04 25°Y35'32 0°8 3°8'05'36 5°8'13'18 5°8'13'04 7°8'22'25 15°8'18'30	8.50457 AU -2°12'26 2°12'25	opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist.	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17 3329 Jun 30 13:18 3329 Jul 18 16:26 3329 Jul 18 16:27 3329 Jul 18 20:45 3329 Aug 05 20:20 3329 Aug 08 13:07 3329 Nov 18 21:44 3330 Jan 24 19:49 3330 Jan 24 16:08	20°\$17'53 20°\$18'29 16°\$50'06 24°\$58'52 27°\$19'04 27°\$19'05 27°\$20'28 29°\$39'31 0°\$1 7°\$152'25 4°\$124'09 4°\$124'54	8.06888 AU -0°18'20 0°18'20 10.06609 AU
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	3322 Oct 22 03:00 3322 Oct 22 04:17 3322 Dec 28 20:42 3323 Mar 12 12:53 3323 Apr 08 05:38 3323 Apr 25 08:37 3323 Apr 25 08:38 3323 Apr 25 07:54 3323 May 12 16:03 3323 Aug 07 23:58 3323 Aug 26 22:20 3323 Sep 14 23:54	28°Y57'19 28°Y57'04 25°Y35'32 0°8 3°8'05'36 5°8'13'18 5°8'13'04 7°8'22'25 15°8'18'30 15°R8'	8.50457 AU -2°12'26 2°12'25 10.45034 AU	opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17 3329 Jun 30 13:18 3329 Jul 18 16:26 3329 Jul 18 16:27 3329 Jul 18 20:45 3329 Aug 05 20:20 3329 Aug 08 13:07 3329 Nov 18 21:44 3330 Jan 24 19:49 3330 Jan 24 16:08 3330 Feb 18 17:14	20°\$17'53 20°\$18'29 16°\$50'06 24°\$58'52 27°\$19'04 27°\$19'05 27°\$20'28 29°\$39'31 0°\$1 7°\$152'25 4°\$124'09 4°\$124'54 2°\$128'17	8.06888 AU -0°18'20 0°18'20 10.06609 AU -0°02'39
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	3322 Oct 22 03:00 3322 Oct 22 04:17 3322 Dec 28 20:42 3323 Mar 12 12:53 3323 Apr 08 05:38 3323 Apr 25 08:37 3323 Apr 25 08:38 3323 Apr 25 07:54 3323 May 12 16:03 3323 Aug 07 23:58 3323 Aug 26 22:20	28°Y57'19 28°Y57'04 25°Y35'32 0°8 3°805'36 5°813'18 5°813'18 5°813'04 7°822'25 15°8 15°88 11°851'06	8.50457 AU -2°12'26 2°12'25 10.45034 AU	opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. asc. node	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17 3329 Jun 30 13:18 3329 Jul 18 16:26 3329 Jul 18 16:27 3329 Jul 18 20:45 3329 Aug 05 20:20 3329 Aug 08 13:07 3329 Nov 18 21:44 3330 Jan 24 19:49 3330 Jan 24 16:08	20°\$17'53 20°\$18'29 16°\$50'06 24°\$58'52 27°\$19'04 27°\$19'05 27°\$20'28 29°\$39'31 0°\$1 7°\$152'25 4°\$124'09 4°\$124'54	8.06888 AU -0°18'20 0°18'20 10.06609 AU -0°02'39
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	3322 Oct 22 03:00 3322 Oct 22 04:17 3322 Dec 28 20:42 3323 Mar 12 12:53 3323 Apr 08 05:38 3323 Apr 25 08:37 3323 Apr 25 08:38 3323 Apr 25 07:54 3323 Apr 25 07:54 3323 Aug 07 23:58 3323 Aug 07 23:58 3323 Aug 26 22:20 3323 Sep 14 23:54 3323 Nov 04 10:39	28°Y57'19 28°Y57'04 25°Y35'32 0°8 3°805'36 5°813'18 5°813'18 5°813'04 7°822'25 15°8 15°88 11°851'06	8.50457 AU  -2°12'26 2°12'25 10.45034 AU  -2°42'44	opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. asc. node direct	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17 3329 Jun 30 13:18 3329 Jul 18 16:26 3329 Jul 18 16:27 3329 Jul 18 20:45 3329 Aug 05 20:20 3329 Aug 08 13:07 3329 Nov 18 21:44 3330 Jan 24 19:49 3330 Jan 24 16:08 3330 Feb 18 17:14 3330 Apr 01 17:52	20°\$17'53 20°\$18'29 16°\$50'06 24°\$58'52 27°\$19'04 27°\$19'05 27°\$20'28 29°\$39'31 0°\$\Omega\$7 7°\$\Omega\$52'25 4°\$\Omega\$24'09 4°\$\Omega\$24'54 2°\$\Omega\$28'17 0°\$\Omega\$55'42	8.06888 AU -0°18'20 0°18'20 10.06609 AU -0°02'39
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	3322 Oct 22 03:00 3322 Oct 22 04:17 3322 Dec 28 20:42 3323 Mar 12 12:53 3323 Apr 08 05:38 3323 Apr 25 08:37 3323 Apr 25 08:38 3323 Apr 25 07:54 3323 May 12 16:03 3323 Aug 07 23:58 3323 Aug 26 22:20 3323 Sep 14 23:54 3323 Nov 04 10:39 3323 Nov 04 10:46	28°Y57'19 28°Y57'04 25°Y35'32 0°B 3°B05'36 5°B13'18 5°B13'18 5°B13'04 7°B22'25 15°B 15°B18'30 15°RB 11°B51'06 11°B51'05 8°B28'19 15°B	8.50457 AU  -2°12'26 2°12'25 10.45034 AU  -2°42'44	opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. asc. node direct	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17 3329 Jun 30 13:18 3329 Jul 18 16:26 3329 Jul 18 16:27 3329 Jul 18 20:45 3329 Aug 05 20:20 3329 Aug 08 13:07 3329 Nov 18 21:44 3330 Jan 24 19:49 3330 Jan 24 16:08 3330 Feb 18 17:14 3330 Apr 01 17:52	20°\$17'53 20°\$18'29 16°\$50'06 24°\$58'52 27°\$19'04 27°\$19'05 27°\$20'28 29°\$39'31 0°\$\Omega\$7 7°\$\Omega\$52'25 4°\$\Omega\$24'09 4°\$\Omega\$24'54 2°\$\Omega\$28'17 0°\$\Omega\$55'42	8.06888 AU -0°18'20 0°18'20 10.06609 AU -0°02'39 8.06981 AU
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	3322 Oct 22 03:00 3322 Oct 22 04:17 3322 Dec 28 20:42 3323 Mar 12 12:53 3323 Apr 08 05:38  3323 Apr 25 08:37 3323 Apr 25 08:38 3323 Apr 25 07:54 3323 May 12 16:03 3323 Aug 07 23:58 3323 Aug 26 22:20 3323 Sep 14 23:54 3323 Nov 04 10:39 3323 Nov 04 10:46 3324 Jan 10 19:25	28°Y57'19 28°Y57'04 25°Y35'32 0°8 3°805'36 5°813'18 5°813'04 7°822'25 15°8 15°88'11°851'06 11°851'05 8°828'19	8.50457 AU  -2°12'26 2°12'25 10.45034 AU  -2°42'44	opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. asc. node direct evening set  conjunction minimum elong	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17 3329 Jun 30 13:18 3329 Jul 18 16:26 3329 Jul 18 16:27 3329 Jul 18 20:45 3329 Aug 05 20:20 3329 Aug 08 13:07 3329 Nov 18 21:44 3330 Jan 24 19:49 3330 Feb 18 17:14 3330 Apr 01 17:52 3330 Jul 15 13:38 3330 Aug 02 17:29 3330 Aug 02 17:29	20°\$17'53 20°\$18'29 16°\$50'06 24°\$58'52 27°\$19'04 27°\$19'05 27°\$20'28 29°\$39'31 0°\$\Omega\$ 7°\$\Omega\$5'25 4°\$\Omega\$24'54 2°\$\Omega\$28'17 0°\$\Omega\$5'42 9°\$\Omega\$06'36 11°\$\Omega\$26'46 11°\$\Omega\$26'45	8.06888 AU -0°18'20 0°18'20 10.06609 AU -0°02'39 8.06981 AU
min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set	3322 Oct 22 03:00 3322 Oct 22 04:17 3322 Dec 28 20:42 3323 Mar 12 12:53 3323 Apr 08 05:38  3323 Apr 25 08:37 3323 Apr 25 08:38 3323 Apr 25 07:54 3323 May 12 16:03 3323 Aug 07 23:58 3323 Aug 26 22:20 3323 Sep 14 23:54 3323 Nov 04 10:39 3323 Nov 04 10:46 3324 Jan 10 19:25 3324 Apr 11 13:31 3324 Apr 20 13:56	28°Y57'19 28°Y57'04 25°Y35'32 0°B 3°B05'36 5°B13'18 5°B13'18 5°B13'04 7°B22'25 15°B 15°B18'30 15°RB 11°B51'05 8°B28'19 15°B 16°B06'01	8.50457 AU  -2°12'26 2°12'25 10.45034 AU  -2°42'44 8.39948 AU	opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. asc. node direct evening set  conjunction minimum elong behind sun begin	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17 3329 Jun 30 13:18  3329 Jul 18 16:26 3329 Jul 18 16:27 3329 Jul 18 20:45 3329 Aug 05 20:20 3329 Aug 08 13:07 3329 Nov 18 21:44 3330 Jan 24 19:49 3330 Jan 24 16:08 3330 Feb 18 17:14 3330 Apr 01 17:52 3330 Jul 15 13:38  3330 Aug 02 17:29 3330 Aug 02 17:29 3330 Aug 02 17:29 3330 Aug 02 14:03	20°\$17'53 20°\$18'29 16°\$50'06 24°\$58'52 27°\$19'04 27°\$19'05 27°\$20'28 29°\$39'31 0°\$\Omega\$ 7°\$\Omega\$52'25 4°\$\Omega\$24'09 4°\$\Omega\$24'54 2°\$\Omega\$28'17 0°\$\Omega\$55'42 9°\$\Omega\$06'36	8.06888 AU -0°18'20 0°18'20 10.06609 AU -0°02'39 8.06981 AU
min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction	3322 Oct 22 03:00 3322 Oct 22 04:17 3322 Dec 28 20:42 3323 Mar 12 12:53 3323 Apr 08 05:38  3323 Apr 25 08:37 3323 Apr 25 08:38 3323 Apr 25 07:54 3323 May 12 16:03 3323 Aug 07 23:58 3323 Aug 26 22:20 3323 Sep 14 23:54 3323 Nov 04 10:46 3324 Jan 10 19:25 3324 Apr 11 13:31 3324 Apr 20 13:56	28°Y57'19 28°Y57'04 25°Y35'32 0°8 3°805'36 5°813'18 5°813'04 7°822'25 15°8 15°818'30 15°88 11°851'05 8°828'19 15°8 16°806'01	8.50457 AU  -2°12'26 2°12'25 10.45034 AU  -2°42'44 8.39948 AU	opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. asc. node direct evening set  conjunction minimum elong behind sun begin behind sun end	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17 3329 Jun 30 13:18  3329 Jul 18 16:26 3329 Jul 18 16:27 3329 Jul 18 20:45 3329 Aug 05 20:20 3329 Aug 05 20:20 3329 Aug 08 13:07 3329 Nov 18 21:44 3330 Jan 24 19:49 3330 Jan 24 16:08 3330 Feb 18 17:14 3330 Apr 01 17:52 3330 Aug 02 17:29 3330 Aug 02 17:29 3330 Aug 02 17:29 3330 Aug 02 14:03 3330 Aug 02 20:54	20°\$17'53 20°\$18'29 16°\$50'06 24°\$58'52 27°\$19'04 27°\$19'05 27°\$20'28 29°\$39'31 0°\$\Omega\$7\cdot \Omega\$22'5 4\cdot \Omega\$24'54 2\cdot \Omega\$28'17 0\cdot \Omega\$55'42 9\cdot \Omega\$06'36 11\cdot \Omega\$26'46 11\cdot \Omega\$26'45 11\cdot \Omega\$25'39 11\cdot \Omega\$27'51	8.06888 AU -0°18'20 0°18'20 10.06609 AU -0°02'39 8.06981 AU
min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong	3322 Oct 22 03:00 3322 Oct 22 04:17 3322 Dec 28 20:42 3323 Mar 12 12:53 3323 Apr 08 05:38  3323 Apr 25 08:37 3323 Apr 25 07:54 3323 Apr 25 07:54 3323 Aug 07 23:58 3323 Aug 07 23:58 3323 Aug 26 22:20 3323 Sep 14 23:54 3323 Nov 04 10:39 3323 Nov 04 10:46 3324 Apr 10 19:25 3324 Apr 11 13:31 3324 Apr 20 13:56  3324 May 07 21:13 3324 May 07 21:15	28°Y57'19 28°Y57'04 25°Y35'32 0°8 3°805'36 5°813'18 5°813'04 7°822'25 15°8 15°818'30 15°88 11°851'05 8°828'19 15°8 16°806'01 18°816'22 18°816'22	8.50457 AU  -2°12'26 2°12'25 10.45034 AU  -2°42'44 8.39948 AU  -2°08'50 2°08'50	opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. asc. node direct evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist.	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17 3329 Jun 30 13:18  3329 Jul 18 16:26 3329 Jul 18 16:27 3329 Jul 18 20:45 3329 Aug 05 20:20 3329 Aug 08 13:07 3329 Nov 18 21:44 3330 Jan 24 19:49 3330 Jan 24 16:08 3330 Feb 18 17:14 3330 Apr 01 17:52 3330 Aug 02 17:29 3330 Aug 02 17:29 3330 Aug 02 17:29 3330 Aug 02 12:403 3330 Aug 02 20:54 3330 Aug 02 22:08	20°\$17'53 20°\$18'29 16°\$50'06 24°\$58'52 27°\$19'04 27°\$19'05 27°\$20'28 29°\$39'31 0°\$\Omega\$7'\Omega\$22'5 4°\Omega\$24'09 4°\Omega\$24'54 2°\Omega\$28'17 0°\Omega\$55'42 9°\Omega\$06'36 11°\Omega\$26'46 11°\Omega\$26'45 11°\Omega\$25'39 11°\Omega\$27'51 11°\Omega\$28'15	8.06888 AU -0°18'20 0°18'20 10.06609 AU -0°02'39 8.06981 AU
min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist.	3322 Oct 22 03:00 3322 Oct 22 04:17 3322 Dec 28 20:42 3323 Mar 12 12:53 3323 Apr 08 05:38  3323 Apr 25 08:37 3323 Apr 25 08:38 3323 Apr 25 07:54 3323 May 12 16:03 3323 Aug 07 23:58 3323 Aug 07 23:58 3323 Aug 26 22:20 3323 Sep 14 23:54 3323 Nov 04 10:39 3323 Nov 04 10:46 3324 Jan 10 19:25 3324 Apr 11 13:31 3324 Apr 20 13:56  3324 May 07 21:13 3324 May 07 21:15 3324 May 07 21:15	28°Y57'19 28°Y57'04 25°Y35'32 0°8 3°805'36 5°813'18 5°813'04 7°822'25 15°8 11°851'06 11°851'05 8°828'19 15°8 16°806'01 18°816'22 18°816'22 18°816'32	8.50457 AU  -2°12'26 2°12'25 10.45034 AU  -2°42'44 8.39948 AU	opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. asc. node direct evening set  conjunction minimum elong behind sun begin behind sun end	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17 3329 Jun 30 13:18  3329 Jul 18 16:26 3329 Jul 18 16:27 3329 Jul 18 20:45 3329 Aug 05 20:20 3329 Aug 08 13:07 3329 Nov 18 21:44 3330 Jan 24 19:49 3330 Jan 24 16:08 3330 Feb 18 17:14 3330 Apr 01 17:52 3330 Aug 02 17:29 3330 Aug 02 17:29 3330 Aug 02 17:29 3330 Aug 02 12:08 3330 Aug 02 20:54 3330 Aug 02 20:44	20°\$17'53 20°\$18'29 16°\$50'06 24°\$58'52 27°\$19'04 27°\$19'05 27°\$20'28 29°\$39'31 0°\$\Omega\$7'\Omega\$24'54 2°\$\Omega\$28'17 0°\$\Omega\$55'42 9°\$\Omega\$06'36 11°\$\Omega\$26'45 11°\$\Omega\$26'45 11°\$\Omega\$25'39 11°\$\Omega\$25'39 11°\$\Omega\$28'15 13°\$\Omega\$46'45	8.06888 AU -0°18'20 0°18'20 10.06609 AU -0°02'39 8.06981 AU
min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise	3322 Oct 22 03:00 3322 Oct 22 04:17 3322 Dec 28 20:42 3323 Mar 12 12:53 3323 Apr 08 05:38  3323 Apr 25 08:37 3323 Apr 25 08:38 3323 Apr 25 07:54 3323 May 12 16:03 3323 Aug 07 23:58 3323 Aug 07 23:58 3323 Aug 26 22:20 3323 Sep 14 23:54 3323 Nov 04 10:39 3323 Nov 04 10:46 3324 Jan 10 19:25 3324 Apr 11 13:31 3324 Apr 20 13:56  3324 May 07 21:13 3324 May 07 21:15 3324 May 07 21:15 3324 May 07 21:47 3324 May 07 21:47	28°Y57'19 28°Y57'04 25°Y35'32 0°8 3°805'36 5°813'18 5°813'18 5°813'04 7°822'25 15°8 11°851'06 11°851'05 8°828'19 15°8 16°22 18°816'22 18°816'32 20°828'07	8.50457 AU  -2°12'26 2°12'25 10.45034 AU  -2°42'44 8.39948 AU  -2°08'50 2°08'50	opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. asc. node direct evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17 3329 Jun 30 13:18  3329 Jul 18 16:26 3329 Jul 18 16:27 3329 Jul 18 20:45 3329 Aug 05 20:20 3329 Aug 08 13:07 3329 Nov 18 21:44 3330 Jan 24 19:49 3330 Jan 24 16:08 3330 Feb 18 17:14 3330 Apr 01 17:52 3330 Aug 02 17:29 3330 Aug 02 17:29 3330 Aug 02 17:29 3330 Aug 02 12:08 3330 Aug 02 20:54 3330 Aug 02 20:44 3330 Aug 30 15:21	20°\$17'53 20°\$18'29 16°\$50'06 24°\$58'52 27°\$19'04 27°\$19'05 27°\$20'28 29°\$39'31 0°\$\Omega\$7'\Omega\$24'54 2°\$\Omega\$28'17 0°\$\Omega\$55'42 9°\$\Omega\$06'36 11°\$\Omega\$26'45 11°\$\Omega\$26'45 11°\$\Omega\$25'39 11°\$\Omega\$25'51 11°\$\Omega\$28'15 13°\$\Omega\$46'45 15°\$\Omega\$	8.06888 AU -0°18'20 0°18'20 10.06609 AU -0°02'39 8.06981 AU
min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise	3322 Oct 22 03:00 3322 Oct 22 04:17 3322 Dec 28 20:42 3323 Mar 12 12:53 3323 Apr 08 05:38  3323 Apr 25 08:37 3323 Apr 25 08:38 3323 Apr 25 07:54 3323 May 12 16:03 3323 Aug 07 23:58 3323 Aug 07 23:58 3323 Aug 26 22:20 3323 Sep 14 23:54 3323 Nov 04 10:39 3323 Nov 04 10:46 3324 Jan 10 19:25 3324 Apr 11 13:31 3324 Apr 20 13:56  3324 May 07 21:15 3324 May 07 21:15 3324 May 07 21:47 3324 May 07 21:47 3324 May 07 21:47 3324 May 25 08:51 3324 Sep 08 23:16	28°Y57'19 28°Y57'04 25°Y35'32 0°8 3°805'36 5°813'18 5°813'18 5°813'04 7°822'25 15°88 11°851'06 11°851'05 8°828'19 15°806'01 18°816'22 18°816'22 18°816'32 20°828'07 28°831'34	8.50457 AU  -2°12'26 2°12'25 10.45034 AU  -2°42'44 8.39948 AU  -2°08'50 2°08'50 10.34759 AU	opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. asc. node direct evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17 3329 Jun 30 13:18  3329 Jul 18 16:26 3329 Jul 18 16:27 3329 Jul 18 20:45 3329 Aug 05 20:20 3329 Aug 08 13:07 3329 Nov 18 21:44 3330 Jan 24 19:49 3330 Jan 24 16:08 3330 Feb 18 17:14 3330 Apr 01 17:52 3330 Aug 02 17:29 3330 Aug 02 17:29 3330 Aug 02 17:29 3330 Aug 02 17:29 3330 Aug 02 20:54 3330 Aug 02 20:44 3330 Aug 30 15:21 3330 Dec 03 04:28	20°\$17'53 20°\$18'29 16°\$50'06 24°\$58'52 27°\$19'04 27°\$19'05 27°\$20'28 29°\$39'31 0°\$\Omega\$7'\Omega\$24'59 4°\$\Omega\$24'09 4°\$\Omega\$24'54 2°\$\Omega\$28'17 0°\$\Omega\$55'42 9°\$\Omega\$06'36 11°\$\Omega\$26'45 11°\$\Omega\$26'45 11°\$\Omega\$25'51 11°\$\Omega\$28'15 13°\$\Omega\$46'45 15°\$\Omega\$28'15	8.06888 AU -0°18'20 0°18'20 10.06609 AU -0°02'39 8.06981 AU  0°14'04 0°14'04
min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise	3322 Oct 22 03:00 3322 Oct 22 04:17 3322 Dec 28 20:42 3323 Mar 12 12:53 3323 Apr 08 05:38  3323 Apr 25 08:37 3323 Apr 25 08:38 3323 Apr 25 07:54 3323 May 12 16:03 3323 Aug 07 23:58 3323 Aug 07 23:58 3323 Aug 26 22:20 3323 Sep 14 23:54 3323 Nov 04 10:39 3323 Nov 04 10:46 3324 Jan 10 19:25 3324 Apr 11 13:31 3324 Apr 20 13:56  3324 May 07 21:13 3324 May 07 21:15 3324 May 07 21:15 3324 May 07 21:47 3324 May 07 21:47	28°Y57'19 28°Y57'04 25°Y35'32 0°B 3°B05'36 5°B13'18 5°B13'04 7°B22'25 15°B 15°B18'30 15°RB 11°B51'06 228'19 15°B 16°B06'01 18°B16'22 18°B16'32 20°B28'07 28°B31'34 25°B03'18	8.50457 AU  -2°12'26 2°12'25 10.45034 AU  -2°42'44 8.39948 AU  -2°08'50 2°08'50 10.34759 AU	opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. asc. node direct evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise	3329 Jan 10 17:28 3329 Jan 10 14:30 3329 Mar 18 10:17 3329 Jun 30 13:18  3329 Jul 18 16:26 3329 Jul 18 16:27 3329 Jul 18 20:45 3329 Aug 05 20:20 3329 Aug 08 13:07 3329 Nov 18 21:44 3330 Jan 24 19:49 3330 Jan 24 16:08 3330 Feb 18 17:14 3330 Apr 01 17:52 3330 Aug 02 17:29 3330 Aug 02 17:29 3330 Aug 02 17:29 3330 Aug 02 12:08 3330 Aug 02 20:54 3330 Aug 02 20:44 3330 Aug 30 15:21	20°\$17'53 20°\$18'29 16°\$50'06 24°\$58'52 27°\$19'04 27°\$19'05 27°\$20'28 29°\$39'31 0°\$\Omega\$7'\Omega\$24'54 2°\$\Omega\$28'17 0°\$\Omega\$55'42 9°\$\Omega\$06'36 11°\$\Omega\$26'45 11°\$\Omega\$26'45 11°\$\Omega\$25'39 11°\$\Omega\$25'51 11°\$\Omega\$28'15 13°\$\Omega\$46'45 15°\$\Omega\$	8.06888 AU -0°18'20 0°18'20 10.06609 AU -0°02'39 8.06981 AU  0°14'04 0°14'04 10.07963 AU

