minimum elong	2604 Dec 06 16:53	14° <b>₹</b> ¹21'04	1°34'42	direct	2610 Oct 18 17:42 2610 Nov 26 23:53	13° <b>≈</b> 44′20	
conjunction	2604 Dec 06 16:51	14° <b>₹</b> 21'04			2610 Sep 08 10:20	15°R≈	
	2004 D 00 1051	1.40 701104	1024142	min. Earth dist.	2610 Aug 09 19:44	17°≈02'20	8.96568 AU
evening set	2604 Nov 19 22:25	12° <b>≯</b> 22'10		opposition	2610 Aug 09 17:24	17°≈02'46	
	•			retrograde	•		0.50152
direct	2604 Aug 08 16:13	5° <b>₹</b> 07'04	0.71074 AU	retrograda	2610 May 30 20:47	13 ≈ 20°≈22'38	
min. Earth dist.	2604 May 29 14:06	8° <b>₹</b> ¹28'52		morning 1150	2610 Mar 05 08:14	15 ≈15 16 15°≈	
opposition	2604 May 29 13:31	8° <b>₹</b> 28'59	2°07'15	morning rise	2610 Feb 17 13:46	11 ≈14 14 13°≈13'16	10.707/0 AU
retrograde	2604 Mar 21 05:40	4 <b>x</b> 42 30 11° <b>x</b> 47′01		max. Earth dist.	2610 Jan 31 20.47 2610 Jan 31 17:57		10.98978 AU
morning rise	2603 Nov 23 21:07 2603 Dec 12 15:20	4° <b>×</b> 42'30	10.00232 AU	minimum elong	2610 Jan 31 20:47	11°≈15'04	
max. Earth dist.	2603 Nov 25 22:24 2603 Nov 25 21:07		1 31 37 10.88252 AU	conjunction	2610 Jan 31 20:48	11° <b>≈</b> 15'05	-0°28'30
minimum elong	2603 Nov 25 22:22 2603 Nov 25 22:24	2° <b>×</b> <sup>7</sup> 43'15		2. J	_010 0411 10 00.07	,	
conjunction	2603 Nov 25 22:22	2° <b>×</b> <sup>7</sup> 43'14	1°51'56	evening set	2610 Jan 15 05:09	9° <b>≈</b> 17'18	
=				direct	2609 Oct 06 21:34	2° <b>≈</b> 16'16	
evening set	2603 Nov 09 02:08	0° <b>∡</b> ¹43'01		min. Earth dist.	2609 Jul 28 13:14	5° <b>≈</b> 34'29	9.00901 AU
	2603 Nov 02 21:50	0° <b>∡</b> ¹		opposition	2609 Jul 28 11:28	5° <b>≈</b> 34'48	-0°18'43
direct	2603 Jul 28 02:05	23°M21'26		retrograde	2609 May 18 16:33	8° <b>≈</b> 53'52	
min. Earth dist.	2603 May 18 04:43	26°M44'15	8.84422 AU	morning rise	2609 Feb 06 02:18	1° <b>≈</b> 49′00	
opposition	2603 May 18 04:03	26°M44'23	2°25'57		2609 Jan 21 15:06	0° <b>≈</b>	
*.*	2603 Mar 17 16:38	30°RM	2025155	max. Earth dist.	2609 Jan 20 08:07		11.02326 AU
retrograde	2603 Mar 10 06:40	0° <b>∡</b> 02'49		behind sun end	2609 Jan 20 17:22	29° <b>ろ</b> 53'33	11 00006 417
	2603 Mar 02 21:42			behind sun begin	2609 Jan 20 03:25		
morning rise		22°11654*03 0° <b>√</b> 7		_		29° <b>ろ</b> 31'31 29° <b>ろ</b> 49'29	0 01 38
morning rise	2602 Nov 30 16:37	20 IIC32 34 22°IIC54'03	10.0001/ AU	minimum elong	2609 Jan 20 10:24 2609 Jan 20 10:24	29 <b>る</b> 51 31	0°01'58
max. Earth dist.	2602 Nov 13 21:42 2602 Nov 13 20:28		10.80017 AU	conjunction	2609 Jan 20 10:24	29° <b>る</b> 51'31	-0°01'58
minimum elong	2602 Nov 13 21:42	20°M53'16	2°04'43	S			
conjunction	2602 Nov 13 21:40	20°M53'16	2°04'43	evening set	2609 Jan 03 18:49	27° <b>る</b> 54'12	
Ç				desc. node	2608 Dec 24 10:05	26° <b>ප්</b> 43'31	
evening set	2602 Oct 27 23:05	18°M51'22		direct	2608 Sep 25 01:14	20°る53'10	
	2602 Sep 22 12:34	15°M		min. Earth dist.	2608 Jul 16 09:13	24° <b>る</b> 11'43	9.03232 AU
direct	2602 Jul 15 06:45	11°M22'28		opposition	2608 Jul 16 07:23	24° <b>る</b> 12'03	0°13'56
min. Earth dist.	2602 May 05 15:11	14°M46'24	8.75547 AU	retrograde	2608 May 06 15:53	27° <b>る</b> 30'30	
opposition	2602 May 05 14:36	14°M46'31	2°38'45	morning rise	2608 Jan 26 16:57	20° <b>る</b> 28'43	
	2602 May 02 15:49	15°RM		max. Earth dist.	2608 Jan 09 22:52		11.03604 AU
retrograde	2602 Feb 26 04:53	18°M05'33		minimum elong	2608 Jan 10 01:37	18° <b>る</b> 31'36	
_	2601 Dec 26 16:18	15°M		conjunction	2608 Jan 10 01:36	18° <b>る</b> 31'36	
morning rise	2601 Nov 18 11:10	10°M51'19					
max. Earth dist.	2601 Nov 01 13:22	8°M48'33	10.70560 AU	evening set	2607 Dec 24 09:56	16° <b>る</b> 34'24	
minimum elong	2601 Nov 01 13:38	8°M48'37	2°12'15	direct	2607 Sep 14 03:35	9° <b>る</b> 31'54	
conjunction	2601 Nov 01 13:37	8°M48'37	2°12'15	min. Earth dist.	2607 Jul 05 06:38	12°る50'53	9.03462 AU
	260131 01 12 07	0000 4042	2012115	opposition	2607 Jul 05 04:14	12°る51'20	0°45'56
evening set	2601 Oct 15 11:50	6°M44'41		retrograde	2607 Apr 25 17:54	16° <b>ろ</b> 09'21	0045156
	2601 Aug 03 17:47	0°M		morning rise	2607 Jan 15 07:49	9° <b>ろ</b> 09'09	
direct	2601 Jul 02 04:11	29° <b>Ω</b> 07'59		max. Earth dist.	2606 Dec 29 13:45		11.02755 AU
J: 4	2601 May 30 08:19	30° <b>₹</b> Ω		minimum elong	2606 Dec 29 16:46	7° <b>る</b> 12'03	0°50'10
min. Earth dist.	2601 Apr 22 20:26	2°M33'10	8.65627 AU	conjunction	2606 Dec 29 16:44	7°る12'03	0°50'10
opposition	2601 Apr 22 20:39	2°M33'08		agniumation	2606 Dec. 20, 16:44	70=712102	0050!10
-			2°44'46	evening set	2000 Dec 15 00.42	5 01439	
retrograde	2600 Nov 18 07.14 2601 Feb 13 21:49	5°M53'01		evening set	2606 Dec 13 00:42	0 る 5° <b>る</b> 14'39	
	2600 Nov 18 07:14	0°M			2606 Oct 20 16:37	20 × 0217 0°る	
morning rise	2600 Nov 05 21:41	28° <b>£</b> 32'16	-	direct	2606 Sep 02 02:04	28°×709'17	
max. Earth dist.	2600 Oct 19 21:50	26° <b>₽</b> 27'39	10.60280 AU		2606 Jul 13 21:45	30°R. <b>✓</b>	
minimum elong	2600 Oct 19 20:41	26° <b>≏</b> 27'18	2°13'53	min. Earth dist.	2606 Jun 23 03:04	1° <b>る</b> 29'00	9.01583 AU
conjunction	2600 Oct 19 20:41	26° <b>≏</b> 27'18	2°13'54	opposition	2606 Jun 23 00:56	1° <b>る</b> 29'24	1°16'12
				retrograde	2606 Apr 13 22:03	4° <b>る</b> 47'12	
evening set	2600 Oct 02 15:00	24° <b>≏</b> 20'57			2606 Jan 23 18:27	ರ∘8	
direct	2600 Jun 18 19:27	16° <b>≏</b> 36′25		morning rise	2606 Jan 03 21:24	27° <b>∡</b> ¹47'03	
min. Earth dist.	2600 Apr 09 20:29	20° <b>ჲ</b> 02'55	8.55093 AU	max. Earth dist.	2605 Dec 18 04:22		10.99826 AU
opposition	2600 Apr 09 21:58	20° <b>Ω</b> 02'37		minimum elong	2605 Dec 18 06:23	25° <b>⋌</b> ¹49'38	1°13'49
retrograde	2600 Feb 01 09:40	23° <b>£</b> 23'33	20.4215.4	conjunction	2605 Dec 18 06:21	25° 🗷 49'37	
retrograde	2600 Feb. 01 09:40	23° <b>Ω</b> 23'33		conjunction	2605 Dec. 18, 06:21	25° <b>√</b> 49'37	1°13'49

retrograde	2611 Jun 12 04:28	1° <b>¥</b> 59'51		retrograde	2617 Aug 29 00:31	16° <b>8</b> 51'17	
retrograde	2611 Aug 03 11:17	30°R≈		retrograde	2617 Oct 16 01:23	15°R <b>B</b>	
opposition	2611 Aug 22 01:57	28°≈38'59	-1°21'22	opposition	2617 Nov 06 01:04	13° <b>K2</b> 3'27	-2°40'26
min. Earth dist.	2611 Aug 22 04:29	28° <b>≈</b> 38'31	8.90387 AU	min. Earth dist.	2617 Nov 06 01:31	13° <b>8</b> 23'21	8.31362 AU
direct	2611 Oct 30 16:06	25°≈20'26		direct	2618 Jan 12 00:24	10° <b>8</b> 00'01	
	2612 Jan 16 20:56	0° <b>∀</b>			2618 Mar 31 06:50	15° <b>8</b>	
evening set	2612 Feb 07 11:40	2° <b>)</b> €25'55		evening set	2618 Apr 23 07:58	17° <b>8</b> 45'05	
<i>3</i> - 11				<b>3</b>	r	. •	
conjunction	2612 Feb 24 04:50	4° <b>)</b> €25'36	-1°17'52	conjunction	2618 May 10 19:46	19° <b>8</b> 57'55	-2°04'38
minimum elong	2612 Feb 24 04:48	4° <b>)</b> €25'35	1°17'52	minimum elong	2618 May 10 19:48	19° <b>8</b> 57'56	2°04'38
max. Earth dist.	2612 Feb 24 02:12	4° <b>)</b> €24'48	10.86638 AU	max. Earth dist.	2618 May 10 19:57	19° <b>8</b> 57'59	10.26371 AU
morning rise	2612 Mar 12 00:50	6° <b>)</b> €26′08		morning rise	2618 May 28 11:43	22° <b>8</b> 12'09	
retrograde	2612 Jun 23 19:27	13° <b>)</b> 48′21			2618 Aug 23 00:16	$\Pi$ °0	
opposition	2612 Sep 02 13:52	10° <b>∺</b> 26′22		retrograde	2618 Sep 12 06:01	0° <b>Ⅱ</b> 21'43	
min. Earth dist.	2612 Sep 02 15:41		8.82581 AU		2618 Oct 02 14:01	30° <b>₹</b> 8	
direct	2612 Nov 10 18:08	7° <b>∺</b> 07'30		opposition	2618 Nov 19 18:23	26° <b>8</b> 53'06	
evening set	2613 Feb 18 10:49	14° <b>∺</b> 17'14		min. Earth dist.	2618 Nov 19 17:45	_	8.21962 AU
				direct	2619 Jan 25 11:34	23° <b>8</b> 28'25	
conjunction	2613 Mar 07 05:31	16° <b>¥</b> 18′23			2619 Apr 26 12:23	$\Pi$ $^{\circ}0$	
minimum elong	2613 Mar 07 05:28	16° <b>)</b> 18′22		evening set	2619 May 07 11:11	1° <b>Ⅱ</b> 21'14	
max. Earth dist.	2613 Mar 07 03:50		10.78102 AU				
morning rise	2613 Mar 24 03:28	18° <b>)</b> € 20'34		conjunction	2619 May 25 03:47	3° <b>Ⅱ</b> 36'44	
retrograde	2613 Jul 06 17:12	25° <b>)</b> € 50'40		minimum elong	2619 May 25 03:50	3° <b>Ⅱ</b> 36'45	
opposition	2613 Sep 15 06:07	22° <b>)</b> € 27'27		max. Earth dist.	2619 May 25 04:40		10.17754 AU
min. Earth dist.	2613 Sep 15 07:04		8.73455 AU	morning rise	2619 Jun 12 00:03	5° <b>Ⅱ</b> 53'26	
direct	2613 Nov 22 21:38	19° <b>)</b> €08'04		retrograde	2619 Sep 26 16:22	14° <b>Ⅱ</b> 07'29	2004114
evening set	2614 Mar 02 16:56	26° <b>∺</b> 23'15		opposition	2619 Dec 03 15:59	10° <b>∏</b> 38'22	
	2(14 Mar. 10, 12-2)	200 1/2011	1055107	min. Earth dist.	2619 Dec 03 14:41 2620 Feb 08 04:17	7° <b>П</b> 12'25	8.14226 AU
conjunction minimum elong	2614 Mar 19 13:36 2614 Mar 19 13:34	28° <b>H</b> 26'11 28° <b>H</b> 26'10		direct		7° <b>П</b> 12'23	
max. Earth dist.	2614 Mar 19 11:56	28° <del>H</del> 25'40		evening set	2620 May 20 22:30	13 11211	
max. Earm dist.	2614 Apr 01 09:24	26 <b>γ</b> (25 40	10.06413 AU	conjunction	2620 Jun 07 19:36	17° <b>Ⅱ</b> 29'58	1028127
morning rise	2614 Apr 05 14:12	0° <b>Υ</b> 30'20		minimum elong	2620 Jun 07 19:39	17° <b>Ⅱ</b> 29'59	
retrograde	2614 Jul 19 20:58	8° <b>Υ</b> 08'51		max. Earth dist.	2620 Jun 07 21:04		10.11078 AU
opposition	2614 Sep 28 03:07	4° <b>Υ</b> 44'23	-2°30'25	morning rise	2620 Jun 25 19:43	17 <b>H</b> 30 27 19° <b>H</b> 48'44	10.11078 AC
min. Earth dist.	2614 Sep 28 03:59	4° <b>Υ</b> 44'13	8.63356 AU	retrograde	2620 Oct 10 04:42	28° <b>Ⅱ</b> 05'02	
direct	2614 Dec 05 06:47	1° <b>Υ</b> 24'14	0.03330710	opposition	2620 Dec 16 16:40	24° <b>I</b> 35'44	-1°34'10
evening set	2615 Mar 15 07:09	8° <b>Υ</b> 45'56		min. Earth dist.	2620 Dec 16 15:03	24° <b>Ⅲ</b> 36'04	
e vennig see	2010 11111 10 07.05	0 1 1000		direct	2621 Feb 21 05:02	21° <b>I</b> 08'35	0.00000110
conjunction	2615 Apr 01 06:27	10° <b>Ƴ</b> 50'58	-2°07'14	evening set	2621 Jun 04 16:48	29° <b>Ⅱ</b> 14'07	
minimum elong	2615 Apr 01 06:25	10° <b>Y</b> 50'58		<b>3</b>	2621 Jun 10 16:20	0ಂತಾ	
max. Earth dist.	2615 Apr 01 04:18		10.57948 AU				
morning rise	2615 Apr 18 10:14	12° <b>Y</b> 57'22		conjunction	2621 Jun 22 17:38	1° <b>©</b> 33'38	-1°01'38
retrograde	2615 Aug 02 07:47	20° <b>Ƴ</b> 44'28		minimum elong	2621 Jun 22 17:41	1° <b>©</b> 33'39	1°01'38
opposition	2615 Oct 11 05:04	17° <b>Ƴ</b> 18'47	-2°41'45	max. Earth dist.	2621 Jun 22 19:26	1° <b>5</b> 34'13	10.06767 AU
min. Earth dist.	2615 Oct 11 06:23	17° <b>Y</b> 18'31	8.52666 AU	morning rise	2621 Jul 10 20:35	3°553'48	
direct	2615 Dec 17 21:44	13° <b>Y</b> 57'39		retrograde	2621 Oct 24 15:41	12° <b>©</b> 09'56	
evening set	2616 Mar 27 06:01	21° <b>Y</b> 26'42		opposition	2621 Dec 30 19:01	8°5540'48	-0°58'08
				min. Earth dist.	2621 Dec 30 17:20	8° <b>5</b> 341'09	8.05608 AU
conjunction	2616 Apr 13 08:47	23° <b>Y</b> 34'08		direct	2622 Mar 07 11:10	5° <b>©</b> 12'37	
minimum elong	2616 Apr 13 08:47	23° <b>Y</b> 34'08		evening set	2622 Jun 19 15:46	13° <b>©</b> 22'20	
max. Earth dist.	2616 Apr 13 06:49		10.47104 AU				
morning rise	2616 Apr 30 16:17	25° <b>Y</b> 43′01		conjunction	2622 Jul 07 19:06	15° <b>©</b> 42'47	
	2616 Jun 07 20:50	0° <b>8</b>		minimum elong	2622 Jul 07 19:07	15° <b>©</b> 42'47	
retrograde	2616 Aug 15 01:08	3° <b>8</b> 38'31		max. Earth dist.	2622 Jul 07 21:17		10.05085 AU
opposition	2616 Oct 23 12:27	0° <b>8</b> 11'41		morning rise	2622 Jul 25 23:21	18°903'31	
min. Earth dist.	2616 Oct 23 13:42		8.41814 AU	retrograde	2622 Nov 08 00:40	26°5017'12	001012
T' 4	2616 Oct 25 23:45	30°RΥ 260 <b>9</b> 40127		opposition	2623 Jan 13 21:48	22°548'32	
direct	2616 Dec 29 19:12	26° <b>Y</b> 49'27		min. Earth dist.	2623 Jan 13 19:42	22°548'58	8.05265 AU
ovonint	2617 Mar 01 00:02	0° <b>8</b>		direct	2623 Mar 21 20:26	19°©19'35	
evening set	2617 Apr 09 14:05	4° <b>8</b> 26'25		evening set	2623 Jul 04 16:39	27°531'33	
conjunction	2617 Apr 26 21:08	6° <b>8</b> 36'30	-2°12'25	asc. node	2623 Jul 04 07:00	27° <b>©</b> 28'30	
minimum elong	2617 Apr 26 21:08 2617 Apr 26 21:09	6° <b>8</b> 36'30		conjunction	2623 Jul 22 20:51	29° <b>©</b> 52'04	0°01'39
max. Earth dist.	2617 Apr 26 20:11	_	10.36369 AU	minimum elong	2623 Jul 22 20:52	29 \$32 04 29°\$52'04	0°01'39
morning rise	2617 May 14 08:43	8° <b>8</b> 48'03	-0.50507710	behind sun begin	2623 Jul 22 13:30	29° <b>©</b> 49'42	0 0.37
	2617 Jul 12 20:12	15° <b>8</b>		behind sun end	2623 Jul 23 04:14	29° <b>9</b> 54'26	
	201, 041 12 20.12	0		oumid ban ond	2020 Vai 20 VT.17	_, <del>_</del>	

max. Earth dist.	2623 Jul 22 23:49	29° <b>©</b> 52'58	10.06117 AU	morning rise	2629 Oct 31 06:14	22° <b>£</b> 53'29	
	2623 Jul 23 21:20	$0^{\circ}\Omega$			2630 Jan 21 09:11	0°M	
morning rise	2623 Aug 10 00:39	2° <b>Ω</b> 12'25		retrograde	2630 Feb 08 08:46	0° <b>M</b> 17′26	
retrograde	2623 Nov 22 06:23	10° <b>Ω</b> 21'41		101108111110	2630 Feb 26 13:27	30° <b>R</b> Ω	
•			002211.5	.,.			2044150
opposition	2624 Jan 27 23:33	6° <b>Ω</b> 53'45	0°22'15	opposition	2630 Apr 17 04:21	26° <b>£</b> 56'47	
min. Earth dist.	2624 Jan 27 20:44	6° <b>Ω</b> 54'20	8.07631 AU	min. Earth dist.	2630 Apr 17 02:39	26° <b>≏</b> 57'07	8.60454 AU
direct	2624 Apr 04 06:24	3° <b>Ω</b> 24'18		direct	2630 Jun 26 09:04	23° <b>≏</b> 30'54	
evening set	2624 Jul 18 16:53	11° <b>Ω</b> 36'32			2630 Sep 29 19:09	0° <b>M</b> ₊	
				evening set	2630 Oct 09 20:36	1°MJ11'09	
conjunction	2624 Aug 05 20:18	13°Ω56'12	0°33'54	C			
minimum elong	2624 Aug 05 20:16	13°Ω56'12		conjunction	2630 Oct 27 00:13	3°M16'10	2013144
C	-						
max. Earth dist.	2624 Aug 05 23:54		10.09782 AU	minimum elong	2630 Oct 27 00:14	3°M16'10	
	2624 Aug 14 02:00	15° <b>Ω</b>		max. Earth dist.	2630 Oct 27 01:27	3°11L16'33	10.65699 AU
morning rise	2624 Aug 23 21:55	16° <b>Ω</b> 15'18		morning rise	2630 Nov 12 23:24	5°M19'53	
retrograde	2624 Dec 05 08:14	24° <b>Ω</b> 18′27		retrograde	2631 Feb 20 19:36	12°M36'58	
opposition	2625 Feb 09 22:52	20° <b>Ω</b> 51'29	1°01'15	opposition	2631 Apr 30 00:15	9° <b>M</b> 17'25	2°42'24
min. Earth dist.	2625 Feb 09 19:34	20° <b>Ω</b> 52'09	8.12534 AU	min. Earth dist.	2631 Apr 29 22:52	9° <b>M</b> 17'41	8.71042 AU
			0.12334 AU		•		0.71042 AC
direct	2625 Apr 18 15:49	17° <b>Ω</b> 21'51		direct	2631 Jul 09 13:09	5°M52'51	
evening set	2625 Aug 02 13:40	25° <b>Ω</b> 32'23		evening set	2631 Oct 22 12:05	13°M25'14	
					2631 Nov 04 15:46	15° <b>M</b>	
conjunction	2625 Aug 20 14:41	27° <b>Ω</b> 50′25	1°03'53				
minimum elong	2625 Aug 20 14:38	27° <b>Ω</b> 50′24	1°03'53	conjunction	2631 Nov 08 12:19	15°M28'03	2°08'53
max. Earth dist.	2625 Aug 20 18:37		10.15820 AU	minimum elong	2631 Nov 08 12:21	15°M28'03	2°08'53
max. Lattii dist.	-		10.13620 AC	•			
	2625 Sep 06 12:50	0° <b>m</b> )		max. Earth dist.	2631 Nov 08 13:24		10.75920 AU
morning rise	2625 Sep 07 12:42	0° <b>™</b> 07'30		morning rise	2631 Nov 25 08:21	17°M29'39	
retrograde	2625 Dec 19 03:32	8° Mp 03′22		retrograde	2632 Mar 04 00:48	24°M40'45	
opposition	2626 Feb 23 18:56	4° <b>١١/</b> 37'33	1°36'06	opposition	2632 May 11 15:40	21°M22'09	2°32'39
min. Earth dist.	2626 Feb 23 15:37	4° Mp 38′14	8.19643 AU	min. Earth dist.	2632 May 11 15:21	21°M22'13	8.80775 AU
direct	2626 May 02 23:45	1° mp 08'05		direct	2632 Jul 21 09:48	17°M58'53	
	•	=					
evening set	2626 Aug 17 04:22	9° <b>m</b> 15'03		evening set	2632 Nov 02 19:10	25°M23'46	
conjunction	2626 Sep 04 01:39	11° <b>m</b> y 30'47	1°29'47	conjunction	2632 Nov 19 16:29	27°M24'42	1°58'28
minimum elong	2626 Sep 04 01:36	11° Mp 30'46	1°29'47	minimum elong	2632 Nov 19 16:31	27° <b>M</b> 24'43	1°58'28
max. Earth dist.	2626 Sep 04 05:31	11° <b>m</b> 32'01	10.23844 AU	max. Earth dist.	2632 Nov 19 16:21	27°M24'39	10.85081 AU
morning rise	2626 Sep 21 19:05	13° Mp 45'20		morning rise	2632 Dec 06 10:14	29°M24'36	
retrograde	2627 Jan 01 15:28	21°m/33'15			2632 Dec 11 11:31	0° <b>∡</b> ¹	
opposition		-	2004154	natus anada		6° <b>х</b> 30′52	
	2627 Mar 09 10:48	18° Mp 08'43	2°04'54	retrograde	2633 Mar 16 00:45		
min. Earth dist.	2627 Mar 09 08:08	18° <b>m</b> )09'15	8.28519 AU	opposition	2633 May 24 03:06	3° <b>≯</b> 13'00	2°16'35
direct	2627 May 17 03:59	14° <b>m</b> 39'45		min. Earth dist.	2633 May 24 03:55	3° <b>҂</b> 12'50	8.89248 AU
evening set	2627 Aug 31 11:02	22° Mp 41'31			2633 Jul 20 10:50	30°RML	
-	-			direct	2633 Aug 03 02:49	29°M50'56	
conjunction	2627 Sep 18 03:50	24° m 54'35	1°50'19		2633 Aug 16 17:35	0° <b>∡</b> 7	
minimum elong	2627 Sep 18 03:47	24° m/54'34		evening set	2633 Nov 14 18:50	7° <b>∡</b> 108'59	
-	-			evening set	2033 NOV 14 16.30	/ * 00 39	
max. Earth dist.	2627 Sep 18 06:47		10.33385 AU				
morning rise	2627 Oct 05 16:21	27° Mp 06'20		conjunction	2633 Dec 01 13:55	9° <b>₰</b> 08'24	1°43'13
	2627 Oct 30 06:34	0。 <b>ರ</b>		minimum elong	2633 Dec 01 13:57	9° <b>⊀</b> '08'25	1°43'13
retrograde	2628 Jan 14 20:29	4° <b>₽</b> 46'02		max. Earth dist.	2633 Dec 01 12:26	9° <b>√</b> 07'57	10.92815 AU
opposition	2628 Mar 21 21:46	1° <b>≏</b> 22'49	2°26'19	morning rise	2633 Dec 18 06:12	11° <b>∡</b> ¹06'59	
min. Earth dist.	2628 Mar 21 19:49	1° <b>£</b> 23'12	8.38656 AU	retrograde	2634 Mar 27 22:51	18° <b>₹</b> 09'43	
iiiii. Lattii dist.			0.50050 AC	•			1055100
	2628 Apr 08 17:37	30°R, Mp		opposition	2634 Jun 05 11:20	14° <b>₹</b> 52'16	1°55'09
direct	2628 May 30 03:01	27° <b>m</b> 54'39		min. Earth dist.	2634 Jun 05 12:24	14° <b>₹</b> 52'04	8.96121 AU
	2628 Jul 19 14:51	0∘ <b>ऌ</b>		direct	2634 Aug 15 13:44	11° <b>₹</b> 31'21	
evening set	2628 Sep 13 08:16	5° <b>≏</b> 49'58		evening set	2634 Nov 26 12:17	18° <b>∡</b> ¹43'23	
conjunction	2628 Sep 30 20:22	8° <b>≏</b> 00'15	2°04'39	conjunction	2634 Dec 13 05:51	20° <b>҂</b> 41'41	1°23'56
minimum elong	2628 Sep 30 20:20	8° <b>⊆</b> 00'15		minimum elong	2634 Dec 13 05:53	20° <b>х</b> 41'42	
•				_			
max. Earth dist.	2628 Sep 30 22:10		10.43914 AU	max. Earth dist.	2634 Dec 13 04:14		10.98800 AU
morning rise	2628 Oct 18 04:04	10° <b>ഫ</b> 09'10		morning rise	2634 Dec 29 21:12	22° <b>₹</b> 39'22	
retrograde	2629 Jan 26 17:58	17° <b>≏</b> 40'44		retrograde	2635 Apr 08 18:56	29° <b>∡</b> ³39'57	
opposition	2629 Apr 04 03:38	14° <b>£</b> 18'51	2°39'43	opposition	2635 Jun 17 16:59	26° <b>₹</b> ¹22'40	1°29'23
min. Earth dist.	2629 Apr 04 02:03	14° <b>£</b> 19'10	8.49487 AU	min. Earth dist.	2635 Jun 17 18:03	26° <b>≯</b> 22'28	9.01095 AU
	-		5 10, 210				7.010/0/110
direct	2629 Jun 12 20:57	10° <b>£</b> 51'44		direct	2635 Aug 27 19:27	23° <b>₹</b> 02'42	
evening set	2629 Sep 26 19:29	18° <b>£</b> 39'45			2635 Dec 06 15:13	0°る	
				evening set	2635 Dec 08 01:27	0° <b>る</b> 09'53	
conjunction	2629 Oct 14 03:05	20° <b>≏</b> 47'18	2°12'27				
minimum elong	2629 Oct 14 03:04	20° <b>≏</b> 47'18	2°12'26	conjunction	2635 Dec 24 18:02	2° <b>る</b> 07'27	1°01'29
max. Earth dist.	2629 Oct 14 04:12	20° <b>≏</b> 47'39	10.54863 AU	minimum elong	2635 Dec 24 18:03	2° <b>る</b> 07'27	1°01'28
				3			

max. Earth dist.	2635 Dec 24 16:13	2°る06'55	11.02753 AU	direct	2641 Nov 05 12:46	1° <b>∺</b> 54'51	
morning rise	2636 Jan 10 08:55	4° <b>る</b> 04'35		evening set	2642 Feb 13 07:15	9° <b>₩</b> 02'57	
retrograde	2636 Apr 19 16:20	11° <b>る</b> 04'29		Č			
opposition	2636 Jun 28 20:56	7° <b>る</b> 47'08	1°00'19	conjunction	2642 Mar 02 01:05	11° <b>)</b> €03'31	1°20'26
min. Earth dist.	2636 Jun 28 22:48	7° <b>る</b> 46'48	9.03924 AU	minimum elong	2642 Mar 02 01:03	11° <b>∺</b> 03'30	
direct	2636 Sep 07 21:21	4° <b>る</b> 27'56		max. Earth dist.	2642 Mar 01 20:47		10.80984 AU
evening set	2636 Dec 18 11:57	11° <b>る</b> 31'37		morning rise	2642 Mar 18 22:14	13° <b>)</b> €05'04	
				retrograde	2642 Jul 01 02:49	20° <b>)</b> 31′54	
conjunction	2637 Jan 04 03:46	13° <b>る</b> 28'49	0°36'43	opposition	2642 Sep 09 18:32	17° <b>₩</b> 08'56	-2°02'12
minimum elong	2637 Jan 04 03:47	13° <b>る</b> 28'50	0°36'43	min. Earth dist.	2642 Sep 09 21:42		8.76350 AU
max. Earth dist.	2637 Jan 04 00:38		11.04467 AU	direct	2642 Nov 17 15:12	13° <b>)</b> (49'22	0.70550710
			11.04407 AU				
morning rise	2637 Jan 20 18:48	15° <b>る</b> 25'50		evening set	2643 Feb 25 10:09	21° <b>∺</b> 02'31	
retrograde	2637 May 01 12:36	22° <b>る</b> 26'39					
opposition	2637 Jul 11 00:34	19° <b>る</b> 08'58	0°29'01	conjunction	2643 Mar 14 05:51	23° <b>)</b> 04'45	-1°48'14
min. Earth dist.	2637 Jul 11 03:48	19° <b>る</b> 08'22	9.04466 AU	minimum elong	2643 Mar 14 05:48	23° <b>)</b> 04'44	1°48'15
direct	2637 Sep 19 19:11	15° <b>る</b> 50'20		max. Earth dist.	2643 Mar 14 02:21	23°¥03'41	10.71335 AU
	2637 Dec 29 21:13	22°る52'00		morning rise		25° <b>H</b> 08'10	10.71333 710
evening set	2037 Dec 29 21.13	22 03200		morning rise	2643 Mar 31 05:19		
					2643 May 16 03:10	$0$ ° $\mathbf{\gamma}$	
conjunction	2638 Jan 15 12:38	24° <b>る</b> 49'11	0°10'34	retrograde	2643 Jul 14 02:32	2° <b>Ƴ</b> 43'21	
minimum elong	2638 Jan 15 12:38	24° <b>る</b> 49'11	0°10'34		2643 Sep 13 14:02	30°₽ <b>₩</b>	
behind sun begin	2638 Jan 15 07:10	24° <b>る</b> 47'35		opposition	2643 Sep 22 13:29	29° <b>)</b> 18'57	-2°22'56
behind sun end	2638 Jan 15 18:07	24° <b>る</b> 50'47		min. Earth dist.	2643 Sep 22 15:59	29° <b>)</b> 18′28	8.66236 AU
max. Earth dist.			11.03878 AU		=	25° <b>H</b> 58'34	0.00230 AC
	2638 Jan 15 08:13		11.038/8 AU	direct	2643 Nov 29 23:58		
morning rise	2638 Feb 01 04:19	26° <b>る</b> 46'27			2644 Feb 08 16:29	$0^{\circ}\mathbf{\Upsilon}$	
	2638 Mar 03 00:55	0° <b>≈</b>		evening set	2644 Mar 08 20:32	3° <b>Ƴ</b> 17'54	
retrograde	2638 May 13 11:01	3° <b>≈</b> 49'50					
desc. node	2638 Jun 13 03:08	3°≈05'50		conjunction	2644 Mar 25 18:42	5° <b>Y</b> 22′09	-2°02'29
opposition	2638 Jul 23 04:36	0° <b>≈</b> 31'31	-0°03'28	minimum elong	2644 Mar 25 18:40	5° <b>Y</b> 22'08	2°02'30
min. Earth dist.	2638 Jul 23 08:15	0°≈30'51		max. Earth dist.	2644 Mar 25 16:39		10.60798 AU
iiiii. Eartii tiist.			9.02730 AU				10.00798 AU
	2638 Jul 30 08:09	30°Ŗる		morning rise	2644 Apr 11 20:55	7° <b>Y</b> 27'42	
direct	2638 Oct 01 17:46	27° <b>る</b> 13'10		retrograde	2644 Jul 26 11:04	15° <b>Ƴ</b> 11'39	
	2638 Nov 30 13:08	0° <b>≈</b>		opposition	2644 Oct 04 13:27	11° <b>Ƴ</b> 45'51	-2°37'32
evening set	2639 Jan 10 07:05	4° <b>≈</b> 14'18		min. Earth dist.	2644 Oct 04 14:38	11° <b>Y</b> 45'37	8.55454 AU
				direct	2644 Dec 11 12:35	8° <b>Y</b> 24'32	
conjunction	2639 Jan 26 22:40	6°≈11'51	-0°16'11	evening set	2645 Mar 21 15:32	15° <b>Ƴ</b> 50'55	
minimum elong	2639 Jan 26 22:39	6°≈11'51	0°16'10	ovening sec	2010111112110.02	10 10000	
•			0 10 10				
				aaniumatian	2645 Amr 07 16:49	170057120	2011/14
behind sun begin	2639 Jan 26 21:51	6° <b>≈</b> 11'37		conjunction	2645 Apr 07 16:48	17° <b>Y</b> 57′29	
behind sun end	2639 Jan 26 21:51 2639 Jan 26 23:27	6°≈11'37 6°≈12'05		minimum elong	2645 Apr 07 16:47	17° <b>Ƴ</b> 57'29	2°11'14
C	2639 Jan 26 21:51	6°≈11'37 6°≈12'05	11.01058 AU	•	2645 Apr 07 16:47 2645 Apr 07 15:24	17° <b>Υ</b> 57'29 17° <b>Υ</b> 57'03	
behind sun end	2639 Jan 26 21:51 2639 Jan 26 23:27	6°≈11'37 6°≈12'05	11.01058 AU	minimum elong	2645 Apr 07 16:47	17° <b>Ƴ</b> 57'29	2°11'14
behind sun end max. Earth dist.	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25	6°≈11'37 6°≈12'05 6°≈10'36	11.01058 AU	minimum elong max. Earth dist.	2645 Apr 07 16:47 2645 Apr 07 15:24	17° <b>Υ</b> 57'29 17° <b>Υ</b> 57'03	2°11'14
behind sun end max. Earth dist. morning rise	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25 2639 Feb 12 15:10 2639 May 06 21:42	6°≈11'37 6°≈12'05 6°≈10'36 8°≈09'42 15°≈	11.01058 AU	minimum elong max. Earth dist. morning rise retrograde	2645 Apr 07 16:47 2645 Apr 07 15:24 2645 Apr 24 22:27 2645 Aug 09 03:05	17° <b>Y</b> 57'29 17° <b>Y</b> 57'03 20° <b>Y</b> 05'28 27° <b>Y</b> 58'04	2°11'14 10.49842 AU
behind sun end max. Earth dist.	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25 2639 Feb 12 15:10 2639 May 06 21:42 2639 May 25 14:17	6°≈11'37 6°≈12'05 6°≈10'36 8°≈09'42 15°≈ 15°≈17'03	11.01058 AU	minimum elong max. Earth dist. morning rise retrograde opposition	2645 Apr 07 16:47 2645 Apr 07 15:24 2645 Apr 24 22:27 2645 Aug 09 03:05 2645 Oct 17 18:44	17° <b>Y</b> 57'29 17° <b>Y</b> 57'03 20° <b>Y</b> 05'28 27° <b>Y</b> 58'04 24° <b>Y</b> 31'01	2°11'14 10.49842 AU -2°44'51
behind sun end max. Earth dist. morning rise retrograde	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25 2639 Feb 12 15:10 2639 May 06 21:42 2639 May 25 14:17 2639 Jun 13 10:52	6°≈11'37 6°≈12'05 6°≈10'36 8°≈09'42 15°≈ 15°≈17'03		minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	2645 Apr 07 16:47 2645 Apr 07 15:24 2645 Apr 24 22:27 2645 Aug 09 03:05 2645 Oct 17 18:44 2645 Oct 17 19:11	17°Y57'29 17°Y57'03 20°Y05'28 27°Y58'04 24°Y31'01 24°Y30'55	2°11'14 10.49842 AU
behind sun end max. Earth dist. morning rise retrograde opposition	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25 2639 Feb 12 15:10 2639 May 06 21:42 2639 May 25 14:17 2639 Jun 13 10:52 2639 Aug 04 09:44	6°≈12'05 6°≈12'05 6°≈10'36 8°≈09'42 15°≈ 15°≈17'03 15°R≈ 11°≈57'52	-0°36′01	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	2645 Apr 07 16:47 2645 Apr 07 15:24 2645 Apr 24 22:27 2645 Aug 09 03:05 2645 Oct 17 18:44 2645 Oct 17 19:11 2645 Dec 24 05:41	17°Y57'29 17°Y57'03 20°Y05'28 27°Y58'04 24°Y31'01 24°Y30'55 21°Y08'37	2°11'14 10.49842 AU -2°44'51
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist.	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25 2639 Feb 12 15:10 2639 May 06 21:42 2639 May 25 14:17 2639 Jun 13 10:52 2639 Aug 04 09:44 2639 Aug 04 13:00	6°≈12'05 6°≈12'05 6°≈10'36 8°≈09'42 15°≈ 15°≈17'03 15°R≈ 11°≈57'52 11°≈57'51		minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	2645 Apr 07 16:47 2645 Apr 07 15:24 2645 Apr 24 22:27 2645 Aug 09 03:05 2645 Oct 17 18:44 2645 Oct 17 19:11 2645 Dec 24 05:41 2646 Apr 03 19:44	17°Y57'29 17°Y57'03 20°Y05'28 27°Y58'04 24°Y31'01 24°Y30'55 21°Y08'37 28°Y42'45	2°11'14 10.49842 AU -2°44'51
behind sun end max. Earth dist. morning rise retrograde opposition	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25 2639 Feb 12 15:10 2639 May 06 21:42 2639 May 25 14:17 2639 Jun 13 10:52 2639 Aug 04 09:44 2639 Aug 04 13:00 2639 Oct 13 15:13	6°≈12'05 6°≈12'05 6°≈10'36 8°≈09'42 15°≈ 15°≈17'03 15°R≈ 11°≈57'52 11°≈57'15 8°≈39'34	-0°36′01	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	2645 Apr 07 16:47 2645 Apr 07 15:24 2645 Apr 24 22:27 2645 Aug 09 03:05 2645 Oct 17 18:44 2645 Oct 17 19:11 2645 Dec 24 05:41	17°Y57'29 17°Y57'03 20°Y05'28 27°Y58'04 24°Y31'01 24°Y30'55 21°Y08'37	2°11'14 10.49842 AU -2°44'51
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist.	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25 2639 Feb 12 15:10 2639 May 06 21:42 2639 May 25 14:17 2639 Jun 13 10:52 2639 Aug 04 09:44 2639 Aug 04 13:00	6°≈12'05 6°≈12'05 6°≈10'36 8°≈09'42 15°≈ 15°≈17'03 15°R≈ 11°≈57'52 11°≈57'51	-0°36′01	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	2645 Apr 07 16:47 2645 Apr 07 15:24 2645 Apr 24 22:27 2645 Aug 09 03:05 2645 Oct 17 18:44 2645 Oct 17 19:11 2645 Dec 24 05:41 2646 Apr 03 19:44	17°Y57'29 17°Y57'03 20°Y05'28 27°Y58'04 24°Y31'01 24°Y30'55 21°Y08'37 28°Y42'45	2°11'14 10.49842 AU -2°44'51
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist.	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25 2639 Feb 12 15:10 2639 May 06 21:42 2639 May 25 14:17 2639 Jun 13 10:52 2639 Aug 04 09:44 2639 Aug 04 13:00 2639 Oct 13 15:13	6°≈12'05 6°≈12'05 6°≈10'36 8°≈09'42 15°≈ 15°≈17'03 15°R≈ 11°≈57'52 11°≈57'15 8°≈39'34	-0°36′01	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	2645 Apr 07 16:47 2645 Apr 07 15:24 2645 Apr 24 22:27 2645 Aug 09 03:05 2645 Oct 17 18:44 2645 Oct 17 19:11 2645 Dec 24 05:41 2646 Apr 03 19:44	17°Y57'29 17°Y57'03 20°Y05'28 27°Y58'04 24°Y31'01 24°Y30'55 21°Y08'37 28°Y42'45	2°11'14 10.49842 AU -2°44'51 8.44497 AU
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25 2639 Feb 12 15:10 2639 May 06 21:42 2639 May 25 14:17 2639 Jun 13 10:52 2639 Aug 04 09:44 2639 Aug 04 13:00 2639 Oct 13 15:13 2640 Jan 15 18:47	6°≈12'05 6°≈12'05 6°≈10'36 8°≈09'42 15°≈ 15°≈17'03 15°R≈ 11°≈57'52 11°≈57'15 8°≈39'34	-0°36′01	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	2645 Apr 07 16:47 2645 Apr 07 15:24 2645 Apr 24 22:27 2645 Aug 09 03:05 2645 Oct 17 18:44 2645 Oct 17 19:11 2645 Dec 24 05:41 2646 Apr 03 19:44 2646 Apr 14 03:53	17°Y57'29 17°Y57'03 20°Y05'28 27°Y58'04 24°Y31'01 24°Y30'55 21°Y08'37 28°Y42'45 0°8	2°11'14 10.49842 AU -2°44'51 8.44497 AU -2°13'39
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25 2639 Feb 12 15:10 2639 May 06 21:42 2639 May 25 14:17 2639 Jun 13 10:52 2639 Aug 04 09:44 2639 Aug 04 13:00 2639 Oct 13 15:13 2640 Jan 15 18:47 2640 Jan 21 19:04	6°≈11'37 6°≈12'05 6°≈10'36 8°≈09'42 15°≈ 15°≈17'03 15°R≈ 11°≈57'52 11°≈57'15 8°≈39'34 15°≈ 15°≈41'37	-0°36′01 8.98850 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	2645 Apr 07 16:47 2645 Apr 07 15:24 2645 Apr 24 22:27 2645 Aug 09 03:05 2645 Oct 17 18:44 2645 Oct 17 19:11 2645 Dec 24 05:41 2646 Apr 03 19:44 2646 Apr 14 03:53 2646 Apr 21 00:48 2646 Apr 21 00:49	17°Y57'29 17°Y57'03 20°Y05'28 27°Y58'04 24°Y31'01 24°Y30'55 21°Y08'37 28°Y42'45 0°8 0°851'51	2°11'14 10.49842 AU -2°44'51 8.44497 AU -2°13'39 2°13'39
behind sun end max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25 2639 Feb 12 15:10 2639 May 06 21:42 2639 May 25 14:17 2639 Jun 13 10:52 2639 Aug 04 09:44 2639 Aug 04 13:00 2639 Oct 13 15:13 2640 Jan 15 18:47 2640 Jan 21 19:04	6°≈12'05 6°≈12'05 6°≈10'36 8°≈09'42 15°≈ 15°≈17'03 15°R≈ 11°≈57'52 11°≈57'15 8°≈39'34 15°≈ 15°≈41'37	-0°36'01 8.98850 AU -0°42'23	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	2645 Apr 07 16:47 2645 Apr 07 15:24 2645 Apr 24 22:27 2645 Aug 09 03:05 2645 Oct 17 18:44 2645 Oct 17 19:11 2645 Dec 24 05:41 2646 Apr 03 19:44 2646 Apr 14 03:53 2646 Apr 21 00:48 2646 Apr 21 00:49 2646 Apr 20 23:38	17°Y57'29 17°Y57'03 20°Y05'28 27°Y58'04 24°Y31'01 24°Y30'55 21°Y08'37 28°Y42'45 0°8 0°851'51 0°851'51	2°11'14 10.49842 AU -2°44'51 8.44497 AU -2°13'39
behind sun end max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25 2639 Feb 12 15:10 2639 May 06 21:42 2639 May 25 14:17 2639 Jun 13 10:52 2639 Aug 04 09:44 2639 Aug 04 13:00 2639 Oct 13 15:13 2640 Jan 15 18:47 2640 Jan 21 19:04	6°&11'37 6°&12'05 6°&10'36 8°&09'42 15°& 15°&17'03 15°R& 11°&57'52 11°&57'15 8°&39'34 15°& 15°&41'37	-0°36'01 8.98850 AU -0°42'23 0°42'22	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	2645 Apr 07 16:47 2645 Apr 07 15:24 2645 Apr 24 22:27 2645 Aug 09 03:05 2645 Oct 17 18:44 2645 Oct 17 19:11 2645 Dec 24 05:41 2646 Apr 03 19:44 2646 Apr 14 03:53 2646 Apr 21 00:48 2646 Apr 21 00:49 2646 Apr 20 23:38 2646 May 08 10:32	17°Y57'29 17°Y57'03 20°Y05'28 27°Y58'04 24°Y31'01 24°Y30'55 21°Y08'37 28°Y42'45 0°8 0°851'51 0°851'51 0°851'29 3°802'26	2°11'14 10.49842 AU -2°44'51 8.44497 AU -2°13'39 2°13'39
behind sun end max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist.	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25 2639 Feb 12 15:10 2639 May 06 21:42 2639 May 25 14:17 2639 Jun 13 10:52 2639 Aug 04 09:44 2639 Aug 04 13:00 2639 Oct 13 15:13 2640 Jan 15 18:47 2640 Jan 21 19:04	6°&11'37 6°&12'05 6°&10'36 8°&09'42 15°& 15°&17'03 15°R& 11°&57'52 11°&57'15 8°&39'34 15°& 15°&41'37	-0°36'01 8.98850 AU -0°42'23	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	2645 Apr 07 16:47 2645 Apr 07 15:24 2645 Apr 24 22:27 2645 Aug 09 03:05 2645 Oct 17 18:44 2645 Oct 17 19:11 2645 Dec 24 05:41 2646 Apr 03 19:44 2646 Apr 14 03:53 2646 Apr 21 00:48 2646 Apr 21 00:49 2646 Apr 20 23:38	17°Y57'29 17°Y57'03 20°Y05'28 27°Y58'04 24°Y31'01 24°Y30'55 21°Y08'37 28°Y42'45 0°8 0°851'51 0°851'51 0°851'29 3°802'26 11°803'06	2°11'14 10.49842 AU -2°44'51 8.44497 AU -2°13'39 2°13'39 10.38983 AU
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behind sun end max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25 2639 Feb 12 15:10 2639 May 06 21:42 2639 May 25 14:17 2639 Jun 13 10:52 2639 Aug 04 09:44 2639 Aug 04 13:00 2639 Oct 13 15:13 2640 Jan 15 18:47 2640 Feb 07 11:07 2640 Feb 07 11:07 2640 Feb 07 07:26 2640 Feb 07 07:26 2640 Feb 24 04:41 2640 Jun 05 20:56 2640 Aug 15 17:18 2640 Aug 15 20:07 2640 Oct 24 12:45 2641 Feb 01 10:37	6°&11'37 6°&12'05 6°&10'36 8°&09'42 15°& 15°&17'03 15°R& 11°&57'15 8°&39'34 15°& 15°&41'37 17°&39'50 17°&39'50 17°&38'45 19°&38'36 26°&51'18 23°&30'59 23°&30'27 20°&12'30 27°&16'53	-0°36'01 8.98850 AU -0°42'23 0°42'22 10.96149 AU -1°07'28 8.92983 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min Earth dist. direct evening set	2645 Apr 07 16:47 2645 Apr 07 15:24 2645 Apr 24 22:27 2645 Aug 09 03:05 2645 Oct 17 18:44 2645 Oct 17 19:11 2645 Dec 24 05:41 2646 Apr 03 19:44 2646 Apr 14 03:53  2646 Apr 21 00:48 2646 Apr 21 00:49 2646 Apr 20 23:38 2646 May 08 10:32 2646 Aug 23 00:08 2646 Oct 31 05:25 2646 Oct 31 05:34 2647 Jan 06 07:40 2647 Apr 17 09:31  2647 May 04 18:59 2647 May 04 19:00	17°Y57'29 17°Y57'03 20°Y05'28 27°Y58'04 24°Y31'01 24°Y30'55 21°Y08'37 28°Y42'45 0°8 0°851'51 0°851'51 0°851'29 3°802'26 11°803'06 7°834'59 7°834'57 4°811'26 11°853'35	2°11'14 10.49842 AU -2°44'51 8.44497 AU -2°13'39 2°13'39 10.38983 AU -2°43'55 8.33890 AU -2°09'08 2°09'07
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behind sun end max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25 2639 Feb 12 15:10 2639 May 06 21:42 2639 May 25 14:17 2639 Jun 13 10:52 2639 Aug 04 09:44 2639 Aug 04 13:00 2639 Oct 13 15:13 2640 Jan 15 18:47 2640 Jan 21 19:04  2640 Feb 07 11:07 2640 Feb 07 11:06 2640 Feb 07 07:26 2640 Feb 07 07:26 2640 Feb 24 04:41 2640 Jun 05 20:56 2640 Aug 15 17:18 2640 Aug 15 20:07 2640 Oct 24 12:45 2641 Feb 01 10:37  2641 Feb 18 03:19 2641 Feb 18 03:16 2641 Feb 17 23:15	6°&11'37 6°&12'05 6°&10'36 8°&09'42 15°& 15°&17'03 15°R& 11°&57'15 8°&39'34 15°& 15°&41'37  17°&39'50 17°&38'45 19°&38'36 26°&51'18 23°&30'59 23°&30'27 20°&12'30 27°&16'06 29°&16'06 29°&14'53	-0°36'01 8.98850 AU -0°42'23 0°42'22 10.96149 AU -1°07'28 8.92983 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise	2645 Apr 07 16:47 2645 Apr 07 15:24 2645 Apr 24 22:27 2645 Aug 09 03:05 2645 Oct 17 18:44 2645 Oct 17 19:11 2645 Dec 24 05:41 2646 Apr 03 19:44 2646 Apr 14 03:53  2646 Apr 21 00:49 2646 Apr 20 23:38 2646 Apr 20 23:38 2646 May 08 10:32 2646 Aug 23 00:08 2646 Oct 31 05:25 2646 Oct 31 05:25 2646 Oct 31 05:34 2647 Jan 06 07:40 2647 Apr 17 09:31  2647 May 04 18:59 2647 May 04 18:15 2647 May 04 18:15 2647 May 11 22:58 2647 May 22 09:05	17°Y57'29 17°Y57'03 20°Y05'28 27°Y58'04 24°Y31'01 24°Y30'55 21°Y08'37 28°Y42'45 0°8 0°851'51 0°851'51 0°851'29 3°802'26 11°803'06 7°834'59 7°834'57 4°811'26 11°853'35 14°805'23 14°805'24 14°805'09 15°8 16°818'39	2°11'14 10.49842 AU -2°44'51 8.44497 AU -2°13'39 2°13'39 10.38983 AU -2°43'55 8.33890 AU -2°09'08 2°09'07
behind sun end max. Earth dist. morning rise retrograde opposition 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. direct evening set	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25 2639 Feb 12 15:10 2639 May 06 21:42 2639 May 25 14:17 2639 Jun 13 10:52 2639 Aug 04 09:44 2639 Aug 04 13:00 2639 Oct 13 15:13 2640 Jan 15 18:47 2640 Jan 21 19:04  2640 Feb 07 11:07 2640 Feb 07 11:06 2640 Feb 07 07:26 2640 Feb 07 07:26 2640 Feb 24 04:41 2640 Jun 05 20:56 2640 Aug 15 17:18 2640 Aug 15 20:07 2640 Oct 24 12:45 2641 Feb 18 03:19 2641 Feb 18 03:16 2641 Feb 17 23:15 2641 Feb 24 05:55	6°≈11'37 6°≈12'05 6°≈10'36 8°≈09'42 15°≈ 15°≈17'03 15°R≈ 11°≈57'15 8°≈39'34 15°≈ 15°≈41'37 17°≈39'50 17°≈39'50 17°≈38'45 19°≈38'36 26°≈51'18 23°≈30'59 23°≈30'27 20°≈12'30 27°≈16'06 29°≈16'06 29°≈16'06 29°≈14'53 0° €	-0°36'01 8.98850 AU -0°42'23 0°42'22 10.96149 AU -1°07'28 8.92983 AU -1°07'08 1°07'08	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	2645 Apr 07 16:47 2645 Apr 07 15:24 2645 Apr 24 22:27 2645 Aug 09 03:05 2645 Oct 17 18:44 2645 Oct 17 19:11 2645 Dec 24 05:41 2646 Apr 03 19:44 2646 Apr 14 03:53  2646 Apr 21 00:49 2646 Apr 21 00:49 2646 Apr 20 23:38 2646 May 08 10:32 2646 Aug 23 00:08 2646 Oct 31 05:25 2646 Oct 31 05:25 2646 Oct 31 05:34 2647 Jan 06 07:40 2647 Apr 17 09:31  2647 May 04 18:59 2647 May 04 18:15 2647 May 04 18:15 2647 May 04 18:15 2647 May 04 18:15 2647 May 02 09:05 2647 Sep 06 03:07	17°Y57'29 17°Y57'03 20°Y05'28 27°Y58'04 24°Y31'01 24°Y30'55 21°Y08'37 28°Y42'45 0°8 0°851'51 0°851'51 0°851'52 3°802'26 11°803'06 7°834'59 7°834'57 4°811'26 11°853'35 14°805'23 14°805'24 14°805'09 15°8 16°818'39 24°826'15	2°11'14 10.49842 AU -2°44'51 8.44497 AU -2°13'39 2°13'39 10.38983 AU -2°43'55 8.33890 AU -2°09'08 2°09'07 10.28766 AU
behind sun end max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. direct evening set	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25 2639 Feb 12 15:10 2639 May 06 21:42 2639 May 25 14:17 2639 Jun 13 10:52 2639 Aug 04 09:44 2639 Aug 04 13:00 2639 Oct 13 15:13 2640 Jan 15 18:47 2640 Jan 21 19:04  2640 Feb 07 11:06 2640 Feb 07 07:26 2640 Feb 07 07:26 2640 Feb 24 04:41 2640 Jun 05 20:56 2640 Aug 15 17:18 2640 Aug 15 20:07 2640 Oct 24 12:45 2641 Feb 18 03:19 2641 Feb 18 03:19 2641 Feb 18 03:15 2641 Feb 17 23:15 2641 Feb 24 05:55 2641 Mar 06 22:26	6°&11'37 6°&12'05 6°&10'36 8°&09'42 15°& 15°&17'03 15°R& 11°&57'15 8°&39'34 15°&41'37 17°&39'50 17°&38'45 19°&38'36 26°&51'18 23°&30'59 23°&30'27 20°&12'30 27°&16'53 29°&16'06 29°&14'53 0° \tag{1} 1°\tag{1} 1'53	-0°36'01 8.98850 AU -0°42'23 0°42'22 10.96149 AU -1°07'28 8.92983 AU -1°07'08 1°07'08	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde opposition	2645 Apr 07 16:47 2645 Apr 07 15:24 2645 Apr 24 22:27 2645 Aug 09 03:05 2645 Oct 17 18:44 2645 Oct 17 19:11 2645 Dec 24 05:41 2646 Apr 03 19:44 2646 Apr 14 03:53  2646 Apr 21 00:49 2646 Apr 21 00:49 2646 Apr 20 23:38 2646 Apr 20 23:38 2646 Aug 23 00:08 2646 Oct 31 05:25 2646 Oct 31 05:25 2646 Oct 31 05:25 2646 Oct 31 05:34 2647 Jan 06 07:40 2647 Apr 17 09:31  2647 May 04 18:59 2647 May 04 18:15 2647 May 04 18:15 2647 May 11 22:58 2647 May 22 09:05 2647 Sep 06 03:07 2647 Nov 13 21:06	17°Y57'29 17°Y57'03 20°Y05'28 27°Y58'04 24°Y31'01 24°Y30'55 21°Y08'37 28°Y42'45 0°8 0°851'51 0°851'51 0°851'59 3°802'26 11°803'06 7°834'59 7°834'57 4°811'26 11°853'35 14°805'23 14°805'24 14°805'09 15°8 16°818'39 24°826'15 20°857'19	2°11'14 10.49842 AU -2°44'51 8.44497 AU -2°13'39 2°13'39 10.38983 AU -2°43'55 8.33890 AU -2°09'08 2°09'07 10.28766 AU
behind sun end max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25 2639 Feb 12 15:10 2639 May 06 21:42 2639 May 25 14:17 2639 Jun 13 10:52 2639 Aug 04 09:44 2639 Aug 04 13:00 2639 Oct 13 15:13 2640 Jan 15 18:47 2640 Jan 21 19:04  2640 Feb 07 11:07 2640 Feb 07 11:06 2640 Feb 07 07:26 2640 Feb 07 07:26 2640 Feb 24 04:41 2640 Jun 05 20:56 2640 Aug 15 17:18 2640 Aug 15 20:07 2640 Oct 24 12:45 2641 Feb 18 03:19 2641 Feb 18 03:19 2641 Feb 18 03:16 2641 Feb 17 23:15 2641 Feb 24 05:55 2641 Mar 06 22:26 2641 Jun 18 09:37	6°≈11'37 6°≈12'05 6°≈10'36 8°≈09'42 15°≈ 15°≈17'03 15°R≈ 11°≈57'15 8°≈39'34 15°≈ 15°≈41'37 17°≈39'50 17°≈38'45 19°≈38'36 26°≈51'18 23°≈30'59 23°≈30'27 20°≈12'30 27°≈16'53 29°≈16'06 29°≈16'06 29°≈14'53 0° ★ 1° ★ 16'05 8° ★ 35'22	-0°36'01 8.98850 AU -0°42'23 0°42'22 10.96149 AU -1°07'28 8.92983 AU -1°07'08 1°07'08 10.89364 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde opposition minimum elong max. Earth dist.	2645 Apr 07 16:47 2645 Apr 07 15:24 2645 Apr 24 22:27 2645 Aug 09 03:05 2645 Oct 17 18:44 2645 Oct 17 19:11 2645 Dec 24 05:41 2646 Apr 03 19:44 2646 Apr 14 03:53  2646 Apr 21 00:49 2646 Apr 20 23:38 2646 Apr 20 23:38 2646 Aug 23 00:08 2646 Aug 23 00:08 2646 Oct 31 05:25 2646 Oct 31 05:25 2646 Oct 31 05:34 2647 Jan 06 07:40 2647 Apr 17 09:31  2647 May 04 18:59 2647 May 04 18:15 2647 May 11 22:58 2647 May 22 09:05 2647 Sep 06 03:07 2647 Nov 13 21:06 2647 Nov 13 20:59	17°Y57'29 17°Y57'03 20°Y05'28 27°Y58'04 24°Y31'01 24°Y30'55 21°Y08'37 28°Y42'45 0°8 0°851'51 0°851'51 0°851'51 0°851'59 3°802'26 11°803'06 7°834'59 7°834'57 4°811'26 11°853'35 14°805'23 14°805'24 14°805'29 15°8 16°818'39 24°826'15 20°857'19 20°857'20	2°11'14 10.49842 AU -2°44'51 8.44497 AU -2°13'39 2°13'39 10.38983 AU -2°43'55 8.33890 AU -2°09'08 2°09'07 10.28766 AU
behind sun end max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. direct evening set	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25 2639 Feb 12 15:10 2639 May 06 21:42 2639 May 25 14:17 2639 Jun 13 10:52 2639 Aug 04 09:44 2639 Aug 04 13:00 2639 Oct 13 15:13 2640 Jan 15 18:47 2640 Jan 21 19:04  2640 Feb 07 11:06 2640 Feb 07 07:26 2640 Feb 07 07:26 2640 Feb 24 04:41 2640 Jun 05 20:56 2640 Aug 15 17:18 2640 Aug 15 20:07 2640 Oct 24 12:45 2641 Feb 18 03:19 2641 Feb 18 03:19 2641 Feb 18 03:15 2641 Feb 17 23:15 2641 Feb 24 05:55 2641 Mar 06 22:26	6°&11'37 6°&12'05 6°&10'36 8°&09'42 15°& 15°&17'03 15°R& 11°&57'15 8°&39'34 15°&41'37 17°&39'50 17°&38'45 19°&38'36 26°&51'18 23°&30'59 23°&30'27 20°&12'30 27°&16'53 29°&16'06 29°&14'53 0° \tag{1} 1°\tag{1} 1'53	-0°36'01 8.98850 AU -0°42'23 0°42'22 10.96149 AU -1°07'28 8.92983 AU -1°07'08 1°07'08 10.89364 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde opposition	2645 Apr 07 16:47 2645 Apr 07 15:24 2645 Apr 24 22:27 2645 Aug 09 03:05 2645 Oct 17 18:44 2645 Oct 17 19:11 2645 Dec 24 05:41 2646 Apr 03 19:44 2646 Apr 14 03:53  2646 Apr 21 00:49 2646 Apr 21 00:49 2646 Apr 20 23:38 2646 Apr 20 23:38 2646 Aug 23 00:08 2646 Oct 31 05:25 2646 Oct 31 05:25 2646 Oct 31 05:25 2646 Oct 31 05:34 2647 Jan 06 07:40 2647 Apr 17 09:31  2647 May 04 18:59 2647 May 04 18:15 2647 May 04 18:15 2647 May 11 22:58 2647 May 22 09:05 2647 Sep 06 03:07 2647 Nov 13 21:06	17°Y57'29 17°Y57'03 20°Y05'28 27°Y58'04 24°Y31'01 24°Y30'55 21°Y08'37 28°Y42'45 0°8 0°851'51 0°851'51 0°851'59 3°802'26 11°803'06 7°834'59 7°834'57 4°811'26 11°853'35 14°805'23 14°805'24 14°805'09 15°8 16°818'39 24°826'15 20°857'19	2°11'14 10.49842 AU -2°44'51 8.44497 AU -2°13'39 2°13'39 10.38983 AU -2°43'55 8.33890 AU -2°09'08 2°09'07 10.28766 AU
behind sun end max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	2639 Jan 26 21:51 2639 Jan 26 23:27 2639 Jan 26 18:25 2639 Feb 12 15:10 2639 May 06 21:42 2639 May 25 14:17 2639 Jun 13 10:52 2639 Aug 04 09:44 2639 Aug 04 13:00 2639 Oct 13 15:13 2640 Jan 15 18:47 2640 Jan 21 19:04  2640 Feb 07 11:07 2640 Feb 07 11:06 2640 Feb 07 07:26 2640 Feb 07 07:26 2640 Feb 24 04:41 2640 Jun 05 20:56 2640 Aug 15 17:18 2640 Aug 15 20:07 2640 Oct 24 12:45 2641 Feb 18 03:19 2641 Feb 18 03:19 2641 Feb 18 03:16 2641 Feb 17 23:15 2641 Feb 24 05:55 2641 Mar 06 22:26 2641 Jun 18 09:37	6°≈11'37 6°≈12'05 6°≈10'36 8°≈09'42 15°≈ 15°≈17'03 15°R≈ 11°≈57'15 8°≈39'34 15°≈ 15°≈41'37 17°≈39'50 17°≈38'45 19°≈38'36 26°≈51'18 23°≈30'59 23°≈30'27 20°≈12'30 27°≈16'53 29°≈16'06 29°≈14'53 0° ₩ 1° ₩ 16'05 8° ₩ 35'22 5° ₩ 13'46	-0°36'01 8.98850 AU -0°42'23 0°42'22 10.96149 AU -1°07'28 8.92983 AU -1°07'08 1°07'08 10.89364 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde opposition minimum elong max. Earth dist.	2645 Apr 07 16:47 2645 Apr 07 15:24 2645 Apr 24 22:27 2645 Aug 09 03:05 2645 Oct 17 18:44 2645 Oct 17 19:11 2645 Dec 24 05:41 2646 Apr 03 19:44 2646 Apr 14 03:53  2646 Apr 21 00:49 2646 Apr 20 23:38 2646 Apr 20 23:38 2646 Aug 23 00:08 2646 Aug 23 00:08 2646 Oct 31 05:25 2646 Oct 31 05:25 2646 Oct 31 05:34 2647 Jan 06 07:40 2647 Apr 17 09:31  2647 May 04 18:59 2647 May 04 18:15 2647 May 11 22:58 2647 May 22 09:05 2647 Sep 06 03:07 2647 Nov 13 21:06 2647 Nov 13 20:59	17°Y57'29 17°Y57'03 20°Y05'28 27°Y58'04 24°Y31'01 24°Y30'55 21°Y08'37 28°Y42'45 0°8 0°851'51 0°851'51 0°851'51 0°851'59 3°802'26 11°803'06 7°834'59 7°834'57 4°811'26 11°853'35 14°805'23 14°805'24 14°805'29 15°8 16°818'39 24°826'15 20°857'19 20°857'20	2°11'14 10.49842 AU -2°44'51 8.44497 AU -2°13'39 2°13'39 10.38983 AU -2°43'55 8.33890 AU -2°09'08 2°09'07 10.28766 AU