	3331 Apr 11 16:19	15°R <b>Ω</b>		opposition	3337 Apr 28 04:17	8°M36'35	2°43'05
direct	3331 Apr 16 03:18	14° <b>Ω</b> 58'54		min. Earth dist.	3337 Apr 28 03:02	8°M36'50	8.59571 AU
	3331 Apr 20 14:21	15° <b>Ω</b>		direct	3337 Jul 07 06:51	5°M10'45	
evening set	3331 Jul 30 13:18	23° <b>Ω</b> 10′08		evening set	3337 Oct 20 18:51	12°M51'28	
. ,.	2221 4 17 16 07	250 020124	0045103		222731 06 22 50	1.40 <b>W</b> , 5.6147	2010147
conjunction	3331 Aug 17 16:07	25° <b>Ω</b> 29'24	0°45'23	conjunction	3337 Nov 06 22:58	14°M56'47	2°10'47
minimum elong	3331 Aug 17 16:05	25° <b>Ω</b> 29'23	0°45'23	minimum elong	3337 Nov 06 22:59	14°M56'48	2°10'47
max. Earth dist. morning rise	3331 Aug 17 20:18	25° <b>8</b> €30′44 27° <b>Ω</b> 48′06	10.11634 AU	max. Earth dist.	3337 Nov 06 23:56 3337 Nov 07 09:27	14°1163703	10.64575 AU
morning rise	3331 Sep 04 17:04 3331 Sep 22 15:58	0° Mp		morning rise	3337 Nov 07 09.27 3337 Nov 23 22:35	17°ML00'48	
retrograde	3331 Sep 22 13.38 3331 Dec 17 05:23	5° Mp 50'48		retrograde	3338 Mar 03 20:51	24°M18'42	
opposition	3331 Bec 17 03:23 3332 Feb 21 20:15	2° M) 24'22	1°14'39	opposition	3338 May 11 00:44	20°M58'58	2°37'13
min. Earth dist.	3332 Feb 21 17:10	2° m) 24'59	8.14278 AU	min. Earth dist.	3338 May 11 00:34	20°M58'59	8.69685 AU
iiiii. Lattii dist.	3332 Mar 25 10:16	2 m/2+3) 30°RΩ	0.14270 AU	direct	3338 Jul 20 11:26	17°M34'11	6.07003 AC
direct	3332 Apr 29 12:32	28°Ω55'23		evening set	3338 Nov 02 11:08	25°M07'05	
direct	3332 Jun 03 10:41	0° m		evening set	33301101 02 11.00	23 11007 03	
evening set	3332 Aug 13 09:42	7° Mp 05'15		conjunction	3338 Nov 19 11:53	27° <b>M</b> 10'14	2°03'20
e venning see	5552114g 15 05.12	,		minimum elong	3338 Nov 19 11:55	27°M10'15	2°03'21
conjunction	3332 Aug 31 09:59	9° m 22'55	1°13'46	max. Earth dist.	3338 Nov 19 11:42		10.74363 AU
minimum elong	3332 Aug 31 09:56	9° m 22'54	1°13'46	morning rise	3338 Dec 06 08:38	29°M12'14	10., 1505 110
max. Earth dist.	3332 Aug 31 13:18		10.17362 AU		3338 Dec 13 03:13	0° <b>∡</b> 7	
morning rise	3332 Sep 18 07:24	11° <b>m</b> )39'41		retrograde	3339 Mar 16 01:07	6° <b>х</b> 24′04	
retrograde	3332 Dec 30 00:47	19° m/35'37		opposition	3339 May 23 16:42	3° <b>₹</b> 105'05	2°24'28
opposition	3333 Mar 06 16:22	16° mp 10'21	1°47'10	min. Earth dist.	3339 May 23 17:23	3° <b>х</b> 04'58	8.79024 AU
min. Earth dist.	3333 Mar 06 14:14	16° <b>m</b> ) 10'47	8.20974 AU		3339 Jul 13 22:04	30°RM₊	
direct	3333 May 13 19:40	12° m/41'32		direct	3339 Aug 02 11:12	29°M41'24	
evening set	3333 Aug 28 00:22	20° m 48'16			3339 Aug 21 22:16	0° <b>∡</b> 7	
C	C	-		evening set	3339 Nov 14 18:32	7° <b>∡</b> ¹06'47	
conjunction	3333 Sep 14 21:02	23° m 03'47	1°37'35	Č			
minimum elong	3333 Sep 14 20:59	23° m 03'46	1°37'34	conjunction	3339 Dec 01 16:33	9° <b>₰</b> 08'06	1°50'36
max. Earth dist.	3333 Sep 14 23:10	23° Mp 04'28	10.24895 AU	minimum elong	3339 Dec 01 16:35	9° <b>∡</b> 08'07	1°50'36
morning rise	3333 Oct 02 14:10	25° Mp 18'10		max. Earth dist.	3339 Dec 01 15:21	9° <b>₰</b> 07'44	10.83182 AU
	3333 Nov 13 07:15	0∘ <b>亚</b>		morning rise	3339 Dec 18 11:14	11° <b>₰</b> 08'25	
retrograde	3334 Jan 12 13:42	3° <b>≏</b> 06'34		retrograde	3340 Mar 27 02:05	18° <b>≯</b> 15′23	
	3334 Mar 16 17:31	30°R, Mp		opposition	3340 Jun 04 04:30	14° <b>₰</b> 56'58	2°05'45
opposition	3334 Mar 20 08:35	29° <b>m</b> 42'31	2°13'05	min. Earth dist.	3340 Jun 04 05:18	14° <b>₰</b> 56'49	8.87198 AU
min. Earth dist.	3334 Mar 20 07:04	29° <b>m</b> 42'49	8.29313 AU	direct	3340 Aug 14 04:05	11° <b>渘</b> ³34′22	
direct	3334 May 27 23:54	26° Mp 14′09		evening set	3340 Nov 25 18:37	18° <b>≯</b> 52'55	
	3334 Aug 04 17:41	0∘ <b>ত</b>					
evening set	3334 Sep 11 07:30	4° <b>≙</b> 16'05		conjunction	3340 Dec 12 14:38	20° <b>₹</b> 52'46	1°33'22
				minimum elong	3340 Dec 12 14:40	20° <b>҂</b> 52'46	1°33'22
conjunction	3334 Sep 28 23:53	6° <b>£</b> 29'04	1°55'38	max. Earth dist.	3340 Dec 12 13:19		10.90672 AU
minimum elong	3334 Sep 28 23:50	6° <b>£</b> 29'03	1°55'38	morning rise	3340 Dec 29 07:45	22° <b>尽</b> 51'47	
max. Earth dist.	3334 Sep 29 01:05		10.33870 AU	retrograde	3341 Apr 08 00:08	29° <b>₹</b> 55'10	
morning rise	3334 Oct 16 12:17	8° <b>≙</b> 40'48		opposition	3341 Jun 16 12:43	26° <b>₹</b> 37'06	1°42'09
retrograde	3335 Jan 25 18:51	16° <b>≙</b> 21'14		min. Earth dist.	3341 Jun 16 13:16	26° <b>₹</b> 37'00	8.93877 AU
opposition	3335 Apr 02 20:08	12° <b>£</b> 58'25		direct	3341 Aug 26 15:01	23° <b>₹</b> 15'34	
min. Earth dist.	3335 Apr 02 18:44	12° <b>£</b> 58'42	8.38865 AU		3341 Dec 03 11:07	0°る	
direct	3335 Jun 11 00:38	9° <b>£</b> 30'43		evening set	3341 Dec 07 12:49	0° <b>る</b> 28'14	
evening set	3335 Sep 25 05:21	17° <b>£</b> 26′26			2241 D 24 07 10	20/20/150	1012121
aoniumatiam	2225 Oat 12 17:22	10002646	2°07'16	conjunction minimum elong	3341 Dec 24 07:19	2°る26'58 2°る26'58	1°12'31 1°12'31
conjunction	3335 Oct 12 17:22	19° <b>£</b> 36'46		max. Earth dist.	3341 Dec 24 07:21		10.96532 AU
minimum elong max. Earth dist.	3335 Oct 12 17:20 3335 Oct 12 18:19	19° <b>£</b> 36'46	2 07 13 10.43825 AU		3341 Dec 24 06:17 3342 Jan 09 23:23	4°る25'03	10.90332 AU
morning rise	3335 Oct 12 18.19 3335 Oct 30 01:03	19 <b>≗</b> 37 04 21° <b>≗</b> 45'46	10.43623 AU	morning rise retrograde	3342 Apr 19 22:28	4 82303 11° <b>8</b> 26'16	
•		21 <b>2</b> 43 46 29° <b>2</b> 18'17		•	3342 Apr 19 22.28 3342 Jun 28 18:42	8° <b>る</b> 08'25	1°14'43
retrograde opposition	3336 Feb 07 17:08 3336 Apr 15 02:47	25° <b>£</b> 56'35	2°41'15	opposition min. Earth dist.	3342 Jun 28 19:42	8° <b>る</b> 08'14	8.98811 AU
min. Earth dist.	3336 Apr 15 01:13	25° <b>£</b> 56'54	8.49129 AU	direct	3342 Sep 07 20:59	4°る47'52	5.76611 AU
direct	3336 Jun 23 19:35	23° <b>⊆</b> 30'34 22° <b>⊆</b> 29'46	5.77127 AU	evening set	3342 Sep 07 20:39 3342 Dec 19 02:38	11°る55'44	
ance	3336 Oct 05 04:35	0° <b>M</b>		evening set	3372 DCC 17 02.30	11 033 44	
evening set	3336 Oct 03 04.33 3336 Oct 07 17:02	0°ML18'14		conjunction	3343 Jan 04 19:52	13° <b>る</b> 53'42	0°48'56
J. Ching Set	3330 300 07 17.02	0 HU1014		minimum elong	3343 Jan 04 19:54	13°る53'42	
conjunction	3336 Oct 25 00:56	2°M25'58	2°12'15	max. Earth dist.	3343 Jan 04 18:08		11.00545 AU
minimum elong	3336 Oct 25 00:55	2°M25'58	2°12'15	morning rise	3343 Jan 21 11:30	15° <b>ප්</b> 51'14	,
max. Earth dist.	3336 Oct 25 00:35		10.54236 AU	retrograde	3343 May 01 17:54	22° <b>ප</b> 51'47	
morning rise	3336 Nov 11 04:16	4°MJ32'21		opposition	3343 Jul 10 23:10	19° <b>ප</b> 33'54	0°44'34
retrograde	3337 Feb 19 10:20	11°ML57'15		min. Earth dist.	3343 Jul 11 01:04	19° <b>る</b> 33'33	9.01826 AU

morning rise	3355 Jun 16 14:12	11° <b>Ⅲ</b> 25′01			3361 Aug 01 02:51	0° <b>m</b>	
retrograde	3355 Oct 01 04:45	19° <b>Ⅲ</b> 35′28		evening set	3361 Aug 06 16:53	0°Mp41'54	
opposition	3355 Dec 08 12:03	16° <b>Ⅱ</b> 06'36			2261 1 24 10 26	201 00122	1000125
min. Earth dist.	3355 Dec 08 11:13	16° <b>Ⅱ</b> 06'46	8.19069 AU	conjunction	3361 Aug 24 18:36	3° Mp 00'32	1°00'37
direct	3356 Feb 13 05:09	12° <b>П</b> 41'12 20° <b>П</b> 36'17		minimum elong max. Earth dist.	3361 Aug 24 18:33	3°Mp00'31	1°00'36 10.13122 AU
evening set	3356 May 25 11:29	20°Щ30°17		max. Earth dist.	3361 Aug 24 21:31 3361 Sep 11 18:07	5° My 18'28	10.13122 AU
conjunction	3356 Jun 12 06:36	22° <b>II</b> 52'47	_1°20'17	retrograde	3361 Dec 23 19:13	13°M) 18'05	
minimum elong	3356 Jun 12 06:40	22° <b>I</b> 52'48	1°29'17	opposition	3362 Feb 28 11:33	9° mp 51'39	1°32'17
max. Earth dist.	3356 Jun 12 08:11		10.15451 AU	min. Earth dist.	3362 Feb 28 08:35	9° mp 52'15	8.16283 AU
morning rise	3356 Jun 30 04:58	25° <b>I</b> 10'22	10.10 101110	direct	3362 May 07 10:21	6° m 22'10	0.10203110
5 5	3356 Aug 11 11:12	0°ಲಾ		evening set	3362 Aug 21 10:29	14° <b>m</b> ) 30'51	
retrograde	3356 Oct 14 14:10	3° <b>5</b> 24'07		Č	Č	•	
	3356 Dec 20 09:08	30°RⅡ		conjunction	3362 Sep 08 09:11	16° <b>m</b> 47'35	1°26'47
opposition	3356 Dec 21 10:12	29° <b>∏</b> 54'52	-1°35'38	minimum elong	3362 Sep 08 09:08	16° <b>™</b> 47'34	1°26'46
min. Earth dist.	3356 Dec 21 08:30	29° <b>Ⅱ</b> 55′13	8.12479 AU	max. Earth dist.	3362 Sep 08 12:30	16°Mp48'39	10.19866 AU
direct	3357 Feb 26 00:45	26° <b>Ⅱ</b> 28'15		morning rise	3362 Sep 26 04:35	19° <b>m</b> 03'18	
	3357 May 01 05:38	$0$ $\circ$ $\odot$		retrograde	3363 Jan 06 11:55	26° <b>m</b> 55'40	
evening set	3357 Jun 09 00:51	4° <b>5</b> 29'35		opposition	3363 Mar 14 05:33	23° <b>m</b> 30'28	2°01'32
				min. Earth dist.	3363 Mar 14 02:27	23°My31'06	8.23990 AU
conjunction	3357 Jun 27 00:03	6° <b>5</b> 48'04	-1°03'21	direct	3363 May 21 15:34	20° Mp 01'24	
minimum elong	3357 Jun 27 00:05		1°03'21	evening set	3363 Sep 04 21:15	28°Mp06'00	
max. Earth dist.	3357 Jun 27 02:16		10.09980 AU		3363 Sep 19 23:48	0∘ <b>⊽</b>	
morning rise	3357 Jul 15 01:39	9° <b>©</b> 07'21					
retrograde	3357 Oct 29 01:31	17° <b>©</b> 22'15		conjunction	3363 Sep 22 15:58	0° <b>£</b> 20'21	1°47'42
opposition	3358 Jan 04 10:48	13°952'59		minimum elong	3363 Sep 22 15:55	0° <b>£</b> 20′20	1°47'41
min. Earth dist.	3358 Jan 04 08:46	13°953'24	8.08152 AU	max. Earth dist.	3363 Sep 22 19:24		10.28370 AU
direct	3358 Mar 12 01:51	10°525'15		morning rise	3363 Oct 10 06:37	2° <b>£</b> 33'29	
evening set	3358 Jun 23 20:14	18° <b>©</b> 31'35		retrograde	3364 Jan 19 21:23	10° <b>£</b> 18'03	2022121
conjunction	3358 Jul 11 22:22	20° <b>©</b> 51'23	0022127	opposition min. Earth dist.	3364 Mar 26 19:22 3364 Mar 26 16:50	6° <b>£</b> 54'12 6° <b>£</b> 54'42	8.33226 AU
minimum elong	3358 Jul 11 22:24	20°951'23	0°33'27	direct	3364 Jun 03 17:19	3° <b>Ω</b> 25'49	6.33220 AU
max. Earth dist.	3358 Jul 11 22:24 3358 Jul 12 00:37		10.06915 AU	evening set	3364 Sep 17 23:36	11° <b>£</b> 24'50	
morning rise	3358 Jul 30 01:56	23°5511'38	10.00715710	evening sec	3301 Sep 17 23.30	11 -2:50	
morning rise	3358 Oct 03 12:00	0° <b>Ω</b>		conjunction	3364 Oct 05 13:53	13° <b>ჲ</b> 36'33	2°02'27
retrograde	3358 Nov 12 11:38	1° <b>Ω</b> 25'27		minimum elong	3364 Oct 05 13:51	13° <b>Ω</b> 36'33	2°02'26
	3358 Dec 22 18:11	30° <b>₹</b> 5		max. Earth dist.	3364 Oct 05 16:38	13° <b>≏</b> 37'25	10.38156 AU
opposition	3359 Jan 18 12:25	27° <b>©</b> 56'29	-0°21'52	morning rise	3364 Oct 22 23:47	15° <b>≏</b> 46'58	
min. Earth dist.	3359 Jan 18 10:34	27° <b>©</b> 56'52	8.06349 AU	retrograde	3365 Jan 31 23:17	23° <b>≏</b> 23'31	
direct	3359 Mar 26 07:46	24° <b>5</b> 27'51		opposition	3365 Apr 09 04:20	20° <b>≙</b> 01'03	2°37'26
	3359 Jun 17 06:56	$0^{\circ}\Omega$		min. Earth dist.	3365 Apr 09 02:38	20° <b>ჲ</b> 01'23	8.43478 AU
evening set	3359 Jul 08 19:13	2° <b>Ω</b> 37'38		direct	3365 Jun 17 14:15	16° <b>≏</b> 33'36	
				evening set	3365 Oct 01 16:27	24° <b>≏</b> 25'54	
conjunction	3359 Jul 26 22:47	4° <b>Ω</b> 57'54					
minimum elong	3359 Jul 26 22:49	4° <b>Ω</b> 57'54	0°01'29	conjunction	3365 Oct 19 02:18	26° <b>≏</b> 34'58	
behind sun begin	3359 Jul 26 15:27	4° <b>Ω</b> 55'32		minimum elong	3365 Oct 19 02:17	26° <b>≙</b> 34'57	2°10'36
behind sun end	3359 Jul 27 06:11	5° <b>Ω</b> 00'16	10.06400 477	max. Earth dist.	3365 Oct 19 03:56		10.48690 AU
max. Earth dist.	3359 Jul 27 01:02		10.06432 AU	morning rise	3365 Nov 05 07:47	28° <b>Ω</b> 42'40	
asc. node	3359 Aug 12 16:48	7° <b>Ω</b> 07'28 7° <b>Ω</b> 18'14			3365 Nov 16 02:14 3366 Feb 13 19:01	0°M	
morning rise	3359 Aug 14 02:41 3359 Nov 03 21:45	73€1814 15°Ω		retrograde opposition	3366 Apr 22 08:25	6°M11'25 2°M50'15	2°43'05
retrograde	3359 Nov 05 21:45 3359 Nov 26 18:44	15° <b>Ω</b> 28'57		min. Earth dist.	3366 Apr 22 07:16	2°M50'28	8.54190 AU
retrograde	3359 Dec 19 16:00	15 <b>°</b> ℓ26 5 /		mm. Lattii dist.	3366 Jun 04 06:27	2 11030 28 30°R <b>Ω</b>	6.54190 AU
opposition	3360 Feb 01 14:01	12°Ω00'35	0°18'20	direct	3366 Jul 01 05:14	29° <b>£</b> 23'55	
min. Earth dist.	3360 Feb 01 12:01	12° <b>Ω</b> 01'00	8.07172 AU	direct	3366 Jul 28 01:12	0°M	
direct	3360 Apr 08 17:07	8° <b>Ω</b> 31'21	0.07172110	evening set	3366 Oct 14 23:20	7°M08'44	
	3360 Jul 08 23:13	15° <b>Ω</b>		<b>5</b>			
evening set	3360 Jul 22 18:55	16° <b>Ω</b> 42'42		conjunction	3366 Nov 01 05:06	9° <b>™</b> 15'15	2°12'09
-				minimum elong	3366 Nov 01 05:07	9°M15'16	2°12'09
conjunction	3360 Aug 09 22:20	19° <b>Ω</b> 02'33	0°30'37	max. Earth dist.	3366 Nov 01 05:54	9°M15'30	10.59423 AU
minimum elong	3360 Aug 09 22:18	19° <b>Ω</b> 02'33	0°30'37	morning rise	3366 Nov 18 06:38	11°M20'27	
max. Earth dist.	3360 Aug 10 00:53	19° <b>Ω</b> 03′23	10.08547 AU		3366 Dec 20 23:21	15°M	
morning rise	3360 Aug 28 00:47	21° <b>Ω</b> 22'05		retrograde	3367 Feb 26 07:50	18°M41'55	
retrograde	3360 Dec 09 20:55	29° <b>Ω</b> 27'57		opposition	3367 May 05 07:32	15°M21'54	2°40'47
opposition	3361 Feb 14 14:08	26° <b>Ω</b> 00′28	0°57'12	min. Earth dist.	3367 May 05 06:14	15°M22'09	8.64826 AU
min. Earth dist.	3361 Feb 14 11:40	26° <b>Ω</b> 00'58	8.10558 AU		3367 May 10 01:16	15°RM	
direct	3361 Apr 23 02:42	22° <b>Ω</b> 30′56		direct	3367 Jul 14 14:29	11°M56'49	