conjunction	2648 May 17 23:00	27° <b>8</b> 37'06	1057120	opposition	2654 Feb 04 02:43	14° <b>Ω</b> 52'19	0°44'05
minimum elong	2648 May 17 23:03	27° <b>8</b> 37'07		min. Earth dist.	2654 Feb 03 23:21	$14^{\circ}\Omega 52^{\circ}19$	8.10552 AU
max. Earth dist.	2648 May 17 23:35	_	10.19764 AU	direct	2654 Apr 12 13:06	11° <b>Ω</b> 23'11	6.10332 AU
morning rise	2648 Jun 04 17:32	29° <b>8</b> 52'56	10.17704 AC	direct	2654 Jun 17 13:31	11 <b>0(2</b> 5 11	
morning risc	2648 Jun 05 16:05	0°II		evening set	2654 Jul 27 08:03	19° <b>Ω</b> 34'54	
retrograde	2648 Sep 19 11:11	8° <b>Ⅱ</b> 05'51		evening set	2034 Jul 27 00.03	17 663434	
opposition	2648 Nov 26 17:19	4° <b>∏</b> 36′23	-2°15'34	conjunction	2654 Aug 14 10:08	21° <b>Ω</b> 53'42	0°50'49
min. Earth dist.	2648 Nov 26 16:17	4° <b>I</b> I36'36	8.15987 AU	minimum elong	2654 Aug 14 10:05	21° <b>Ω</b> 53'42	0°50'49
direct	2649 Feb 01 07:56	1° <b>I</b> I10'31	0.13707 110	max. Earth dist.	2654 Aug 14 14:05		10.13538 AU
evening set	2649 May 14 16:38	9° <b>I</b> 107'50		morning rise	2654 Sep 01 09:59	24°Ω11'46	10.155550710
evening set	204) May 14 10.30	) <b>H</b> 0/30		morning 1130	2654 Oct 24 17:23	0°m	
conjunction	2649 Jun 01 11:50	11° <b>Ⅱ</b> 24'47	-1°38'58	retrograde	2654 Dec 13 10:24	2° Mp 11'06	
minimum elong	2649 Jun 01 11:53	11° <b>II</b> 24'49	1°38'57	renograde	2655 Feb 02 09:31	30°RΩ	
max. Earth dist.	2649 Jun 01 14:01		10.12514 AU	opposition	2655 Feb 18 00:53	28° <b>Ω</b> 45'16	1°21'04
morning rise	2649 Jun 19 10:26	13° <b>II</b> 42'53	10.12314710	min. Earth dist.	2655 Feb 17 21:45	28° <b>Ω</b> 45'54	8.17060 AU
retrograde	2649 Oct 03 22:35	21° <b>I</b> I59'02		direct	2655 Apr 27 00:01	25°Ω16'14	0.17000710
opposition	2649 Dec 10 17:04	18° <b>∏</b> 29'25	-1°48'45	direct	2655 Jul 13 03:57	0° m	
min. Earth dist.	2649 Dec 10 14:52		8.09759 AU	evening set	2655 Aug 11 02:00	3° <b>m</b> 24'59	
direct	2650 Feb 15 06:13	15° <b>Ⅱ</b> 02'31	6.07137 AC	evening set	2033 Aug 11 02.00	3 Hg 24 37	
evening set	2650 May 29 08:26	23° <b>I</b> 106'06		conjunction	2655 Aug 29 00:55	5° Mp 41'42	1°18'44
evening set	2030 May 27 00.20	23 1100 00		minimum elong	2655 Aug 29 00:52	5° m) 41'41	1°18'44
conjunction	2650 Jun 16 07:52	25° <b>Ⅱ</b> 25'04	-1°14'24	max. Earth dist.	2655 Aug 29 04:11	5° m) 42'45	
minimum elong	2650 Jun 16 07:55	25° <b>I</b> I25'05		morning rise	2655 Sep 15 20:39	7° Mp 57'24	10.20700710
max. Earth dist.	2650 Jun 16 11:24		10.07470 AU	retrograde	2655 Dec 27 01:04	15° Mp 48'56	
morning rise	2650 Jul 04 09:40	27° <b>I</b> I44'50	10.07470710	opposition	2656 Mar 02 18:54	12° Mp 24'20	1°52'45
morning rise	2650 Jul 22 16:40	0°95		min. Earth dist.	2656 Mar 02 15:57	12° m) 24'56	8.25352 AU
retrograde	2650 Oct 18 10:54	6° <b>©</b> 01'54		direct	2656 May 10 06:38	8° <b>m</b> ) 55'40	6.23332 AO
opposition	2650 Dec 24 19:11	2° <b>©</b> 32'29	-1°15'05	evening set	2656 Aug 24 12:46	16° Mp 59'52	
min. Earth dist.	2650 Dec 24 15:57	2°933'09	8.05924 AU	evening set	2030 Mug 24 12.40	10 11/25/32	
mm. Darm dist.	2651 Jan 28 12:42	30°RⅡ	0.03721710	conjunction	2656 Sep 11 07:39	19° <b>m</b> 14'06	1°41'48
direct	2651 Mar 01 09:26	29° <b>Ⅱ</b> 04'43		minimum elong	2656 Sep 11 07:36	19° <b>m</b> ) 14'05	1°41'47
direct	2651 Apr 02 00:28	0°95		max. Earth dist.	2656 Sep 11 10:15	-	10.29916 AU
evening set	2651 Jun 13 06:03	7° <b>©</b> 13'11		morning rise	2656 Sep 28 22:31	21° m) 27'05	10.27710710
evening set	2031 3411 13 00.03	7 31311		retrograde	2657 Jan 08 10:14	29° mg 10'31	
conjunction	2651 Jul 01 08:35	9° <b>©</b> 33'27	-0°45'12	opposition	2657 Mar 16 08:10	25° mp 47'13	2°17'35
minimum elong	2651 Jul 01 08:37	9° <b>9</b> 33'27	0°45'12	min. Earth dist.	2657 Mar 16 05:41	25° m) 47'43	8.34844 AU
max. Earth dist.	2651 Jul 01 13:08		10.04977 AU	direct	2657 May 24 07:42	22° mg 19'13	0.54044 710
morning rise	2651 Jul 19 12:18	11° <b>9</b> 54'07	10.04)///110	direct	2657 Sep 05 05:08	0° <u>م</u>	
retrograde	2651 Nov 01 22:59	20°909'45		evening set	2657 Sep 07 14:49	0° <b>-</b> 0° <b>-</b> 17'39	
opposition	2652 Jan 07 22:32	16°940'52	-0°36'40	evening set	2037 Бер 07 14.43	0 =1737	
min. Earth dist.	2652 Jan 07 18:43	16°541'39	8.04758 AU	conjunction	2657 Sep 25 05:11	2° <b>ء</b> 29'12	1°58'57
direct	2652 Mar 14 16:20	13°9512'24	0.04730710	minimum elong	2657 Sep 25 05:11 2657 Sep 25 05:08	2° <b>ユ</b> 29'11	1°58'56
evening set	2652 Jun 27 06:56	21°9523'57		max. Earth dist.	2657 Sep 25 07:19		10.39794 AU
evening set	2032 Juli 27 00.30	21 32557		morning rise	2657 Oct 12 14:57	4° <b>ഫ</b> 39'22	10.57774 AU
conjunction	2652 Jul 15 11:03	23°544'39	-0°13'13	retrograde	2658 Jan 21 12:55	12° <b>Ω</b> 14'48	
minimum elong	2652 Jul 15 11:03	23° <b>©</b> 44'39	0°13'12	opposition	2658 Mar 29 16:49	8° <b>≏</b> 52'48	2°34'36
behind sun begin	2652 Jul 15 06:54	23°5643'19	0 13 12	min. Earth dist.	2658 Mar 29 15:14	8° <b>£</b> 53'06	8.45059 AU
behind sun end	2652 Jul 15 15:13	23°545'59		direct	2658 Jun 07 03:22	5° <b>Ω</b> 25'39	0.15057710
max. Earth dist.	2652 Jul 15 15:56		10.05209 AU	evening set	2658 Sep 21 07:05	13° <b>Ω</b> 17'20	
morning rise	2652 Aug 02 15:09	26°905'21	10.00207110	evening sec	2000 Sep 21 07.00	15 —17 20	
morning rise	2652 Sep 04 13:40	0° <b>Ω</b>		conjunction	2658 Oct 08 16:48	15° <b>≏</b> 26'10	2°09'40
retrograde	2652 Nov 15 08:30	4° <b>Ω</b> 17'19		minimum elong	2658 Oct 08 16:46	15° <b>Ω</b> 26'09	
asc. node	2652 Dec 15 04:00	3° <b>Ω</b> 28'48		max. Earth dist.	2658 Oct 08 18:07		10.50185 AU
opposition	2653 Jan 21 01:34	0° <b>Ω</b> 49'15	0°03'58	morning rise	2658 Oct 25 21:48	17° <b>Ω</b> 33'36	10.50105710
min. Earth dist.	2000 Juli 21 01.54	0 00-713	0 05 50	-	2030 OCC 23 21.40	17 -3330	
iiiii. Lattii dist.	2653 Ian 20 21:54	0°Ω50'00	8 06342 ATT	retrograde	2659 Feb. 03 07:09	25° <b>Ω</b> 01'21	
	2653 Jan 20 21:54 2653 Jan 31 02:40	0° <b>Ω</b> 50'00 30°R∽	8.06342 AU	retrograde opposition	2659 Feb 03 07:09 2659 Apr 11 20:31	25° <b>♀</b> 01'21 21° <b>♀</b> 40'31	2°43'28
direct	2653 Jan 31 02:40	30° <b>₹</b> 5	8.06342 AU	opposition	2659 Apr 11 20:31	21° <b>≏</b> 40'31	2°43'28 8 55564 AU
direct	2653 Jan 31 02:40 2653 Mar 29 01:55	30°Rூ 27°ॐ20′20	8.06342 AU	opposition min. Earth dist.	2659 Apr 11 20:31 2659 Apr 11 20:03	21° <b>♀</b> 40'31 21° <b>♀</b> 40'37	2°43'28 8.55564 AU
	2653 Jan 31 02:40 2653 Mar 29 01:55 2653 May 23 15:59	30°R© 27°©20′20 0°Ω	8.06342 AU	opposition min. Earth dist. direct	2659 Apr 11 20:31 2659 Apr 11 20:03 2659 Jun 20 18:45	21° <b>Ω</b> 40'31 21° <b>Ω</b> 40'37 18° <b>Ω</b> 14'22	
direct evening set	2653 Jan 31 02:40 2653 Mar 29 01:55	30°Rூ 27°ॐ20′20	8.06342 AU	opposition min. Earth dist.	2659 Apr 11 20:31 2659 Apr 11 20:03	21° <b>♀</b> 40'31 21° <b>♀</b> 40'37	
evening set	2653 Jan 31 02:40 2653 Mar 29 01:55 2653 May 23 15:59 2653 Jul 12 08:42	30°R© 27°©20'20 0°Ω 5°Ω33'00		opposition min. Earth dist. direct evening set	2659 Apr 11 20:31 2659 Apr 11 20:03 2659 Jun 20 18:45 2659 Oct 04 13:24	21° <b>Ω</b> 40'31 21° <b>Ω</b> 40'37 18° <b>Ω</b> 14'22 25° <b>Ω</b> 58'38	8.55564 AU
evening set	2653 Jan 31 02:40 2653 Mar 29 01:55 2653 May 23 15:59 2653 Jul 12 08:42 2653 Jul 30 12:38	30°RS 27°S20'20 0°N 5°N33'00	0°19'33	opposition min. Earth dist. direct evening set conjunction	2659 Apr 11 20:31 2659 Apr 11 20:03 2659 Jun 20 18:45 2659 Oct 04 13:24 2659 Oct 21 18:47	21° \$\alpha 40'31\\ 21° \$\alpha 40'37\\ 18° \$\alpha 14'22\\ 25° \$\alpha 58'38\\ 28° \$\alpha 04'52\\	8.55564 AU 2°13'48
evening set  conjunction  minimum elong	2653 Jan 31 02:40 2653 Mar 29 01:55 2653 May 23 15:59 2653 Jul 12 08:42 2653 Jul 30 12:38 2653 Jul 30 12:37	30°RS 27°S20'20 0°N 5°N33'00 7°N53'11 7°N53'11	0°19'33 0°19'33	opposition min. Earth dist. direct evening set  conjunction minimum elong	2659 Apr 11 20:31 2659 Apr 11 20:03 2659 Jun 20 18:45 2659 Oct 04 13:24 2659 Oct 21 18:47 2659 Oct 21 18:47	21° \( \Omega \) 40'31 21° \( \Omega \) 40'37 18° \( \Omega \) 14'22 25° \( \Omega \) 58'38 28° \( \Omega \) 04'52 28° \( \Omega \) 04'52	8.55564 AU 2°13'48 2°13'48
evening set  conjunction  minimum elong  max. Earth dist.	2653 Jan 31 02:40 2653 Mar 29 01:55 2653 May 23 15:59 2653 Jul 12 08:42 2653 Jul 30 12:38 2653 Jul 30 12:37 2653 Jul 30 17:08	30°RS 27°S20'20 0°N 5°N33'00 7°N53'11 7°N53'11 7°N54'38	0°19'33	opposition min. Earth dist. direct evening set conjunction	2659 Apr 11 20:31 2659 Apr 11 20:03 2659 Jun 20 18:45 2659 Oct 04 13:24 2659 Oct 21 18:47 2659 Oct 21 18:47 2659 Oct 21 18:47	21° \$\alpha 40'31\ 21° \$\alpha 40'37\ 18° \$\alpha 14'22\ 25° \$\alpha 58'38\ \ 28° \$\alpha 04'52\ 28° \$\alpha 04'52\ 28° \$\alpha 04'52\ \ 28° \$\alpha 04'52\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	8.55564 AU 2°13'48
evening set  conjunction  minimum elong	2653 Jan 31 02:40 2653 Mar 29 01:55 2653 May 23 15:59 2653 Jul 12 08:42 2653 Jul 30 12:38 2653 Jul 30 12:37 2653 Jul 30 17:08 2653 Aug 17 15:24	30°R© 27°©20'20 0°N 5°N33'00 7°N53'11 7°N53'11 7°N54'38 10°N12'59	0°19'33 0°19'33	opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	2659 Apr 11 20:31 2659 Apr 11 20:03 2659 Jun 20 18:45 2659 Oct 04 13:24 2659 Oct 21 18:47 2659 Oct 21 18:47 2659 Oct 21 18:47 2659 Nov 06 11:20	21° \$\alpha 40'31\ 21° \$\alpha 40'37\ 18° \$\alpha 14'22\ 25° \$\alpha 58'38\ \ 28° \$\alpha 04'52\ 28° \$\alpha 04'52\ 0° \$\mathbb{M}.	8.55564 AU 2°13'48 2°13'48
evening set  conjunction minimum elong max. Earth dist. morning rise	2653 Jan 31 02:40 2653 Mar 29 01:55 2653 May 23 15:59 2653 Jul 12 08:42 2653 Jul 30 12:38 2653 Jul 30 12:37 2653 Jul 30 17:08 2653 Aug 17 15:24 2653 Sep 28 06:21	30°RS 27°S20'20 0°N 5°N33'00 7°N53'11 7°N54'38 10°N12'59 15°N	0°19'33 0°19'33	opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise	2659 Apr 11 20:31 2659 Apr 11 20:03 2659 Jun 20 18:45 2659 Oct 04 13:24 2659 Oct 21 18:47 2659 Oct 21 18:47 2659 Oct 21 18:47 2659 Nov 06 11:20 2659 Nov 07 19:41	21° \$\alpha 40'31\ 21° \$\alpha 40'37\ 18° \$\alpha 14'22\ 25° \$\alpha 58'38\  28° \$\alpha 04'52\ 28° \$\alpha 04'52\ 0° \$\mathbb{N}\$ 0° \$\mathbb{N} 09'46	8.55564 AU 2°13'48 2°13'48
evening set  conjunction  minimum elong  max. Earth dist.	2653 Jan 31 02:40 2653 Mar 29 01:55 2653 May 23 15:59 2653 Jul 12 08:42 2653 Jul 30 12:38 2653 Jul 30 12:37 2653 Jul 30 17:08 2653 Aug 17 15:24	30°R© 27°©20'20 0°N 5°N33'00 7°N53'11 7°N53'11 7°N54'38 10°N12'59	0°19'33 0°19'33	opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	2659 Apr 11 20:31 2659 Apr 11 20:03 2659 Jun 20 18:45 2659 Oct 04 13:24 2659 Oct 21 18:47 2659 Oct 21 18:47 2659 Oct 21 18:47 2659 Nov 06 11:20	21° \$\alpha 40'31\ 21° \$\alpha 40'37\ 18° \$\alpha 14'22\ 25° \$\alpha 58'38\ \ 28° \$\alpha 04'52\ 28° \$\alpha 04'52\ 0° \$\mathbb{M}.	8.55564 AU 2°13'48 2°13'48 10.60645 AU

min Forth dist	2660 Amr 22 10:21	40 <b>m</b> 10100	0 65000 ATT	natra ana da	2666 Apr 26 18:43	17° <b>る</b> 50'45	
min. Earth dist.	2660 Apr 23 19:31	4°M10'28	8.65892 AU	retrograde	=		094212.0
direct	2660 Jul 03 03:10	0°M45'27		opposition	2666 Jul 06 04:46	14°₹32'35	
evening set	2660 Oct 16 09:54	8°M22'00		min. Earth dist.	2666 Jul 06 06:31	14° <b>る</b> 32'15	9.02407 AU
	266037 02 11 22	100 <b>m 0</b> 5155	2011126	direct	2666 Sep 15 03:13	11°る13'06	
conjunction	2660 Nov 02 11:32	10°M25'55	2°11'36	evening set	2666 Dec 25 09:28	18° <b>ප</b> 16'04	
minimum elong	2660 Nov 02 11:33	10°M25'55	2°11'36		2667 11 01 17	200710106	0001151
max. Earth dist.	2660 Nov 02 10:18		10.70708 AU	conjunction	2667 Jan 11 01:17	20° <b>ට</b> 13'26	
morning rise	2660 Nov 19 09:06	12°M28'35		minimum elong	2667 Jan 11 01:18	20°る13'26	
_	2660 Dec 11 11:38	15° <b>M</b> ₊		max. Earth dist.	2667 Jan 10 23:12		11.02478 AU
retrograde	2661 Feb 27 02:37	19° <b>M</b> .42'51		morning rise	2667 Jan 27 16:40	22° <b>る</b> 10'43	
opposition	2661 May 06 12:59	16°M23'50		retrograde	2667 May 08 17:28	29° <b>る</b> 13'18	
min. Earth dist.	2661 May 06 13:30	16° <b>™</b> 23'44	8.75575 AU	opposition	2667 Jul 18 08:33	25° <b>る</b> 54'41	0°10'29
	2661 May 25 10:18	15°RM		min. Earth dist.	2667 Jul 18 10:12	25°₹54'23	9.02044 AU
direct	2661 Jul 16 05:07	12°M59'51		direct	2667 Sep 27 01:22	22° <b>る</b> 35'43	
	2661 Sep 04 15:17	15°M		desc. node	2667 Nov 16 11:21	24° <b>る</b> 36'13	
evening set	2661 Oct 28 21:06	20°M28'44		evening set	2668 Jan 05 19:07	29° <b>る</b> 37'20	
					2668 Jan 09 01:03	0° <b>≈</b>	
conjunction	2661 Nov 14 19:44	22°M30'38	2°03'33				
minimum elong	2661 Nov 14 19:45	22°M30'39	2°03'33	conjunction	2668 Jan 22 10:42	1° <b>≈</b> 34'49	-0°04'49
max. Earth dist.	2661 Nov 14 18:31	22°M30'17	10.79924 AU	minimum elong	2668 Jan 22 10:42	1° <b>≈</b> 34'49	0°04'49
morning rise	2661 Dec 01 14:34	24°M31'27		behind sun begin	2668 Jan 22 03:53	1° <b>≈</b> 32'50	
	2662 Jan 25 11:53	0° <b>∡</b> 7		behind sun end	2668 Jan 22 17:31	1° <b>≈</b> 36'49	
retrograde	2662 Mar 11 05:23	1° <b>∡</b> 740′25		max. Earth dist.	2668 Jan 22 08:01	1° <b>≈</b> 34'04	11.01088 AU
	2662 Apr 26 11:46	30°RML		morning rise	2668 Feb 08 02:46	3° <b>≈</b> 32'30	
opposition	2662 May 19 02:40	28°M21'59	2°24'14	retrograde	2668 May 19 18:55	10° <b>≈</b> 38′12	
min. Earth dist.	2662 May 19 03:10	28°M21'54	8.84201 AU	opposition	2668 Jul 29 13:13	7° <b>≈</b> 18'59	-0°22'11
direct	2662 Jul 29 01:32	24°M59'05		min. Earth dist.	2668 Jul 29 15:28	7°≈18'34	8.99625 AU
	2662 Oct 20 04:18	0° <b>∡</b> ¹		direct	2668 Oct 07 21:37	4° <b>≈</b> 00'19	
evening set	2662 Nov 10 00:16	2° <b>∡</b> ¹20'47		evening set	2669 Jan 16 06:06	11° <b>≈</b> 02'02	
-				-			
conjunction	2662 Nov 26 20:33	4° <b>҂</b> ²21'03	1°50'18	conjunction	2669 Feb 01 21:47	12°≈59'59	-0°31'17
minimum elong	2662 Nov 26 20:35	4° <b>҂</b> ²21'03	1°50'19	minimum elong	2669 Feb 01 21:46	12°≈59'59	0°31'17
max. Earth dist.	2662 Nov 26 19:33	4° <b>҂</b> ¹20'45	10.87913 AU	max. Earth dist.	2669 Feb 01 18:29	12°≈59'00	10.97675 AU
morning rise	2662 Dec 13 13:25	6° <b>₹</b> 20′22		morning rise	2669 Feb 18 14:58	14°≈58'22	
retrograde	2663 Mar 23 05:54	13° <b>х</b> 25′13		<i>5 5</i>	2669 Feb 18 20:34	15° <b>≈</b>	
opposition	2663 May 31 12:39	10° <b>₹</b> 07'10	2°05'01	retrograde	2669 May 31 22:09	22°≈08'40	
min. Earth dist.	2663 May 31 13:45	10° <b>∡</b> ¹06'58	8.91434 AU	opposition	2669 Aug 10 19:49	18° <b>≈</b> 48'37	-0°54'13
direct	2663 Aug 10 14:02	6° <b>₹</b> ¹45'17	0.91.0.110	min. Earth dist.	2669 Aug 10 22:17	18° <b>≈</b> 48'09	8.95250 AU
evening set	2663 Nov 21 20:45	14° <b>×</b> <sup>7</sup> 00'34		direct	2669 Oct 19 19:25	15°≈30'03	0.93230710
e venning see	2003 1101 21 20:13	11,7,0031		evening set	2670 Jan 27 19:48	22° <b>≈</b> 33'19	
conjunction	2663 Dec 08 15:09	15° <b>₹</b> 759'34	1°32'40	evening set	2070 3411 27 17.40	22 70/33 17	
minimum elong	2663 Dec 08 15:11	15° <b>х</b> 59'34		conjunction	2670 Feb 13 12:07	24°≈32'04	0°56'46
max. Earth dist.	2663 Dec 08 13:24		10.94365 AU	minimum elong	2670 Feb 13 12:05	24°≈32'03	
morning rise	2663 Dec 25 06:54	17° 🗷 57'50	10.74303 AC	max. Earth dist.	2670 Feb 13 09:26		10.92362 AU
retrograde	2664 Apr 03 02:05	24° 🖈 59'52		morning rise	2670 Mar 02 06:36	26°≈31'28	10.72302 AC
opposition	2664 Jun 11 19:47	24 × 3932 21°× 42'00	1°40'58	morning risc	2670 Apr 03 05:54	20 <b>≈</b> 31 28	
min. Earth dist.	2664 Jun 11 21:56	21° <b>х</b> 4200 21° <b>х</b> 41'36	8.97001 AU	retrograde	2670 Jun 13 08:22	3° <b>)</b> 47'40	
direct	2664 Aug 21 21:40	18° <b>₹</b> 21'01	8.97001 AU	opposition	2670 Aug 23 04:59	0° <b>\</b> 26'37	1024127
evening set	2664 Dec 02 12:04	25° 🗷 30'58		min. Earth dist.	2670 Aug 23 06:44		8.89071 AU
evening set	2007 DCC 02 12.04	45 × 30 38		iiiii. Lattii tiist.	2670 Aug 29 03:38	0 \(\chi_2\) 17 30°\\\	3.070/1 AU
agniumation	2664 Dec 19 05:02	27° <b>₹</b> 29'02	1011127	direct	2670 Oct 31 19:21	27°≈07'57	
conjunction	2664 Dec 19 05:04	27° <b>x</b> 29'02	1°11'27	direct	2670 Dec 30 15:34	2/ <b>≈</b> 0/3/ 0° <b>\</b>	
minimum elong			10.99044 AU	avanina aat		0 <del>X</del> 4° <b>¥</b> 14'09	
max. Earth dist.	2664 Dec 19 02:11		10.99044 AU	evening set	2671 Feb 08 14:01	4 X 14 09	
morning rise	2665 Jan 04 20:17	29° <b>₹</b> 26'37			2671 F. L. 25, 27.24	60 <b>V</b> 1 410 <b>2</b>	1020112
	2665 Jan 09 16:10	0°る		conjunction	2671 Feb 25 07:24	6° <b>)</b> (14'02	
retrograde	2665 Apr 14 22:03	6°る27'20	1012100	minimum elong	2671 Feb 25 07:22	6° <b>)</b> 14′02	
opposition	2665 Jun 24 00:50	3°₹09'26	1°13'09	max. Earth dist.	2671 Feb 25 05:43		10.85337 AU
min. Earth dist.	2665 Jun 24 03:09	3°る09'00	9.00702 AU	morning rise	2671 Mar 14 03:28	8° <b>)</b> € 14'48	
t' .	2665 Aug 19 04:10	30°R⊀ <sup>7</sup>		retrograde	2671 Jun 26 00:24	15° <b>)</b> €37'56	1051120
direct	2665 Sep 03 02:52	29° <b>₹</b> 49'15		opposition	2671 Sep 04 17:27	12° <b>)</b> 15'47	
	2665 Sep 17 22:31	0°궁		min. Earth dist.	2671 Sep 04 18:25		8.81318 AU
evening set	2665 Dec 13 23:47	6° <b>る</b> 55'03		direct	2671 Nov 12 19:35	8° <b>¥</b> 56'50	
	0.00	00-	00.4572.5	evening set	2672 Feb 20 14:02	16° <b>∺</b> 07'18	
conjunction	2665 Dec 30 15:57	8° <b>궁</b> 52'36	0°47'33		0.500	1001/00	10.40:2-
minimum elong	2665 Dec 30 15:59	8° <b>る</b> 52'36	0°47'32	conjunction	2672 Mar 08 08:49	18° <b>)</b> €08'38	
max. Earth dist.	2665 Dec 30 13:13		11.01785 AU	minimum elong	2672 Mar 08 08:46	18° <b>)</b> €08'38	1°40'35
morning rise	2666 Jan 16 07:06	10° <b>る</b> 49'51		max. Earth dist.	2672 Mar 08 07:13	18° <b>∺</b> 08'09	10.76880 AU