	3367 Sep 15 08:21	15°M		evening set	3374 Jan 05 01:59	29° <b>පි</b> 38'41	
evening set	3367 Oct 27 20:26	19° <b>M</b> .33'49			3374 Jan 08 03:24	0°≈	
conjunction	3367 Nov 13 22:46	21°MJ38'01	2°07'27	conjunction	3374 Jan 21 18:08	1° <b>≈</b> 36′10	0°09'35
minimum elong	3367 Nov 13 22:47	21°MJ38'01	2°07'28	minimum elong	3374 Jan 21 18:09	1° <b>≈</b> 36'10	0°09'36
max. Earth dist.	3367 Nov 13 23:39	21°ML38'17	10.69843 AU	behind sun begin	3374 Jan 21 12:20	1° <b>≈</b> 34'29	
morning rise	3367 Nov 30 20:56	23°M41'00		behind sun end	3374 Jan 21 23:57	1° <b>≈</b> 37'52	
	3368 Feb 05 19:46	0° <b>∡</b> ¹		max. Earth dist.	3374 Jan 21 14:45	1° <b>≈</b> 35'11	11.02714 AU
retrograde	3368 Mar 09 16:20	0° <b>≯</b> 55'58		morning rise	3374 Feb 07 09:52	3° <b>≈</b> 33'35	
	3368 Apr 12 04:39	30°RM₊		retrograde	3374 May 19 11:40	10° <b>≈</b> 36′22	
opposition	3368 May 17 01:56	27°M36'55	2°31'10	desc. node	3374 Jun 06 21:21	10° <b>≈</b> 19'59	
min. Earth dist.	3368 May 17 00:47	27°M37'09	8.74894 AU	opposition	3374 Jul 29 00:22	7° <b>≈</b> 18'11	-0°04'28
direct	3368 Jul 26 17:13	24°M13'05		min. Earth dist.	3374 Jul 29 03:30	7°≈17'36	9.02175 AU
	3368 Oct 24 13:09	0°⊀		direct	3374 Oct 07 15:37	3°≈59'27	
evening set	3368 Nov 08 08:24	1° <b>∡</b> 42′20		evening set	3375 Jan 16 12:32	11° <b>≈</b> 01'37	
conjunction	3368 Nov 25 07:53	3° <b>∡</b> ⁴44'33	1°57'08	conjunction	3375 Feb 02 04:16	12°≈59'12	
minimum elong	3368 Nov 25 07:54	3° <b>х</b> ⁴44'34	1°57'08	minimum elong	3375 Feb 02 04:15	12°≈59'12	
max. Earth dist.	3368 Nov 25 08:42		10.79470 AU	max. Earth dist.	3375 Feb 01 23:58		11.01116 AU
morning rise	3368 Dec 12 03:26	5° <b>∡</b> ¹45'39 −		morning rise	3375 Feb 18 20:37	14° <b>≈</b> 56'57	
retrograde	3369 Mar 21 21:03	12° <b>≯</b> 55'05			3375 Feb 19 07:07	15° <b>≈</b>	
opposition	3369 May 29 16:05	9° <b>∡</b> 36'51	2°15'08	retrograde	3375 May 31 11:12	22° <b>≈</b> 02'55	
min. Earth dist.	3369 May 29 15:51	9° <b>∡</b> ³36'53	8.83936 AU	opposition	3375 Aug 10 05:34	18° <b>≈</b> 43'55	
direct	3369 Aug 08 11:39	6° <b>≯</b> 14'13		min. Earth dist.	3375 Aug 10 09:03	18° <b>≈</b> 43'17	8.99543 AU
evening set	3369 Nov 20 12:35	13° <b>∡</b> ³36′12		direct	3375 Oct 19 13:53	15°≈25'20	
				evening set	3376 Jan 28 00:15	22° <b>≈</b> 27'37	
conjunction	3369 Dec 07 09:35	15° 🗷 36'45	1°41'54		225651 12 16 05	240 25125	00.40140
minimum elong	3369 Dec 07 09:37	15° <b>₹</b> 36'45	1°41'54	conjunction	3376 Feb 13 16:05	24°≈25'37	
max. Earth dist.	3369 Dec 07 09:18		10.87863 AU	minimum elong	3376 Feb 13 16:03	24°≈25'36	
morning rise	3369 Dec 24 03:18	17° <b>₹</b> 36'21		max. Earth dist.	3376 Feb 13 12:06		10.97471 AU
retrograde	3370 Apr 02 19:53	24° 🖈 41'27	1052141	morning rise	3376 Mar 01 09:13	26°≈24'01	
opposition	3370 Jun 11 02:33	21° 🗷 23'45	1°53'41		3376 Apr 03 20:40	0° <b>∺</b> 3° <b>∺</b> 34'31	
min. Earth dist. direct	3370 Jun 11 03:40	21° <b>х</b> 23'33 18° <b>х</b> 02'12	8.91547 AU	retrograde opposition	3376 Jun 11 16:31	0° <b> <del>+</del></b> 14'30	1907122
evening set	3370 Aug 21 01:51 3370 Dec 02 10:04	25° 🖈 17'46		min. Earth dist.	3376 Aug 21 12:07 3376 Aug 21 15:04		8.94937 AU
evening set	3370 Dec 02 10.04	23 X 1/40		IIIII. Eartii tist.	3376 Aug 24 18:11	0 <b>/</b> (1337 30°R <b>≈</b>	6.94937 AU
conjunction	3370 Dec 19 05:06	27° <b>∡</b> 16'58	1°22'39	direct	3376 Oct 30 13:09	26°≈55'50	
minimum elong	3370 Dec 19 05:09	27° × 16'59	1°22'38	uncet	3377 Jan 01 00:42	0° <b>₩</b>	
max. Earth dist.	3370 Dec 19 03:09		10.94646 AU	evening set	3377 Feb 07 14:39	3° <b>¥</b> 59'38	
morning rise	3371 Jan 04 21:43	29°×15'28	10.54040710	evening set	3377100 07 14.37	3 7(3) 30	
morning rise	3371 Jan 11 08:02	0°ਰ		conjunction	3377 Feb 24 06:58	5° <b>)</b> 58′24	-1°07'01
retrograde	3371 Apr 14 17:37	6° <b>ට</b> 17'41		minimum elong	3377 Feb 24 06:56	5° <b>)</b> 58′24	
opposition	3371 Jun 23 10:06	3° <b>ට</b> 00'15	1°27'55	max. Earth dist.	3377 Feb 24 03:53		10.91918 AU
min. Earth dist.	3371 Jun 23 11:46	2° <b>ප</b> 59'56	8.97372 AU	morning rise	3377 Mar 13 01:08	7° <b>)</b> 57'48	
	3371 Aug 12 20:05	30°₽ <b>⋌</b> ¹		retrograde	3377 Jun 24 02:21	15° <b>∺</b> 14'05	
direct	3371 Sep 02 11:53	29° <b>∡</b> ³39'40		opposition	3377 Sep 02 21:22	11° <b>∺</b> 52'54	-1°36'05
	3371 Sep 22 22:27	0°ರ		min. Earth dist.	3377 Sep 02 23:36	11° <b>∺</b> 52′29	8.88530 AU
evening set	3371 Dec 14 02:11	6° <b>ප</b> 49'51		direct	3377 Nov 11 11:34	8° <b>)</b> 33′59	
				evening set	3378 Feb 19 09:03	15° <b>)</b> 40′40	
conjunction	3371 Dec 30 19:56	8°₹48'09	1°00'13				
minimum elong	3371 Dec 30 19:58	8° <b>ප</b> 48'09	1°00'13	conjunction	3378 Mar 08 02:08	17° <b>¥</b> 40′32	-1°28'51
max. Earth dist.	3371 Dec 30 17:29		10.99487 AU	minimum elong	3378 Mar 08 02:06	17° <b>∺</b> 40'31	1°28'52
morning rise	3372 Jan 16 11:51	10° <b>る</b> 45'54		max. Earth dist.	3378 Mar 07 22:59	17° <b>∺</b> 39'35	10.84674 AU
retrograde	3372 Apr 25 14:41	17° <b>る</b> 46'47		morning rise	3378 Mar 24 21:54	19° <b>)</b> 41′14	
opposition	3372 Jul 04 15:32	14° <b>る</b> 29'21	0°58'54	retrograde	3378 Jul 06 17:19	27° <b>)</b> €04′26	
min. Earth dist.	3372 Jul 04 17:20	14° <b>る</b> 29'01	9.01132 AU	opposition	3378 Sep 15 10:03	23° <b>)</b> 41′59	-2°01'04
direct	3372 Sep 13 16:02	11° <b>る</b> 09'37		min. Earth dist.	3378 Sep 15 12:16	23° <b>)</b> 41′34	8.80569 AU
evening set	3372 Dec 24 14:58	18° <b>る</b> 15'46		direct evening set	3378 Nov 23 13:15 3379 Mar 03 09:01	20° <b>升</b> 22'36 27° <b>升</b> 33'30	
conjunction	3373 Jan 10 07:50	20° <b>る</b> 13'29	0°35'33	evening set	JJ IVIAI UJ UY:UI	Δ1 <b>π33</b> 30	
minimum elong	3373 Jan 10 07:52	20 31329 20° <b>3</b> 13'30		conjunction	3379 Mar 20 03:27	29° <b>升</b> 34'49	-1°47'14
max. Earth dist.	3373 Jan 10 07.32		0 33 33 11.02186 AU	minimum elong	3379 Mar 20 03:25	29° <del>X</del> 34'48	
morning rise	3373 Jan 26 23:24	20 31244 22° <b>3</b> 10'53	11.02100 AU	max. Earth dist.	3379 Mar 19 23:59		1 47 14 10.76022 AU
retrograde	3373 May 07 12:28	22 01033 29° <b>る</b> 11'59		max. Larui dist.	3379 Mar 23 14:26	29 <b>γ</b> (33 40	10.70022 AU
opposition	3373 Jul 16 19:52	29 <b>3</b> 1139 25° <b>3</b> 54'18	0°27'44	morning rise	3379 Apr 06 01:24	1° <b>Υ</b> 37'11	
min. Earth dist.	3373 Jul 16 19:32 3373 Jul 16 22:03	25° <b>る</b> 53'54		retrograde	3379 Jul 19 14:20	9° <b>Υ</b> 08'07	
direct	3373 Sep 25 17:15	23° <b>ප</b> 35'12	2.02/20/10	opposition	3379 Sep 28 02:38	5° <b>Υ</b> 44'22	-2°21'18
	32.2 20p 20 17.10			-11	20p 20 02.00		

· E 4 1:4	2270 9 20 05 02	500042155	0.71260 ATT	1	2205 0 4 00 11 27	270 <b>T</b> 24110	
min. Earth dist.	3379 Sep 28 05:03	5° <b>Υ</b> 43'55 2° <b>Υ</b> 24'19	8.71360 AU	retrograde	3385 Oct 08 11:27	27° <b>II</b> 24'19	1040122
direct	3379 Dec 05 18:08 3380 Mar 14 15:36	2° γ 24°19 9° <b>γ</b> 40'39		opposition min. Earth dist.	3385 Dec 15 12:38 3385 Dec 15 11:11	23° <b>∏</b> 55'09	8.14492 AU
evening set	3380 Mai 14 13.30	9 1 40 39		direct	3386 Feb 20 03:21	20° <b>I</b> I29'05	8.14492 AU
conjunction	3380 Mar 31 12:11	11° <b>Y</b> '43'45	2001/10	evening set	3386 Jun 02 19:37	20 H2903 28°H28'19	
minimum elong	3380 Mar 31 12:11		2°01'10	evening set	3386 Jun 14 18:21	0°95	
max. Earth dist.	3380 Mar 31 12:09		10.66297 AU		3300 Juli 14 10.21	0 3	
morning rise	3380 Apr 17 12:46	13° <b>Y</b> 48'06	10.002)/ AU	conjunction	3386 Jun 20 17:02	0°546'06	-1°15'37
retrograde	3380 Jul 31 17:13	21° <b>Υ</b> 27'20		minimum elong	3386 Jun 20 17:02	0°946'07	
opposition	3380 Oct 09 23:51	18° <b>Υ</b> '02'17	_2°35'35	max. Earth dist.	3386 Jun 20 19:32		10.11681 AU
min. Earth dist.	3380 Oct		8.61265 AU	morning rise	3386 Jul 08 17:29	3°904'50	10.11001 AC
direct	3380 Dec 17 04:36	14° <b>Y</b> 41'26	6.01203 AC	retrograde	3386 Oct 22 22:41	11°920'05	
evening set	3381 Mar 27 05:48	22° <b>Υ</b> '04'10		opposition	3386 Dec 29 12:48	7°950'56	-1°17'01
evening set	3301 Wai 27 03.40	22 1 04 10		min. Earth dist.	3386 Dec 29 10:27		8.09536 AU
conjunction	3381 Apr 13 05:19	24° <b>Y</b> ′09'25	-2°09'46	direct	3387 Mar 06 03:00	4°923'55	6.07330 AC
minimum elong	3381 Apr 13 05:18		2°09'46	evening set	3387 Jun 17 13:15	12° <b>©</b> 28'40	
max. Earth dist.	3381 Apr 13 03:54		10.55895 AU	evening sec	3307 Juli 17 13.13	12 - 20 10	
morning rise	3381 Apr 30 09:01	26° <b>Υ</b> 16'01	10.55075 110	conjunction	3387 Jul 05 14:16	14°9548'03	-0°47'14
morning rise	3381 Jun 02 11:04	0°8		minimum elong	3387 Jul 05 14:18	14°948'03	
retrograde	3381 Aug 14 03:46	4° <b>8</b> 03'44		max. Earth dist.	3387 Jul 05 18:00		10.07935 AU
opposition	3381 Oct 23 02:08	0° <b>8</b> 37'26	-2°42'49	morning rise	3387 Jul 23 17:07	17°508'02	10.07,555 110
min. Earth dist.	3381 Oct 23 02:48	_	8.50718 AU	retrograde	3387 Nov 06 10:02	25°923'05	
mm. Latin dist.	3381 Oct 31 02:53	30°RY	0.50710710	opposition	3388 Jan 12 14:38	21° <b>9</b> 54'16	-0°39'34
direct	3381 Oct 31 02:53 3381 Dec 29 20:53	27° <b>Υ</b> 15'40		min. Earth dist.	3388 Jan 12 11:19	21°954'57	
direct	3382 Feb 24 15:33	0°8		direct	3388 Mar 19 07:39	18°926'26	0.07013 AC
evening set	3382 Apr 09 04:45	4° <b>8</b> 45'31		evening set	3388 Jul 01 11:31	26°935'11	
evening set	3302 Apr 07 04.43	4 04331		evening set	5500 Jul 01 11.51	20 333 11	
conjunction	3382 Apr 26 07:53	6° <b>8</b> 53'14	-2°12'16	conjunction	3388 Jul 19 14:45	28°955'22	-0°15'53
minimum elong	3382 Apr 26 07:53	6° <b>8</b> 53'14		minimum elong	3388 Jul 19 14:45	28°955'23	
max. Earth dist.	3382 Apr 26 07:27	_	10.45301 AU	max. Earth dist.	3388 Jul 19 19:22		10.06715 AU
morning rise	3382 May 13 15:22	9° <b>8</b> 02'20	10.43301 710	max. Earth dist.	3388 Jul 27 22:07	0°Ω	10.00713710
morning risc	3382 Jul 09 21:52	15° <b>8</b>		morning rise	3388 Aug 06 18:32	1° <b>Ω</b> 15'47	
retrograde	3382 Aug 27 22:59	16° <b>8</b> 58'10		retrograde	3388 Nov 19 19:38	9° <b>Ω</b> 28'27	
retrograde	3382 Oct 16 22:27	15°R <b>X</b>		asc. node	3389 Jan 22 01:55	6° <b>Ω</b> 18'07	
opposition	3382 Nov 05 09:34	13° <b>8</b> 30'46	-2°42'09	opposition	3389 Jan 25 16:59	6°Ω00'12	0°00'23
min. Earth dist.	3382 Nov 05 09:34 3382 Nov 05 09:18	13° <b>8</b> 30'49	8.40226 AU	min. Earth dist.	3389 Jan 25 13:13	6°Ω00'58	8.07077 AU
direct	3383 Jan 11 17:01	10° <b>8</b> 07'59	6.40220 AU	direct	3389 Apr 02 15:27	2° <b>Ω</b> 31'44	8.07077 AU
direct	3383 Mar 30 04:49	10 <b>8</b> 07 39		evening set	3389 Apr 02 13:27 3389 Jul 16 11:46	2 <b>∂</b> <i>t</i> 31 44 10° <b>Ω</b> 42'40	
evening set	3383 Apr 22 12:54	17° <b>8</b> 45'26		evening set	3389 Jul 10 11.40	10 6642 40	
evening set	3363 Apr 22 12.34	17 04320		conjunction	3389 Aug 03 15:33	13° <b>Ω</b> 02'47	0°16'28
conjunction	3383 May 09 20:16	19° <b>8</b> 55'45	-2°08'06	minimum elong	3389 Aug 03 15:32	13° <b>Ω</b> 02'47	0°16'28
minimum elong	3383 May 09 20:18	19° <b>8</b> 55'46		max. Earth dist.	3389 Aug 03 20:08		10.08065 AU
max. Earth dist.	3383 May 09 20:11	· . · . · ·	10.35041 AU	max. Larm dist.	3389 Aug 18 19:12	15° <b>Ω</b>	10.00003 AC
morning rise	3383 May 27 08:08	22° <b>8</b> 07'31	10.55041 AO	morning rise	3389 Aug 21 18:40	15° <b>Ω</b> 22'43	
morning rise	3383 Aug 27 16:19	0°II		retrograde	3389 Dec 04 01:35	23°Ω31'02	
retrograde	3383 Sep 10 22:56	0° <b>П</b> 10'37		opposition	3390 Feb 08 18:20	20°Ω03'35	0°40'11
retrograde	3383 Sep 10 22:30 3383 Sep 25 04:15	30°R <b>8</b>		min. Earth dist.	3390 Feb 08 15:02	20° <b>Ω</b> 03'35	8.09660 AU
opposition	3383 Nov 18 22:09	26° <b>8</b> 42'21	-2°33'00	direct	3390 Feb 08 13.02 3390 Apr 17 00:34	16° <b>Ω</b> 34'42	8.09000 AC
min. Earth dist.	3383 Nov 18 22:07		8.30322 AU	evening set	3390 Jul 31 11:28	24° <b>Ω</b> 45'56	
direct	3384 Jan 24 21:12	20 <b>8</b> 42 30 23° <b>8</b> 18'27	5.30322 AU	evening set	5570 Jul 51 11.20	47 06+330	
direct	3384 Apr 26 15:41	0°II		conjunction	3390 Aug 18 14:06	27° <b>Ω</b> 05'08	0°47'36
evening set	3384 May 05 06:24	0 Ⅱ 1°Ⅱ03'39		minimum elong	3390 Aug 18 14:04	$27^{\circ} \Omega 05'08$	0°47'36
evening set	3364 May 03 00.24	1 доз 39		max. Earth dist.	3390 Aug 18 14:04 3390 Aug 18 17:42		10.11799 AU
:	2204 M 22 10-25	20π17120	1957100		=		10.11/99 AU
conjunction	3384 May 22 18:25	3° <b>Ⅱ</b> 16'38		morning rise	3390 Sep 05 14:56	29° <b>£</b> 23'46	
minimum elong	3384 May 22 18:28	3° <b>Ⅱ</b> 16'39		. 1	3390 Sep 10 10:31	0° Mp	
max. Earth dist.	3384 May 22 18:37		10.25662 AU	retrograde	3390 Dec 18 02:48	7° Mp 26'13	1017!12
morning rise	3384 Jun 09 10:50	5° <b>∏</b> 31′01		opposition	3391 Feb 22 17:22	3° Mp 59'48	1°17'13
retrograde	3384 Sep 24 03:19	13° <b>∏</b> 40′03	2015110	min. Earth dist.	3391 Feb 22 15:00	4° Mp 00'17	8.14481 AU
opposition	3384 Dec 01 15:24	10° <b>Ⅱ</b> 11'12		direct	3391 May 01 09:31	0° Mp 30'46	
min. Earth dist.	3384 Dec 01 14:34		8.21566 AU	evening set	3391 Aug 15 07:43	8° Mp 40'34	
direct	3385 Feb 06 09:09	6° <b>∏</b> 46'11			2201.6 02.0= ::	100% 5000	1015140
evening set	3385 May 19 08:54	14° <b>∏</b> 38'46		conjunction	3391 Sep 02 07:44	10° Mp 58'08	1°15'40
	2205 1 06 01 46	1.0T 5.400	1020110	minimum elong	3391 Sep 02 07:41	10° m 58'07	
conjunction	3385 Jun 06 01:46	16° <b>∏</b> 54'20		max. Earth dist.	3391 Sep 02 10:01		10.17579 AU
minimum elong	3385 Jun 06 01:50	16° <b>∏</b> 54'21		morning rise	3391 Sep 20 05:04	13° <b>m</b> 14'50	
max. Earth dist.	3385 Jun 06 02:59		10.17714 AU	retrograde	3391 Dec 31 21:49	21° m 10'29	10.40***
morning rise	3385 Jun 23 22:33	19° <b>Ⅱ</b> 11'07		opposition	3392 Mar 07 13:26	17° <b>m</b> 45'15	1~49'16

i. Darde diet	2202 Mar. 07, 11,46	170 m 45125	0.21102 ATT		2200 M 24 14-47	40.741120	2822140
min. Earth dist.	3392 Mar 07 11:46	-	8.21193 AU	opposition	3398 May 24 14:47	4° <b>∡</b> 741'38	
direct	3392 May 14 17:32	14° Mp 16'25		min. Earth dist.	3398 May 24 15:13	4° <b>₹</b> '41'33	8.78689 AU
evening set	3392 Aug 28 22:02	22° m, 23'04		direct	3398 Aug 03 08:57	1° <b>√</b> 18′00	
				evening set	3398 Nov 15 16:15	8° <b>∡</b> ¹43'37	
conjunction	3392 Sep 15 18:27	24° <b>m</b> 38'29	1°39'04				
minimum elong	3392 Sep 15 18:24	24° <b>m</b> 38'28	1°39'03	conjunction	3398 Dec 02 14:20	10° <b>∡</b> ⁴45′01	1°49'02
max. Earth dist.	3392 Sep 15 19:50	24° Mp 38'56	10.25086 AU	minimum elong	3398 Dec 02 14:22	10° <b>∡</b> ¹45′02	1°49'02
morning rise	3392 Oct 03 11:26	26° Mp 52′48		max. Earth dist.	3398 Dec 02 13:27	10° <b>∡</b> ⁴44'45	10.82814 AU
	3392 Oct 29 20:31	0∘ <b>ত</b>		morning rise	3398 Dec 19 09:00	12° <b>∡</b> ¹45'25	
retrograde	3393 Jan 13 09:38	4° <b>₽</b> 41'03		retrograde	3399 Mar 29 00:18	19° <b>∡</b> 52'44	
opposition	3393 Mar 21 05:32	1° <b>£</b> 17'02	2°14'37	opposition	3399 Jun 06 02:57	16° <b>∡</b> ³34'18	2°03'36
min. Earth dist.	3393 Mar 21 03:53	1° <b>£</b> 17'22	8.29471 AU	min. Earth dist.	3399 Jun 06 03:05	16° <b>∡</b> ³34'17	8.86789 AU
	3393 Apr 06 14:20	30°R <b>™</b>		direct	3399 Aug 16 02:38	13° <b>∡</b> 11'46	
direct	3393 May 28 22:27	27° m) 48'42		evening set	3399 Nov 27 16:30	20° <b>х</b> 30′32	
	3393 Jul 19 05:25	0° <del>ರ</del>		evening sec	35,5,1,0,12,10,30	20 7. 3032	
evening set	3393 Sep 12 04:52	o <b>—</b> 5° <b>Ω</b> 50'36		conjunction	3399 Dec 14 12:36	22° <b>х</b> 30′27	1°31'25
evening set	5575 Sep 12 04.52	3 <b>—</b> 3030		minimum elong	3399 Dec 14 12:38	22°×30'28	1°31'25
:	2202 0 20 21-00	99 0 02122	1057120	max. Earth dist.			
conjunction	3393 Sep 29 21:08	8° <b>₾</b> 03'32			3399 Dec 14 12:09		10.90240 AU
minimum elong	3393 Sep 29 21:06	8° <b>₾</b> 03'31	1°56'37	morning rise	3399 Dec 31 05:40	24° <b>₹</b> 29'33	
max. Earth dist.	3393 Sep 29 22:21		10.33980 AU	_	3400 Feb 25 12:10	0° <b>ろ</b>	
morning rise	3393 Oct 17 09:20	10° <b>≙</b> 15'12		retrograde	3400 Apr 10 00:13	1° <b>る</b> 33'19	
retrograde	3394 Jan 26 15:17	17° <b>≏</b> 55'39			3400 May 24 20:41	30°Ŗ <b>⋌</b> 7	
opposition	3394 Apr 03 17:05	14° <b>≙</b> 32'51	2°32'11	opposition	3400 Jun 18 11:39	28° <b>∡</b> 15'15	1°39'33
min. Earth dist.	3394 Apr 03 15:21	14° <b>≏</b> 33'12	8.38921 AU	min. Earth dist.	3400 Jun 18 12:11	28° <b>∡</b> 15′09	8.93420 AU
direct	3394 Jun 11 22:14	11° <b>≏</b> 05'13		direct	3400 Aug 28 13:28	24° <b>∡</b> ¹53'44	
evening set	3394 Sep 26 02:39	19° <b>≙</b> 00'59			3400 Nov 20 15:41	0°る	
	-			evening set	3400 Dec 09 10:54	2° <b>る</b> 06'34	
conjunction	3394 Oct 13 14:37	21° <b>≏</b> 11'18	2°07'44	•			
minimum elong	3394 Oct 13 14:36	21° <b>≏</b> 11'18	2°07'43	conjunction	3400 Dec 26 05:23	4° <b>る</b> 05'23	1°10'15
max. Earth dist.	3394 Oct 13 16:01		10.43824 AU	minimum elong	3400 Dec 26 05:25	4° <b>る</b> 05'24	1°10'15
morning rise	3394 Oct 30 22:02	23° <b>£</b> 20'15	10.13021110	max. Earth dist.	3400 Dec 26 04:15	4°る05'03	10.96061 AU
morning risc	3395 Jan 08 05:28	0°M		morning rise	3401 Jan 11 21:33	6°る03'34	10.70001 AC
ratra ara da		0°M52'52		•	3401 Apr 21 20:51	13° <b>る</b> 05'09	
retrograde	3395 Feb 08 15:46			retrograde	=		1011140
	3395 Mar 12 11:45	30° <b>₹</b> Ω	2041120	opposition	3401 Jun 30 17:56	9° <b>3</b> 47'15	1°11'48
opposition	3395 Apr 16 23:58	27° <b>£</b> 31'14		min. Earth dist.	3401 Jun 30 19:23	9° <b>⋜</b> 46'59	8.98329 AU
min. Earth dist.	3395 Apr 16 22:32	27° <b>≏</b> 31'31	8.49069 AU	direct	3401 Sep 09 18:11	6° <b>පි</b> 26'41	
direct	3395 Jun 25 15:20	24° <b>≏</b> 04'29		evening set	3401 Dec 21 00:58	13° <b>る</b> 34'45	
	3395 Sep 23 14:41	0° <b>M</b>					
evening set	3395 Oct 09 14:25	1°ML53'04		conjunction	3402 Jan 06 18:08	15° <b>る</b> 32'46	0°46'27
				minimum elong	3402 Jan 06 18:10	15° <b>る</b> 32'47	0°46'27
conjunction	3395 Oct 26 22:11	4°ML00'49	2°12'10	max. Earth dist.	3402 Jan 06 15:56	15° <b>る</b> 32'07	11.00058 AU
minimum elong	3395 Oct 26 22:10	4°M00'49	2°12'10	morning rise	3402 Jan 23 09:57	17° <b>る</b> 30'24	
max. Earth dist.	3395 Oct 26 23:27	4°ML01'13	10.54120 AU	retrograde	3402 May 03 16:32	24° <b>る</b> 31'20	
morning rise	3395 Nov 13 01:18	6°ML07'12		opposition	3402 Jul 12 22:35	21° <b>る</b> 13'22	0°41'26
retrograde	3396 Feb 21 07:51	13°MJ32'17		min. Earth dist.	3402 Jul 13 00:24	21° <b>る</b> 13'02	9.01337 AU
opposition	3396 Apr 29 01:50	10°ML11'42	2°42'40	direct	3402 Sep 21 22:00	17° <b>る</b> 53'36	
min. Earth dist.	3396 Apr 29 01:19	10°ML11'48	8.59405 AU	evening set	3403 Jan 01 12:14	24° <b>る</b> 58'11	
direct	3396 Jul 08 03:39	6°M45'56	0.57 105 110	evening sec	3103 Juli 01 12.11	21 03011	
evening set	3396 Oct 21 16:19	14°M26'51		conjunction	3403 Jan 18 04:38	26° <b>る</b> 55'46	0°20'57
evening set	3396 Oct 26 06:17	15°M		minimum elong	3403 Jan 18 04:39	26°る55'46	0°20'58
	3390 Oct 20 00.17	13 116		Č			
	220631 07 20 14	1.60 <b>m</b> 2.2111	2010110	max. Earth dist.	3403 Jan 18 02:23		11.02086 AU
conjunction	3396 Nov 07 20:14	16°M32'11		morning rise	3403 Feb 03 20:24	28°る53'10	
minimum elong	3396 Nov 07 20:15	16°M32'12			3403 Feb 13 15:11	0° <b>≈</b>	
max. Earth dist.	3396 Nov 07 20:29		10.64362 AU	retrograde	3403 May 15 14:44	5° <b>≈</b> 54'56	
morning rise	3396 Nov 24 19:52	18°MJ36'15		opposition	3403 Jul 25 02:29	2° <b>≈</b> 36'41	0°09'35
retrograde	3397 Mar 04 17:49	25°M54'25		min. Earth dist.	3403 Jul 25 03:44	2° <b>≈</b> 36′27	9.02334 AU
opposition	3397 May 11 22:34	22°M34'45	2°36'10		3403 Sep 03 20:27	30°Ŗ₹	
min. Earth dist.	3397 May 11 22:56	22°M34'40	8.69432 AU	direct	3403 Oct 03 21:51	29° <b>る</b> 17'34	
direct	3397 Jul 21 09:52	19° <b>M</b> .10'01			3403 Nov 02 10:10	0° <b>≈</b>	
evening set	3397 Nov 03 08:41	26°M43'10		desc. node	3403 Nov 14 01:41	0° <b>≈</b> 38'54	
				evening set	3404 Jan 12 22:18	6°≈19'59	
conjunction	3397 Nov 20 09:21	28°M46'22	2°02'13	o, oming bet	5.0.0an 12 22.10	5 . 4 . 1 / 5 /	
minimum elong	3397 Nov 20 09:21 3397 Nov 20 09:22	28°M46'22	2°02'14	conjunction	3404 Jan 29 14:20	8° <b>≈</b> 17'28	-0°05'26
max. Earth dist.	3397 Nov 20 09.22 3397 Nov 20 08:27		2 02 14 10.74070 AU	minimum elong	3404 Jan 29 14:20	8°≈17'28	0°05'25
max. Earm UISt.			10.74070 AU	-			0 05 25
	3397 Nov 30 12:28	0°×7		behind sun begin	3404 Jan 29 07:36	8°≈15'30	
morning rise	3397 Dec 07 06:12	0° <b>₹</b> 48'25		behind sun end	3404 Jan 29 21:04	8°≈19'26	11.000000
retrograde	3398 Mar 16 23:16	8° <b>≯</b> 00'35		max. Earth dist.	3404 Jan 29 12:49	8°≈17'03	11.02061 AU