minimum elong max. Earth dist.	2684 Aug 21 17:37 2684 Aug 21 21:13 2684 Aug 24 14:00	29° <b>№</b> 38'04 29° <b>№</b> 39'14 0° <b>№</b>	1°06'24 10.16783 AU	conjunction minimum elong max. Earth dist.	2690 Nov 09 11:51 2690 Nov 09 11:53 2690 Nov 09 12:03	17°M09'08 17°M09'09 17°M09'12	2°07'55 2°07'56 10.75874 AU
morning rise retrograde	2684 Sep 08 15:20 2684 Dec 20 05:00	1° m 54'56 9° m 50'01	1020155	morning rise retrograde	2690 Nov 26 07:51 2691 Mar 05 23:53	19°M10'46 26°M21'56	2021110
opposition min. Earth dist.	2685 Feb 24 20:47 2685 Feb 24 18:21	6° Mp 24'19 6° Mp 24'49	1°38'55 8.20580 AU	opposition min. Earth dist.	2691 May 13 15:59 2691 May 13 16:26	23°M03'19 23°M03'14	2°31'10 8.80623 AU
direct	2685 May 04 02:05	2° Mp 54'54	6.20360 AU	direct	2691 Jul 23 10:59	19°M40'02	6.60023 AU
evening set	2685 Aug 18 07:01	11° mp 01'17		evening set	2691 Nov 04 18:42	27°M04'56	
conjunction	2685 Sep 05 03:54	13° <b>m</b> ) 16'46	1°31'49	conjunction	2691 Nov 21 15:55	29°M05'53	1°57'00
minimum elong	2685 Sep 05 03:51	13° <b>m</b> 16'45	1°31'49	minimum elong	2691 Nov 21 15:57	29°M05'54	1°57'00
max. Earth dist.	2685 Sep 05 06:35	13°M 17'37	10.24732 AU	max. Earth dist.	2691 Nov 21 14:51	29°M05'34	10.84825 AU
morning rise	2685 Sep 22 21:05	15°Mp31'06			2691 Nov 29 04:12	0° <b>∡</b> 7	
retrograde	2686 Jan 02 16:27	23°Mp 18'18		morning rise	2691 Dec 08 09:47	1° <b>∡</b> 05'50	
opposition	2686 Mar 10 12:05	19° <b>™</b> 53'51	2°07'02	retrograde	2692 Mar 17 00:48	8° <b>∡</b> 12'20	
min. Earth dist.	2686 Mar 10 10:19	19° <b>m</b> 54'13	8.29359 AU	opposition	2692 May 25 03:26	4° <b>⋌</b> *54'24	2°14'30
direct	2686 May 18 05:56	16° Mp 24'55		min. Earth dist.	2692 May 25 04:14	4° <b>₹</b> 54'15	8.88886 AU
evening set	2686 Sep 01 12:57	24° Tp 26'10		direct evening set	2692 Aug 04 02:58 2692 Nov 15 18:21	1° <b>х</b> ³32'21 8° <b>х</b> ³50'30	
conjunction	2686 Sep 19 05:21	26° m 39'02	1°51'47	evening set	2072 1107 13 10.21	0 7 30 30	
minimum elong	2686 Sep 19 05:18	26° Mp 39'01	1°51'46	conjunction	2692 Dec 02 13:30	10° <b>₹</b> ′50'01	1°41'17
max. Earth dist.	2686 Sep 19 07:01	26°M 39'33	10.34149 AU	minimum elong	2692 Dec 02 13:32	10° <b>₹</b> ′50′01	1°41'18
morning rise	2686 Oct 06 17:39	28° <b>m</b> 50'35		max. Earth dist.	2692 Dec 02 12:08	10° <b>х</b> 49′36	10.92359 AU
	2686 Oct 16 05:57	0∘ <b>ত</b>		morning rise	2692 Dec 19 05:49	12° <b>≯</b> 48'41	
retrograde	2687 Jan 15 20:15	6° <b>≏</b> 29'41		retrograde	2693 Mar 28 22:56	19° <b>∡</b> 51'47	
opposition	2687 Mar 23 22:40	3° <b>₾</b> 06'33	2°27'44	opposition	2693 Jun 06 11:55	16° <b>∡</b> ³34'17	1°52'34
min. Earth dist.	2687 Mar 23 20:56	3° <b>Ω</b> 06'53	8.39346 AU	min. Earth dist.	2693 Jun 06 12:29	16° <b>∡</b> 734'11	8.95565 AU
J:4	2687 May 11 17:17	30°RM)		direct	2693 Aug 16 14:08	13° <b>₹</b> 13'22	
direct	2687 Jun 01 05:25 2687 Jun 21 16:07	29° Mp 38′24 0° <u>₽</u>		evening set	2693 Nov 27 12:01	20° <b>∡</b> ¹25'39	
evening set	2687 Sep 15 09:19	o <b>—</b> 7° <b>Ω</b> 33'15		conjunction	2693 Dec 14 05:42	22° <b>х</b> 24'03	1°21'37
<b>3</b>				minimum elong	2693 Dec 14 05:44	22° <b>х</b> 24′04	1°21'37
conjunction	2687 Oct 02 21:10	9° <b>£</b> 43′22	2°05'30	max. Earth dist.	2693 Dec 14 04:43	22° <b>∡</b> ¹23'45	10.98168 AU
minimum elong	2687 Oct 02 21:08	9° <b>≏</b> 43'21	2°05'29	morning rise	2693 Dec 30 21:01	24° <b>∡</b> °21′50	
max. Earth dist.	2687 Oct 02 22:29		10.44510 AU		2694 Feb 27 16:15	0°ಕ	
morning rise	2687 Oct 20 04:36	11° <b>≙</b> 52'07		retrograde	2694 Apr 09 21:22	1° <b>る</b> 22'55	
retrograde	2688 Jan 28 17:14	19° <b>£</b> 23'18	20.4012.1		2694 May 22 06:31	30°₹ <b>৴</b>	100 (100
opposition	2688 Apr 05 04:10	16° <b>Ω</b> 01'26		opposition	2694 Jun 18 18:05	28°×705'35	
min. Earth dist. direct	2688 Apr 05 02:20 2688 Jun 13 23:12	16° <b>22</b> 01′47 12° <b>2</b> 34′21	8.49989 AU	min. Earth dist. direct	2694 Jun 18 19:11 2694 Aug 28 20:12	28° <b>₹</b> 05'23 24° <b>₹</b> 45'39	9.00392 AU
evening set	2688 Sep 27 19:54	20° <b>£</b> 21'58		uncet	2694 Nov 22 06:07	0°る	
evening sec	2000 вер 27 19.5 (	20 -2130		evening set	2694 Dec 09 01:35	1° <b>る</b> 53'07	
conjunction	2688 Oct 15 03:24	22° <b>≏</b> 29'24	2°12'40	-			
minimum elong	2688 Oct 15 03:23	22° <b>≏</b> 29'24	2°12'39	conjunction	2694 Dec 25 18:07	3° <b>る</b> 50'49	0°58'52
max. Earth dist.	2688 Oct 15 04:43		10.55262 AU	minimum elong	2694 Dec 25 18:09	3° <b>る</b> 50'49	0°58'51
morning rise	2688 Nov 01 06:16	24° <b>£</b> 35′27		max. Earth dist.	2694 Dec 25 16:10		11.02008 AU
. 1	2688 Dec 23 06:07	0°M		morning rise	2695 Jan 11 09:09	5°る48'06	
retrograde	2689 Feb 09 09:49 2689 Mar 31 04:32	1°M59'10 30°RΩ		retrograde opposition	2695 Apr 21 17:06 2695 Jun 30 22:34	12°る48'33 9°る31'09	0°56'59
opposition	2689 Apr 18 04:36	30 K== 28° <b>£</b> 38'31	2°44'51	min. Earth dist.	2695 Jul 01 00:53	9° <b>る</b> 30'43	9.03151 AU
min. Earth dist.	2689 Apr 18 03:03	28° <b>⊆</b> 38'50	8.60744 AU	direct	2695 Sep 09 20:34	6° <b>ට</b> 11'56	7.03131710
direct	2689 Jun 27 08:48	25° <b>£</b> 12'39	0.007.1110	evening set	2695 Dec 20 12:27	13° <b>る</b> 15'59	
	2689 Sep 15 14:14	0° <b>M</b> ₊		S			
evening set	2689 Oct 10 20:37	2°M52'37		conjunction	2696 Jan 06 04:15	15° <b>る</b> 13'18	0°33'54
				minimum elong	2696 Jan 06 04:16	15° <b>පි</b> 13'18	0°33'53
conjunction	2689 Oct 28 00:08		2°13'21	max. Earth dist.	2696 Jan 06 00:44		11.03682 AU
minimum elong	2689 Oct 28 00:08	4°M57'36		morning rise	2696 Jan 22 19:31	17°る10'27	
max. Earth dist.	2689 Oct 28 01:22		10.65878 AU	retrograde	2696 May 02 13:45	24°る11'54	0°25'20
morning rise retrograde	2689 Nov 13 23:06 2690 Feb 21 19:35	7°M01'15 14°M18'13		opposition min. Earth dist.	2696 Jul 12 02:32 2696 Jul 12 05:43	20°る54'07 20°る53'32	0°25'29 9.03670 AU
opposition	2690 May 01 00:30	14°1161813	2°41'34	direct	2696 Sep 20 21:31	20° <b>る</b> 33°32	7.03070 AU
min. Earth dist.	2690 Apr 30 23:57	10°M58'46	8.71107 AU	evening set	2696 Dec 30 22:08	24°る37'30	
direct	2690 Jul 10 12:27	7° <b>M</b> .34'06		-0			
	2690 Oct 22 14:22	15° <b>™</b>		conjunction	2697 Jan 16 13:39	26° <b>る</b> 34'49	0°07'39
evening set	2690 Oct 23 11:49	15°M06'21		minimum elong	2697 Jan 16 13:40	26° <b>る</b> 34'49	0°07'39
				behind sun begin	2697 Jan 16 07:20	26° <b>る</b> 32'58	

behind sun end	2697 Jan 16 19:59	26° <b>ප</b> 36'40		2703 Jan 21 09:46	0° <b>Υ</b>	
max. Earth dist.	2697 Jan 16 19:53	26° <b>ප</b> 33'44 11.03	6069 AU evening set	2703 Mar 12 01:22	5° <b>Υ</b> 11'37	
morning rise	2697 Feb 02 05:23	28° <b>る</b> 32'12	oos no evening set	2703 Will 12 01.22	3 11137	
morning rise	2697 Feb 15 03:48	0°≈	conjunction	2703 Mar 28 23:42	7° <b>Υ</b> 16'00	-2°03'35
desc. node	2697 May 03 20:04	5°≈30'33	minimum elong	2703 Mar 28 23:40	7° <b>Υ</b> 16'00	
retrograde	2697 May 14 14:30	5°≈36'14	max. Earth dist.	2703 Mar 28 21:55		10.60137 AU
opposition	2697 Jul 24 06:57	2°≈17'50 -0°07		2703 Apr 15 02:07	9° <b>Υ</b> 21'42	10.0015 / 110
min. Earth dist.	2697 Jul 24 09:48		913 AU retrograde	2703 Jul 29 17:50	17° <b>Υ</b> ′06'09	
	2697 Aug 27 17:27	30°Rる	opposition	2703 Oct 07 18:47	13° <b>Y</b> '40'18	-2°38'29
direct	2697 Oct 02 19:57	28° <b>ろ</b> 59'29	min. Earth dist.	2703 Oct 07 19:35		8.54861 AU
	2697 Nov 07 01:37	0°≈	direct	2703 Dec 14 16:06	10° <b>Υ</b> 18'56	0.0 1001110
evening set	2698 Jan 11 08:32	6°≈01'02	evening set	2704 Mar 23 20:57	17° <b>Y</b> 45'45	
Z .			Č			
conjunction	2698 Jan 28 00:13	7°≈58'42 -0°19	'05 conjunction	2704 Apr 09 22:21	19° <b>Y</b> ′52'25	-2°11'39
minimum elong	2698 Jan 28 00:12	7°≈58'42 0°19	'04 minimum elong	2704 Apr 09 22:20	19° <b>Ƴ</b> 52'25	2°11'39
max. Earth dist.	2698 Jan 27 20:49	7°≈57'42 11.00	217 AU max. Earth dist.	2704 Apr 09 20:35	19° <b>Ƴ</b> 51'52	10.49319 AU
morning rise	2698 Feb 13 16:42	9° <b>≈</b> 56'41	morning rise	2704 Apr 27 04:20	22° <b>Y</b> ′00'32	
	2698 Apr 05 03:41	15° <b>≈</b>	retrograde	2704 Aug 11 08:38	29° <b>Y</b> ′53'29	
retrograde	2698 May 26 17:27	17° <b>≈</b> 04'46	opposition	2704 Oct 20 00:24	26° <b>Y</b> ′26′23	-2°44'55
	2698 Jul 19 08:15	15° <b>R</b> ≈	min. Earth dist.	2704 Oct 20 01:04	26° <b>Y</b> 26′15	8.44054 AU
opposition	2698 Aug 05 12:44	13° <b>≈</b> 45′28 -0°39	direct	2704 Dec 26 11:22	23° <b>Y</b> 03'55	
min. Earth dist.	2698 Aug 05 15:23	13° <b>≈</b> 44'59 8.98€	002 AU	2705 Mar 31 19:58	0°8	
direct	2698 Oct 14 16:34	10° <b>≈</b> 27'11	evening set	2705 Apr 06 01:30	0° <b>8</b> 38'21	
	2698 Dec 31 11:03	15° <b>≈</b>				
evening set	2699 Jan 22 21:08	17° <b>≈</b> 29'42	conjunction	2705 Apr 23 06:47	2° <b>8</b> 47'35	-2°13'20
			minimum elong	2705 Apr 23 06:48	2° <b>8</b> 47'35	2°13'19
conjunction	2699 Feb 08 13:10	19° <b>≈</b> 28′04 -0°45	'10 max. Earth dist.	2705 Apr 23 05:34	2° <b>8</b> 47'12	10.38630 AU
minimum elong	2699 Feb 08 13:09	19° <b>≈</b> 28'03 0°45	'09 morning rise	2705 May 10 16:51	4° <b>8</b> 58'18	
max. Earth dist.	2699 Feb 08 09:22	19°≈26'56 10.95	5291 AU retrograde	2705 Aug 25 06:11	12° <b>8</b> 59'07	
morning rise	2699 Feb 25 06:54	21° <b>≈</b> 26′58	opposition	2705 Nov 02 11:11	9° <b>8</b> 30'58	-2°43'04
retrograde	2699 Jun 08 01:28	28° <b>≈</b> 40′24	min. Earth dist.	2705 Nov 02 11:33	9° <b>8</b> 30'54	8.33627 AU
opposition	2699 Aug 17 20:52	25°≈20'01 -1°10	'46 direct	2706 Jan 08 13:14	6° <b>8</b> 07'20	
min. Earth dist.	2699 Aug 17 23:54	25° <b>≈</b> 19′27 8.92	128 AU evening set	2706 Apr 19 15:35	13° <b>8</b> 49'40	
direct	2699 Oct 26 15:08	22°≈01'31		2706 Apr 28 23:32	15° <b>8</b>	
evening set	2700 Feb 03 13:24	29°≈06′25				
	2700 Feb 11 02:25	0° <b>∀</b>	conjunction	2706 May 07 01:27	16° <b>8</b> 01'35	-2°08'04
			minimum elong	2706 May 07 01:28	16° <b>8</b> 01'35	2°08'03
conjunction	2700 Feb 20 06:05	1° <b>∺</b> 05'47 -1°09	'41 max. Earth dist.	2706 May 07 01:21	16° <b>8</b> 01'33	10.28600 AU
minimum elong	2700 Feb 20 06:03	1° <b>∺</b> 05'46 1°09	'41 morning rise	2706 May 24 15:50	18° <b>8</b> 14'56	
max. Earth dist.	2700 Feb 20 01:39	1° <b>升</b> 04′27 10.88	3512 AU retrograde	2706 Sep 08 09:06	26° <b>8</b> 22'28	
morning rise	2700 Mar 09 01:26	3° <b>₩</b> 05'56	opposition	2706 Nov 16 02:42	22° <b>8</b> 53'31	-2°32'25
retrograde	2700 Jun 20 13:20	10° <b>)</b> 25′56	min. Earth dist.	2706 Nov 16 02:19	22° <b>8</b> 53'35	8.24125 AU
opposition	2700 Aug 30 08:07	7° <b>∺</b> 04'16 -1°39	'32 direct	2707 Jan 21 22:21	19° <b>8</b> 28'43	
min. Earth dist.	2700 Aug 30 11:27	7° <b>米</b> 03'39 8.84:	544 AU evening set	2707 May 03 14:58	27° <b>8</b> 18'48	
direct	2700 Nov 07 15:17	3° <b>∺</b> 45′20				
evening set	2701 Feb 15 10:39	10° <b>¥</b> 53'59	conjunction	2707 May 21 05:42	29° <b>8</b> 33'22	
			minimum elong	2707 May 21 05:45	29° <b>8</b> 33'23	
conjunction	2701 Mar 04 04:38	12° <b>米</b> 54'41 -1°31		2707 May 21 07:15		10.19782 AU
minimum elong	2701 Mar 04 04:36	12° <b>升</b> 54'40 1°31		2707 May 24 16:44	0°П	
max. Earth dist.	2701 Mar 04 00:59	12° <b>米</b> 53'34 10.80	· ·	2707 Jun 08 00:25	1° <b>∏</b> 49'15	
morning rise	2701 Mar 21 01:54	14° <b>¥</b> 56′22	retrograde	2707 Sep 22 16:43	10° <b>Ⅱ</b> 01'53	
retrograde	2701 Jul 03 06:58	22° <b>∺</b> 23'57	opposition	2707 Nov 29 22:40	6° <b>Ⅱ</b> 32'25	
opposition	2701 Sep 11 23:08	19° <b>米</b> 00′53 -2°04		2707 Nov 29 20:57		8.16093 AU
min. Earth dist.	2701 Sep 12 01:45	19° <b>₭</b> 00'24 8.75		2708 Feb 04 14:09	3° <b>Ⅱ</b> 06'30	
direct	2701 Nov 19 20:18	15° <b>)</b> 41'17	evening set	2708 May 16 22:53	11° <b>Ⅱ</b> 03'44	
evening set	2702 Feb 27 14:10	22° <b>¥</b> 54'57	. ,.	2700 1 02 10 22	120П20142	1026126
: "	270234 17 10 07	2401/57/20 10:0	conjunction	2708 Jun 03 18:23	13° <b>Ⅱ</b> 20'43	
conjunction	2702 Mar 16 10:06	24° <b>\</b> 57'20 -1°49	_	2708 Jun 03 18:27	13° <b>Ⅱ</b> 20'45	
minimum elong	2702 Mar 16 10:03	24° <b>)</b> 57'20 1°49		2708 Jun 03 21:12		10.12706 AU
max. Earth dist.	2702 Mar 16 07:43	24° <b>¥</b> 56'37 10.70	· ·	2708 Jun 21 17:07	15° <b>∏</b> 38'48	
morning rise	2702 Apr 02 09:39	27° <b>)</b> €00'53	retrograde	2708 Oct 06 03:40	23° <b>∏</b> 54'31	1045120
matma a J -	2702 Apr 28 18:12	0° <b>Υ</b>	opposition	2708 Dec 12 22:09	20°∏24'53	
retrograde	2702 Jul 16 09:22	4° <b>Υ</b> 36'45 1° <b>Υ</b> 12'15 -2°24	min. Earth dist. '40 direct	2708 Dec 12 19:28 2709 Feb 17 11:23	20°Щ25'26 16°Щ57'57	8.10031 AU
opposition min. Earth dist.				7709 Feb 17 11:73	ID II > / > /	
mm. Earm alst.	2702 Sep 24 18:33					
	2702 Sep 24 20:03	1° <b>Υ</b> 11'58 8.65		2709 May 31 14:33	25° <b>Ⅱ</b> 01'19	
direct						-1°11'36

minimum elong max. Earth dist. morning rise	2709 Jun 18 14:13 2709 Jun 18 17:39 2709 Jul 06 16:05 2709 Jul 09 07:22	27° II 20'18 27° II 21'25 29° II 40'00 0° 50	1°11'35 10.07823 AU	opposition min. Earth dist. direct evening set	2715 Mar 05 21:08 2715 Mar 05 17:45 2715 May 13 08:38 2715 Aug 27 15:44	14° m/12'39 14° m/13'20 10° m/44'03 18° m/47'43	1°55'17 8.26127 AU
retrograde	2709 Oct 20 16:34	7° <b>9</b> 56'28		evening sec	2/10/11/08/27 10:11	10 19 17 15	
opposition	2709 Dec 26 23:51	4°527'04	-1°11'22	conjunction	2715 Sep 14 10:20	21° <b>m</b> )01'45	1°43'33
min. Earth dist.	2709 Dec 26 20:48	4° <b>5</b> 27'42	8.06342 AU	minimum elong	2715 Sep 14 10:17	21° <b>m</b> 01'44	1°43'33
direct	2710 Mar 03 13:22	0° <b>©</b> 59'13		max. Earth dist.	2715 Sep 14 13:39	=	10.30726 AU
evening set	2710 Jun 15 11:55	9° <b>©</b> 07'24		morning rise	2715 Oct 02 00:44	23° <b>m</b> 14'30	
					2715 Dec 09 23:44	0∘ <b>ʊ</b>	
conjunction	2710 Jul 03 14:29	11°927'36		retrograde	2716 Jan 11 12:09	0° <b>Ω</b> 57'17	
minimum elong	2710 Jul 03 14:31 2710 Jul 03 18:14	11°527'37			2716 Feb 13 09:43 2716 Mar 18 10:02	30°₹ <b>™</b>	2010/22
max. Earth dist. morning rise	2710 Jul 03 18:14 2710 Jul 21 18:18	11 \$2830 13°\$48'12	10.05459 AU	opposition min. Earth dist.	2716 Mar 18 10:02 2716 Mar 18 07:48	27° m/34'04 27° m/34'31	2°19'22 8.35681 AU
retrograde	2710 Jul 21 18:18 2710 Nov 04 04:16	22°903'06		direct	2716 May 26 09:54	24° My 06'06	6.55061 AU
opposition	2711 Jan 10 02:44	18°934'17	-0°32'44	unect	2716 Aug 23 08:40	0° <b>⊽</b>	
min. Earth dist.	2711 Jan 09 23:40	18°934'55	8.05288 AU	evening set	2716 Sep 09 16:59	2° <b>ഫ</b> 03'56	
direct	2711 Mar 17 21:00	15° <b>©</b> 05'45		S	1		
evening set	2711 Jun 30 12:22	23°516'59		conjunction	2716 Sep 27 07:00	4° <b>≏</b> 15'16	2°00'06
				minimum elong	2716 Sep 27 06:58	4° <b>£</b> 15′15	2°00'05
conjunction	2711 Jul 18 16:21	25° <b>©</b> 37'33	-0°10'03	max. Earth dist.	2716 Sep 27 08:56	4° <b>≏</b> 15'52	10.40625 AU
minimum elong	2711 Jul 18 16:21	25° <b>©</b> 37'33	0°10'03	morning rise	2716 Oct 14 16:27	6° <b>£</b> 25′13	
behind sun begin	2711 Jul 18 10:30	25° <b>©</b> 35'40		retrograde	2717 Jan 23 12:59	14° <b>≏</b> 00'02	
behind sun end	2711 Jul 18 22:13	25° <b>©</b> 39'26		opposition	2717 Mar 31 18:13	10° <b>△</b> 38'06	
max. Earth dist.	2711 Jul 18 20:10		10.05784 AU	min. Earth dist.	2717 Mar 31 17:27	10° <b>Ω</b> 38'15	8.45867 AU
morning rise	2711 Aug 05 20:27	27°958'08		direct	2717 Jun 09 06:09	7° <b>Ω</b> 10'59	
aga mada	2711 Aug 22 06:43 2711 Nov 11 23:11	0° <b>Ω</b> 6° <b>Ω</b> 06'58		evening set	2717 Sep 23 08:37	15° <b>≏</b> 02'08	
asc. node retrograde	2711 Nov 11 23:11 2711 Nov 18 12:04	6° <b>Ω</b> 09'21		conjunction	2717 Oct 10 17:58	17° <b>£</b> 10'45	2°10'10
opposition	2711 Nov 18 12:04 2712 Jan 24 05:15	2° <b>Ω</b> 41'22	0°07'52	minimum elong	2717 Oct 10 17:56	17 <b>⊆</b> 1045 17° <b>⊆</b> 10'45	
min. Earth dist.	2712 Jan 24 02:11	2°Ω42'00	8.06952 AU	max. Earth dist.	2717 Oct 10 17:30 2717 Oct 10 18:11		10.50929 AU
mm. Zarm Gige.	2712 Mar 01 15:46	30°Rூ	0.00,02110	morning rise	2717 Oct 27 22:46	19° <b>£</b> 18′00	10.00,2,110
direct	2712 Mar 31 07:30	29° <b>©</b> 12'25		retrograde	2718 Feb 05 07:45	26° <b>Ω</b> 45'16	
	2712 Apr 29 20:36	$0^{\circ}\Omega$		opposition	2718 Apr 13 21:30	23° <b>ჲ</b> 24'30	2°43'40
evening set	2712 Jul 14 13:28	7° <b>Ω</b> 24'44		min. Earth dist.	2718 Apr 13 21:38	23° <b>≏</b> 24'29	8.56238 AU
				direct	2718 Jun 22 20:09	19° <b>≏</b> 58'24	
conjunction	2712 Aug 01 17:14	9° <b>Ω</b> 44'45	0°22'35	evening set	2718 Oct 06 14:17	27° <b>≏</b> 42'12	
minimum elong	2712 Aug 01 17:13	9° <b>Ω</b> 44'45	0°22'35			_	
max. Earth dist.	2712 Aug 01 21:06		10.08778 AU	conjunction	2718 Oct 23 19:24	29° <b>Ω</b> 48'18	
morning rise	2712 Aug 19 19:53	12° <b>Ω</b> 04'23		minimum elong	2718 Oct 23 19:24		2°13'40
retrograde	2712 Sep 13 00:13 2712 Dec 01 14:48	15° <b>Ω</b> 20° <b>Ω</b> 10'03		max. Earth dist.	2718 Oct 23 18:27 2718 Oct 25 09:27	29° <b>32</b> 48'01 0°M	10.61224 AU
opposition	2712 Dec 01 14.48 2713 Feb 06 05:50	16° <b>Ω</b> 43'08	0°47'42	morning rise	2718 Oct 23 09:27 2718 Nov 09 20:11	1°M53'04	
min. Earth dist.	2713 Feb 06 02:32	16° <b>Ω</b> 43'49	8.11219 AU	retrograde	2719 Feb 17 19:19	9°M13'22	
mm. Zarm Gige.	2713 Feb 28 04:18	15°R <b>Ω</b>	0.11219110	opposition	2719 Apr 26 19:52	5°M53'35	2°43'45
direct	2713 Apr 14 18:32	13° <b>Ω</b> 14'02		min. Earth dist.	2719 Apr 26 20:10	5°M53'32	8.66370 AU
	2713 May 29 17:59	15° <b>Ω</b>		direct	2719 Jul 06 04:40	2°M28'35	
evening set	2713 Jul 29 12:12	21° <b>Ω</b> 25′22		evening set	2719 Oct 19 10:10	10°M04'45	
conjunction	2713 Aug 16 14:09	23° <b>Ω</b> 44'00		conjunction	2719 Nov 05 11:45	12°M08'35	
minimum elong	2713 Aug 16 14:06	23° <b>Ω</b> 43'59	0°53'33	minimum elong	2719 Nov 05 11:46	12°M08'36	2°10'52 10.71073 AU
max. Earth dist. morning rise	2713 Aug 16 18:05 2713 Sep 03 13:44	26° <b>Ω</b> 01'51	10.14225 AU	max. Earth dist. morning rise	2719 Nov 05 10:34 2719 Nov 22 09:09	12°11608°14 14°11611'12	10./10/3 AU
morning rise	2713 Sep 03 13:44 2713 Oct 07 11:32	0°m		morning rise	2719 Nov 29 06:39	15°M	
retrograde	2713 Oct 07 11:32 2713 Dec 15 12:10	4° Mp 00'36		retrograde	2720 Mar 01 02:49	21°M25'21	
opposition	2714 Feb 20 03:29	0° mp 34'51	1°24'13	opposition	2720 May 08 13:41	18°M06'21	2°36'23
min. Earth dist.	2714 Feb 19 23:56	0° m 35'34	8.17772 AU	min. Earth dist.	2720 May 08 14:01	18° <b>M</b> .06'18	8.75817 AU
	2714 Feb 27 07:20	30°R€			2720 Jun 29 06:43	15°RM	
direct	2714 Apr 29 03:05	27° <b>Ω</b> 05'52		direct	2720 Jul 18 06:47	14° <b>M</b> 42'27	
	2714 Jun 27 04:01	0° <b>m</b>			2720 Aug 06 02:53	15° <b>™</b>	
evening set	2714 Aug 13 05:39	5° Mp 14'12		evening set	2720 Oct 30 21:12	22°M11'08	
agniumation	2714 Av. 21 04:22	70 m 20145	1921102	agniumation	2720 Nov. 16 10.50	240m 12101	2002115
conjunction minimum elong	2714 Aug 31 04:22 2714 Aug 31 04:19	7° Mp 30'45 7° Mp 30'44	1°21'03 1°21'02	conjunction minimum elong	2720 Nov 16 19:50 2720 Nov 16 19:52	24°M13'01 24°M13'02	2°02'15 2°02'15
max. Earth dist.	2714 Aug 31 04:19 2714 Aug 31 08:15		1 21 02 10.21724 AU	max. Earth dist.	2720 Nov 16 19:52 2720 Nov 16 18:51		10.80043 AU
morning rise	2714 Sep 17 23:40	9° Mp 46'13		morning rise	2720 Nov 10 18:31 2720 Dec 03 14:32	26°M13'48	10.000 15 710
retrograde	2714 Dec 29 04:06	17° mp 37'10			2721 Jan 07 06:11	0° <b>√</b> 7	