	240451 45 06 10	100 15100			24124 25 22 52	200005442	
morning rise	3404 Feb 15 06:18	10° <b>≈</b> 15′00		morning rise	3410 Apr 25 22:50	20° <b>Y</b> 54'13	
	3404 Apr 02 02:11	15° <b>≈</b>		retrograde	3410 Aug 09 11:38	28° <b>Y</b> 36'26	
retrograde	3404 May 26 14:16	17° <b>≈</b> 19′04		opposition	3410 Oct 18 13:30	25° <b>Ƴ</b> 11'27	-2°40'09
	3404 Jul 22 14:48	15° <b>R</b> ≈		min. Earth dist.	3410 Oct 18 14:48	25° <b>Ƴ</b> 11'11	8.58873 AU
opposition	3404 Aug 05 06:39	14°≈00'19	-0°22'40	direct	3410 Dec 25 12:15	21° <b>Y</b> 50'51	
min. Earth dist.	3404 Aug 05 07:44	14°≈00'07	9.01275 AU	evening set	3411 Apr 04 17:04	29° <b>Ƴ</b> 15'47	
direct	3404 Oct 14 18:48	10° <b>≈</b> 41'40		Ü	3411 Apr 10 17:42	0°8	
4.1.000	3404 Dec 29 14:53	15° <b>≈</b>			5pr 10 172	° <b>O</b>	
evening set	3405 Jan 23 08:59	17°≈43'22		conjunction	3411 Apr 21 18:06	1° <b>8</b> 21'51	2011/45
evening set	3403 Jan 23 06.39	1/ ≈43 22		•			
				minimum elong	3411 Apr 21 18:06	1° <b>8</b> 21'51	
conjunction	3405 Feb 09 00:45	19° <b>≈</b> 41′03		max. Earth dist.	3411 Apr 21 15:54	_	10.53444 AU
minimum elong	3405 Feb 09 00:44	19° <b>≈</b> 41′03	0°31'31	morning rise	3411 May 08 23:42	3° <b>8</b> 29'20	
max. Earth dist.	3405 Feb 08 22:49	19° <b>≈</b> 40′29	10.99979 AU	retrograde	3411 Aug 23 01:01	11° <b>8</b> 19'46	
morning rise	3405 Feb 25 17:20	21° <b>≈</b> 39'01		opposition	3411 Oct 31 17:27	7° <b>8</b> 53'37	-2°43'07
retrograde	3405 Jun 07 17:39	28° <b>≈</b> 46'48		min. Earth dist.	3411 Oct 31 18:56	7° <b>8</b> 53'19	8.48214 AU
opposition	3405 Aug 17 12:05	25° <b>≈</b> 27'23	-0°54'10	direct	3412 Jan 07 05:59	4° <b>8</b> 31'58	
min. Earth dist.	3405 Aug 17 13:39	25° <b>≈</b> 27'06	8.98204 AU	evening set	3412 Apr 16 19:51	12° <b>8</b> 04'20	
direct	3405 Oct 26 16:10	22°≈08'58	0.70204710	evening set	5412 Apr 10 15.51	12 00420	
					241234 04 00 50	140 1 2150	201.012.0
evening set	3406 Feb 03 21:39	29°≈11′23		conjunction	3412 May 04 00:58	14° <b>8</b> 12'58	
	3406 Feb 10 19:16	0° <b>∀</b>		minimum elong	3412 May 04 00:59	14° <b>8</b> 12'58	
				max. Earth dist.	3412 May 03 23:32		10.42773 AU
conjunction	3406 Feb 20 13:29	1° <b>₩</b> 09'35	-0°56'33		3412 May 10 07:00	15° <b>8</b>	
minimum elong	3406 Feb 20 13:27	1° <b>₩</b> 09'35	0°56'34	morning rise	3412 May 21 10:36	16° <b>8</b> 23'02	
max. Earth dist.	3406 Feb 20 10:47	1° <b>)</b> €08'47	10.95934 AU	retrograde	3412 Sep 04 20:14	24° <b>8</b> 21'14	
morning rise	3406 Mar 09 07:08	3° <b>₩</b> 08'20		opposition	3412 Nov 13 02:38	20° <b>8</b> 54'01	-2°37'55
retrograde	3406 Jun 19 23:23	10° <b>¥</b> 21′10		min. Earth dist.	3412 Nov 13 03:27	_	8.37687 AU
opposition	3406 Aug 29 19:44	7° <b>₩</b> 00'52	1022140	direct	3413 Jan 19 07:10	17° <b>8</b> 31'13	0.57007 AC
	Ü					_	
min. Earth dist.	3406 Aug 29 21:44		8.93249 AU	evening set	3413 Apr 30 07:44	25° <b>8</b> 11'17	
direct	3406 Nov 07 13:53	3° <b>)</b> 42′27					
evening set	3407 Feb 15 13:34	10° <b>)</b> 46′57		conjunction	3413 May 17 17:29	27° <b>8</b> 22'38	
				minimum elong	3413 May 17 17:31	27° <b>8</b> 22'39	2°02'48
conjunction	3407 Mar 04 06:04	12° <b>)</b> 46′02	-1°19'32	max. Earth dist.	3413 May 17 17:20	27° <b>8</b> 22'35	10.32560 AU
minimum elong	3407 Mar 04 06:01	12° <b>)</b> 46′02	1°19'32	morning rise	3413 Jun 04 07:29	29° <b>8</b> 35'22	
max. Earth dist.	3407 Mar 04 03:51	12° <b>)</b> 45′23	10.90075 AU		3413 Jun 07 15:18	$\Pi^{\circ}0$	
morning rise	3407 Mar 21 01:04	14° <b>)</b> €45'53		retrograde	3413 Sep 18 21:48	7° <b>Ⅱ</b> 40′20	
retrograde	3407 Jul 02 10:32	22° <b>)</b> 04′57		opposition	3413 Nov 26 16:45	4° <b>Ⅱ</b> 12'11	-2°24'13
-		18° <b>)</b> 43'35	1950122	min. Earth dist.			8.27918 AU
opposition	3407 Sep 11 06:10				3413 Nov 26 16:25		8.2/918 AU
min. Earth dist.	3407 Sep 11 07:38		8.86581 AU	direct	3414 Feb 01 14:24	0° <b>∏</b> 48'08	
direct	3407 Nov 19 15:06	15° <b>∺</b> 24'58		evening set	3414 May 14 05:03	8° <b>Ⅱ</b> 35'51	
evening set	3408 Feb 27 10:21	22° <b>)</b> 32′52					
				conjunction	3414 May 31 19:37	10° <b>∏</b> 49'53	-1°48'10
conjunction	3408 Mar 15 04:04	24° <b>)</b> 33'12	-1°39'28	minimum elong	3414 May 31 19:41	10° <b>Ⅱ</b> 49'54	1°48'10
minimum elong	3408 Mar 15 04:02	24° <b>)</b> €33'11	1°39'28	max. Earth dist.	3414 May 31 20:10	10° <b>Ⅱ</b> 50'03	10.23415 AU
max. Earth dist.	3408 Mar 15 02:42	24° <b>¥</b> 32'47	10.82603 AU	morning rise	3414 Jun 18 14:06	13° <b>Ⅲ</b> 05′12	
morning rise	3408 Apr 01 00:44	26° <b>)</b> 34′27		retrograde	3414 Oct 03 04:30	21° <b>Ⅱ</b> 15'18	
morning rise	3408 May 02 02:17	0° <b>Υ</b>		opposition	3414 Dec 10 11:02	17° <b>I</b> I46'31	2002/15
	3408 Jul 14 05:35	4° <b>Υ</b> 00'39		min. Earth dist.			8.19490 AU
retrograde			2012/44		3414 Dec 10 10:08		0.1747U AU
opposition	3408 Sep 22 20:02	0° <b>Y</b> 38′08		direct	3415 Feb 15 03:10	14° <b>Ⅱ</b> 21'11	
min. Earth dist.	3408 Sep 22 20:51		8.78429 AU	evening set	3415 May 28 11:02	22° <b>Ⅱ</b> 16′04	
	3408 Oct 01 06:43	30° <b>₹</b>					
direct	3408 Nov 30 17:40	27° <b>)</b> 19′06		conjunction	3415 Jun 15 06:15	24° <b>Ⅲ</b> 32'33	-1°27'14
	3409 Jan 26 23:09	$0$ ° $\mathbf{\Upsilon}$		minimum elong	3415 Jun 15 06:19	24° <b>Ⅲ</b> 32'34	1°27'14
evening set	3409 Mar 10 13:14	4° <b>Υ</b> 31'38		max. Earth dist.	3415 Jun 15 07:02	24° <b>∏</b> 32'48	10.15884 AU
•				morning rise	3415 Jul 03 04:50	26° <b>Ⅲ</b> 50′07	
conjunction	3409 Mar 27 08:38	6° <b>Ƴ</b> 33'30	-1°55'25		3415 Jul 29 14:54	0°95	
minimum elong	3409 Mar 27 08:36	6° <b>Υ</b> 33'30		retrograde	3415 Oct 17 14:31	5° <b>©</b> 03'27	
· ·			1°55°25 10.73789 AU	•			1022151
max. Earth dist.	3409 Mar 27 07:22		10.73769 AU	opposition	3415 Dec 24 08:56	1°934'21	
morning rise	3409 Apr 13 07:36	8° <b>Y</b> 36'31		min. Earth dist.	3415 Dec 24 07:52		8.12909 AU
retrograde	3409 Jul 27 05:20	16° <b>Y</b> 10′32			3416 Jan 13 08:39	30°RⅡ	
opposition	3409 Oct 05 14:23	12° <b>Ƴ</b> 46'47	-2°29'42	direct	3416 Feb 28 22:56	28° <b>Ⅱ</b> 07'46	
min. Earth dist.	3409 Oct 05 15:03	12° <b>Ƴ</b> 46'40	8.69085 AU		3416 Apr 14 16:57	$0$ $\circ$ $\odot$	
direct	3409 Dec 12 23:55	9° <b>Ƴ</b> 27'05		evening set	3416 Jun 11 00:22	6°∽08'57	
evening set	3410 Mar 22 23:04	16° <b>Ƴ</b> 45'19		-			
Č				conjunction	3416 Jun 28 23:34	8° <b>5</b> 27'24	-1°00'59
conjunction	3410 Apr 08 20:50	18° <b>Ƴ</b> 49'07	-2°06'27	minimum elong	3416 Jun 28 23:37	8°927'24	
minimum elong	3410 Apr 08 20:49		2°06'26	max. Earth dist.	3416 Jun 29 00:38		1 00 39 10.10414 AU
_	•		10.63950 AU				10.10414 AU
max. Earth dist.	3410 Apr 08 18:46	10 1 48 29	10.03330 AU	morning rise	3416 Jul 17 01:20	10° <b>©</b> 46'39	

retrograde	3416 Oct 31 00:21	19° <b>5</b> 01'07			3422 Sep 09 03:12	0∘ <b>ত</b>	
opposition	3417 Jan 06 09:16	15°932'00	-0°57'37		3.22 Sep 03 03.12	v —	
min. Earth dist.	3417 Jan 06 08:05	15°932'14	8.08579 AU	conjunction	3422 Sep 24 14:02	1° <b>≏</b> 56'58	1°48'59
direct	3417 Mar 14 01:30	12° <b>©</b> 04'19		minimum elong	3422 Sep 24 13:59	1° <b>£</b> 56'57	1°48'58
evening set	3417 Jun 25 19:31	20° <b>©</b> 10'32		max. Earth dist.	3422 Sep 24 16:35	1° <b>£</b> 57'46	10.28518 AU
C				morning rise	3422 Oct 12 04:30	4° <b>£</b> 10'01	
conjunction	3417 Jul 13 21:40	22°530'16	-0°30'55	retrograde	3423 Jan 21 18:19	11° <b>≏</b> 54'24	
minimum elong	3417 Jul 13 21:41	22° <b>5</b> 30'16	0°30'55	opposition	3423 Mar 29 16:53	8° <b>≏</b> 30'34	2°24'47
max. Earth dist.	3417 Jul 13 23:05	22° <b>5</b> 30'43	10.07340 AU	min. Earth dist.	3423 Mar 29 15:14	8° <b>≙</b> 30'54	8.33337 AU
morning rise	3417 Aug 01 01:18	24° <b>©</b> 50'27		direct	3423 Jun 06 15:27	5° <b>ഫ</b> 02'08	
	3417 Sep 15 10:29	$0^{\circ}\Omega$		evening set	3423 Sep 20 21:41	13° <b>≏</b> 01'07	
retrograde	3417 Nov 14 08:52	3° <b>Ω</b> 03'53					
	3418 Jan 15 09:19	30° <b>₹</b> 5		conjunction	3423 Oct 08 11:40	15° <b>≏</b> 12'46	2°03'12
opposition	3418 Jan 20 10:38	29° <b>©</b> 35'03		minimum elong	3423 Oct 08 11:38	15° <b>≙</b> 12'45	
min. Earth dist.	3418 Jan 20 09:13	29° <b>©</b> 35'21	8.06765 AU	max. Earth dist.	3423 Oct 08 13:15		10.38214 AU
direct	3418 Mar 28 07:39	26°506'29		morning rise	3423 Oct 25 21:28	17° <b>£</b> 23'06	
	3418 Jun 04 07:44	$0$ $\circ$ $\Omega$		retrograde	3424 Feb 03 20:43	24° <b>≙</b> 59'33	
evening set	3418 Jul 10 18:16	4° <b>Ω</b> 16′08		opposition	3424 Apr 11 01:54	21° <b>≏</b> 37'03	2°38'02
asc. node	3418 Jul 15 16:49	4° <b>Ω</b> 53'55		min. Earth dist.	3424 Apr 11 00:24	21° <b>£</b> 37'21	8.43496 AU
	2410 1 1 20 21 52	60 026120	0001110	direct	3424 Jun 19 11:56	18° <b>£</b> 09'34	
conjunction	3418 Jul 28 21:53	6°Ω36'20 6°Ω36'21	0°01'10	evening set	3424 Oct 03 14:04	26° <b>≏</b> 01'48	
minimum elong	3418 Jul 28 21:54	6° <b>Ω</b> 33'59	0°01'09	:	2424 0-+ 20 22-46	200 0 10140	2010/40
behind sun begin behind sun end	3418 Jul 28 14:33 3418 Jul 29 05:16	6° <b>Ω</b> 38'42		conjunction	3424 Oct 20 23:46 3424 Oct 20 23:45	28° <b>♀</b> 10'49 28° <b>♀</b> 10'49	2°10'48
max. Earth dist.	3418 Jul 28 23:56		10.06837 AU	minimum elong max. Earth dist.	3424 Oct 20 23:43 3424 Oct 21 00:55		10.48657 AU
morning rise	3418 Aug 16 01:43	8° <b>N</b> 56'35	10.00837 AU	max. Earth dist.	3424 Nov 04 16:34	0°M	10.48037 AU
morning risc	3418 Oct 10 16:48	15° <b>Ω</b>		morning rise	3424 Nov 07 05:09	0°M18'30	
retrograde	3418 Nov 28 15:38	13° <b>Ω</b> 06'57		retrograde	3425 Feb 15 15:15	7° <b>M</b> .47'13	
renograde	3419 Jan 17 14:31	17 <b>8€</b> 00 37		opposition	3425 Apr 24 05:55	4°M25'59	2°43'01
opposition	3419 Feb 03 11:56	13°Ω38'43	0°21'27	min. Earth dist.	3425 Apr 24 04:17	4°M26'18	8.54111 AU
min. Earth dist.	3419 Feb 03 09:49	13° <b>Ω</b> 39'09	8.07559 AU	direct	3425 Jul 03 04:00	0°M59'37	0.0 1111110
direct	3419 Apr 11 15:43	10° <b>Ω</b> 09'32		evening set	3425 Oct 16 20:43	8°M44'24	
	3419 Jun 27 20:01	15° <b>Ω</b>		Ü			
evening set	3419 Jul 25 17:55	18° <b>Ω</b> 20'45		conjunction	3425 Nov 03 02:30	10°M50'54	2°11'49
C				minimum elong	3425 Nov 03 02:30	10°M50'54	2°11'49
conjunction	3419 Aug 12 21:20	20° <b>Ω</b> 40'33	0°33'02	max. Earth dist.	3425 Nov 03 03:43	10°M51'16	10.59299 AU
minimum elong	3419 Aug 12 21:18	20° <b>Ω</b> 40'33	0°33'02	morning rise	3425 Nov 20 03:52	12°M56'05	
max. Earth dist.	3419 Aug 13 00:07	20° <b>Ω</b> 41'27	10.08910 AU		3425 Dec 07 20:24	15° <b>M</b> ₀	
morning rise	3419 Aug 30 23:33	22° <b>Ω</b> 59'58		retrograde	3426 Feb 28 05:27	20°M17'36	
	3419 Nov 08 04:33	0° <b>m</b> ∕		opposition	3426 May 07 05:02	16°M57'31	2°40'04
retrograde	3419 Dec 12 19:23	1° Mp 05'33		min. Earth dist.	3426 May 07 03:27	16°M57'49	8.64652 AU
	3420 Jan 16 17:17	$30^{\circ}$ R $\Omega$			3426 Jun 03 06:37	15°RM₊	
opposition	3420 Feb 17 11:51	27° <b>Ω</b> 38'07		direct	3426 Jul 16 12:33	13°M32'24	
min. Earth dist.	3420 Feb 17 09:08	27° <b>Ω</b> 38'41	8.10893 AU		3426 Aug 28 00:40	15° <b>M</b> ₊	
direct	3420 Apr 24 23:57	24° <b>Ω</b> 08'39		evening set	3426 Oct 29 17:44	21°M09'23	
	3420 Jul 20 13:57	0° <b>m</b> )				w	
evening set	3420 Aug 08 15:42	2° <b>m</b> 19'30		conjunction	3426 Nov 15 20:05	23°M13'36	
agniumation	2420 Aug 26 17:19	10 m, 2010 1	1902!46	minimum elong	3426 Nov 15 20:06	23°M 13'37	2°06'37
conjunction minimum elong	3420 Aug 26 17:18	4° Mp 38'04	1°02'46 1°02'45	max. Earth dist.	3426 Nov 15 21:29 3426 Dec 02 18:06	25°M16'35	10.69629 AU
max. Earth dist.	3420 Aug 26 17:16 3420 Aug 26 20:34	4° Mp 38'03	1 02 43 10.13426 AU	morning rise	3427 Jan 16 09:03	23 IIG1033 0° <b>√</b> 7	
morning rise	3420 Sep 13 16:29	6° My 55'53	10.13420 AO	retrograde	3427 Mar 12 14:57	2° <b>∡</b> 731'39	
retrograde	3420 Dec 25 17:59	14° <b>m</b> 55'14		renograde	3427 May 09 12:51	30°RM	
opposition	3421 Mar 02 09:13	11° <b>m</b> ) 28'52	1°34'43	opposition	3427 May 19 23:43	29°M12'34	2°29'50
min. Earth dist.	3421 Mar 02 06:22	11° m) 29'27	8.16556 AU	min. Earth dist.	3427 May 19 22:58	29°MJ12'42	8.74638 AU
direct	3421 May 09 08:06	7° <b>m</b> 59'24		direct	3427 Jul 29 13:28	25°M48'42	050 110
evening set	3421 Aug 23 08:59	16° Mp 08'00			3427 Oct 12 11:51	0° <b>%</b>	
<i>5</i>		4		evening set	3427 Nov 11 05:42	3° <b>∡</b> 17'58	
conjunction	3421 Sep 10 07:30	18° <b>m</b> 24'39	1°28'32	<b>5</b>	<del>-</del>		
minimum elong	3421 Sep 10 07:26	18° <b>m</b> ) 24'38	1°28'32	conjunction	3427 Nov 28 05:03	5° <b>х</b> 20′13	1°55'48
max. Earth dist.	3421 Sep 10 10:44	18° <b>m</b> ) 25'41		minimum elong	3427 Nov 28 05:05	5° <b>∡</b> ′20′13	1°55'48
morning rise	3421 Sep 28 02:36	20° <b>m</b> 40'16		max. Earth dist.	3427 Nov 28 05:34	5° <b>≮</b> 20'22	10.79185 AU
retrograde	3422 Jan 08 09:23	28° Mp 32'25		morning rise	3427 Dec 15 00:38	7° <b>∡</b> 1'22	
opposition	3422 Mar 16 03:11	25° <b>m</b> 07'16	2°03'26	retrograde	3428 Mar 23 17:33	14° <b>∡</b> °30′58	
min. Earth dist.	3422 Mar 16 00:51	25° <b>m</b> 07'45	8.24188 AU	opposition	3428 May 31 14:07	11° <b>≯</b> 12'40	2°13'15
direct	3422 May 23 13:50	21° <b>m</b> 38'10		min. Earth dist.	3428 May 31 14:23	11° <b>∡</b> 12'37	8.83629 AU
evening set	3422 Sep 06 19:36	29° <b>m</b> 42'42		direct	3428 Aug 10 09:37	7° <b>∡</b> 750′00	

evening set	3428 Nov 22 09:54	15° <b>∡</b> 12'04		direct	3434 Oct 21 13:29	17°≈03'25	
				evening set	3435 Jan 29 22:22	24° <b>≈</b> 05'46	
conjunction	3428 Dec 09 06:49	17° <b>∡</b> 12'39	1°40'10				
minimum elong	3428 Dec 09 06:52	17° <b>∡</b> 12'39	1°40'10	conjunction	3435 Feb 15 14:17	26° <b>≈</b> 03'48	-0°45'03
max. Earth dist.	3428 Dec 09 05:59		10.87548 AU	minimum elong	3435 Feb 15 14:16	26° <b>≈</b> 03'48	0°45'03
morning rise	3428 Dec 26 00:42	19° <b>∡</b> 12'19 −		max. Earth dist.	3435 Feb 15 11:18		10.97375 AU
retrograde	3429 Apr 04 17:40	26° <b>∡</b> 17'39		morning rise	3435 Mar 04 07:22	28°≈02'15	
opposition	3429 Jun 13 00:40	22° <b>⋌</b> '59'54			3435 Mar 21 17:36	0° <b>∀</b>	
min. Earth dist.	3429 Jun 13 01:28	22° <b>∡</b> 59'45	8.91229 AU	retrograde	3435 Jun 14 16:04	5° <b>)</b> 13′01	
direct	3429 Aug 23 00:48	19° <b>∡</b> 38′21		opposition	3435 Aug 24 11:18	1° <b>¥</b> 53′02	
evening set	3429 Dec 04 07:27	26° <b>₹</b> 53'59		min. Earth dist.	3435 Aug 24 13:29		8.94854 AU
	2420 D 21 02 25	200 752115	1020124	Ľ .	3435 Sep 20 09:49	30°R≈	
conjunction	3429 Dec 21 02:35	28° ₹ 53'15	1°20'34	direct	3435 Nov 02 10:42	28°≈34'28	
minimum elong max. Earth dist.	3429 Dec 21 02:37 3429 Dec 21 01:11	28° 🗷 53'16	1°20'33 10.94344 AU	avanina aat	3435 Dec 14 04:59 3436 Feb 10 13:00	0° <b>∺</b> 5° <b>∺</b> 38'20	
max. Earm dist.	3429 Dec 21 01:11 3429 Dec 30 11:00	28 x・32 30 0°る	10.94344 AU	evening set	3430 Feb 10 13.00	3 Д3820	
morning rise	3430 Jan 06 19:14	0° <b>ろ</b> 51'48		conjunction	3436 Feb 27 05:18	7° <b>₩</b> 37'08	100008
retrograde	3430 Apr 16 15:49	7° <b>る</b> 54'15		minimum elong	3436 Feb 27 05:16	7° <b>₩</b> 37'07	
opposition	3430 Apr 10 13.49 3430 Jun 25 08:24	4°る36'45	1°25'12	max. Earth dist.	3436 Feb 27 03:10 3436 Feb 27 02:13		10.91842 AU
min. Earth dist.	3430 Jun 25 09:07	4°る36'38		morning rise	3436 Mar 14 23:34	9° <b>H</b> 36'33	10.91842 AU
direct	3430 Sep 04 09:48	1° <b>る</b> 16'13	8.97080 AU	retrograde	3436 Jun 26 01:52	16° <b>¥</b> 53′06	
evening set	3430 Dec 15 23:42	8° <b>る</b> 26'27		opposition	3436 Sep 04 20:41	13° <b>¥</b> 31′57	-1°38'30
evening set	3430 Dec 13 23.42	6 <b>O</b> 2021		min. Earth dist.	3436 Sep 04 23:03	13° <b>X</b> 31'31	
conjunction	3431 Jan 01 17:33	10° <b>云</b> 24'46	0°57'53	direct	3436 Nov 13 10:14	10° <b>¥</b> 13'06	0.00400710
minimum elong	3431 Jan 01 17:35	10° <b>る</b> 24'47		evening set	3437 Feb 21 07:41	17° <b>₩</b> 19'52	
max. Earth dist.	3431 Jan 01 16:14		10.99239 AU	evening sec	3.37.100 21 07.11	1, 7(1)02	
morning rise	3431 Jan 18 09:25	12° <b>る</b> 22'35	10.55255110	conjunction	3437 Mar 10 00:43	19° <b>₩</b> 19'45	-1°30'39
retrograde	3431 Apr 28 13:51	19° <b>る</b> 23'41		minimum elong	3437 Mar 10 00:40	19° <b>)</b> 19'44	
opposition	3431 Jul 07 14:08	16° <b>පි</b> 06'12	0°55'56	max. Earth dist.	3437 Mar 09 21:06		10.84623 AU
min. Earth dist.	3431 Jul 07 15:26	16° <b>පි</b> 05'58	9.00915 AU	morning rise	3437 Mar 26 20:38	21° <b>)</b> €20'30	
direct	3431 Sep 16 14:27	12° <b>る</b> 46'30		retrograde	3437 Jul 08 16:59	28° <b>)</b> 43′54	
evening set	3431 Dec 27 12:40	19° <b>る</b> 52'39		opposition	3437 Sep 17 09:24	25° <b>∺</b> 21'29	-2°03'01
				min. Earth dist.	3437 Sep 17 12:02	25° <b>)</b> 20′59	8.80535 AU
conjunction	3432 Jan 13 05:29	21° <b>る</b> 50'24	0°33'04	direct	3437 Nov 25 11:35	22° <b>)</b> €02'08	
minimum elong	3432 Jan 13 05:30	21° <b>る</b> 50'25	0°33'05	evening set	3438 Mar 05 07:45	29° <b>)</b> 13′07	
max. Earth dist.	3432 Jan 13 03:11	21° <b>る</b> 49'43	11.02004 AU		3438 Mar 11 20:31	$0^{\circ}$ $\Upsilon$	
morning rise	3432 Jan 29 21:08	23° <b>る</b> 47'51					
	3432 Apr 07 17:57	0° <b>≈</b>		conjunction	3438 Mar 22 02:16	1° <b>Y</b> 14'26	-1°48'36
retrograde	3432 May 09 11:11	0° <b>≈</b> 49′08		minimum elong	3438 Mar 22 02:13	1° <b>Y</b> 14'25	1°48'36
	3432 Jun 10 18:25	30°Ŗる		max. Earth dist.	3438 Mar 21 23:11		10.76005 AU
opposition	3432 Jul 18 18:39	27° <b>る</b> 31'27	0°24'38	morning rise	3438 Apr 08 00:17	3° <b>Ƴ</b> 16'49	
min. Earth dist.	3432 Jul 18 21:10	27° <b>る</b> 30'59	9.02571 AU	retrograde	3438 Jul 21 12:30	10° <b>Ƴ</b> 47'56	
direct	3432 Sep 27 14:26	24° <b>る</b> 12'22		opposition	3438 Sep 30 02:02	7° <b>Y</b> 24'11	
	3432 Dec 26 20:14	0° <b>≈</b>		min. Earth dist.	3438 Sep 30 04:12	7° <b>Y</b> 23'46	8.71367 AU
evening set	3433 Jan 06 23:48	1°≈15'54		direct	3438 Dec 07 17:51	4° <b>Y</b> 04'09	
				evening set	3439 Mar 17 14:24	11° <b>Y</b> 20'30	
conjunction	3433 Jan 23 15:53	3°≈13'24			2420 4 02 11 10	12000222	2002102
minimum elong	3433 Jan 23 15:53	3°≈13'24	0°07'04	conjunction	3439 Apr 03 11:10	13° <b>Y</b> 23'39	
behind sun begin	3433 Jan 23 09:25	3°≈11'31		minimum elong	3439 Apr 03 11:09	13° <b>Y</b> 23'38	10.66320 AU
behind sun end	3433 Jan 23 22:21	3°≈15'17	11 02500 ATT	max. Earth dist.	3439 Apr 03 09:24	$15^{\circ}$ <b>Y</b> 23'06 $15^{\circ}$ <b>Y</b> 27'59	10.66320 AU
max. Earth dist.	3433 Jan 23 12:05 3433 Feb 09 07:47	5°≈12'18	11.02580 AU	morning rise	3439 Apr 20 11:46	$13^{\circ}$ <b>Y</b> 27'39 $23^{\circ}$ <b>Y</b> 07'20	
morning rise desc. node	3433 May 03 13:03	3 ≈10 32 11°≈58'13		retrograde opposition	3439 Aug 03 16:51 3439 Oct 12 23:08	19° <b>Y</b> 42'15	2026/10
retrograde	3433 May 21 08:49	11 ≈3813 12°≈13'53		min. Earth dist.	3439 Oct 12 23:08 3439 Oct 13 00:11		8.61317 AU
opposition	3433 Jul 30 23:11	8°≈55'42	0°07'35	direct	3439 Dec 20 04:22	19 <b>γ</b> 42 02 16° <b>γ</b> 21'25	8.01317 AU
min. Earth dist.	3433 Jul 31 02:22	8°≈55'06		evening set	3440 Mar 29 04:50	23°\bar{44'06}	
direct	3433 Oct 09 14:03	5°≈37'01	7.02037 AO	evening set	3440 Wai 27 04.30	23 1 1 1 00	
evening set	3434 Jan 18 10:28	12°≈39'16		conjunction	3440 Apr 15 04:28	25° <b>Ƴ</b> 49'22	-2°10'06
5. cg 50t	J.J. Juli 10 10.20	12 . 4.57 10		minimum elong	3440 Apr 15 04:27	25° <b>Υ</b> 49'22	
conjunction	3434 Feb 04 02:15	14° <b>≈</b> 36'52	-0°19'22	max. Earth dist.	3440 Apr 15 03:21		10.55966 AU
minimum elong	3434 Feb 04 02:14	14°≈36'52		morning rise	3440 May 02 08:15	27° <b>Υ</b> 56'00	
max. Earth dist.	3434 Feb 03 22:32		11.01006 AU	<i>5</i>	3440 May 19 22:20	0°8	
	3434 Feb 07 08:18	15° <b>≈</b>		retrograde	3440 Aug 16 04:42	5° <b>8</b> 43'39	
morning rise	3434 Feb 20 18:37	16° <b>≈</b> 34'39		opposition	3440 Oct 25 01:09	2° <b>8</b> 17'20	-2°42'52
retrograde	3434 Jun 02 11:08	23° <b>≈</b> 40'54		min. Earth dist.	3440 Oct 25 01:28		8.50817 AU
opposition	3434 Aug 12 04:30	20° <b>≈</b> 21'55	-0°39'36		3440 Nov 26 06:32	30° <b>₹</b> Υ	
min. Earth dist.	3434 Aug 12 07:12	20° <b>≈</b> 21′25	8.99443 AU	direct	3440 Dec 31 18:16	28° <b>Ƴ</b> 55'34	

	3441 Feb 04 14:51	0° <b>႘</b>		direct	3447 Mar 22 04:58	20° <b>©</b> 02'27	
evening set	3441 Apr 11 03:50	6° <b>8</b> 25'21		evening set	3447 Jul 04 09:40	28°©11'03	
conjunction	3441 Apr 28 07:01	8° <b>8</b> 33'02	-2°12'01		3447 Jul 18 12:38	$0 {\circ} \Omega$	
minimum elong	3441 Apr 28 07:02	8° <b>8</b> 33'03		conjunction	3447 Jul 22 12:51	0° <b>Ω</b> 31'12	-0°13'26
max. Earth dist.	3441 Apr 28 06:00		10.45425 AU	minimum elong	3447 Jul 22 12:52	0°Ω31'12	
morning rise	3441 May 15 14:43	10° <b>8</b> 42'10	10.10 .20 110	behind sun begin	3447 Jul 22 08:53	0°Ω29'55	0 13 27
	3441 Jun 22 21:50	15° <b>8</b>		behind sun end	3447 Jul 22 16:50	0°Ω32'28	
retrograde	3441 Aug 29 21:56	18° <b>8</b> 37'49		max. Earth dist.	3447 Jul 22 16:49	0° <b>Ω</b> 32'28	10.06939 AU
opposition	3441 Nov 07 08:28	15° <b>8</b> 10'25	-2°41'29	morning rise	3447 Aug 09 16:38	2° <b>Ω</b> 51'32	
min. Earth dist.	3441 Nov 07 08:32	15° <b>8</b> 10'24	8.40374 AU	retrograde	3447 Nov 22 17:07	11° <b>Ω</b> 03′50	
	3441 Nov 09 13:07	15° <b>₹</b> 8		asc. node	3447 Dec 27 07:30	9° <b>£</b> 59'36	
direct	3442 Jan 13 15:48	11° <b>8</b> 47'35		opposition	3448 Jan 28 14:04	7° <b>Ω</b> 35'37	0°03'26
	3442 Mar 16 04:28	15° <b>8</b>		min. Earth dist.	3448 Jan 28 11:02	7° <b>Ω</b> 36′15	8.07294 AU
evening set	3442 Apr 24 11:49	19° <b>8</b> 24'55		direct	3448 Apr 04 12:15	4° <b>Ω</b> 07'07	
				evening set	3448 Jul 18 09:44	12° <b>Ω</b> 17'57	
conjunction	3442 May 11 19:17	21° <b>8</b> 35'14	-2°07'17				
minimum elong	3442 May 11 19:19	21° <b>8</b> 35'15	2°07'16	conjunction	3448 Aug 05 13:20	14° <b>Ω</b> 38′01	0°18'51
max. Earth dist.	3442 May 11 18:33	21° <b>8</b> 35'00	10.35219 AU	minimum elong	3448 Aug 05 13:19	14° <b>Ω</b> 38′00	0°18'51
morning rise	3442 May 29 07:25	23° <b>8</b> 47'00		max. Earth dist.	3448 Aug 05 16:56	• • • •	10.08288 AU
	3442 Jul 28 00:22	$\Pi$ $^{\circ}0$			3448 Aug 08 09:16	15° <b>Ω</b>	
retrograde	3442 Sep 12 20:33	1° <b>Ⅱ</b> 49'49		morning rise	3448 Aug 23 16:25	16° <b>Ω</b> 57'53	
	3442 Oct 30 11:11	30° <b>₹</b> 8		retrograde	3448 Dec 05 23:03	25° <b>Ω</b> 05'54	
opposition	3442 Nov 20 20:48	28° <b>8</b> 21'32		opposition	3449 Feb 10 15:20	21° <b>Ω</b> 38'31	0°43'03
min. Earth dist.	3442 Nov 20 20:45		8.30519 AU	min. Earth dist.	3449 Feb 10 12:40	21° <b>Ω</b> 39'04	8.09902 AU
direct	3443 Jan 26 20:52	24° <b>8</b> 57'34		direct	3449 Apr 18 21:45	18° <b>Ω</b> 09'37	
. ,	3443 Apr 15 12:55	0°II		evening set	3449 Aug 02 09:12	26° <b>Ω</b> 20'47	
evening set	3443 May 08 05:12	2° <b>Ⅱ</b> 42'34		:	2440 A 20 11-20	200 (22)52	0940147
· · · · · · · · · · · ·	2442 M 25 17-20	40TE 512.4	1055141	conjunction	3449 Aug 20 11:38	28° <b>Ω</b> 39'53	0°49'47
conjunction minimum elong	3443 May 25 17:29 3443 May 25 17:32	4°П55'34 4°П55'35		minimum elong max. Earth dist.	3449 Aug 20 11:35	28° <b>Ω</b> 39'52	0°49'47 10.12072 AU
max. Earth dist.	3443 May 25 17:37		1°35'41 10.25883 AU	max. Earth dist.	3449 Aug 20 14:32 3449 Aug 30 20:41	28° <b>3′2</b> 40°49 0° <b>m</b> )	10.12072 AU
morning rise	3443 Jun 12 10:07	7° <b>I</b> 109'57	10.23883 AU	morning rise	3449 Sep 07 12:25	0° Mp 58′27	
retrograde	3443 Sep 27 00:58	15° <b>Ⅱ</b> 18'36		retrograde	3449 Dec 19 23:05	9° Mg 00'35	
opposition	3443 Dec 04 13:36	11° <b>II</b> 49'43	-2°13'19	opposition	3450 Feb 24 14:10	5° Mg 34'13	1°19'45
min. Earth dist.	3443 Dec 04 13:00	11° <b>I</b> I49'50		min. Earth dist.	3450 Feb 24 11:54	5°Mp34'41	8.14799 AU
direct	3444 Feb 09 08:01	8° <b>Ⅱ</b> 24'38	0.21797110	direct	3450 May 03 08:04	2° m/05'12	0.1 1,757 110
evening set	3444 May 21 07:33	16° <b>Ⅱ</b> 16'59		evening set	3450 Aug 17 05:11	10° m) 14'50	
Č	,			Č	8	•	
conjunction	3444 Jun 08 00:44	18° <b>Ⅱ</b> 32'33	-1°37'30	conjunction	3450 Sep 04 05:03	12° <b>m</b> 32'17	1°17'32
minimum elong	3444 Jun 08 00:47	18° <b>Ⅱ</b> 32'34	1°37'30	minimum elong	3450 Sep 04 05:00	12°M 32'16	1°17'31
max. Earth dist.	3444 Jun 08 02:23	18° <b>Ⅲ</b> 33′04	10.17955 AU	max. Earth dist.	3450 Sep 04 07:09	12°M 32'58	10.17932 AU
morning rise	3444 Jun 25 21:35	20° <b>Ⅱ</b> 49'19		morning rise	3450 Sep 22 02:13	14° <b>m</b> 48'53	
retrograde	3444 Oct 10 09:39	29° <b>Ⅱ</b> 02'04		retrograde	3451 Jan 02 16:55	22° <b>m</b> 44'11	
opposition	3444 Dec 17 10:28	25° <b>Ⅱ</b> 32'52		opposition	3451 Mar 10 09:56	19° <b>TD</b> 18'59	1°51'19
min. Earth dist.	3444 Dec 17 08:42		8.14734 AU	min. Earth dist.	3451 Mar 10 07:55	19° <b>m</b> 19'24	8.21564 AU
direct	3445 Feb 22 01:34	22° <b>Ⅱ</b> 06'44		direct	3451 May 17 15:31	15° <b>m</b> 50'11	
_	3445 Jun 03 23:54	0°€		evening set	3451 Aug 31 19:12	23° TQ 56'37	
evening set	3445 Jun 04 18:00	0°905'43			2451 0 10 15 55	260-1	1040/20
	2445 1 22 15 22	20502122	1012/27	conjunction	3451 Sep 18 15:28	26° Mp 11'55	
conjunction	3445 Jun 22 15:39	2°523'28		minimum elong	3451 Sep 18 15:25		1°40'28
minimum elong	3445 Jun 22 15:42	2°523'29		max. Earth dist.	3451 Sep 18 17:11		10.25446 AU
max. Earth dist. morning rise	3445 Jun 22 18:39		10.11924 AU	morning rise	3451 Oct 06 08:08	28° Mp 26′06 0° <u>₽</u>	
-	3445 Jul 10 16:05	4°942'10		ratra ara da	3451 Oct 19 03:54	6° <b>£</b> 14'06	
retrograde opposition	3445 Oct 24 20:29	12°©56'59 9°©27'48	1014'10	retrograde opposition	3452 Jan 16 06:01		2°16'05
min. Earth dist.	3445 Dec 31 10:20 3445 Dec 31 07:36		8.09773 AU	min. Earth dist.	3452 Mar 23 01:53 3452 Mar 22 23:53	2° <b>£</b> 50'07 2° <b>£</b> 50'31	8.29801 AU
direct	3446 Mar 08 01:16	6°900'43	5.07115 AU	mm. Darm dist.	3452 May 03 14:33	2 <u>=</u> 30 31 30°R, <b>m</b> )	5.27001 AU
evening set	3446 Jun 19 11:28	14°905'15		direct	3452 May 30 18:45	29° Mp 21'50	
2. cg 500	5	0515			3452 Jun 26 20:49	20° <b>Ω</b>	
conjunction	3446 Jul 07 12:36	16°524'36	-0°44'51	evening set	3452 Sep 14 01:39	ი — 7° <b>ჲ</b> 23'33	
minimum elong	3446 Jul 07 12:39	16°924'36					
max. Earth dist.	3446 Jul 07 16:24		10.08172 AU	conjunction	3452 Oct 01 17:48	9° <b>Ω</b> 36'24	1°57'33
morning rise	3446 Jul 25 15:28	18° <b>©</b> 44'32		minimum elong	3452 Oct 01 17:45	9° <b>ჲ</b> 36'23	1°57'33
retrograde	3446 Nov 08 07:25	26°959'10		max. Earth dist.	3452 Oct 01 19:32		10.34260 AU
opposition	3447 Jan 14 11:53	23°530'20	-0°36'32	morning rise	3452 Oct 19 05:39	11° <b>≏</b> 47'58	
min. Earth dist.	3447 Jan 14 08:42	23° <b>©</b> 30'59	8.07240 AU	retrograde	3453 Jan 28 12:46	19° <b>≏</b> 28'16	