retrograde	2733 Aug 05 20:52	24° <b>Ƴ</b> 39'52		minimum elong	2739 Jun 27 09:38	5° <b>©</b> 32'01	0°55'19
opposition	2733 Oct 14 17:56	24 <b>γ</b> 39 32 21° <b>γ</b> 13'57	2042151	max. Earth dist.	2739 Jun 27 12:05	5° <b>©</b> 32'49	10.07930 AU
min. Earth dist.	2733 Oct 14 17:43	21° <b>Υ</b> 13'59	8.50771 AU	morning rise	2739 Jul 15 12:37	7° <b>9</b> 52'00	10.07930 AC
direct	2733 Dec 21 10:07	17° <b>Υ</b> 52'40	0.50771 AC	retrograde	2739 Oct 29 03:40	16°906'44	
evening set	2734 Mar 31 18:56	25° <b>Y</b> 22'59		opposition	2740 Jan 04 07:18	12° <b>©</b> 37'49	-0°40'57
evening set	2754 Widi 51 10.50	23 12237		min. Earth dist.	2740 Jan 04 04:53	12°938'19	8.06962 AU
conjunction	2734 Apr 17 22:28	27° <b>Ƴ</b> 30'50	-2°13'14	direct	2740 Mar 11 01:02	9° <b>5</b> 09'44	6.00702 AC
minimum elong	2734 Apr 17 22:28	27° <b>Υ</b> '30'50		evening set	2740 Jun 23 06:32	17° <b>©</b> 18'38	
max. Earth dist.	2734 Apr 17 23:08		10.45487 AU	evening sec	27 10 Juli 25 00.32	17 - 21030	
morning rise	2734 May 05 06:25	29° <b>Y</b> '40'06	10.43407 110	conjunction	2740 Jul 11 10:07	19° <b>©</b> 38'53	-0°24'16
morning 113C	2734 May 07 23:39	0°8		minimum elong	2740 Jul 11 10:07 2740 Jul 11 10:08	19° <b>©</b> 38'53	
retrograde	2734 Aug 19 16:27	7° <b>と</b> 36'40		max. Earth dist.	2740 Jul 11 13:32	19° <b>©</b> 39'59	
opposition	2734 Oct 28 01:58	4° <b>8</b> 09'39	-2°14'34	morning rise	2740 Jul 29 14:08	21° <b>©</b> 59'18	10.00020 AC
min. Earth dist.	2734 Oct 28 01:08	4° <b>8</b> 09'49	8.40527 AU	morning risc	2740 Jul 29 14:08 2740 Oct 28 06:16	0°Ω	
	2735 Jan 03 07:45	0° <b>8</b> 47'18	8.40327 AU	ratra ara da	2740 Oct 28 06.16 2740 Nov 11 12:18	0°Ω11'22	
direct		8° <b>8</b> 25'07		retrograde			
evening set	2735 Apr 14 04:27	8-02307			2740 Nov 25 18:51	30°R≌	0010102
	2725 ) 6 11 12 06	100 42 512 1	2010150	opposition	2741 Jan 17 09:05	26°542'57	
conjunction	2735 May 01 12:06	10° <b>8</b> 35'31		min. Earth dist.	2741 Jan 17 06:05	26°543'34	8.06952 AU
minimum elong	2735 May 01 12:07	10° <b>8</b> 35'32		direct	2741 Mar 25 08:57	23°514'07	
max. Earth dist.	2735 May 01 12:40		10.35401 AU	asc. node	2741 Apr 21 05:38	23° <b>©</b> 53'45	
morning rise	2735 May 19 00:14	12° <b>8</b> 47'22			2741 Jun 26 21:22	$0$ $^{\circ}\Omega$	
	2735 Jun 06 10:59	15° <b>8</b>		evening set	2741 Jul 08 06:44	1° <b>Ω</b> 25'05	
retrograde	2735 Sep 02 17:27	20° <b>8</b> 50'58					
opposition	2735 Nov 10 14:54	17° <b>8</b> 23'04	-2°37'42	conjunction	2741 Jul 26 10:53	3° <b>Ω</b> 45'16	0°08'18
min. Earth dist.	2735 Nov 10 14:01	17° <b>8</b> 23'14	8.30720 AU	minimum elong	2741 Jul 26 10:53	3° <b>Ω</b> 45'15	0°08'18
	2735 Dec 13 17:25	15° <b>₹</b> 8		behind sun begin	2741 Jul 26 04:26	3° <b>Ω</b> 43'11	
direct	2736 Jan 16 12:10	13° <b>8</b> 59'31		behind sun end	2741 Jul 26 17:20	3° <b>Ω</b> 47'19	
	2736 Feb 18 20:51	15° <b>8</b>		max. Earth dist.	2741 Jul 26 14:37	3° <b>Ω</b> 46'26	10.07939 AU
evening set	2736 Apr 26 23:08	21° <b>8</b> 45'04		morning rise	2741 Aug 13 14:09	6° <b>Ω</b> 05'11	
				retrograde	2741 Nov 25 17:16	14° <b>Ω</b> 12'39	
conjunction	2736 May 14 11:25	23° <b>8</b> 58'07	-2°01'41	opposition	2742 Jan 31 09:41	10° <b>Ω</b> 45′00	0°30'18
minimum elong	2736 May 14 11:27	23° <b>8</b> 58'08	2°01'40	min. Earth dist.	2742 Jan 31 06:50	10° <b>Ω</b> 45'36	8.09557 AU
max. Earth dist.	2736 May 14 11:37	23° <b>8</b> 58'11	10.26035 AU	direct	2742 Apr 08 17:52	7° <b>Ω</b> 15'41	
morning rise	2736 Jun 01 04:04	26° <b>8</b> 12'33			2742 Jul 19 16:28	15° <b>Ω</b>	
C	2736 Jul 03 15:30	$0^{\circ}\Pi$		evening set	2742 Jul 23 05:52	15° <b>Ω</b> 26'49	
retrograde	2736 Sep 15 22:08	4° <b>Ⅲ</b> 21'57		C			
opposition	2736 Nov 23 08:25	0° <b>Ⅱ</b> 53'22	-2°22'04	conjunction	2742 Aug 10 08:49	17° <b>Ω</b> 46′01	0°40'06
min. Earth dist.	2736 Nov 23 07:45	0° <b>Ⅱ</b> 53'30	8.21912 AU	minimum elong	2742 Aug 10 08:47	17° <b>Ω</b> 46'01	0°40'06
	2736 Dec 04 11:34	30°R <b>∀</b>		max. Earth dist.	2742 Aug 10 12:10	17°Ω47'06	10.11786 AU
direct	2737 Jan 29 00:49	27° <b>8</b> 28'36		morning rise	2742 Aug 28 09:46	20° <b>£</b> 04'36	
	2737 Mar 23 16:02	0°II		retrograde	2742 Dec 09 17:22	28° <b>Ω</b> 05'57	
evening set	2737 May 11 02:42	5° <b>Ⅱ</b> 21'35		opposition	2743 Feb 14 08:03	24° <b>Ω</b> 39'18	1°08'28
evening sec	2737 May 11 02.12	3 121 33		min. Earth dist.	2743 Feb 14 05:42	24° <b>Ω</b> 39'47	8.14596 AU
conjunction	2737 May 28 19:49	7° <b>Ⅱ</b> 37'11	-1°45'28	direct	2743 Apr 23 02:13	21° <b>Ω</b> 09'49	0.14370710
minimum elong	2737 May 28 19:53	7° <b>П</b> 37'12		evening set	2743 Aug 07 00:58	29° <b>Ω</b> 19'05	
max. Earth dist.	2737 May 28 17:33 2737 May 28 20:18		10.17984 AU	evening set	2743 Aug 12 10:42	0° m	
morning rise	2737 Jun 15 16:49	9° <b>∏</b> 54'00	10.17904 AU		2743 Aug 12 10.42	עוו ט	
•	2737 Sep 30 06:25	18° <b>∏</b> 07′22		conjunction	2743 Aug 25 01:14	1° <b>m</b> 36'35	1900!16
retrograde opposition	2737 Sep 30 00:23 2737 Dec 07 05:44	14° <b>II</b> 38'24	1050102	minimum elong	2743 Aug 25 01:14 2743 Aug 25 01:11	1° Mp 36'34	1°09'16
min. Earth dist.	2737 Dec 07 03:44 2737 Dec 07 04:56		8.14704 AU	max. Earth dist.	2743 Aug 25 03:53		10.17901 AU
direct	2738 Feb 11 19:51	14 <b>H</b> 38 33	6.14704 AU	morning rise	2743 Sep 11 22:36	3° My 53'09	10.17901 AU
		11 <b>Ⅱ</b> 12 24 19° <b>Ⅱ</b> 12'01		•	•		
evening set	2738 May 25 14:19	19 11201		retrograde	2743 Dec 23 11:01	11° Mp 47'17	1942107
	2720 1 12 11 57	210 <b>T</b> 20150	1000157	opposition	2744 Feb 28 02:56	8° Mp 21'46	1°42'07
conjunction	2738 Jun 12 11:57	21° <b>Ⅱ</b> 29'50		min. Earth dist.	2744 Feb 28 01:02	8° Th 22'09	8.21730 AU
minimum elong	2738 Jun 12 12:00	21° <b>Ⅱ</b> 29'51		direct	2744 May 06 09:31	4° M 52'26	
max. Earth dist.	2738 Jun 12 13:21		10.11804 AU	evening set	2744 Aug 20 14:02	12° <b>m</b> 58'07	
morning rise	2738 Jun 30 12:32	23° <b>Ⅱ</b> 48'34			25110 25 15 5	4 #6 *** * * * * * * * * * * * * * * * *	100 400 5
_	2738 Aug 26 20:49	0°©		conjunction	2744 Sep 07 10:31	15° Mp 13'19	1°34'06
retrograde	2738 Oct 14 16:46	2° <b>©</b> 03'45		minimum elong	2744 Sep 07 10:28	15° <b>m</b> 13'18	1°34'06
	2738 Dec 03 08:49	30°RⅡ		max. Earth dist.	2744 Sep 07 12:22		10.25886 AU
opposition	2738 Dec 21 05:43	28° <b>Ⅱ</b> 34'40		morning rise	2744 Sep 25 03:24	17° <b>m</b> 27′22	
min. Earth dist.	2738 Dec 21 04:11		8.09601 AU	retrograde	2745 Jan 04 20:14	25° <b>m</b> 13'40	
direct	2739 Feb 25 20:00	25° <b>Ⅱ</b> 07'33		opposition	2745 Mar 12 17:27	21° <b>m</b> 49'22	2°09'27
	2739 May 13 16:45	$0$ $\circ$		min. Earth dist.	2745 Mar 12 15:42	21° <b>m</b> 49'43	8.30507 AU
evening set	2739 Jun 09 08:19	3°512'36		direct	2745 May 20 13:37	18° <b>m</b> 20'32	
				evening set	2745 Sep 03 18:58	26° Mp 21'03	
conjunction	2739 Jun 27 09:35	5°532'00	-0°55'20				

conjunction minimum elong max. Earth dist.	2745 Sep 21 11:03 2745 Sep 21 11:00 2745 Sep 21 12:29	28° m 33'37	1°53'24 1°53'23 10.35265 AU	conjunction minimum elong max. Earth dist.	2751 Dec 05 15:23 2751 Dec 05 15:25 2751 Dec 05 14:23	12° <b>х</b> 37'35 12° <b>х</b> 37'35 12° <b>х</b> 37'17	
morning rise	2745 Oct 02 22:10 2745 Oct 08 22:58	0° <b>ჲ</b> 0° <b>ჲ</b> 44'54		morning rise retrograde	2751 Dec 22 07:38 2752 Mar 31 02:46	14° <b>∡</b> ³36′16 21° <b>∡</b> ³39′30	
retrograde	2746 Jan 17 23:47	8° <b>£</b> 23'13		opposition	2752 Jun 08 14:48	18° <b>√</b> 21'57	1°49'43
opposition	2746 Mar 26 03:21	5° <b>Ω</b> 00'11	2°29'16	min. Earth dist.	2752 Jun 08 15:39	18° <b>х</b> 21'37	8.95345 AU
min. Earth dist.	2746 Mar 26 01:20	5° <b>Ω</b> 00'35	8.40417 AU	direct	2752 Aug 18 16:47	15° <b>₹</b> 01'02	
direct	2746 Jun 03 11:51	1° <b>2</b> 32′09		evening set	2752 Nov 29 13:53	22° <b>∡</b> 13'17	
evening set	2746 Sep 17 14:19	9° <b>≏</b> 26'14		_			
				conjunction	2752 Dec 16 07:32	24° <b>⊀</b> 11'45	1°19'06
conjunction	2746 Oct 05 01:54	11° <b>≏</b> 36′07	2°06'25	minimum elong	2752 Dec 16 07:35		1°19'06
minimum elong	2746 Oct 05 01:52	11° <b>≏</b> 36′06	2°06'24	max. Earth dist.	2752 Dec 16 06:04	-	10.97826 AU
max. Earth dist.	2746 Oct 05 03:35	11° <b>Ω</b> 36'38	10.45518 AU	morning rise	2753 Jan 01 22:56	26° <b>₹</b> 09'36	
morning rise	2746 Oct 22 08:52	13° <b>Ω</b> 44'36			2753 Feb 07 02:05	0°る	
retrograde	2747 Jan 30 22:09	21° <b>Ω</b> 15'06	2941102	retrograde	2753 Apr 11 23:45	3°る10'57	
opposition min. Earth dist.	2747 Apr 08 08:21 2747 Apr 08 06:39	17° <b>£</b> 53'18 17° <b>£</b> 53'38	2°41'02 8.50926 AU	onnosition	2753 Jun 19 10:30 2753 Jun 20 21:12	30°R⊀ 29°⊀53'34	1°23'06
direct	2747 Apr 08 06.39 2747 Jun 17 02:50	17 <b>2</b> 33 38 14° <b>2</b> 26'19	8.30926 AU	opposition min. Earth dist.	2753 Jun 20 21:12 2753 Jun 20 23:08	29° <b>x</b> '33'34' 29° <b>x</b> '53'13	8.99935 AU
evening set	2747 Sep 30 23:58	22° <b>£</b> 13'12		direct	2753 Aug 30 21:28	26° 🗷 33'36	8.99933 AU
evening set	2747 бер 30 23.30	22 -1312		direct	2753 Nov 06 13:06	0°る	
conjunction	2747 Oct 18 07:12	24° <b>£</b> 20'27	2°12'52	evening set	2753 Dec 11 03:35	3° <b>る</b> 41'15	
minimum elong	2747 Oct 18 07:12	24° <b>≏</b> 20'27	2°12'52	S			
max. Earth dist.	2747 Oct 18 08:35	24° <b>£</b> 20′53	10.56113 AU	conjunction	2753 Dec 27 20:04	5° <b>る</b> 39'00	0°56'03
morning rise	2747 Nov 04 09:43	26° <b>≏</b> 26′19		minimum elong	2753 Dec 27 20:05	5° <b>る</b> 39'00	0°56'02
	2747 Dec 06 00:41	$0^{\circ}$ M		max. Earth dist.	2753 Dec 27 17:16	5° <b>る</b> 38'10	11.01454 AU
retrograde	2748 Feb 12 12:34	3°M49'27		morning rise	2754 Jan 13 11:17	7° <b>る</b> 36'24	
opposition	2748 Apr 20 08:17	0°M28'52	2°44'40	retrograde	2754 Apr 23 19:42	14° <b>る</b> 37'20	
min. Earth dist.	2748 Apr 20 07:35	0°M29'00	8.61505 AU	opposition	2754 Jul 03 02:06	11° <b>る</b> 19'50	0°53'24
	2748 Apr 26 13:29	30° <b>₹</b> Ω		min. Earth dist.	2754 Jul 03 04:39	11°る19'22	9.02510 AU
direct	2748 Jun 29 12:36	27° <b>Ω</b> 03'02		direct	2754 Sep 12 00:34	8° <b>る</b> 00'35	
evening set	2748 Aug 30 01:25 2748 Oct 12 23:56	0°ጤ 4°ጤ42'25		evening set	2754 Dec 22 14:36	15° <b>る</b> 04'54	
evening set	2748 Oct 12 23.30	4 11642 23		conjunction	2755 Jan 08 06:29	17° <b>る</b> 02'19	0°30'52
conjunction	2748 Oct 30 03:09	6°M47'13	2°12'53	minimum elong	2755 Jan 08 06:30	17° <b>る</b> 02'19	0°30'52
minimum elong	2748 Oct 30 03:10	6°M47'14	2°12'53	max. Earth dist.	2755 Jan 08 03:16	17°る01'22	11.02973 AU
max. Earth dist.	2748 Oct 30 03:28	6° <b>™</b> 47'19	10.66531 AU	morning rise	2755 Jan 24 21:53	18° <b>る</b> 59'36	
morning rise	2748 Nov 16 01:59	8°M50'45		retrograde	2755 May 05 18:14	26° <b>පි</b> 01'38	
	2749 Jan 18 20:47	15°M		opposition	2755 Jul 15 06:25	22° <b>る</b> 43'44	0°21'43
retrograde	2749 Feb 23 21:28	16°M07'17		min. Earth dist.	2755 Jul 15 08:54	22° <b>る</b> 43'16	9.02899 AU
	2749 Apr 01 17:18	15°RM		direct	2755 Sep 24 00:58	19° <b>る</b> 25'01	
opposition	2749 May 03 03:45	12° <b>M</b> 47'47	2°40'36	evening set	2756 Jan 03 00:46	26° <b>る</b> 27'24	
min. Earth dist.	2749 May 03 04:08	12°M47'43	8.71653 AU		2556 X 10 16 25	200 72 4150	000 4122
direct	2749 Jul 12 16:57	9°M23'13		conjunction	2756 Jan 19 16:27	28°る24'50 28°る24'50	0°04'33
ovening set	2749 Oct 08 22:43 2749 Oct 25 14:32	15°M 16°M55'02		minimum elong behind sun begin	2756 Jan 19 16:27 2756 Jan 19 09:37	28°る24'50 28°る22'51	0°04'33
evening set	2/49 Oct 23 14.32	10 11633 02		behind sun begin	2756 Jan 19 09.37 2756 Jan 19 23:17	28° <b>る</b> 22'51	
conjunction	2749 Nov 11 14:19	18°M57'42	2°06'50	max. Earth dist.	2756 Jan 19 13:31		11.02242 AU
minimum elong	2749 Nov 11 14:21	18°M57'43	2°06'51		2756 Feb 02 03:16	0° <b>≈</b>	
max. Earth dist.	2749 Nov 11 13:20	18° <b>M</b> 57'24	10.76298 AU	morning rise	2756 Feb 05 08:12	0° <b>≈</b> 22'22	
morning rise	2749 Nov 28 10:17	20°M59'14		desc. node	2756 Mar 22 23:26	5° <b>≈</b> 06'39	
retrograde	2750 Mar 08 02:13	28°M10'10		retrograde	2756 May 16 18:39	7° <b>≈</b> 27'03	
opposition	2750 May 15 18:57	24°M51'32	2°29'29	opposition	2756 Jul 26 11:15	4° <b>≈</b> 08'31	-0°10'53
min. Earth dist.	2750 May 15 19:32	24°M51'26	8.80922 AU	min. Earth dist.	2756 Jul 26 13:39	4° <b>≈</b> 08'04	9.01031 AU
direct	2750 Jul 25 14:26	21°M28'16		direct	2756 Oct 04 22:45	0° <b>≈</b> 50'08	
evening set	2750 Nov 06 20:51	28°M52'50		evening set	2757 Jan 13 11:47	7° <b>≈</b> 52'08	
	2750 Nov 16 07:03	0° <b>∡</b>		. ,.	2757 1 20 02 20	0040156	0022111
conjugation	2750 Nov. 22 10:02	00.752145	1055'01	conjunction	2757 Jan 30 03:29	9°≈49'56	
conjunction minimum elong	2750 Nov 23 18:02 2750 Nov 23 18:04	0° ₹ 53'45 0° ₹ 53'45	1°55'21 1°55'22	minimum elong max. Earth dist.	2757 Jan 30 03:28 2757 Jan 29 23:55	9°≈49'56 9°≈48'53	10.99280 AU
max. Earth dist.	2750 Nov 23 16:50		1 33 22 10.84998 AU	morning rise	2757 Feb 15 20:05	9 ≈48 33 11°≈48'04	10.77200 AU
morning rise	2750 Dec 10 11:50	2°×753'40	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		2757 Mar 17 05:47	15° <b>≈</b>	
retrograde	2751 Mar 20 02:40	10° <b>₹</b> 00'07		retrograde	2757 May 28 23:34	18°≈56'55	
opposition	2751 May 28 06:18	6° <b>∡</b> °42'08	2°12'11	opposition	2757 Aug 07 17:46	15° <b>≈</b> 37'31	-0°43'15
min. Earth dist.	2751 May 28 06:47	6° <b>҂</b> ′42′03	8.88927 AU	min. Earth dist.	2757 Aug 07 20:44	15° <b>≈</b> 36'58	8.97014 AU
direct	2751 Aug 07 06:23	3° <b>∡</b> ¹20′06			2757 Aug 16 05:15	15°R <b>≈</b>	
evening set	2751 Nov 18 20:08	10° <b>∡</b> ³38′04		direct	2757 Oct 16 20:33	12° <b>≈</b> 19'12	