3465 Feb 04 20:51

evening set

0°**¥**52'15

3459 Feb 07 16:41

0°る

		>/					
conjunction	3465 Feb 21 12:46	2° <b>)</b> 50′33		conjunction	3471 May 06 01:52	15° <b>8</b> 56'24	
minimum elong	3465 Feb 21 12:45	2° <b>升</b> 50′32		minimum elong	3471 May 06 01:53	15° <b>8</b> 56'25	
max. Earth dist.	3465 Feb 21 10:36	2° <b>)</b> (49′54	10.95223 AU	max. Earth dist.	3471 May 06 01:28	15° <b>8</b> 56'17	10.43040 AU
morning rise	3465 Mar 10 06:31	4° <b>)</b> 49′23		morning rise	3471 May 23 11:36	18° <b>8</b> 06'28	
retrograde	3465 Jun 20 23:16	12° <b>)</b> €02'43		retrograde	3471 Sep 06 21:15	26° <b>8</b> 04'27	
opposition	3465 Aug 30 19:57	8° <b>)</b> 42'15	-1°26'31	opposition	3471 Nov 15 03:06	22° <b>8</b> 37'15	-2°36'47
min. Earth dist.	3465 Aug 30 21:17		8.92573 AU	min. Earth dist.	3471 Nov 15 03:05	_	8.38042 AU
	3465 Nov 08 14:53	5° <del>)(</del> 23'45	6.72373 AO	direct	3472 Jan 21 07:21	19° <b>8</b> 14'30	0.300 <del>1</del> 2 AO
direct							
evening set	3466 Feb 16 13:05	12° <b>)</b> €28'32		evening set	3472 May 01 08:25	26° <b>8</b> 54'21	
conjunction	3466 Mar 05 05:44	14° <b>)</b> €27'43		conjunction	3472 May 18 18:19	29° <b>8</b> 05'41	
minimum elong	3466 Mar 05 05:42	14° <b>) (</b> 27′42	1°21'35	minimum elong	3472 May 18 18:21	29° <b>8</b> 05'42	2°01'36
max. Earth dist.	3466 Mar 05 04:43	14° <b>)</b> €27'25	10.89432 AU	max. Earth dist.	3472 May 18 18:12	29° <b>8</b> 05'39	10.32982 AU
morning rise	3466 Mar 22 00:42	16° <b>∺</b> 27'39			3472 May 25 22:03	$\Pi^{\circ}0$	
retrograde	3466 Jul 03 12:34	23° <b>)</b> (47'10		morning rise	3472 Jun 05 08:28	1° <b>Ⅱ</b> 18′25	
opposition	3466 Sep 12 06:40	20° <b>¥</b> 25'39	-1°52'41	retrograde	3472 Sep 19 23:30	9° <b>Ⅱ</b> 22'58	
min. Earth dist.	3466 Sep 12 07:07		8.85990 AU	opposition	3472 Nov 27 16:49	5° <b>П</b> 54'56	-2°22'23
direct	3466 Nov 20 14:51	17° <b>)</b> €07'00	0.03770 110	min. Earth dist.	3472 Nov 27 16:22		8.28400 AU
		24° <b>H</b> 15'08				2° <b>П</b> 30'57	6.26400 AU
evening set	3467 Feb 28 10:17	24° <b>π</b> 15'08		direct	3473 Feb 02 13:17		
	246534 15 0402	2 (0) (1 5122	1041105	evening set	3473 May 15 05:33	10° <b>Ⅱ</b> 18'24	
conjunction	3467 Mar 17 04:03	26° <b>∺</b> 15'32				_	
minimum elong	3467 Mar 17 04:01	26° <b>∺</b> 15'31		conjunction	3473 Jun 01 20:12	12° <b>Ⅱ</b> 32'23	-1°46'26
max. Earth dist.	3467 Mar 17 03:08	26° <b>升</b> 15′15	10.82066 AU	minimum elong	3473 Jun 01 20:16	12° <b>∏</b> 32'24	1°46'27
morning rise	3467 Apr 03 00:50	28° <b>∺</b> 16'53		max. Earth dist.	3473 Jun 01 20:00	12° <b>Ⅲ</b> 32'19	10.23954 AU
	3467 Apr 17 23:16	$0^{\circ}\mathbf{\Upsilon}$		morning rise	3473 Jun 19 14:55	14° <b>∏</b> 47'40	
retrograde	3467 Jul 16 06:19	5° <b>Ƴ</b> 43'27		retrograde	3473 Oct 04 05:16	22° <b>Ⅱ</b> 57'16	
opposition	3467 Sep 24 20:49	2° <b>Υ</b> 20'50	-2°14'30	opposition	3473 Dec 11 10:51	19° <b>Ⅱ</b> 28'37	-1°59'48
min. Earth dist.	3467 Sep 24 21:16		8.77965 AU	min. Earth dist.	3473 Dec 11 10:28		8.20071 AU
iiiii. Eattii tist.	3467 Oct 29 06:48	2 1 20 43 30°R <b>)</b> €	8.77903 AU	direct	3474 Feb 16 03:01	16° <b>∏</b> 03'21	6.20071 AU
		*					
direct	3467 Dec 02 16:57	29° <b>)</b> (01'44		evening set	3474 May 29 11:13	23° <b>Ⅱ</b> 57'56	
	3468 Jan 05 10:46	0° <b>Υ</b>				_	
evening set	3468 Mar 11 13:30	6° <b>Ƴ</b> 14'30		conjunction	3474 Jun 16 06:32	26° <b>∏</b> 14'21	
				minimum elong	3474 Jun 16 06:36	26° <b>∏</b> 14′22	1°25'05
conjunction	3468 Mar 28 08:56	8° <b>Ƴ</b> 16'27	-1°56'35	max. Earth dist.	3474 Jun 16 06:36	26° <b>∏</b> 14'22	10.16508 AU
minimum elong	3468 Mar 28 08:54	8° <b>Ƴ</b> 16′26	1°56'35	morning rise	3474 Jul 04 05:21	28° <b>Ⅲ</b> 31'52	
max. Earth dist.	3468 Mar 28 07:26	8° <b>Ƴ</b> 15'59	10.73404 AU		3474 Jul 16 02:40	$0$ $\circ$ $\odot$	
morning rise	3468 Apr 14 08:10	10° <b>Ƴ</b> 19'32		retrograde	3474 Oct 18 13:08	6° <b>≤</b> 44'37	
retrograde	3468 Jul 28 06:20	17° <b>℃</b> 53'49		opposition	3474 Dec 25 08:18	3° <b>©</b> 15'39	-1°29'57
opposition	3468 Oct 06 15:18	14° <b>Υ</b> 30'01	2030148	min. Earth dist.	3474 Dec 25 07:50		8.13559 AU
• •				iiiii. Eartii uist.			6.13339 AU
min. Earth dist.	3468 Oct 06 16:10	14° <b>Υ</b> 29'51	8.68794 AU	11.	3475 Feb 16 01:50	30°RⅡ	
direct	3468 Dec 14 00:29	11° <b>Υ</b> 10'16		direct	3475 Mar 01 23:56	29° <b>∏</b> 49'09	
evening set	3469 Mar 23 23:34	18° <b>Ƴ</b> 28'40			3475 Mar 15 20:34	$0$ $\circ$ $\odot$	
				evening set	3475 Jun 13 00:21	7° <b>©</b> 50'00	
conjunction	3469 Apr 09 21:28	20° <b>Ƴ</b> 32'31	-2°07'04				
minimum elong	3469 Apr 09 21:27	20° <b>Ƴ</b> 32'31	2°07'03	conjunction	3475 Jun 30 23:41	10° <b>©</b> 08'22	-0°58'32
max. Earth dist.	3469 Apr 09 19:55	20° <b>Ƴ</b> 32'02	10.63766 AU	minimum elong	3475 Jun 30 23:44	10° <b>©</b> 08'23	0°58'32
morning rise	3469 Apr 26 23:40	22° <b>Ƴ</b> 37'41		max. Earth dist.	3475 Jul 01 00:25	10°508'36	10.11088 AU
•	3469 Jul 21 13:09	0°8		morning rise	3475 Jul 19 01:33	12° <b>©</b> 27'31	
retrograde	3469 Aug 10 12:30	0° <b>8</b> 20'01		retrograde	3475 Nov 01 21:56	20°5541'22	
	3469 Aug 30 14:21	30°R <b>Y</b>		opposition	3476 Jan 08 08:04	17° <b>©</b> 12'24	-0°54'26
opposition	3469 Oct 19 14:24	26°Υ55'00	2040122	min. Earth dist.	3476 Jan 08 07:06	17°512'36	8.09263 AU
**		26° <b>Υ</b> 54'48					6.09203 AU
min. Earth dist.	3469 Oct 19 15:28		8.58810 AU	direct	3476 Mar 15 01:06	13°5544'48	
direct	3469 Dec 26 12:53	23° <b>Y</b> 34'24		evening set	3476 Jun 26 19:10	21° <b>©</b> 50'38	
	3470 Mar 28 11:41	0° <b>8</b>					
evening set	3470 Apr 05 17:39	0° <b>8</b> 59'20		conjunction	3476 Jul 14 21:25	24° <b>©</b> 10'18	-0°28'19
				minimum elong	3476 Jul 14 21:26	24° <b>©</b> 10'18	0°28'20
conjunction	3470 Apr 22 18:56	3° <b>8</b> 05'27	-2°11'46	max. Earth dist.	3476 Jul 14 23:03	24° <b>©</b> 10'49	10.08029 AU
minimum elong	3470 Apr 22 18:56	3° <b>8</b> 05'27	2°11'45	morning rise	3476 Aug 02 00:57	26°530'21	
max. Earth dist.	3470 Apr 22 18:03	3° <b>8</b> 05'10	10.53499 AU	-	3476 Aug 31 05:47	$0^{\circ}\Omega$	
morning rise	3470 May 10 00:38	5° <b>8</b> 12'57	-	retrograde	3476 Nov 15 07:21	4° <b>Ω</b> 43'10	
retrograde	3470 Aug 24 01:05	13° <b>8</b> 03'19		opposition	3477 Jan 21 09:02	1°Ω14'28	-0°15'25
•	•	9° <b>8</b> 37'09	2012115	min. Earth dist.		_	8.07450 AU
opposition	3470 Nov 01 18:13			mm. Earth dist.	3477 Jan 21 07:16		0.07430 AU
min. Earth dist.	3470 Nov 01 18:51		8.48388 AU	1.	3477 Feb 05 18:46	30°₹©	
direct	3471 Jan 08 07:30	6° <b>8</b> 15'32		direct	3477 Mar 29 06:06	27° <b>©</b> 45'59	
evening set	3471 Apr 18 20:29	13° <b>8</b> 47'45			3477 May 18 15:52	$0$ $^{\circ}$ $\Omega$	
	3471 Apr 28 13:43	15° <b>8</b>		asc. node	3477 Jun 16 07:00	2° <b>Ω</b> 50′52	
				evening set	3477 Jul 11 17:27	5° O 55'14	

evening set

3477 Jul 11 17:27

5°**Ω**55'14

opposition min. Earth dist.	3501 Nov 22 20:08 3501 Nov 22 20:04 3501 Nov 23 07:38	0°Ⅱ02'18 0°Ⅱ02'19 30°R8	-2°30'10 8.30752 AU	max. Earth dist. morning rise retrograde	3507 Aug 08 14:31 3507 Aug 26 14:42 3507 Dec 08 19:18	16° <b>Ω</b> 15'20 18° <b>Ω</b> 34'13 26° <b>Ω</b> 41'57	10.08519 AU
direct	3502 Jan 28 20:24 3502 Apr 01 16:07	26° <b>8</b> 38'17 0° <b>I</b> I		opposition min. Earth dist.	3508 Feb 13 12:39 3508 Feb 13 10:06	23°Ω14'38 23°Ω15'10	0°45'58 8.10128 AU
evening set	3502 May 10 04:39	4° <b>Ⅲ</b> 23'01		direct evening set	3508 Apr 20 20:57 3508 Aug 04 07:24	19° <b>Ω</b> 45'45 27° <b>Ω</b> 56'54	0.10120710
conjunction minimum elong	3502 May 27 17:15 3502 May 27 17:18	6°Д36'01 6°Д36'02		C	3508 Aug 20 08:20	0° Тұ	
max. Earth dist. morning rise	3502 May 27 18:13 3502 Jun 14 10:00	6°Д36'20 8°Д50'23	10.26143 AU	conjunction minimum elong	3508 Aug 22 09:44 3508 Aug 22 09:42	0° Mp 15'56 0° Mp 15'55	0°52'00 0°52'00
retrograde	3502 Sep 28 23:56	16° <b>I</b> I58'37	2011112	max. Earth dist.	3508 Aug 22 12:46	0° Mp 16'54	10.12301 AU
opposition min. Earth dist.	3502 Dec 06 12:33 3502 Dec 06 11:25	13° <b>Ⅲ</b> 29'42 13° <b>Ⅲ</b> 29'55	8.22075 AU	morning rise retrograde	3508 Sep 09 10:19 3508 Dec 21 19:20	2° Mp 34'24 10° Mp 36'21	
direct	3503 Feb 11 07:38	10° <b>Ⅱ</b> 04'33		opposition	3509 Feb 26 11:23	7° m 10'03	1°22'18
evening set	3503 May 24 06:54	17° <b>Ⅱ</b> 56'37		min. Earth dist.	3509 Feb 26 08:36	7° <b>m</b> 10'37	8.15052 AU
:	2502 L 11 00:20	20° <b>Ⅲ</b> 12'11	1925126	direct	3509 May 05 05:37	3° Mp 41'05	
conjunction minimum elong	3503 Jun 11 00:20 3503 Jun 11 00:23	20° <b>I</b> 12'11 20° <b>I</b> 12'12		evening set	3509 Aug 19 03:08	11° <b>m</b> 50'37	
max. Earth dist.	3503 Jun 11 00:23		10.18244 AU	conjunction	3509 Sep 06 02:55	14° m 08'00	1°19'24
morning rise	3503 Jun 28 21:17	22° <b>Ⅱ</b> 28'54		minimum elong	3509 Sep 06 02:52	14° <b>m</b> 07'59	1°19'23
	3503 Sep 15 12:18	0ಂಣ		max. Earth dist.	3509 Sep 06 05:46	14° <b>M</b> 08'55	10.18215 AU
retrograde	3503 Oct 13 08:07	0°941'11		morning rise	3509 Sep 23 23:47	16° Mp 24′28	
•.•	3503 Nov 10 06:25	30°RⅡ	104490	retrograde	3510 Jan 04 15:03	24° m 19'35	1050100
opposition	3503 Dec 20 09:00	27° <b>I</b> I11'57		opposition	3510 Mar 12 07:02	20° m 54'25	1°53'22
min. Earth dist. direct	3503 Dec 20 06:57 3504 Feb 25 00:41	23° <b>II</b> 45'45	8.15026 AU	min. Earth dist. direct	3510 Mar 12 04:32 3510 May 19 11:56	20° m/54'55 17° m/25'39	8.21879 AU
direct	3504 May 23 14:43	0°95		evening set	3510 Sep 02 16:58	25° m/31'54	
evening set	3504 Jun 06 17:09	1°544'27		<i>3</i>	ı		
				conjunction	3510 Sep 20 13:06	27° <b>m</b> 47'07	1°41'54
conjunction	3504 Jun 24 14:53	4° <b>©</b> 02'10		minimum elong	3510 Sep 20 13:03	27° Mp 47'06	1°41'54
minimum elong	3504 Jun 24 14:56		1°11'14	max. Earth dist.	3510 Sep 20 15:23		10.25777 AU
max. Earth dist.	3504 Jun 24 17:31	6°\$20'49	10.12217 AU	morning rise	3510 Oct 08 05:25 3510 Oct 08 01:38	0° <b>ರ್</b> 11,11	
morning rise retrograde	3504 Jul 12 15:23 3504 Oct 26 18:57	14°S35'09		retrograde	3510 Oct 08 01:38 3511 Jan 18 03:33	0 <b>==</b> 7° <b>£</b> 48'53	
opposition	3505 Jan 02 08:31	11°905'57	-1°11'13	opposition	3511 Mar 25 22:50	4° <b>£</b> 24'59	2°17'32
min. Earth dist.	3505 Jan 02 06:06	11° <b>©</b> 06'27	8.10059 AU	min. Earth dist.	3511 Mar 25 21:09	4° <b>£</b> 25'19	8.30128 AU
direct	3505 Mar 09 22:46	7° <b>5</b> 38'48		direct	3511 Jun 02 15:39	0° <b>ჲ</b> 56'43	
evening set	3505 Jun 21 10:19	15° <b>©</b> 43'04		evening set	3511 Sep 16 23:08	8° <b>≏</b> 58'17	
conjunction	3505 Jul 09 11:25	18° <b>©</b> 02'23	-0°42'24	conjunction	3511 Oct 04 15:00	11° <b>≏</b> 11'02	1°58'28
minimum elong	3505 Jul 09 11:27	18°502'23	0°42'25	minimum elong	3511 Oct 04 14:58	11° <b>Ω</b> 11'01	1°58'28
max. Earth dist. morning rise	3505 Jul 09 14:16 3505 Jul 27 14:22	18°903'18	10.08454 AU	max. Earth dist. morning rise	3511 Oct 04 16:27 3511 Oct 22 02:35	11° <b>£</b> 11′29 13° <b>£</b> 22′30	10.34557 AU
retrograde	3505 Jul 27 14.22 3505 Nov 10 06:16	20 \$322 10 28°\$36'27		retrograde	3511 Oct 22 02.33 3512 Jan 31 09:00	13 <b>=</b> 22 30 21° <b>⊆</b> 02'37	
opposition	3506 Jan 16 09:46	25° <b>©</b> 07'37	-0°33'24	opposition	3512 Apr 07 10:22	17° <b>£</b> 39'58	2°33'48
min. Earth dist.	3506 Jan 16 07:24		8.07510 AU	min. Earth dist.	3512 Apr 07 09:48	17° <b>≏</b> 40'04	8.39405 AU
direct	3506 Mar 24 02:53	21° <b>©</b> 39'39		direct	3512 Jun 15 15:03	14° <b>≏</b> 12'25	
evening set	3506 Jul 06 08:14 3506 Jul 07 21:44	29° <b>©</b> 48'05 0° <b>Ω</b>		evening set	3512 Sep 29 20:17	22° <b>≏</b> 08'01	
		_		conjunction	3512 Oct 17 07:47	24° <b>≙</b> 18'12	2°08'30
conjunction	3506 Jul 24 11:21	2° <b>Ω</b> 08'10		minimum elong	3512 Oct 17 07:46	24° <b>≙</b> 18'12	
minimum elong	3506 Jul 24 11:22	2° <b>Ω</b> 08'11	0°10'56	max. Earth dist.	3512 Oct 17 07:57		10.44173 AU
behind sun begin behind sun end	3506 Jul 24 05:53 3506 Jul 24 16:50	2° <b>Ω</b> 06'25 2° <b>Ω</b> 09'56		morning rise	3512 Nov 03 14:54 3512 Dec 04 15:22	26° <b>≏</b> 27'04 0° <b>™</b>	
max. Earth dist.	3506 Jul 24 14:08		10.07198 AU	retrograde	3512 Dec 04 13.22 3513 Feb 12 08:17	3°M59'36	
morning rise	3506 Aug 11 15:13	4° <b>Ω</b> 28'29	10.07170110	opposition	3513 Apr 20 17:14	0°M38'07	2°41'47
retrograde	3506 Nov 24 14:45	12° <b>Ω</b> 40'22		min. Earth dist.	3513 Apr 20 17:18	0°M38'06	8.49290 AU
asc. node	3506 Nov 29 18:03	12° <b>Ω</b> 38'54			3513 Apr 28 20:18	30° <b>₹</b> Ω	
opposition	3507 Jan 30 11:39	9° <b>Ω</b> 12'12		direct	3513 Jun 29 09:02	27° <b>≙</b> 11'28	
min. Earth dist.	3507 Jan 30 09:22	9° <b>Ω</b> 12'40	8.07540 AU		3513 Aug 27 20:48	0°M	
direct	3507 Apr 07 11:09	5° <b>Ω</b> 43'39		evening set	3513 Oct 13 07:54	5°ML00'07	
evening set	3507 Jul 21 08:11 3507 Jul 29 21:25	13° <b>Ω</b> 54'26 15° <b>Ω</b>		conjunction	3513 Oct 30 15:14	7° <b>IIL</b> 07'49	2°11'52
	550 jui 43 41.43	1006		minimum elong	3513 Oct 30 15:14 3513 Oct 30 15:14	7°11L0749	
conjunction	3507 Aug 08 11:41	16° <b>Ω</b> 14'25	0°21'17	max. Earth dist.	3513 Oct 30 13:14 3513 Oct 30 14:31		10.54182 AU
minimum elong	3507 Aug 08 11:40	16° <b>Ω</b> 14'25		morning rise	3513 Nov 16 18:17	9° <b>M</b> .14'11	-

	3514 Jan 12 06:24	15° <b>M</b> ₊		ratrograda	2520 May 06 15:01	27°₹48'06	
rotro aro do	3514 Jan 12 00:24 3514 Feb 25 00:22	15 IIL 16°M39'25		retrograde opposition	3520 May 06 15:01 3520 Jul 15 20:21	21° <b>ろ</b> 29'54	0°35'11
retrograde	3514 Apr 11 01:43	10 1103923 15°RM		min. Earth dist.	3520 Jul 15 20:21 3520 Jul 15 21:00	24 <b>3</b> 2934 24° <b>3</b> 29'47	8.99801 AU
opposition	3514 May 03 19:13	13°M18'59	2°41'39	direct	3520 Sep 24 18:35	24 32947 21° <b>る</b> 10'01	6.99601 AU
	•				3520 Sep 24 18.33 3521 Jan 04 08:33	21 31001 28° <b>3</b> 15'15	
min. Earth dist.	3514 May 03 19:19	13°M18'58	8.59319 AU	evening set		28°€1515	
direct	3514 Jul 12 21:37	9°M53'20			3521 Jan 19 05:01	0°≈	
. ,	3514 Oct 04 00:25	15°M			2521 1 21 01 00	00 - 12104	0015144
evening set	3514 Oct 26 09:40	17°M34'28		conjunction	3521 Jan 21 01:08	0°≈13'04	0°15'44
				minimum elong	3521 Jan 21 01:09	0°≈13'04	0°15'45
conjunction	3514 Nov 12 13:24	19°M39'51	2°08'49	behind sun begin	3521 Jan 20 23:21	0° <b>≈</b> 12'33	
minimum elong	3514 Nov 12 13:25	19°M39'51	2°08'50	behind sun end	3521 Jan 21 02:56	0° <b>≈</b> 13'35	
max. Earth dist.	3514 Nov 12 12:39	19°M39'37	10.64118 AU	max. Earth dist.	3521 Jan 20 23:58		11.00500 AU
morning rise	3514 Nov 29 12:57	21°M43'58		morning rise	3521 Feb 06 16:57	2°≈10'42	
retrograde	3515 Mar 09 11:16	29°M02'33		retrograde	3521 May 18 14:09	9° <b>≈</b> 13'31	
opposition	3515 May 16 16:33	25°M42'58	2°33'55	opposition	3521 Jul 28 01:12	5° <b>≈</b> 55'01	0°03'09
min. Earth dist.	3515 May 16 16:19	25°M43′00	8.69031 AU	min. Earth dist.	3521 Jul 28 02:17	5° <b>≈</b> 54'49	9.00709 AU
direct	3515 Jul 26 04:22	22°M18'23		desc. node	3521 Sep 02 19:05	3° <b>≈</b> 29'38	
evening set	3515 Nov 08 01:57	29°M51'50		direct	3521 Oct 06 18:35	2° <b>≈</b> 35'44	
	3515 Nov 09 05:23	0° <b>∡</b> 7		evening set	3522 Jan 15 19:29	9° <b>≈</b> 38'51	
conjunction	3515 Nov 25 02:42	1° <b>∡</b> 755′09	1°59'54	conjunction	3522 Feb 01 11:26	11° <b>≈</b> 36'32	-0°10'40
minimum elong	3515 Nov 25 02:44	1° <b>∡</b> 755'10	1°59'54	minimum elong	3522 Feb 01 11:25	11° <b>≈</b> 36'32	0°10'39
max. Earth dist.	3515 Nov 25 02:30	1° <b>≯</b> 755'05	10.73523 AU	behind sun begin	3522 Feb 01 05:58	11° <b>≈</b> 34'56	
morning rise	3515 Dec 11 23:24	3° <b>₹</b> 57'18		behind sun end	3522 Feb 01 16:52	11° <b>≈</b> 38′08	
retrograde	3516 Mar 20 18:52	11° <b>√</b> 10′07		max. Earth dist.	3522 Feb 01 09:23	11° <b>≈</b> 35'57	11.00417 AU
opposition	3516 May 28 09:25	7° <b>∡</b> 751'12	2°19'26	morning rise	3522 Feb 18 03:39	13° <b>≈</b> 34'18	
min. Earth dist.	3516 May 28 09:40	7° <b>х</b> 51'09	8.77986 AU		3522 Mar 02 17:52	15° <b>≈</b>	
direct	3516 Aug 07 03:14	4° <b>×</b> 127'42	0.77500110	retrograde	3522 May 30 13:29	20°≈39'27	
evening set	3516 Nov 19 10:01	11° <b>×</b> 53'44		opposition	3522 Aug 09 06:21	17°≈20'26	-0°29'02
e venning see	33101101 17 10.01	11 7 33 11		min. Earth dist.	3522 Aug 09 07:57		8.99631 AU
conjunction	3516 Dec 06 08:11	13° <b>₹</b> '55'18	1°45'50	mm. Larm dist.	3522 Nag 05 07:57 3522 Sep 13 09:13	17 <b>≈</b> 20 00	0.77051 710
minimum elong	3516 Dec 06 08:11	13° 🖈 55'19	1°45'49	direct	3522 Sep 13 07:13 3522 Oct 18 16:43	14°≈01'35	
max. Earth dist.	3516 Dec 06 08:13		10.81977 AU	direct	3522 Oct 18 10.43 3522 Nov 22 07:18	14 ≈01 33 15°≈	
	3516 Dec 00 07:33 3516 Dec 23 02:48	15° <b>₹</b> ′55′51	10.819// AU	avanina aat	3522 Nov 22 07:18 3523 Jan 27 06:56	13 ≈ 21°≈04'00	
morning rise				evening set	3323 Jan 27 00.30	21 ≈04 00	
retrograde	3517 Apr 01 20:33	23°×703'54	1050112		2522 F. L. 12, 22, 42	22001152	0026126
opposition	3517 Jun 09 22:17	19° 🖈 45'30	1°59'13	conjunction	3523 Feb 12 22:43	23°≈01'53	
min. Earth dist.	3517 Jun 09 23:23	19° <b>∡</b> 45'17	8.85813 AU	minimum elong	3523 Feb 12 22:42	23°≈01'53	
direct	3517 Aug 19 19:21	16° <b>≯</b> 23'00		max. Earth dist.	3523 Feb 12 20:44		10.98346 AU
evening set	3517 Dec 01 10:55	23° <b>∡</b> ⁴42'18		morning rise	3523 Mar 01 15:37	25°≈00'06	
		_			3523 Apr 20 06:41	0° <b>∀</b>	
conjunction	3517 Dec 18 06:56	25° <b>⊀</b> 142'25		retrograde	3523 Jun 11 16:38	2° <b>)</b> €09'00	
minimum elong	3517 Dec 18 06:58	25° <b>⊀</b> ¹42'26	1°27'27		3523 Aug 05 06:46	30° <b>₹</b> ≈	
max. Earth dist.	3517 Dec 18 05:20	25° <b>⊀</b> 41'56	10.89147 AU	opposition	3523 Aug 21 12:23	28° <b>≈</b> 49'15	-1°00'13
morning rise	3518 Jan 04 00:13	27° <b>҂</b> 741'44		min. Earth dist.	3523 Aug 21 13:35	28° <b>≈</b> 49'01	8.96600 AU
	3518 Jan 24 11:46	0°ප		direct	3523 Oct 30 16:02	25° <b>≈</b> 30'37	
retrograde	3518 Apr 13 19:10	4° <b>る</b> 46'20			3524 Jan 15 19:08	0° <b>ℋ</b>	
opposition	3518 Jun 22 08:00	1° <b>る</b> 28'12	1°34'21	evening set	3524 Feb 07 20:18	2° <b>升</b> 33'45	
min. Earth dist.	3518 Jun 22 09:28	1° <b>る</b> 27'56	8.92211 AU				
	3518 Jul 12 16:33	30°₽ <b>҂</b>		conjunction	3524 Feb 24 12:25	4° <b>)</b> 32′12	-1°01'15
direct	3518 Sep 01 08:46	28° <b>₰</b> 06'39		minimum elong	3524 Feb 24 12:23	4° <b>)</b> 32′11	1°01'16
	3518 Oct 20 10:51	0°₹		max. Earth dist.	3524 Feb 24 11:17	4° <b>)</b> 31′51	10.94354 AU
evening set	3518 Dec 13 05:45	5° <b>පි</b> 20'06		morning rise	3524 Mar 12 06:10	6° <b>)</b> 31′09	
				retrograde	3524 Jun 23 01:05	13° <b>)</b> 45′05	
conjunction	3518 Dec 30 00:12	7° <b>る</b> 19'07	1°05'42	opposition	3524 Sep 01 20:32	10° <b>)</b> 24′28	-1°29'15
minimum elong	3518 Dec 30 00:14			min. Earth dist.	3524 Sep 01 20:59		8.91719 AU
max. Earth dist.	3518 Dec 29 22:20		10.94759 AU	direct	3524 Nov 10 14:16	7° <b>)</b> €05'53	
morning rise	3519 Jan 15 16:39	9° <b>ට</b> 17'31		evening set	3525 Feb 18 13:06	14° <b>)</b> €11'05	
retrograde	3519 Apr 25 17:31	16° <b>පි</b> 20'06				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
opposition	3519 Jul 04 15:04	13° <b>ろ</b> 02'01	1°05'58	conjunction	3525 Mar 07 05:48	16° <b>₩</b> 10'23	-1°23'38
min. Earth dist.	3519 Jul 04 15:58	13° <b>さ</b> 02'01	8.96934 AU	minimum elong	3525 Mar 07 05:46	16° <del>X</del> 10'22	
direct	3519 Sep 13 16:07	9° <b>る</b> 41'22	5.70757 AU	max. Earth dist.	3525 Mar 07 05:46 3525 Mar 07 05:05		1 23 39 10.88589 AU
evening set	3519 Sep 13 10.07 3519 Dec 24 20:26	9 341 22 16°る50'03		morning rise	3525 Mar 24 00:51	18° <b> ★</b> 10'26	10.00007 AU
evening set	5517 DCC 27 20.20	10 03003		retrograde	3525 Jul 05 13:38	25°\(\frac{1020}{30'32}\)	
conjunction	3520 Jan 10 13:52	18° <b>る</b> 48'18	0°41'29	opposition	3525 Sep 14 07:39	23 <b>X</b> 30 32 22° <b>X</b> 08'54	-1°54'50
minimum elong	3520 Jan 10 13:52 3520 Jan 10 13:53	18°る48'18	0°41′29 0°41′29	min. Earth dist.	3525 Sep 14 07:53		8.85177 AU
max. Earth dist.	3520 Jan 10 13:53 3520 Jan 10 12:43		10.98593 AU		3525 Sep 14 07:53 3525 Nov 22 14:24	18° <b>H</b> 50'09	0.031// AU
	3520 Jan 10 12:43 3520 Jan 27 05:46	18°54/'38 20° <b>5</b> 46'10	10.76373 AU	direct		25° <del>X</del> 58'44	
morning rise	3320 Jan 21 U3.40	20 040 10		evening set	3526 Mar 02 10:47	23 <b>八</b> 3844	