	2757 Dec 14 02:45	15° <b>≈</b>		min. Earth dist.	2763 Oct 22 10:03	28° <b>℃</b> 29'37	8.43196 AU
evening set	2758 Jan 25 01:03	19°≈22'15		direct	2763 Dec 28 19:24	25° <b>Υ</b> 07'16	0.43170 AC
e venning see	2700 3411 25 01.05	19 74 22 13		ancer	2764 Mar 15 11:54	0°8	
conjunction	2758 Feb 10 17:03	21° <b>≈</b> 20'46	-0°48'07	evening set	2764 Apr 07 10:32	2° <b>8</b> 42'21	
minimum elong	2758 Feb 10 17:02	21° <b>≈</b> 20'46	0°48'06		_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- 0	
max. Earth dist.	2758 Feb 10 12:42		10.94257 AU	conjunction	2764 Apr 24 16:15	4° <b>8</b> 51'48	-2°12'54
morning rise	2758 Feb 27 11:01	23°≈19'52		minimum elong	2764 Apr 24 16:16	4° <b>8</b> 51'48	2°12'53
C	2758 May 14 18:32	0° <b>)</b> €		max. Earth dist.	2764 Apr 24 15:55	4° <b>8</b> 51'41	10.37866 AU
retrograde	2758 Jun 10 06:36	0° <b>)</b> 34'11		morning rise	2764 May 12 02:37	7° <b>8</b> 02'43	
Ü	2758 Jul 07 03:01	30°R≈		C	2764 Aug 17 20:22	15° <b>8</b>	
opposition	2758 Aug 20 02:36	27° <b>≈</b> 13'42	-1°14'15	retrograde	2764 Aug 26 15:48	15° <b>8</b> 04'03	
min. Earth dist.	2758 Aug 20 06:00	27°≈13'04	8.91056 AU	Ü	2764 Sep 04 11:30	15°R <b>∀</b>	
direct	2758 Oct 28 19:06	23°≈55'09		opposition	2764 Nov 03 20:23	11° <b>8</b> 35'50	-2°42'02
	2759 Jan 28 00:20	0° <b>)</b> €		min. Earth dist.	2764 Nov 03 20:14		8.32971 AU
evening set	2759 Feb 05 18:07	1° <b>)</b> 00'44		direct	2765 Jan 09 22:31	8° <b>8</b> 12'10	
Č					2765 Apr 13 14:37	15° <b>8</b>	
conjunction	2759 Feb 22 10:58	3° <b>¥</b> 00'16	-1°12'22	evening set	2765 Apr 21 01:16	15° <b>8</b> 55'00	
minimum elong	2759 Feb 22 10:55	3° <b>)</b> €00'15	1°12'22	, and the second	1	_	
max. Earth dist.	2759 Feb 22 06:52		10.87405 AU	conjunction	2765 May 08 11:36	18° <b>8</b> 07'06	-2°06'49
morning rise	2759 Mar 11 06:27	5° <b>)</b> €00'36		minimum elong	2765 May 08 11:38	18° <b>8</b> 07'07	2°06'48
retrograde	2759 Jun 22 19:22	12° <b>)</b> €21'34		max. Earth dist.	2765 May 08 12:43	_	10.28059 AU
opposition	2759 Sep 01 14:21	8° <b>)</b> 59'48	-1°42'38	morning rise	2765 May 26 02:15	20° <b>8</b> 20'37	
min. Earth dist.	2759 Sep 01 17:19		8.83415 AU	retrograde	2765 Sep 09 18:46	28° <b>8</b> 28'26	
direct	2759 Nov 09 21:34	5° <b>₩</b> 40'49	0.05 110 110	opposition	2765 Nov 17 12:06	24° <b>8</b> 59'26	-2°30'22
evening set	2760 Feb 17 16:15	12° <b>)</b> 50'13		min. Earth dist.	2765 Nov 17 10:49	24° <b>8</b> 59'41	
e venning see	2700100 17 10.13	12 7(3013		direct	2766 Jan 23 07:57	21° <b>8</b> 34'35	0.23700710
conjunction	2760 Mar 05 10:28	14° <b>¥</b> 51'08	-1°33'5/	evening set	2766 May 05 01:12	29° <b>8</b> 24'59	
minimum elong	2760 Mar 05 10:26	14° <b>X</b> 51'08		evening set	2766 May 09 16:10	0° <b>I</b>	
max. Earth dist.	2760 Mar 05 10:20 2760 Mar 05 07:41		1 33 33 10.79010 AU		2700 May 09 10.10	υд	
		14 <b>X</b> 50 17 16° <b>X</b> 53'02	10.79010 AU		27(C)M 22 1(-22	10Π20142	1052141
morning rise	2760 Mar 22 07:48	24° <b>H</b> 21'36		conjunction	2766 May 22 16:22	1° <b>Ⅱ</b> 39'43 1° <b>Ⅱ</b> 39'44	
retrograde	2760 Jul 04 16:07		2007100	minimum elong	2766 May 22 16:25		
opposition	2760 Sep 13 06:05	20° <b>¥</b> 58′26		max. Earth dist.	2766 May 22 18:33		10.19493 AU
min. Earth dist.	2760 Sep 13 07:53		8.74409 AU	morning rise	2766 Jun 09 11:21	3° <b>I</b> 55'43	
direct	2760 Nov 21 01:55	17° <b>)</b> € 38'50		retrograde	2766 Sep 24 03:12	12° <b>Ⅱ</b> 08'20	
evening set	2761 Feb 28 20:41	24° <b>)</b> 53′15		opposition	2766 Dec 01 08:05	8° <b>Ⅱ</b> 38'50	
				min. Earth dist.	2766 Dec 01 05:51	8° <b>Ⅱ</b> 39'18	8.15930 AU
conjunction	2761 Mar 17 16:45	26° <b>¥</b> 55'51		direct	2767 Feb 05 22:50	5° <b>Ⅱ</b> 12'51	
minimum elong	2761 Mar 17 16:43	26° <b>¥</b> 55'50		evening set	2767 May 19 09:29	13° <b>Ⅱ</b> 10′13	
max. Earth dist.	2761 Mar 17 14:38		10.69428 AU			_	
morning rise	2761 Apr 03 16:29	28° <b>¥</b> 59'37		conjunction	2767 Jun 06 05:13	15° <b>Ⅱ</b> 27'18	
	2761 Apr 12 05:06	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	2767 Jun 06 05:17	15° <b>Ⅱ</b> 27'19	
retrograde	2761 Jul 17 18:08	6° <b>Ƴ</b> 36′26		max. Earth dist.	2767 Jun 06 07:55		10.12675 AU
opposition	2761 Sep 26 02:15	3° <b>Y</b> 11′52		morning rise	2767 Jun 24 04:12	17° <b>Ⅱ</b> 45'27	
min. Earth dist.	2761 Sep 26 03:23		8.64411 AU	retrograde	2767 Oct 08 14:32	26° <b>Ⅱ</b> 00'50	
	2761 Nov 20 15:09	30° <b>₹</b> ₩		opposition	2767 Dec 15 07:24	22° <b>Ⅲ</b> 31'13	-1°41'45
direct	2761 Dec 03 09:36	29° <b>¥</b> 51′25		min. Earth dist.	2767 Dec 15 04:50		8.10125 AU
	2761 Dec 16 03:09	$0$ ° $\mathbf{V}$		direct	2768 Feb 19 19:55	19° <b>Ⅲ</b> 04'11	
evening set	2762 Mar 13 08:51	7° <b>Ƴ</b> 11'59		evening set	2768 Jun 02 01:05	27° <b>Ⅱ</b> 07'32	
conjunction	2762 Mar 30 07:20	9° <b>Υ</b> 16'35		conjunction	2768 Jun 20 00:49	29° <b>Ⅱ</b> 26'29	
minimum elong	2762 Mar 30 07:18	9° <b>Y</b> 16′35		minimum elong	2768 Jun 20 00:52	29° <b>Ⅱ</b> 26'30	
max. Earth dist.	2762 Mar 30 05:08		10.59066 AU	max. Earth dist.	2768 Jun 20 03:46	29° <b>Ⅱ</b> 27'26	10.08047 AU
morning rise	2762 Apr 16 10:07	11° <b>Ƴ</b> 22'31			2768 Jun 24 08:17	$0_{\circ}$ වෙ	
retrograde	2762 Jul 31 02:44	19° <b>Ƴ</b> 07'49		morning rise	2768 Jul 08 02:58	1°5946'12	
opposition	2762 Oct 09 03:08	15° <b>Ƴ</b> 41'55	-2°39'27	retrograde	2768 Oct 22 02:29	10° <b>©</b> 02'05	
min. Earth dist.	2762 Oct 09 04:14	15° <b>Ƴ</b> 41'42	8.53848 AU	opposition	2768 Dec 28 08:48	6° <b>5</b> 32'43	-1°07'07
direct	2762 Dec 15 23:39	12° <b>Ƴ</b> 20′28		min. Earth dist.	2768 Dec 28 06:12	6°533'15	8.06684 AU
evening set	2763 Mar 26 05:18	19° <b>Ƴ</b> 48'03		direct	2769 Mar 04 23:35	3°504'46	
				evening set	2769 Jun 16 22:08	11°512'45	
conjunction	2763 Apr 12 06:59	21° <b>Y</b> 54'57	-2°12'02				
minimum elong	2763 Apr 12 06:58	21° <b>Y</b> ′54'57	2°12'01	conjunction	2769 Jul 05 00:46	13°532'52	-0°38'35
max. Earth dist.	2763 Apr 12 05:14	21° <b>Y</b> 54'24	10.48378 AU	minimum elong	2769 Jul 05 00:48	13° <b>©</b> 32'53	0°38'35
morning rise	2763 Apr 29 13:21	24° <b>Ƴ</b> 03'18		max. Earth dist.	2769 Jul 05 03:58	13° <b>©</b> 33'54	10.05917 AU
-	2763 Jun 25 21:39	0°8		morning rise	2769 Jul 23 04:43	15° <b>©</b> 53'23	
retrograde	2763 Aug 13 18:18	1° <b>8</b> 56'56		retrograde	2769 Nov 05 11:43	24°907'31	
J	2763 Oct 02 14:46	30° <b>R</b> Υ		opposition	2770 Jan 11 11:08	20°538'44	-0°28'15
opposition	2763 Oct 22 09:14	28° <b>Ƴ</b> 29'47	-2°44'55	min. Earth dist.	2770 Jan 11 08:23		8.05844 AU

direct	2770 Mar 19 07:34	17° <b>©</b> 10'09		morning rise	2775 Oct 16 21:35	8° <b>≏</b> 19'34	
evening set	2770 Jul 01 22:13	25° <b>©</b> 21'01		retrograde	2776 Jan 25 16:57	15° <b>≏</b> 53'32	
-				opposition	2776 Apr 01 23:03	12° <b>≏</b> 31'41	2°36'39
conjunction	2770 Jul 20 02:12	27°5541'26	-0°06'28	min. Earth dist.	2776 Apr 01 22:35	12° <b>≏</b> 31'46	8.46964 AU
minimum elong	2770 Jul 20 02:12	27°5941'26	0°06'28	direct	2776 Jun 10 11:53	9° <b>ჲ</b> 04'38	
behind sun begin	2770 Jul 19 19:18	27° <b>©</b> 39'13		evening set	2776 Sep 24 13:30	16° <b>≏</b> 54'57	
behind sun end	2770 Jul 20 09:06	27° <b>5</b> 43'39					
max. Earth dist.	2770 Jul 20 05:46		10.06429 AU	conjunction	2776 Oct 11 22:30	19° <b>ഫ</b> 03'19	2°10'41
morning rise	2770 Aug 07 06:12	0° <b>Ω</b> 01'50		minimum elong	2776 Oct 11 22:28	19° <b>≏</b> 03'19	2°10'40
	2770 Aug 07 00:25	0°N		max. Earth dist.	2776 Oct 11 22:00		10.51988 AU
asc. node	2770 Oct 02 17:24	6° <b>Ω</b> 09'31		morning rise	2776 Oct 29 03:04	21° <b>⊆</b> 10'21	
retrograde	2770 Nov 19 18:22	8° <b>Ω</b> 12'11 4° <b>Ω</b> 44'16	0°12'18	retrograde	2777 Feb 06 10:06	28° <b>£</b> 36'51	2042150
opposition min. Earth dist.	2771 Jan 25 12:57 2771 Jan 25 09:44	4° <b>Ω</b> 44'56	8.07674 AU	opposition min. Earth dist.	2777 Apr 15 01:37 2777 Apr 15 01:36	25° <b>£</b> 16'10 25° <b>£</b> 16'10	2°43'50 8.57235 AU
direct	2771 Apr 02 16:53	1°Ω15'18	8.07074 AU	direct	2777 Apr 13 01.36 2777 Jun 24 02:01	23 <b>≗</b> 10 10 21° <b>≗</b> 50'09	8.37233 AU
evening set	2771 Apr 02 10:33 2771 Jul 16 22:39	9° <b>Ω</b> 27'06		evening set	2777 Oct 07 18:15	29° <b>£</b> 33'13	
e venning see	2771341 10 22.37	y <b>002</b> 7 00		evening sec	2777 Oct 11 11:02	0°M	
conjunction	2771 Aug 04 02:19	11° <b>Ω</b> 46'57	0°26'02				
minimum elong	2771 Aug 04 02:18	11° <b>Ω</b> 46'56	0°26'02	conjunction	2777 Oct 24 23:11	1° <b>M</b> 39'07	2°13'29
max. Earth dist.	2771 Aug 04 06:29	11° <b>Ω</b> 48'17	10.09565 AU	minimum elong	2777 Oct 24 23:10	1°M39'07	2°13'28
morning rise	2771 Aug 22 04:39	14° <b>Ω</b> 06′20		max. Earth dist.	2777 Oct 24 22:14	1°M38'50	10.62132 AU
	2771 Aug 29 08:04	15° <b>Ω</b>		morning rise	2777 Nov 10 23:41	3°M43'42	
retrograde	2771 Dec 03 21:29	22° <b>Ω</b> 11′08		retrograde	2778 Feb 18 22:45	11°M03'28	
opposition	2772 Feb 08 12:55	18° <b>Ω</b> 44'16	0°51'48	opposition	2778 Apr 27 23:38	7°M43'46	2°43'05
min. Earth dist.	2772 Feb 08 09:07	18° <b>Ω</b> 45'03	8.12060 AU	min. Earth dist.	2778 Apr 27 23:46	7° <b>M</b> 43'44	8.67169 AU
direct	2772 Apr 16 02:04	15°Ω15'11		direct	2778 Jul 07 09:29	4°M18'52	
evening set	2772 Jul 30 20:36	23° <b>Ω</b> 25'55		evening set	2778 Oct 20 13:22	11°M54'26	
agniumation	2772 Aug 17 22:21	25° <b>Ω</b> 44'20	0°56'39	aaniumatian	2779 Nov. 06, 14,40	120 <b>m</b> 50100	2°10'00
conjunction minimum elong	2772 Aug 17 22:21 2772 Aug 17 22:19	25° <b>Ω</b> 44'19	0°56'39	conjunction minimum elong	2778 Nov 06 14:49 2778 Nov 06 14:50	13°M58'08 13°M58'09	2°10'01
max. Earth dist.	2772 Aug 17 22:19 2772 Aug 18 02:54	25° <b>Ω</b> 45'48	10.15110 AU	max. Earth dist.	2778 Nov 06 14:50 2778 Nov 06 13:54		10.71753 AU
morning rise	2772 Sep 04 21:31	28° <b>Ω</b> 01'56	10.13110 AC	max. Earth dist.	2778 Nov 15 02:19	15°M	10.71733 AU
morning rise	2772 Sep	0°m		morning rise	2778 Nov 23 11:57	16°M00'36	
retrograde	2772 Dec 16 19:31	5° m 59'49		retrograde	2779 Mar 03 06:53	23°M14'26	
opposition	2773 Feb 21 09:59	2° m 34'09	1°27'44	opposition	2779 May 10 17:17	19°M55'31	2°34'57
min. Earth dist.	2773 Feb 21 06:14	2° m/34'55	8.18694 AU	min. Earth dist.	2779 May 10 18:11	19°M55'21	8.76368 AU
	2773 Mar 29 01:32	$30^{\circ}$ R $\Omega$		direct	2779 Jul 20 09:23	16°M31'44	
direct	2773 Apr 30 09:59	29° <b>Ω</b> 05′13		evening set	2779 Nov 01 23:59	23°M59'59	
	2773 Jun 01 16:26	0° <b>т</b> р					
evening set	2773 Aug 14 13:25	7° <b>m</b> 12'57		conjunction	2779 Nov 18 22:28	26°M01'48	2°00'48
				minimum elong	2779 Nov 18 22:30	26°M01'49	2°00'48
conjunction	2773 Sep 01 11:49	9° <b>m</b> 29'15	1°23'37	max. Earth dist.	2779 Nov 18 20:48		10.80459 AU
minimum elong	2773 Sep 01 11:46	9° m 29'14	1°23'37	morning rise	2779 Dec 05 17:07	28°M02'32	
max. Earth dist.	2773 Sep 01 16:03		10.22679 AU		2779 Dec 22 19:33	0°×7	
morning rise	2773 Sep 19 06:38 2773 Dec 30 09:39	11° Mp 44'27		retrograde	2780 Mar 14 09:07	5° ₹ 11'24 1° ₹ 53'05	2020112
retrograde opposition	2774 Mar 07 03:05	19° Mp 34'32 16° Mp 10'09	1°58'04	opposition min. Earth dist.	2780 May 22 06:53 2780 May 22 08:59	1°×-33'03 1°×-752'42	8.84466 AU
min. Earth dist.	2774 Mar 07 00:05	16° Mp 10'45	8.27120 AU	iiiii. Lattii dist.	2780 Jun 17 19:45	30°RM	0.04400 AC
direct	2774 May 14 15:44	12° Mp 41'36	0.27120110	direct	2780 Aug 01 04:01	28°M30'20	
evening set	2774 Aug 28 22:44	20° m/44'39			2780 Sep 13 15:03	0° <b>⊼</b> ¹	
<i>Ş</i>				evening set	2780 Nov 13 02:59	5° <b>∡</b> 751'47	
conjunction	2774 Sep 15 16:53	22° <b>m</b> 58'24	1°45'29	Č			
minimum elong	2774 Sep 15 16:49	22° <b>m</b> 58'23	1°45'29	conjunction	2780 Nov 29 23:02	7° <b>х</b> 52′03	1°46'32
max. Earth dist.	2774 Sep 15 19:58	22° <b>m</b> 59'22	10.31756 AU	minimum elong	2780 Nov 29 23:04	7° <b>∡</b> ¹52'04	1°46'33
morning rise	2774 Oct 03 06:51	25° <b>m</b> 10'52		max. Earth dist.	2780 Nov 29 20:07	7° <b>∡</b> 751'11	10.87907 AU
	2774 Nov 15 17:21	0∘ <b>ত</b>		morning rise	2780 Dec 16 16:03	9° <b>х</b> 51′26	
retrograde	2775 Jan 12 16:42	2° <b>≏</b> 52'49		retrograde	2781 Mar 26 08:53	16° <b>≯</b> 56'34	
	2775 Mar 14 07:07	30°R Mp		opposition	2781 Jun 03 17:17	13° <b>∡</b> 38'35	1°59'51
opposition	2775 Mar 20 15:34	29° Tp 29'42		min. Earth dist.	2781 Jun 03 19:49	13° <b>∡</b> 38′07	8.91149 AU
min. Earth dist.	2775 Mar 20 13:57	29° Mp 30'01	8.36757 AU	direct	2781 Aug 13 18:30	10° <b>₹</b> 16'48	
direct	2775 May 28 16:32	26° Mp 01'47		evening set	2781 Nov 24 23:23	17° <b>≯</b> 32'10	
evening set	2775 Aug 07 21:20 2775 Sep 11 22:54	0° <b>亞</b> 3° <b>亞</b> 58'50		conjunction	2781 Dec 11 17:43	19° <b>∡</b> 31'16	1°28'01
evening set	2113 Sep 11 22.34	J == 36 30		minimum elong	2781 Dec 11 17:45	19° <b>×</b> '31'16	
conjunction	2775 Sep 29 12:26	6° <b>₽</b> 09'53	2°01'20	max. Earth dist.	2781 Dec 11 17:43 2781 Dec 11 14:32		10.93811 AU
minimum elong	2775 Sep 29 12:23	6° <b>₽</b> 09'52	2°01'20	morning rise	2781 Dec 28 09:41	21° <b>×</b> <sup>2</sup> 29'40	
max. Earth dist.	2775 Sep 29 13:32		10.41719 AU	retrograde	2782 Apr 07 06:32	28° <b>₹</b> 32'25	
				2		-	

	2794 May 20 18:47	15° <b>8</b>		conjunction	2800 Jul 27 23:31	5° <b>Ω</b> 55'42	0°12'09
retrograde	2794 Sep 04 05:05	23° <b>8</b> 02'15		minimum elong	2800 Jul 27 23:31	5° <b>Ω</b> 55'42	0°12'09
opposition	2794 Nov 12 02:30	19° <b>8</b> 34'14	-2°36'01	behind sun begin	2800 Jul 27 18:40	5° <b>Ω</b> 54'09	
min. Earth dist.	2794 Nov 12 01:38	19° <b>8</b> 34'25	8.29934 AU	behind sun end	2800 Jul 28 04:21	5° <b>Ω</b> 57'15	
direct	2795 Jan 18 00:05	16° <b>8</b> 10'34		max. Earth dist.	2800 Jul 28 02:43	5° <b>Ω</b> 56'43	10.08805 AU
evening set	2795 Apr 29 11:31	23° <b>8</b> 56'40		morning rise	2800 Aug 15 02:38	8° <b>Ω</b> 15′25	
_				_	2800 Oct 19 05:48	15° <b>Ω</b>	
conjunction	2795 May 17 00:14	26° <b>8</b> 09'55	-1°59'53	retrograde	2800 Nov 27 04:34	16° <b>Ω</b> 22'01	
minimum elong	2795 May 17 00:16	26° <b>8</b> 09'56	1°59'52		2801 Jan 05 11:39	15°R <b>Ω</b>	
max. Earth dist.	2795 May 17 00:51	26° <b>8</b> 10'07	10.25442 AU	opposition	2801 Feb 01 20:20	12° <b>Ω</b> 54'34	0°34'58
morning rise	2795 Jun 03 17:19	28° <b>8</b> 24'32		min. Earth dist.	2801 Feb 01 18:06	12° <b>Ω</b> 55′02	8.10524 AU
	2795 Jun 16 17:21	$\Pi^{\circ}0$		direct	2801 Apr 10 05:02	9° <b>Ω</b> 25'20	
retrograde	2795 Sep 18 10:06	6° <b>Ⅱ</b> 34'05			2801 Jul 03 07:46	15° <b>Ω</b>	
opposition	2795 Nov 25 20:15	3° <b>Ⅱ</b> 05′28	-2°19'19	evening set	2801 Jul 24 18:08	17° <b>Ω</b> 35'59	
min. Earth dist.	2795 Nov 25 19:25		8.21499 AU	C			
	2796 Jan 12 19:15	30°R <b>∀</b>		conjunction	2801 Aug 11 20:45	19° <b>Ω</b> 54'57	0°43'41
direct	2796 Jan 31 12:48	29° <b>8</b> 40'36		minimum elong	2801 Aug 11 20:43	19° <b>Ω</b> 54'56	
	2796 Feb 19 03:46	0° <b>I</b> I		max. Earth dist.	2801 Aug 11 23:13	19° <b>Ω</b> 55'44	10.12837 AU
evening set	2796 May 12 15:29	7° <b>Ⅱ</b> 33'54		morning rise	2801 Aug 29 21:28	22° <b>Ω</b> 13'17	
Č	J			Ü	2801 Nov 25 11:27	0° <b>m</b> )	
conjunction	2796 May 30 09:05	9° <b>Ⅱ</b> 49'39	-1°42'52	retrograde	2801 Dec 11 03:06	0° m 13'40	
minimum elong	2796 May 30 09:08	9° <b>Ⅱ</b> 49'40	1°42'51		2801 Dec 26 18:45	30°R <b>Ω</b>	
max. Earth dist.	2796 May 30 10:30		10.17746 AU	opposition	2802 Feb 15 18:05	26°Ω47'14	1°12'39
morning rise	2796 Jun 17 06:22	12° <b>Ⅱ</b> 06'35		min. Earth dist.	2802 Feb 15 16:07		8.15720 AU
retrograde	2796 Oct 01 18:53	20° <b>Ⅱ</b> 19'50		direct	2802 Apr 24 14:14	23° <b>Ω</b> 17'51	
opposition	2796 Dec 08 17:35	16° <b>Ⅱ</b> 50'52	-1°54'22		2802 Jul 27 18:53	0° m)	
min. Earth dist.	2796 Dec 08 16:10		8.14627 AU	evening set	2802 Aug 08 12:28	1° m) 26'33	
direct	2797 Feb 13 07:50	13° <b>Ⅱ</b> 24'50	0.11.027.110	evening sec	20021148 00 12.20	1 192000	
evening set	2797 May 27 03:28	21° <b>II</b> 24'35		conjunction	2802 Aug 26 12:19	3° m 43'44	1°12'22
				minimum elong	2802 Aug 26 12:16	3° m 43'43	
conjunction	2797 Jun 14 01:32	23° <b>Ⅱ</b> 42'29	-1°19'42	max. Earth dist.	2802 Aug 26 14:25	-	10.19074 AU
minimum elong	2797 Jun 14 01:35	23° <b>I</b> I42'30		morning rise	2802 Sep 13 09:18	6° Mp 00'01	10.1707.110
max. Earth dist.	2797 Jun 14 04:00		10.11887 AU	retrograde	2802 Dec 24 18:29	13° m 53'12	
morning rise	2797 Jul 02 02:17	26° <b>I</b> 01'16	10.11007110	opposition	2803 Mar 01 12:18	10° m) 27'53	1°45'35
morning rise	2797 Aug 04 20:48	0°95		min. Earth dist.	2803 Mar 01 10:13	10° mg 27' 33	8.22946 AU
retrograde	2797 Oct 16 05:20	4°916'04		direct	2803 May 08 21:24	6° m 58'42	0.22)40 110
opposition	2797 Dec 22 17:23	0°9547'03	-1°22'22	evening set	2803 Aug 23 00:29	15° <b>m</b> 03'39	
min. Earth dist.	2797 Dec 22 15:06		8.09830 AU	evening sec	2003 1146 23 00.23	13 19 03 37	
mm. Earth dist.	2798 Jan 01 08:47	30°RⅡ	0.07030710	conjunction	2803 Sep 09 20:35	17° <b>m</b> ) 18'32	1°36'34
direct	2798 Feb 27 08:22	27° <b>Ⅱ</b> 19'55		minimum elong	2803 Sep 09 20:32	17° mg 18'31	
uncet	2798 Apr 23 13:13	0°9		max. Earth dist.	2803 Sep 09 20:32 2803 Sep 09 22:34		10.27121 AU
evening set	2798 Jun 10 21:40	5° <b>9</b> 24'57		morning rise	2803 Sep 07 22:54 2803 Sep 27 12:58	19°M <sub>2</sub> 32'16	10.27121710
evening set	2770 Juli 10 21.40	3 32431		retrograde	2804 Jan 07 04:27	27° My 17'41	
conjunction	2798 Jun 28 23:13	7°544'22	-0°51'38	opposition	2804 Mar 14 02:07	23° m 53'33	2°12'02
minimum elong	2798 Jun 28 23:15	7°944'23	0°51'38	min. Earth dist.	2804 Mar 13 23:57	23° m 53'59	
max. Earth dist.	2798 Jun 29 02:23		10.08304 AU	direct	2804 May 21 23:03	20° m 24'51	0.51747710
morning rise	2798 Jul 17 02:17	10° <b>©</b> 04'19	10.00504710	evening set	2804 Sep 05 04:23	28° m/24'33	
retrograde	2798 Oct 30 15:32	18°9518'27		evening sec	2804 Sep 17 22:56	0° <b>⊽</b>	
opposition	2799 Jan 05 18:46	14°5549'40	-0°45'10		_00.5 <b>0</b> p 17 22.50	· —	
min. Earth dist.	2799 Jan 05 15:59	14°950'15		conjunction	2804 Sep 22 20:08	0° <b>Ω</b> 36'51	1°55'08
direct	2799 Mar 13 12:52	11°921'37	3.07 100 110	minimum elong	2804 Sep 22 20:06	0° <b>⊆</b> 36'51	1°55'07
evening set	2799 Jun 25 19:46	19°930'20		max. Earth dist.	2804 Sep 22 22:05		10.36493 AU
evening sec	2777 Juli 25 17.10	17 - 3020		morning rise	2804 Oct 10 07:30	2° <b>Ω</b> 47'49	10.50155710
conjunction	2799 Jul 13 23:21	21° <b>©</b> 50'29	-0°20'22	retrograde	2805 Jan 19 08:18	10° <b>£</b> 25'16	
minimum elong	2799 Jul 13 23:22	21° <b>9</b> 50'29		opposition	2805 Mar 27 11:23	7° <b>⊆</b> 02'21	2°30'54
max. Earth dist.	2799 Jul 14 02:52		10.07254 AU	min. Earth dist.	2805 Mar 27 09:31	7° <b>⊆</b> 02'43	8.41616 AU
morning rise	2799 Aug 01 03:15	24°9510'46	10.07254 AC	direct	2805 Jun 04 19:44	3° <b>£</b> 34'26	0.41010 AC
	2799 Aug 01 03:13 2799 Sep 22 22:02	0°Ω		evening set	2805 Sep 18 22:50	11° <b>⊆</b> 27'43	
retrograde	2799 Scp 22 22:02 2799 Nov 14 00:06	2° <b>Ω</b> 22'06		Storing Soc	2000 Dep 10 22.00	—2/73	
renograde	2800 Jan 06 05:25	2 <b>8 €</b> 22 00		conjunction	2805 Oct 06 10:01	13° <b>≏</b> 37'20	2°07'22
opposition	2800 Jan 06 05:25 2800 Jan 19 20:15	30°k≌ 28°©53'51	-0°05'10	minimum elong	2805 Oct 06 10:01 2805 Oct 06 09:59	13° <b>2</b> 37′20 13° <b>2</b> 37′19	
* *				•			2°0721 10.46669 AU
min. Earth dist. asc. node	2800 Jan 19 17:28	28°\$54'25 25°\$44'24	8.07706 AU	max. Earth dist.	2805 Oct 06 11:44	13° <b>2</b> 37'32 15° <b>2</b> 45'32	10.40009 AU
	2800 Mar 08 03:55			morning rise	2805 Oct 23 16:29		
direct	2800 Mar 26 19:58	25°\$25'04		retrograde	2806 Feb 01 04:32	23° <b>Ω</b> 15'14	20/11/41
avanirt	2800 Jun 09 15:23 2800 Jul 09 19:34	0° <b>Ω</b> 3° <b>Ω</b> 35'42		opposition min. Earth dist.	2806 Apr 09 15:48 2806 Apr 09 14:55	19° <b>Ω</b> 53'33	2°41'41 8.52022 AU
evening set	/XUU 101 - 109 - 19:34	1 4/11/47		min Harth dist	AND ANT HY 1/1:55	19-14-14/1/	4 3 /H / / A I I
	2000 341 07 17.54	J 0033 12		direct	2806 Jun 18 11:13	16° <b>£</b> 26'38	0.32022 AC