aaniumatian	2526 Mar. 10, 04:21	27° <b>¥</b> 59'14	1942146	minimum elong	3532 Jun 03 22:39	14° <b>Ⅱ</b> 19'19	1944!24
conjunction	3526 Mar 19 04:31	27 <b>X</b> 59 14 27° <b>X</b> 59'14		Č			
minimum elong	3526 Mar 19 04:29			max. Earth dist.	3532 Jun 03 22:04		10.24272 AU
max. Earth dist.	3526 Mar 19 03:14		10.81288 AU	morning rise	3532 Jun 21 17:35	16° <b>Ⅲ</b> 34'35	
	3526 Apr 04 23:05	0° <b>Υ</b>		retrograde	3532 Oct 06 05:45	24° <b>Ⅱ</b> 43'48	
morning rise	3526 Apr 05 01:31	0° <b>Υ</b> 00'43		opposition	3532 Dec 13 12:17	21° <b>Ⅱ</b> 15'16	
retrograde	3526 Jul 18 08:18	7° <b>Y</b> 27'52		min. Earth dist.	3532 Dec 13 12:15		8.20455 AU
opposition	3526 Sep 26 22:17	4° <b>Υ</b> 05'08		direct	3533 Feb 18 05:39	17° <b>Ⅱ</b> 50′01	
min. Earth dist.	3526 Sep 26 22:57	4° <b>Y</b> 05′00	8.77239 AU	evening set	3533 May 31 13:10	25° <b>Ⅱ</b> 44'25	
direct	3526 Dec 04 17:51	0° <b>Ƴ</b> 45'58					
evening set	3527 Mar 14 14:20	7° <b>Ƴ</b> 59'08		conjunction	3533 Jun 18 08:46	28° <b>Ⅱ</b> 00'50	
				minimum elong	3533 Jun 18 08:49	28° <b>Ⅱ</b> 00'51	1°22'44
conjunction	3527 Mar 31 09:55	10° <b>Ƴ</b> 01'12	-1°57'44	max. Earth dist.	3533 Jun 18 09:11	28° <b>Ⅱ</b> 00'58	10.16961 AU
minimum elong	3527 Mar 31 09:53	10° <b>Ƴ</b> 01'11	1°57'44		3533 Jul 03 21:38	0°€	
max. Earth dist.	3527 Mar 31 08:41	10° <b>Ƴ</b> 00'49	10.72737 AU	morning rise	3533 Jul 06 07:43	0°ഇ18'18	
morning rise	3527 Apr 17 09:22	12° <b>Ƴ</b> 04'26		retrograde	3533 Oct 20 13:45	8° <b>©</b> 30'36	
retrograde	3527 Jul 31 07:42	19° <b>Ƴ</b> 39'13		opposition	3533 Dec 27 09:24	5° <b>©</b> 01'45	-1°26'48
opposition	3527 Oct 09 16:59	16° <b>Ƴ</b> 15′20	-2°31'54	min. Earth dist.	3533 Dec 27 08:43	5° <b>©</b> 01'53	8.14067 AU
min. Earth dist.	3527 Oct 09 17:42	16° <b>Ƴ</b> 15′12	8.68201 AU	direct	3534 Mar 04 01:13	1° <b>©</b> 35'18	
direct	3527 Dec 17 01:24	12° <b>Y</b> 55'32		evening set	3534 Jun 15 02:10	9° <b>©</b> 35'52	
evening set	3528 Mar 26 00:54	20° <b>Ƴ</b> 14'19		Č			
8				conjunction	3534 Jul 03 01:47	11° <b>©</b> 54'11	-0°55'52
conjunction	3528 Apr 11 23:04	22° <b>Ƴ</b> 18'17	-2°07'39	minimum elong	3534 Jul 03 01:50	11°954'12	
minimum elong	3528 Apr 11 23:03	22° <b>Υ</b> 18'17		max. Earth dist.	3534 Jul 03 03:11		10.11651 AU
max. Earth dist.	3528 Apr 11 22:44		10.63251 AU	morning rise	3534 Jul 21 03:40	14°9513'17	10.11031710
morning rise	3528 Apr 29 01:22	24° <b>Y</b> 23'33	10.03231710	retrograde	3534 Nov 03 23:30	22° <b>©</b> 26'33	
morning rise	3528 Jun 22 08:11	0° <b>8</b>		opposition	3535 Jan 10 08:44	18° <b>©</b> 57'41	0°51'00
ratragrada	3528 Juli 22 08:11 3528 Aug 12 13:56	2° <b>8</b> 06'17		min. Earth dist.	3535 Jan 10 08:44 3535 Jan 10 07:16	18°957'59	8.09868 AU
retrograde	3528 Aug 12 13.36 3528 Oct 04 06:14	2 000 17 30°RΥ		direct	3535 Jan 10 07.16 3535 Mar 18 02:01	18 \$37.39 15°\$30'09	8.09808 AU
onnosition		30 K 1 28° <b>Υ</b> 41'12	2940/52				
opposition	3528 Oct 21 16:08			evening set	3535 Jun 29 20:51	23° <b>©</b> 35'40	
min. Earth dist.	3528 Oct 21 16:15	28° <b>Y</b> 41'11	8.58402 AU		2525 1 17 22 14	250655112	0005101
direct	3528 Dec 28 15:08	25° <b>Y</b> 20'35		conjunction	3535 Jul 17 23:14	25°955'13	
	3529 Mar 14 22:34	0°8		minimum elong	3535 Jul 17 23:15	25°955'14	
evening set	3529 Apr 07 19:22	2° <b>8</b> 45'48		max. Earth dist.	3535 Jul 18 01:23		10.08672 AU
				morning rise	3535 Aug 05 02:39	28°515'10	
conjunction	3529 Apr 24 20:55	4° <b>8</b> 52'01		_	3535 Aug 19 05:16	$0^{\circ}\Omega$	
minimum elong	3529 Apr 24 20:55	4° <b>8</b> 52'01		retrograde	3535 Nov 18 08:15	6° <b>Ω</b> 27'21	
max. Earth dist.	3529 Apr 24 21:09	_	10.53200 AU	opposition	3536 Jan 24 09:21	2° <b>Ω</b> 58'46	
morning rise	3529 May 12 02:43	6° <b>8</b> 59'36		min. Earth dist.	3536 Jan 24 07:18		8.08120 AU
retrograde	3529 Aug 26 04:09	14° <b>8</b> 50'10			3536 Mar 08 02:05	30° <b>₹</b> 5	
opposition	3529 Nov 03 20:05	11° <b>8</b> 23'58		direct	3536 Mar 31 07:04	29° <b>©</b> 30'21	
min. Earth dist.	3529 Nov 03 19:42	11° <b>8</b> 24'03	8.48218 AU		3536 Apr 23 10:26	$0^{\circ}\Omega$	
direct	3530 Jan 10 08:41	8° <b>8</b> 02'21		asc. node	3536 May 16 06:05	1° <b>Ω</b> 22'44	
	3530 Apr 16 04:37	15° <b>8</b>		evening set	3536 Jul 13 18:44	7° <b>Ω</b> 39'13	
evening set	3530 Apr 20 22:26	15° <b>8</b> 34'40					
				conjunction	3536 Jul 31 22:20	9° <b>Ω</b> 59'11	0°06'32
conjunction	3530 May 08 03:59	17° <b>8</b> 43'23	-2°09'22	minimum elong	3536 Jul 31 22:20	9° <b>Ω</b> 59'11	0°06'32
minimum elong	3530 May 08 04:00	17° <b>8</b> 43'23	2°09'21	behind sun begin	3536 Jul 31 15:27	9° <b>Ω</b> 56'58	
max. Earth dist.	3530 May 08 03:48	17° <b>8</b> 43'19	10.42987 AU	behind sun end	3536 Aug 01 05:14	10° <b>Ω</b> 01′23	
morning rise	3530 May 25 13:58	19° <b>8</b> 53'32		max. Earth dist.	3536 Aug 01 00:55	9° <b>Ω</b> 59'59	10.08204 AU
retrograde	3530 Sep 09 00:57	27° <b>8</b> 51'27		morning rise	3536 Aug 19 01:45	12° <b>Ω</b> 19'07	
opposition	3530 Nov 17 04:58	24° <b>8</b> 24'17	-2°35'31		3536 Sep 10 02:19	15° <b>Ω</b>	
min. Earth dist.	3530 Nov 17 04:42	24° <b>8</b> 24'20	8.38095 AU	retrograde	3536 Dec 01 14:26	20° <b>Ω</b> 28'17	
direct	3531 Jan 23 07:36	21° <b>8</b> 01'31		opposition	3537 Feb 06 09:55	17° <b>Ω</b> 00'16	0°27'56
evening set	3531 May 04 10:37	28° <b>8</b> 41'24		min. Earth dist.	3537 Feb 06 07:53	17° <b>Ω</b> 00'41	8.08922 AU
8	3531 May 14 21:45	0°II			3537 Mar 04 09:34	15°RΩ	
		_		direct	3537 Apr 14 14:12	13° <b>Ω</b> 31'12	
conjunction	3531 May 21 20:40	0° <b>Ⅱ</b> 52'46	-2°00'17		3537 May 25 10:04	15° <b>Ω</b>	
minimum elong	3531 May 21 20:42	0° <b>П</b> 52'46		evening set	3537 Jul 28 17:42	21° <b>Ω</b> 41'40	
max. Earth dist.	3531 May 21 20:42 3531 May 21 20:01		10.33135 AU	c.cimig set	200, 001 20 17.72	0611 40	
morning rise	3531 Jun 08 11:10	3° <b>I</b> I05'32	10.55155 AU	conjunction	3537 Aug 15 20:50	24° <b>Ω</b> 01'10	0°38'02
retrograde	3531 Juli 08 11:10 3531 Sep 23 01:09	11° <b>П</b> 09'50		minimum elong	3537 Aug 15 20:48	24° <b>Ω</b> 01'09	
•	3531 Sep 23 01:09 3531 Nov 30 18:28	7° <b>II</b> 41'53	ว∘ว∩เวว	max. Earth dist.	•		10.10253 AU
opposition min. Earth dist.			8.28636 AU		3537 Aug 15 23:01	24° <b>Ω</b> 20'15	10.10233 AU
	3531 Nov 30 18:29		0.40030 AU	morning rise	3537 Sep 02 22:38		
direct	3532 Feb 05 15:32	4° <b>Ⅱ</b> 17'53		ratno a J -	3537 Oct 03 19:33	0°Mp 4°m>24!29	
evening set	3532 May 17 07:43	12° <b>Ⅱ</b> 05'17		retrograde	3537 Dec 15 16:53	4° Mp 24'38	1005154
	2522 1. 02.22.25	1401110110	1044/22	opposition	3538 Feb 20 09:02	0° Mp 57'26	1°05'54
conjunction	3532 Jun 03 22:35	14° <b>Ⅱ</b> 19'18	-1-44/33	min. Earth dist.	3538 Feb 20 07:33	0° <b>m</b> ,57'44	8.12200 AU

	3538 Mar 04 04:34	30° <b>₽</b> Ω		direct	3544 Jul 19 07:09	16°M42'27	
direct	3538 Apr 28 22:05	27° <b>Ω</b> 28'01		evening set	3544 Nov 01 12:14	24°M19'26	
	3538 Jun 22 10:51	0° m		C			
evening set	3538 Aug 12 14:43	5° <b>m</b> )38'11		conjunction	3544 Nov 18 14:17	26°M23'40	2°04'44
S	C	•		minimum elong	3544 Nov 18 14:18	26°M23'40	2°04'45
conjunction	3538 Aug 30 15:48	7° m 56'25	1°07'07	max. Earth dist.	3544 Nov 18 13:58		10.69225 AU
minimum elong	3538 Aug 30 15:45	7° Mp 56'24	1°07'06	morning rise	3544 Dec 05 12:23	28°M26'42	10.07220110
max. Earth dist.	3538 Aug 30 17:19		10.14670 AU	morning rise	3544 Dec 18 20:01	0°×7	
morning rise	3538 Sep 17 14:35	10° <b>m</b> 13'54	10.11070710	retrograde	3545 Mar 15 08:25	5° <b>∡</b> 142'00	
retrograde	3538 Dec 29 14:14	18° Mp 12'10		opposition	3545 May 22 18:56	2°×122'50	2°26'59
opposition	3539 Mar 06 05:50	14° <b>m</b> 45'59	1°39'37	min. Earth dist.	3545 May 22 19:04	2°×722'48	8.74083 AU
min. Earth dist.	3539 Mar 06 04:36	14° Mp 46'14		mm. Latin dist.	3545 Jun 26 10:44	30°RM	6.74063 AC
direct	3539 May 13 05:45	11° Mp 16'33	6.17732 AU	direct	3545 Aug 01 09:32	28°M58'53	
	3539 Aug 27 06:57	-		direct		20 11€3033 0° <b>√</b> 7	
evening set	3339 Aug 27 00.37	19° <b>m</b> 24'27		avanina aat	3545 Sep 05 21:05 3545 Nov 14 00:09	0 <b>x</b> . 6° <b>x</b> 28'22	
agnismation	2520 Com 14 04:47	210 m 40146	1022102	evening set	3343 NOV 14 00.09	0 X·28 ZZ	
conjunction	3539 Sep 14 04:47	21° m 40'46			2545 NI 20, 22-22	00.720141	1952100
minimum elong	3539 Sep 14 04:44	21° m/40'45	1°32'01	conjunction	3545 Nov 30 23:23	8° 🗷 30'41	1°53'00
max. Earth dist.	3539 Sep 14 05:57		10.21171 AU	minimum elong	3545 Nov 30 23:25	8° <b>₹</b> 30'42	1°53'00
morning rise	3539 Oct 01 23:31	23° m 56'05		max. Earth dist.	3545 Nov 30 22:49		10.78486 AU
	3539 Nov 28 08:30	0∘ <b>⊽</b>		morning rise	3545 Dec 17 19:04	10° <b>∡</b> 31'57	
retrograde	3540 Jan 12 04:02	1° <b>≏</b> 47'20		retrograde	3546 Mar 27 12:23	17° <b>∡</b> ⁴42'03	
	3540 Feb 26 23:25	30°R, My		opposition	3546 Jun 04 09:41	14° <b>≯</b> 23'38	
opposition	3540 Mar 18 23:10	28° <b>m</b> 22'18		min. Earth dist.	3546 Jun 04 09:28	14° <b>≯</b> 23'41	8.82790 AU
min. Earth dist.	3540 Mar 18 21:49		8.25165 AU	direct	3546 Aug 14 05:47	11° <b>∡</b> ¹00'57	
direct	3540 May 26 12:00	24° <b>m</b> 53'12		evening set	3546 Nov 26 04:23	18° <b>≯</b> 23'22	
	3540 Aug 15 17:40	0∘ <b>ত</b>					
evening set	3540 Sep 09 16:29	2° <b>£</b> 57'06		conjunction	3546 Dec 13 01:28	20° <b>₹</b> 24'06	1°36'32
				minimum elong	3546 Dec 13 01:30	20° <b>∡</b> ¹24'07	1°36'32
conjunction	3540 Sep 27 10:24	5° <b>≏</b> 11'05	1°51'28	max. Earth dist.	3546 Dec 13 01:22	20° <b>尽</b> 24'04	10.86599 AU
minimum elong	3540 Sep 27 10:22	5° <b>£</b> 11'04	1°51'27	morning rise	3546 Dec 29 19:18	22° <b>҂</b> ¹23'56	
max. Earth dist.	3540 Sep 27 11:29	5° <b>£</b> 11'26	10.29365 AU	retrograde	3547 Apr 08 14:47	29° <b>₹</b> 30'01	
morning rise	3540 Oct 15 00:30	7° <b>£</b> 23'52		opposition	3547 Jun 16 20:57	26° <b>҂</b> 12'09	1°46'29
retrograde	3541 Jan 24 12:03	15° <b>≏</b> 07'34		min. Earth dist.	3547 Jun 16 20:52	26° <b>₹</b> 12'10	8.90174 AU
opposition	3541 Apr 01 12:13	11° <b>≏</b> 43'45	2°27'11	direct	3547 Aug 26 20:30	22° <b>₹</b> ¹50'37	
min. Earth dist.	3541 Apr 01 10:30	11° <b>≏</b> 44'05	8.34054 AU		3547 Dec 07 03:13	0°రె	
direct	3541 Jun 09 13:10	8° <b>£</b> 15'17		evening set	3547 Dec 08 02:14	0° <b>る</b> 06'43	
evening set	3541 Sep 23 17:41	16° <b>£</b> 13'43		C			
C	•			conjunction	3547 Dec 24 21:33	2° <b>පි</b> 06'11	1°16'15
conjunction	3541 Oct 11 07:23	18° <b>≏</b> 25'10	2°04'35	minimum elong	3547 Dec 24 21:35	2° <b>පි</b> 06'12	1°16'14
minimum elong	3541 Oct 11 07:21	18° <b>≏</b> 25'10	2°04'35	max. Earth dist.	3547 Dec 24 21:15	2° <b>る</b> 06'06	10.93225 AU
max. Earth dist.	3541 Oct 11 08:48		10.38776 AU	morning rise	3548 Jan 10 14:13	4° <b>る</b> 04'56	
morning rise	3541 Oct 28 16:41	20° <b>£</b> 35'17		retrograde	3548 Apr 19 13:45	11° <b>る</b> 08'15	
retrograde	3542 Feb 06 14:54	28° <b>£</b> 11'17		opposition	3548 Jun 28 05:27	7°る50'42	1°19'36
opposition	3542 Apr 14 20:55	24° <b>Ω</b> 48'44	2°39'03	min. Earth dist.	3548 Jun 28 06:21	7° <b>る</b> 50'32	
min. Earth dist.	3542 Apr 14 19:19	24° <b>Ω</b> 49'03	8.43898 AU	direct	3548 Sep 07 04:33	4° <b>ට</b> 30'11	0.50520110
direct	3542 Jun 23 08:26	21° <b>£</b> 21'12	0.15070110	evening set	3548 Dec 18 19:15	11° <b>る</b> 40'59	
evening set	3542 Oct 07 09:24	29° <b>₽</b> 13'01		evening sec	33 10 B <b>cc</b> 10 17.13	11 0.037	
evening sec	3542 Oct 13 18:42	0°M		conjunction	3549 Jan 04 13:02	13° <b>る</b> 39'30	0°53'04
	33 12 000 13 10.12	0 110		minimum elong	3549 Jan 04 13:04	13° <b>る</b> 39'31	0°53'04
conjunction	3542 Oct 24 18:52	1°M21'54	2°11'04	max. Earth dist.	3549 Jan 04 11:20		10.98071 AU
minimum elong	3542 Oct 24 18:51	1°M21'54		morning rise	3549 Jan 21 05:08	15° <b>る</b> 37'32	10.50071710
max. Earth dist.	3542 Oct 24 10:31 3542 Oct 24 20:22		10.48893 AU	retrograde	3549 May 01 10:11	22° <b>る</b> 39'32	
morning rise	3542 Nov 10 23:42	3°M29'26	10.400/3 AC	opposition	3549 Jul 10 11:52	19° <b>පි</b> 22'00	0°49'49
retrograde	3542 Feb 19 10:58	10°M57'56		min. Earth dist.	3549 Jul 10 13:35	19° <b>る</b> 22'00	8.99768 AU
-		7°M36'38	2042141			19 <b>3</b> 2141 16° <b>る</b> 02'18	6.99706 AU
opposition	3543 Apr 28 00:57			direct	3549 Sep 19 10:02		
min. Earth dist.	3543 Apr 28 00:01	7°M36'49	8.54183 AU	evening set	3549 Dec 30 08:47	23° <b>ろ</b> 09'03	
direct	3543 Jul 06 22:11	4°M10'12		aaminus -ti	2550 I 16 01 24	250=200150	0027155
evening set	3543 Oct 20 15:31	11° <b>M</b> 54'44		conjunction	3550 Jan 16 01:34	25° <b>⋜</b> 06'58	0°27'55
i <i>(</i> *	2542 Nt	1.40 <b>m</b> 0.1111	2010/50	minimum elong	3550 Jan 16 01:35	25°₹06'58	
conjunction	3543 Nov 06 21:02	14°M01'11	2°10'59	max. Earth dist.	3550 Jan 15 23:11		11.00903 AU
minimum elong	3543 Nov 06 21:02	14°M01'11	2°11'00	morning rise	3550 Feb 01 17:28	27° <b>る</b> 04'37	
max. Earth dist.	3543 Nov 06 21:48		10.59207 AU		3550 Feb 28 10:55	0° <b>≈</b>	
	3543 Nov 14 20:15	15°M		retrograde	3550 May 13 09:12	4°≈06'50	001011
morning rise	3543 Nov 23 22:07	16°M06'20		opposition	3550 Jul 22 17:11	0°≈49'03	0°18'14
retrograde	3544 Mar 02 23:55	23°M27'49	202017	min. Earth dist.	3550 Jul 22 18:53	0°≈48'44	9.01511 AU
opposition	3544 May 10 00:08	20°M07'41			3550 Aug 02 21:28	30°Rる	
min. Earth dist.	3544 May 10 00:04	20° <b>™</b> 07'42	8.64406 AU	direct	3550 Oct 01 13:10	27° <b>る</b> 30'00	

	2550 Nov. 27, 06:25	0° <b>≈</b>		ratra ara da	2556 Iul 24 16:50	14° <b>Ƴ</b> 16'00	
avanina aat	3550 Nov 27 06:25	0°≈ 4°≈34'01		retrograde opposition	3556 Jul 24 16:50 3556 Oct 03 03:50	14° <b>γ</b> 16 00 10° <b>γ</b> 52'11	2025120
evening set	3551 Jan 10 20:18	4 ≈3401		min. Earth dist.	3556 Oct 03 04:39	10 <b>γ</b> 52 11 10° <b>γ</b> 52'01	-2 23 28 8.70857 AU
conjunction	3551 Jan 27 12:34	6° <b>≈</b> 31'43	0°01'47	direct	3556 Dec 10 17:40	7° <b>Υ</b> 32'11	8.70837 AU
minimum elong	3551 Jan 27 12:34	6°≈31'43	0°01'47	evening set	3557 Mar 20 15:40	14° <b>Υ</b> 48'50	
behind sun begin	3551 Jan 27 12.34 3551 Jan 27 05:35	6°≈29'40	0 0147	evening set	3337 Mai 20 13.40	14 1 46 30	
behind sun end	3551 Jan 27 19:32	6°≈33'45		conjunction	3557 Apr 06 12:34	16° <b>Ƴ</b> 52'04	-2°03'45
max. Earth dist.	3551 Jan 27 19:32 3551 Jan 27 10:26		11.01557 AU	minimum elong	3557 Apr 06 12:34 3557 Apr 06 12:32	16°Υ52'04	
morning rise	3551 Feb 13 04:31	8°≈29'21	11.01337 AC	max. Earth dist.	3557 Apr 06 12:52 3557 Apr 06 10:53		10.65895 AU
desc. node	3551 Feb 21 04:37	9°≈24'16		morning rise	3557 Apr 23 13:28	18° <b>Υ</b> 56'33	10.03073 AC
dese. Hode	3551 Apr 29 06:03	15° <b>≈</b>		retrograde	3557 Aug 06 20:08	26° <b>Y</b> 36'15	
retrograde	3551 May 25 08:48	15°≈33'20		opposition	3557 Aug 00 20:00 3557 Oct 16 01:18	23° <b>Υ</b> 11'07	-2°37'42
retrograde	3551 Jun 20 20:49	15°R≈		min. Earth dist.	3557 Oct 16 01:16		8.60996 AU
opposition	3551 Aug 03 22:17	12°≈15'03	-0°14'01	direct	3557 Dec 23 04:33	19° <b>Υ</b> 50'15	0.00770710
min. Earth dist.	3551 Aug 03 22:17 3551 Aug 03 23:45	12°≈14'47	9.01063 AU	evening set	3558 Apr 02 06:35	27° <b>Υ</b> 13'06	
direct	3551 Oct 13 12:04	8°≈56'27	7.01003710	evening set	3330 Apr 02 00.33	27   13 00	
ancer	3552 Jan 13 16:43	15° <b>≈</b>		conjunction	3558 Apr 19 06:26	29° <b>Υ</b> 18'28	-2°10'38
evening set	3552 Jan 22 07:50	15°≈59'15		minimum elong	3558 Apr 19 06:25	29° <b>Υ</b> 18'28	
e vennig see	22 07.20	10 10 05 10		max. Earth dist.	3558 Apr 19 04:45		10.55760 AU
conjunction	3552 Feb 07 23:46	17° <b>≈</b> 57'01	-0°24'33	man. Barur diot.	3558 Apr 24 20:42	0°8	10.00,00110
minimum elong	3552 Feb 07 23:45	17°≈57'01	0°24'33	morning rise	3558 May 06 10:45	1° <b>8</b> 25'12	
max. Earth dist.	3552 Feb 07 21:25		11.00031 AU	retrograde	3558 Aug 20 06:29	9° <b>8</b> 12'56	
morning rise	3552 Feb 24 16:08	19°≈54'58	11.00031110	opposition	3558 Oct 29 03:20	5° <b>8</b> 46'34	-2°42'45
retrograde	3552 Jun 05 11:38	27°≈02'10		min. Earth dist.	3558 Oct 29 04:15	5° <b>8</b> 46'23	8.50723 AU
opposition	3552 Aug 15 04:08	23°≈43'09	-0°45'49	direct	3559 Jan 04 20:26	2° <b>8</b> 24'42	0.00720110
min. Earth dist.	3552 Aug 15 06:08	23°≈42'47	8.98498 AU	evening set	3559 Apr 15 05:50	9° <b>8</b> 54'29	
direct	3552 Oct 24 10:45	20°≈24'44	0.50.50110	evening sec	2003 1 pr 10 00.00	, 00.2	
evening set	3553 Feb 01 20:41	27°≈27'41		conjunction	3559 May 02 09:29	12° <b>8</b> 02'16	-2°11'18
evening sec	3333100 01 20.11	27 70.27 11		minimum elong	3559 May 02 09:30	12° <b>8</b> 02'16	
conjunction	3553 Feb 18 12:31	29° <b>≈</b> 25'53	-0°49'57	max. Earth dist.	3559 May 02 08:47	_	10.45449 AU
minimum elong	3553 Feb 18 12:29	29°≈25'52		morning rise	3559 May 19 17:41	14° <b>8</b> 11'29	10.15117110
max. Earth dist.	3553 Feb 18 09:15		10.96456 AU	morning rise	3559 May 26 09:48	15° <b>8</b>	
mar. Barur dist.	3553 Feb 23 07:13	0° <b>∀</b>	10.50.00110	retrograde	3559 Sep 02 23:17	22° <b>8</b> 06'53	
morning rise	3553 Mar 07 05:48	1° <b>₩</b> 24'30		opposition	3559 Nov 11 10:19	18° <b>8</b> 39'26	-2°39'49
retrograde	3553 Jun 17 17:14	8° <b>)</b> (36'13		min. Earth dist.	3559 Nov 11 10:33	18° <b>8</b> 39'23	8.40505 AU
opposition	3553 Aug 27 11:51	5° <b>)</b> 16'14	-1°16'01	direct	3560 Jan 17 18:23	15° <b>8</b> 16'29	
min. Earth dist.	3553 Aug 27 14:21		8.93974 AU	evening set	3560 Apr 27 13:51	22° <b>8</b> 53'38	
direct	3553 Nov 05 08:50	1° <b>)</b> 57'44		<i>8</i>	r		
evening set	3554 Feb 13 12:01	9° <b>)</b> €02'12		conjunction	3560 May 14 21:55	25° <b>8</b> 04'01	-2°05'20
8-11				minimum elong	3560 May 14 21:57	25° <b>8</b> 04'02	
conjunction	3554 Mar 02 04:16	11° <b>₩</b> 01'08	-1°13'32	max. Earth dist.	3560 May 14 22:29	25° <b>8</b> 04'12	10.35456 AU
minimum elong	3554 Mar 02 04:14	11° <b>∺</b> 01'07	1°13'32	morning rise	3560 Jun 01 10:21	27° <b>8</b> 15'49	
max. Earth dist.	3554 Mar 02 01:02		10.91005 AU	C	3560 Jun 24 12:54	$\Pi^{\circ}0$	
morning rise	3554 Mar 18 22:49	13° <b>₩</b> 00'44		retrograde	3560 Sep 15 21:44	5° <b>Ⅱ</b> 18'07	
retrograde	3554 Jun 30 02:07	20° <b>₩</b> 18'13		opposition	3560 Nov 23 22:07	1° <b>Ⅱ</b> 49'46	-2°28'29
opposition	3554 Sep 08 21:54	16° <b>¥</b> 57'01	-1°43'29	min. Earth dist.	3560 Nov 23 21:18	1° <b>Ⅱ</b> 49'56	8.30858 AU
min. Earth dist.	3554 Sep 09 00:12	16° <b>¥</b> 56'35	8.87687 AU		3560 Dec 18 01:26	30° <b>₹</b> 8	
direct	3554 Nov 17 10:14	13° <b>)</b> 38′13		direct	3561 Jan 29 23:09	28° <b>8</b> 25'43	
evening set	3555 Feb 25 07:30	20° <b>)</b> 45′32			3561 Mar 12 21:13	$\Pi^{\circ}0$	
				evening set	3561 May 11 07:05	6° <b>Ⅱ</b> 10'19	
conjunction	3555 Mar 14 00:48	22° <b>)</b> 45′34	-1°34'19				
minimum elong	3555 Mar 14 00:46	22° <b>)</b> 45′33	1°34'19	conjunction	3561 May 28 19:57	8° <b>Ⅲ</b> 23'22	-1°52'37
max. Earth dist.	3555 Mar 13 22:43	22° <b>)</b> 44′56	10.83896 AU	minimum elong	3561 May 28 20:00	8° <b>Ⅲ</b> 23′23	1°52'37
morning rise	3555 Mar 30 20:51	24° <b>) (</b> 46′27		max. Earth dist.	3561 May 28 21:24	8° <b>Ⅱ</b> 23'50	10.26317 AU
	3555 May 21 02:32	$0$ ° $\Upsilon$		morning rise	3561 Jun 15 12:50	10° <b>Ⅲ</b> 37'44	
retrograde	3555 Jul 12 18:32	2° <b>Y</b> 10'40		retrograde	3561 Sep 30 02:17	18° <b>Ⅱ</b> 45'37	
	3555 Sep 05 06:25	30° <b>₹</b> ₩		opposition	3561 Dec 07 14:18	15° <b>Ⅱ</b> 16'40	-2°08'50
opposition	3555 Sep 21 10:51	28° <b>)</b> 48′11	-2°07'01	min. Earth dist.	3561 Dec 07 12:44	15° <b>Ⅱ</b> 16'59	8.22317 AU
min. Earth dist.	3555 Sep 21 12:11	28° <b>)</b> 47′56	8.79879 AU	direct	3562 Feb 12 09:00	11° <b>Ⅱ</b> 51′29	
direct	3555 Nov 29 13:19	25° <b>∺</b> 28'52		evening set	3562 May 25 09:13	19° <b>Ⅱ</b> 43'19	
	3556 Feb 13 17:54	$0^{\circ}$ Y					
evening set	3556 Mar 08 08:22	2° <b>Y</b> 40'18		conjunction	3562 Jun 12 02:49	21° <b>Ⅲ</b> 58′52	-1°33'27
				minimum elong	3562 Jun 12 02:52	21° <b>Ⅱ</b> 58'53	1°33'28
conjunction	3556 Mar 25 03:11	4° <b>Ƴ</b> 41'46	-1°51'22	max. Earth dist.	3562 Jun 12 04:29	21° <b>Ⅱ</b> 59′24	10.18552 AU
minimum elong	3556 Mar 25 03:09	4° <b>Ƴ</b> 41'45	1°51'22	morning rise	3562 Jun 29 23:59	24° <b>Ⅱ</b> 15'35	
max. Earth dist.	3556 Mar 25 01:37	4° <b>Ƴ</b> 41'17	10.75408 AU		3562 Aug 21 10:55	$0$ $\circ$ $\odot$	
morning rise	3556 Apr 11 01:17	6° <b>Ƴ</b> 44'17		retrograde	3562 Oct 14 10:40	2° <b>5</b> 27'21	

opposition	3562 Dec 08 14:12 3562 Dec 21 10:25	30°RⅡ 28°Ⅱ58'07	1941'22	max. Earth dist.	3568 Sep 07 05:49 3568 Sep 24 23:06	15° <b>m</b> 49'30 18° <b>m</b> 04'46	10.18767 AU
min. Earth dist.	3562 Dec 21 10.23 3562 Dec 21 08:38		8.15386 AU	retrograde	3569 Jan 05 13:50	25° m 59'26	
direct	3563 Feb 26 01:28	25° <b>I</b> I31'51	6.13360 AU	opposition	3569 Mar 13 05:53	22° m/34'21	1°55'32
direct	3563 May 10 07:43	0° <b>9</b>		min. Earth dist.	3569 Mar 13 03:42	22° m) 34'48	8.22458 AU
evening set	3563 Jun 08 19:20	3° <b>©</b> 30'16		direct	3569 May 20 11:31	19° <b>m</b> ) 05'38	0.22430710
evening set	3303 Juli 00 17.20	3 30 10		evening set	3569 Sep 03 16:25	27° m) 11'33	
conjunction	3563 Jun 26 17:08	5° <b>©</b> 47'57	-1°08'42	evening set	3307 Sep 03 10.23	27 mg 1133	
minimum elong	3563 Jun 26 17:11		1°08'42	conjunction	3569 Sep 21 12:14	29° m 26'36	1°43'24
max. Earth dist.	3563 Jun 26 18:50		10.12628 AU	minimum elong	3569 Sep 21 12:11	29° m) 26'35	1°43'23
morning rise	3563 Jul 14 17:51	8°906'33		max. Earth dist.	3569 Sep 21 14:12		10.26377 AU
retrograde	3563 Oct 28 20:36	16° <b>©</b> 20'14			3569 Sep 25 21:21	0∘ <u>⊽</u>	
opposition	3564 Jan 04 09:25	12° <b>©</b> 51'05	-1°07'54	morning rise	3569 Oct 09 04:18	1° <b>≏</b> 40'30	
min. Earth dist.	3564 Jan 04 07:43	12° <b>©</b> 51'26	8.10508 AU	retrograde	3570 Jan 19 01:22	9° <b>ჲ</b> 27'42	
direct	3564 Mar 11 00:37	9° <b>©</b> 23'51		opposition	3570 Mar 26 21:19	6° <b>ഫ</b> 03'53	2°19'02
evening set	3564 Jun 22 12:03	17° <b>©</b> 27'50		min. Earth dist.	3570 Mar 26 20:25	6° <b>ჲ</b> 04'03	8.30740 AU
				direct	3570 Jun 03 14:44	2° <b>₽</b> 35'38	
conjunction	3564 Jul 10 13:11	19° <b>5</b> 47'02	-0°39'40	evening set	3570 Sep 17 22:02	10° <b>≏</b> 36'48	
minimum elong	3564 Jul 10 13:13	19° <b>5</b> 47'03	0°39'41				
max. Earth dist.	3564 Jul 10 15:13	19° <b>5</b> 347'41	10.08938 AU	conjunction	3570 Oct 05 13:34	12° <b>₽</b> 49'23	1°59'24
morning rise	3564 Jul 28 16:15	22° <b>©</b> 06'50		minimum elong	3570 Oct 05 13:31	12° <b>≏</b> 49'23	1°59'24
	3564 Oct 22 23:32	$0^{\circ}\Omega$		max. Earth dist.	3570 Oct 05 13:55	12° <b>≏</b> 49'30	10.35146 AU
retrograde	3564 Nov 11 05:40	0° <b>Ω</b> 20′22		morning rise	3570 Oct 23 01:00	15° <b>≏</b> 00'42	
	3564 Nov 30 12:08	30°R∽		retrograde	3571 Feb 01 06:47	22° <b>₽</b> 40'22	
opposition	3565 Jan 17 10:12	26° <b>©</b> 51'35	-0°29'56	opposition	3571 Apr 09 08:33	19° <b>≏</b> 17'47	2°34'35
min. Earth dist.	3565 Jan 17 08:18	26° <b>©</b> 51'59	8.08018 AU	min. Earth dist.	3571 Apr 09 08:28	19° <b>≏</b> 17'48	8.39955 AU
direct	3565 Mar 25 05:12	23° <b>©</b> 23'35		direct	3571 Jun 17 13:40	15° <b>≏</b> 50'17	
	3565 Jun 25 02:33	$0^{\circ}\Omega$		evening set	3571 Oct 01 18:31	23° <b>≏</b> 45'30	
evening set	3565 Jul 07 09:23	1° <b>Ω</b> 31'40					
				conjunction	3571 Oct 19 05:45	25° <b>≏</b> 55'34	2°08'51
conjunction	3565 Jul 25 12:33	3° <b>£</b> 51′39	-0°08'09	minimum elong	3571 Oct 19 05:44	25° <b>≏</b> 55'34	2°08'51
minimum elong	3565 Jul 25 12:33	3° <b>Ω</b> 51'39	0°08'10	max. Earth dist.	3571 Oct 19 05:04	25° <b>≏</b> 55'22	10.44654 AU
behind sun begin	3565 Jul 25 06:04	3° <b>Ω</b> 49'35		morning rise	3571 Nov 05 12:45	28° <b>ჲ</b> 04'19	
behind sun end	3565 Jul 25 19:02	3° <b>Ω</b> 53'44			3571 Nov 21 17:52	$0^{\circ}$ M	
max. Earth dist.	3565 Jul 25 15:03	3° <b>Ω</b> 52'27	10.07725 AU	retrograde	3572 Feb 14 05:12	5°M36'33	
morning rise	3565 Aug 12 16:24	6° <b>Ω</b> 11'50		opposition	3572 Apr 21 15:09	2°M15'07	2°41'52
asc. node	3565 Oct 29 07:06	13° <b>Ω</b> 42'15		min. Earth dist.	3572 Apr 21 15:05	2°M15′08	8.49691 AU
retrograde	3565 Nov 25 13:20	14° <b>Ω</b> 23'08			3572 May 23 00:03	30°Ŗ <b>죠</b>	
opposition	3566 Jan 31 11:31	10° <b>Ω</b> 55'01		direct	3572 Jun 30 07:55	28° <b>≏</b> 48'32	
min. Earth dist.	3566 Jan 31 09:10	10° <b>£</b> 55′29	8.08074 AU		3572 Aug 07 06:03	0°M	
direct	3566 Apr 08 12:04	7° <b>Ω</b> 26′27		evening set	3572 Oct 14 05:39	6° <b>™</b> 36'55	
	3566 Jul 17 11:33	15° <b>Ω</b>				<b>.</b>	
evening set	3566 Jul 22 08:57	15° <b>Ω</b> 36'54		conjunction	3572 Oct 31 12:56	8°M44'32	
	25/// 00 12 20	170 0 5 6147	0000157	minimum elong	3572 Oct 31 12:55	8°M44'32	
conjunction	3566 Aug 09 12:28	17° <b>£</b> 56'47		max. Earth dist.	3572 Oct 31 12:11		10.54491 AU
minimum elong	3566 Aug 09 12:27	17° <b>Ω</b> 56'47	0°23'56	morning rise	3572 Nov 17 15:49	10°M50'50	
max. Earth dist.	3566 Aug 09 15:34		10.09056 AU		3572 Dec 25 03:57	15°M	
morning rise	3566 Aug 27 15:18 3566 Dec 09 18:39	20° <b>Ω</b> 16'26 28° <b>Ω</b> 23'37		retrograde	3573 Feb 25 21:42	18°M 15'58	
retrograde opposition	3567 Feb 14 12:00	26 <b>δί</b> 23 37 24° <b>Ω</b> 56'22	0°49'07	opposition	3573 May 03 18:06 3573 May 04 16:59	15°Rጤ 14°ጤ55'33	2°41'02
min. Earth dist.	3567 Feb 14 12:00 3567 Feb 14 09:02	24 <b>δ</b> <i>t</i> 36 22 24° <b>Ω</b> 56'59	8.10662 AU	min. Earth dist.	3573 May 04 16:53	14 IIL55 35 14°M 55'35	8.59523 AU
direct	3567 Apr 22 20:19	24 <b>δ</b> <i>t</i> 30 39 21° <b>Ω</b> 27'31	8.10002 AU	direct	3573 Jul 13 20:31	14 IIC33 33	6.39323 AU
evening set	3567 Aug 06 07:47	21° <b>Ω</b> 27'31 29° <b>Ω</b> 38'22		direct	3573 Sep 19 04:46	15°M	
evening set	3567 Aug 09 04:11	0°m		evening set	3573 Oct 27 07:15	19°M 10'59	
	3307 Aug 07 04.11	ψ iy		evening set	3373 Oct 27 07.13	17 1101037	
conjunction	3567 Aug 24 10:02	1° <b>m</b> 57'17	0°54'23	conjunction	3573 Nov 13 10:59	21°M16'20	2°08'03
minimum elong	3567 Aug 24 10:00	1° Mp 57'16	0°54'23	minimum elong	3573 Nov 13 11:00	21°M16'20	2°08'03
max. Earth dist.	3567 Aug 24 13:37		10.12833 AU	max. Earth dist.	3573 Nov 13 11:00 3573 Nov 13 10:31		10.64216 AU
morning rise	3567 Sep 11 10:17	4° Mp 15'36		morning rise	3573 Nov 30 10:20	23°M20'24	
retrograde	3567 Dec 23 19:31	12° <b>m</b> ) 17'06			3574 Feb 11 03:11	0° <b>√</b>	
opposition	3568 Feb 28 10:30	8° m 50'52	1°25'02	retrograde	3574 Mar 10 10:26	0° <b>₹</b> 39'03	
min. Earth dist.	3568 Feb 28 07:30	8° mp 51'29	8.15590 AU	<b>5</b>	3574 Apr 07 01:36	30°RML	
direct	3568 May 06 04:26	5° m/21'58		opposition	3574 May 17 14:30	27°M19'30	2°32'40
evening set	3568 Aug 20 02:59	13° mp 31'13		min. Earth dist.	3574 May 17 14:45	27° <b>M</b> 19'27	8.69015 AU
J	2	• •		direct	3574 Jul 27 01:09	23°M54'59	
conjunction	3568 Sep 07 02:34	15° Mp 48'27	1°21'23		3574 Oct 27 07:53	0° <b>∡</b> ¹	
minimum elong	3568 Sep 07 02:31	15° <b>m</b> 48'26		evening set	3574 Nov 08 23:34	1° <b>∡</b> "28′25	

direct	3599 May 28 13:24	26° m 38'13
	3599 Jul 31 23:29	0∘ <b>⊽</b>
evening set	3599 Sep 11 18:08	4° <b>£</b> 41'42
conjunction	3599 Sep 29 11:52	6° <b>£</b> 55'31 1°52'49
minimum elong	3599 Sep 29 11:49	6° <b>ჲ</b> 55'30 1°52'48
max. Earth dist.	3599 Sep 29 13:20	6° <b>ჲ</b> 55'59 10.29991 AU
morning rise	3599 Oct 17 01:32	9° <b>亞</b> 08'06
retrograde	3600 Jan 26 13:36	16° <b>≏</b> 51'21
opposition	3600 Apr 02 12:55	13° <b>△</b> 27'35 2°28'27
min. Earth dist.	3600 Apr 02 11:21	13° <b>≏</b> 27'54 8.34629 AU
direct	3600 Jun 10 13:18	9° <b>ჲ</b> 59'11
evening set	3600 Sep 24 18:40	17° <b>♀</b> 57'12
conjunction	3600 Oct 12 08:09	20° <b>ჲ</b> 08'31 2°05'19
minimum elong	3600 Oct 12 08:08	20° <b>ჲ</b> 08'31 2°05'19
max. Earth dist.	3600 Oct 12 09:35	20° <b>≏</b> 08'58 10.39284 AU
morning rise	3600 Oct 29 17:08	22° <b>ჲ</b> 18′30
retrograde	3601 Feb 07 15:07	29° <b>ჲ</b> 54'07
opposition	3601 Apr 15 21:22	26° <b>△</b> 31'37 2°39'33
min. Earth dist.	3601 Apr 15 20:35	26° <b>≏</b> 31'46 8.44341 AU
direct	3601 Jun 24 09:04	23° <b>ჲ</b> 04'05
	3601 Sep 30 17:04	0° <b>M</b> .
evening set	3601 Oct 08 09:59	0°M55'36
conjunction	3601 Oct 25 19:10	3°M04'22 2°11'10
minimum elong	3601 Oct 25 19:09	3°M04'22 2°11'10
max. Earth dist.	3601 Oct 25 19:45	3°ML04'33 10.49256 AU
morning rise	3601 Nov 11 23:51	5° <b>ጤ</b> 11'48