2812 Apr 13 03:45

retrograde

5°る05'01

	2010 E 1 22 17 47	40 1/ 50/20	1015111		202434 10 00 26	200 1 2020	2005122
conjunction	2818 Feb 23 17:47	4° <b>)</b> ₹59'39		conjunction	2824 May 10 00:26	20° <b>8</b> 19'29	
minimum elong	2818 Feb 23 17:44	4° <b>)</b> ₹59'39		minimum elong	2824 May 10 00:28	20° <b>8</b> 19'30	
max. Earth dist.	2818 Feb 23 14:31		10.86330 AU	max. Earth dist.	2824 May 10 01:59	_	10.27201 AU
morning rise	2818 Mar 12 13:21	7° <b>₩</b> 00'11		morning rise	2824 May 27 15:26	22° <b>8</b> 33'15	
retrograde	2818 Jun 24 05:25	14° <b>)</b> €22'08			2824 Aug 14 03:37	$\Pi$ $^{\circ}0$	
opposition	2818 Sep 02 22:36	11° <b>)</b> 00′16	-1°45'52	retrograde	2824 Sep 11 09:21	0° <b>Ⅱ</b> 41'34	
min. Earth dist.	2818 Sep 03 00:51	10° <b>¥</b> 59'51	8.82295 AU		2824 Oct 09 16:23	30° <b>₹</b> 8	
direct	2818 Nov 11 04:18	7° <b>)</b> 41'17		opposition	2824 Nov 19 00:16	27° <b>8</b> 12'30	-2°28'04
evening set	2819 Feb 18 23:47	14° <b>)</b> 51′26		min. Earth dist.	2824 Nov 18 22:30	27° <b>8</b> 12'51	8.22959 AU
Ü				direct	2825 Jan 24 18:11	23° <b>8</b> 47'33	
conjunction	2819 Mar 07 18:11	16° <b>¥</b> 52'32	-1°36'17		2825 Apr 23 05:27	0°II	
minimum elong	2819 Mar 07 18:08	16° <b>)</b> 52'32		evening set	2825 May 06 14:19	1° <b>∏</b> 38'33	
max. Earth dist.	2819 Mar 07 15:28		10.77841 AU	evening set	2023 Way 00 14.17	1 113033	
		18° <b>)</b> 54'40	10.77641 AU		2025 M 24 05-50	2017 52120	1051125
morning rise	2819 Mar 24 15:41			conjunction	2825 May 24 05:50	3°II53'30	
retrograde	2819 Jul 07 01:57	26° <b>)</b> (24'16	2000115	minimum elong	2825 May 24 05:53	3° <b>∏</b> 53'31	
opposition	2819 Sep 15 15:04	23° <b>₭</b> 01'02		max. Earth dist.	2825 May 24 07:48		10.18867 AU
min. Earth dist.	2819 Sep 15 16:44	23° <b>)</b> €00'43	8.73210 AU	morning rise	2825 Jun 11 01:17	6° <b>Ⅱ</b> 09'43	
direct	2819 Nov 23 08:39	19° <b>∺</b> 41'24		retrograde	2825 Sep 25 17:43	14° <b>Ⅱ</b> 22'31	
evening set	2820 Mar 02 05:14	26° <b>) (</b> 56′41		opposition	2825 Dec 02 20:31	10° <b>Ⅱ</b> 53'01	-2°06'42
				min. Earth dist.	2825 Dec 02 18:27	10° <b>∏</b> 53′26	8.15428 AU
conjunction	2820 Mar 19 01:24	28° <b>¥</b> 59'30	-1°53'29	direct	2826 Feb 07 10:37	7° <b>Ⅱ</b> 26'53	
minimum elong	2820 Mar 19 01:22	28° <b>¥</b> 59'29	1°53'30	evening set	2826 May 20 23:15	15° <b>Ⅱ</b> 24'43	
max. Earth dist.	2820 Mar 18 22:42	28° <b>¥</b> 58'40	10.68208 AU	C	Ž		
	2820 Mar 27 07:25	0° <b>Υ</b>		conjunction	2826 Jun 07 19:19	17° <b>Ⅱ</b> 41'57	-1°30'53
morning rise	2820 Apr 05 01:28	1° <b>Υ</b> 03'31		minimum elong	2826 Jun 07 19:22	17° <b>∏</b> 41'58	
•	2820 Jul 19 05:01	8° <b>Υ</b> 41'24		max. Earth dist.	2826 Jun 07 21:27		10.12312 AU
retrograde		5°Υ16'46	2020120			17 <b>П</b> 42 38 20° <b>П</b> 00'14	10.12312 AU
opposition	2820 Sep 27 12:05			morning rise	2826 Jun 25 18:43		
min. Earth dist.	2820 Sep 27 13:37		8.63186 AU	retrograde	2826 Oct 10 03:32	28° <b>I</b> I15'30	1005100
direct	2820 Dec 04 18:17	1° <b>Y</b> 56'16		opposition	2826 Dec 16 19:51	24° <b>Ⅱ</b> 45'53	
evening set	2821 Mar 14 18:19	9° <b>Ƴ</b> 17'44		min. Earth dist.	2826 Dec 16 17:44	24° <b>∏</b> 46′19	8.09894 AU
				direct	2827 Feb 21 09:39	21° <b>Ⅱ</b> 18'43	
conjunction	2821 Mar 31 17:02	11° <b>Y</b> 22'36	-2°05'49	evening set	2827 Jun 04 15:06	29° <b>Ⅱ</b> 22'20	
minimum elong	2821 Mar 31 17:01	11° <b>Y</b> 22'35	2°05'49		2827 Jun 09 13:18	$0$ $\circ$ $\infty$	
max. Earth dist.	2821 Mar 31 14:43	11° <b>Y</b> 21'53	10.57851 AU				
morning rise	2821 Apr 17 20:12	13° <b>Y</b> 28'48		conjunction	2827 Jun 22 15:06	1° <b>5</b> 341'21	-1°04'48
retrograde	2821 Aug 01 14:23	21° <b>Y</b> 15'08		minimum elong	2827 Jun 22 15:09	1°5541'22	1°04'48
opposition	2821 Oct 10 13:46	17° <b>Ƴ</b> 49'09	-2°40'23	max. Earth dist.	2827 Jun 22 17:49	1° <b>©</b> 42'14	10.07958 AU
min. Earth dist.	2821 Oct 10 15:04	17° <b>Ƴ</b> 48'54	8.52659 AU	morning rise	2827 Jul 10 17:30	4° <b>©</b> 01'07	
direct	2821 Dec 17 08:51	14° <b>Υ</b> 27'39	0.02007110	retrograde	2827 Oct 24 13:42	12° <b>©</b> 16'38	
evening set	2822 Mar 27 15:44	21° <b>Y</b> 56'07		opposition	2827 Dec 30 21:08	8°5947'16	-1°02'25
evening set	2022 Wai 27 13.44	21 13007		min. Earth dist.	2827 Dec 30 21:06 2827 Dec 30 18:36	8°947'47	
:	2022 A 12 17.52	24° <b>Ƴ</b> 03'17	2012121				8.00730 AU
conjunction	2822 Apr 13 17:52			direct	2828 Mar 06 13:33	5°5019'13	
minimum elong	2822 Apr 13 17:52	24° <b>Y</b> 03'17		evening set	2828 Jun 18 12:03	13° <b>©</b> 27'11	
max. Earth dist.	2822 Apr 13 16:53		10.47227 AU			_	
morning rise	2822 May 01 00:34	26° <b>Y</b> 11'54		conjunction	2828 Jul 06 14:54	15° <b>©</b> 47'18	-0°34'41
	2822 Jun 03 10:18	$9^{\circ}$ 8		minimum elong	2828 Jul 06 14:56	15° <b>©</b> 47'19	
retrograde	2822 Aug 15 05:52	4° <b>8</b> 06'28		max. Earth dist.	2828 Jul 06 18:26	15° <b>©</b> 48'27	10.06099 AU
opposition	2822 Oct 23 20:26	0° <b>8</b> 39'14	-2°44'49	morning rise	2828 Jul 24 18:54	18° <b>5</b> 07'46	
min. Earth dist.	2822 Oct 23 20:50	0° <b>8</b> 39'10	8.42100 AU	retrograde	2828 Nov 06 23:12	26° <b>©</b> 21'21	
	2822 Nov 01 04:36	30° <b>₹</b> Υ		opposition	2829 Jan 12 23:09	22° <b>©</b> 52'34	-0°23'17
direct	2822 Dec 30 06:24	27° <b>Ƴ</b> 16'39		min. Earth dist.	2829 Jan 12 19:57	22°553'13	8.06153 AU
	2823 Feb 24 14:07	0°8		direct	2829 Mar 20 20:08	19° <b>©</b> 23'52	
evening set	2823 Apr 09 22:03	4° <b>8</b> 52'36		evening set	2829 Jul 03 11:59	27° <b>©</b> 34'32	
evening see	2023 i ipi 0	. 0:250		evening sec	202, 001 03 11.0,	2, 03.32	
conjunction	2823 Apr 27 04:15	7° <b>8</b> 02'19	-2°12'21	conjunction	2829 Jul 21 16:04	29° <b>©</b> 54'53	-0°02'30
minimum elong	2823 Apr 27 04:15 2823 Apr 27 04:16	7° <b>8</b> 02'19		minimum elong	2829 Jul 21 16:04	29° <b>9</b> 54'53	
Č	•						0 02 29
max. Earth dist.	2823 Apr 27 04:50		10.36831 AU	behind sun begin	2829 Jul 21 08:43	29°952'31	
morning rise	2823 May 14 14:54	9° <b>8</b> 13'29		behind sun end	2829 Jul 21 23:25	29°557'14	10.00000 : **
_	2823 Jul 07 18:58	15° <b>8</b>		max. Earth dist.	2829 Jul 21 20:20		10.06860 AU
retrograde	2823 Aug 29 04:09	17° <b>8</b> 15'34			2829 Jul 22 07:54	$0$ $\circ$ $\Omega$	
	2823 Oct 21 19:51	15° <b>₹</b> 8		morning rise	2829 Aug 08 19:53	2° <b>Ω</b> 15′08	
opposition	2823 Nov 06 08:04	13° <b>8</b> 47'17	-2°40'50	asc. node	2829 Aug 18 23:52	3° <b>£</b> 31′21	
min. Earth dist.	2823 Nov 06 07:08	13° <b>8</b> 47'28	8.32020 AU	retrograde	2829 Nov 21 06:30	10° <b>Ω</b> 24'45	
direct	2824 Jan 12 09:58	10° <b>8</b> 23'33		opposition	2830 Jan 27 00:27	6° <b>Ω</b> 56'50	0°17'11
	2824 Mar 27 04:12	15° <b>8</b>		min. Earth dist.	2830 Jan 26 20:38	6° <b>Ω</b> 57'37	8.08214 AU
evening set				min. Earth dist. direct	2830 Jan 26 20:38 2830 Apr 04 05:00	6° <b>Ω</b> 57'37 3° <b>Ω</b> 27'47	8.08214 AU

evening set

2830 Jul 18 12:00

11°**Ω**39'14

conjunction	2830 Aug 05 15:35	13° <b>Ω</b> 58'55	0°29'51	conjunction	2836 Oct 26 06:32	3°MJ38'50	2°13'14
minimum elong	2830 Aug 05 15:33	13° <b>Ω</b> 58'54	0°29'51	minimum elong	2836 Oct 26 06:32	3°M38'50	2°13'13
max. Earth dist.	2830 Aug 05 20:26		10.10206 AU	max. Earth dist.	2836 Oct 26 06:05	3°M38'41	10.63382 AU
	2830 Aug 13 12:53	15° <b>Ω</b>		morning rise	2836 Nov 12 06:38	5°M43'09	
morning rise	2830 Aug 23 17:32	16° <b>Ω</b> 18'06		retrograde	2837 Feb 20 06:03	13°M02'06	
retrograde	2830 Dec 05 09:02	24° <b>Ω</b> 22'03		opposition	2837 Apr 29 06:55	9° <b>M</b> 42'31	2°42'17
opposition	2831 Feb 10 00:01	20° <b>Ω</b> 55'13	0°56'19	min. Earth dist.	2837 Apr 29 07:31	9° <b>™</b> 42'25	8.68349 AU
min. Earth dist.	2831 Feb 09 20:00	20° <b>Ω</b> 56′03	8.12793 AU	direct	2837 Jul 08 16:01	6° <b>™</b> 17'46	
direct	2831 Apr 18 14:10	17° <b>Ω</b> 26′06		evening set	2837 Oct 21 20:05	13°M52'29	
evening set	2831 Aug 02 09:12	25° <b>Ω</b> 36′21			2837 Oct 31 04:50	15°M	
conjunction	2831 Aug 20 10:39	27° <b>Ω</b> 54'31	1°00'04	conjunction	2837 Nov 07 21:14	15°M55'59	2°09'02
minimum elong	2831 Aug 20 10:36	27° <b>Ω</b> 54'30	1°00'04	minimum elong	2837 Nov 07 21:15	15°M55'59	2°09'02
max. Earth dist.	2831 Aug 20 15:28		10.15925 AU	max. Earth dist.	2837 Nov 07 19:55		10.72844 AU
	2831 Sep 05 19:40	0° <b>m</b>		morning rise	2837 Nov 24 18:07	17°M58'15	
morning rise	2831 Sep 07 09:21	0° Mp 11'52		retrograde	2838 Mar 04 12:00	25°M11'28	2022110
retrograde	2831 Dec 19 05:28	8° Mp 08'53	1021120	opposition	2838 May 12 00:08	21°M52'41	2°33'18
opposition	2832 Feb 23 20:35	4° Mp 43'17	1°31'38	min. Earth dist.	2838 May 12 02:00	21°M52'20	8.77356 AU
min. Earth dist.	2832 Feb 23 17:11	4° Mp 43'59	8.19589 AU	direct	2838 Jul 21 16:42	18°M29'01	
evening set	2832 May 01 21:55 2832 Aug 16 01:15	1° Mp 14'21 9° Mp 21'30		evening set	2838 Nov 03 05:55	25°M56'36	
evening set	2032 Aug 10 01.13	9 IIJ2130		conjunction	2838 Nov 20 04:07	27°M58'15	1°59'10
conjunction	2832 Sep 02 23:12	11° <b>m</b> 37'31	1°26'27	minimum elong	2838 Nov 20 04:07 2838 Nov 20 04:09	27°M58'16	1°59'11
minimum elong	2832 Sep 02 23:12 2832 Sep 02 23:09	11° m <sub>y</sub> 37'31'	1°26'26	max. Earth dist.	2838 Nov 20 01:18		10.81328 AU
max. Earth dist.	2832 Sep 03 03:03		10.23639 AU	morning rise	2838 Dec 06 22:44	29°M58'52	10.01320110
morning rise	2832 Sep 20 17:37	13° m 52'27			2838 Dec 07 02:35	0° <b>⊼</b> ¹	
retrograde	2832 Dec 31 19:07	21° mp 41'39		retrograde	2839 Mar 16 14:36	7° <b>∡</b> 107'20	
opposition	2833 Mar 08 13:03	18° m) 17'23	2°01'08	opposition	2839 May 24 13:17	3° <b>∡</b> ⁴49'08	2°17'51
min. Earth dist.	2833 Mar 08 10:36	18° <b>m</b> ) 17'52	8.28151 AU	min. Earth dist.	2839 May 24 15:50	3° <b>∡</b> ¹48'39	8.85206 AU
direct	2833 May 16 02:23	14° Mp 48'52		direct	2839 Aug 03 11:35	0° <b>∡</b> ¹26'30	
evening set	2833 Aug 30 09:42	22° Mp 51'14		evening set	2839 Nov 15 08:16	7° <b>∡</b> ¹47'27	
conjunction	2833 Sep 17 03:19	25° <b>m</b> 04'42	1°47'37	conjunction	2839 Dec 02 04:14	9° <b>∡</b> °47'38	1°44'21
minimum elong	2833 Sep 17 03:16	25° Mp 04'41	1°47'36	minimum elong	2839 Dec 02 04:16	9° <b>∡</b> ¹47'39 −	1°44'22
max. Earth dist.	2833 Sep 17 05:46		10.32847 AU	max. Earth dist.	2839 Dec 02 00:48		10.88505 AU
morning rise	2833 Oct 04 16:56	27° m 16'53		morning rise	2839 Dec 18 21:14	11° <b>×</b> <sup>7</sup> 46'57	
	2833 Oct 27 16:29	0° <b>™</b>		retrograde	2840 Mar 27 14:05	18° <b>₹</b> 51'54	105450
retrograde	2834 Jan 14 01:15	4° <b>£</b> 57'55	2022125	opposition	2840 Jun 04 23:21	15° 🗷 34'00	1°56'52
opposition min. Earth dist.	2834 Mar 22 00:58 2834 Mar 21 23:21	1° <b>Ω</b> 34'57	8.37918 AU	min. Earth dist. direct	2840 Jun 05 01:45 2840 Aug 15 00:20	15° <b>∡</b> 33'33 12° <b>∡</b> 12'21	8.91590 AU
iiiii. Eartii dist.	2834 Apr 11 16:23	30°RM)	6.5/916 AU	evening set	2840 Nov 26 04:21	12 <b>x</b> 12 21 19° <b>x</b> 27'24	
direct	2834 May 30 03:17	28° m 07'07		evening set	2040 1107 20 04.21	17 7 27 24	
ancer	2834 Jul 16 20:26	0° <b>ರ</b>		conjunction	2840 Dec 12 22:44	21° <b>х</b> 26'28	1°25'23
evening set	2834 Sep 13 08:47	6° <b>₽</b> 03'21		minimum elong	2840 Dec 12 22:46	21° <b>₹</b> 26'28	1°25'23
Č	1			max. Earth dist.	2840 Dec 12 19:45		10.94094 AU
conjunction	2834 Sep 30 21:50	8° <b>£</b> 14'05	2°02'40	morning rise	2840 Dec 29 14:36	23° <b>∡</b> °24'51	
minimum elong	2834 Sep 30 21:47	8° <b>≏</b> 14'04	2°02'40		2841 Mar 16 01:45	<b>万</b> °0	
max. Earth dist.	2834 Sep 30 22:48	8° <b>£</b> 14′23	10.42942 AU	retrograde	2841 Apr 08 12:55	0° <b>る</b> 27'38	
morning rise	2834 Oct 18 06:35	10° <b>≙</b> 23'28			2841 May 02 07:24	30°₽ <b>⋌</b> ¹	
retrograde	2835 Jan 26 23:43	17° <b>≏</b> 56'31		opposition	2841 Jun 17 07:03	27° <b>₹</b> 09'47	1°31'23
opposition	2835 Apr 04 07:46	14° <b>≏</b> 34'45	2°37'46	min. Earth dist.	2841 Jun 17 09:14	27° <b>х</b> 09′23	8.96276 AU
min. Earth dist.	2835 Apr 04 06:39	14° <b>≏</b> 34'58	8.48240 AU	direct	2841 Aug 27 09:18	23° <b>∡</b> ⁴48'59	
direct	2835 Jun 12 22:50	11° <b>£</b> 07'49			2841 Nov 29 05:26	0°る	
evening set	2835 Sep 26 22:10	18° <b>≏</b> 57'09		evening set	2841 Dec 07 19:54	0° <b>る</b> 59'09	
conjunction	2835 Oct 14 06:51	21° <b>≏</b> 05'14	2°11'13	conjunction	2841 Dec 24 13:06	2°る57'27	1°03'07
minimum elong	2835 Oct 14 06:50	21° <b>⊆</b> 05'13		minimum elong	2841 Dec 24 13:08 2841 Dec 24 13:08	2°る57'28	1°03'06
max. Earth dist.	2835 Oct 14 06:53		10.53290 AU	max. Earth dist.	2841 Dec 24 10:18		10.97894 AU
morning rise	2835 Oct 31 11:00	21° <b>⊆</b> 03°13 23° <b>⊆</b> 11'57	.0.55270 AU	morning rise	2842 Jan 10 04:28	4° <b>る</b> 55'16	10.77077 AU
	2836 Jan 13 04:52	0°M		retrograde	2842 Apr 20 11:20	11° <b>る</b> 57'16	
retrograde	2836 Feb 08 17:17	0°M37'35		opposition	2842 Jun 29 13:00	8° <b>る</b> 39'15	1°02'28
<b>5</b>	2836 Mar 06 14:10	30° <b>R</b> Ω		min. Earth dist.	2842 Jun 29 15:50	8° <b>る</b> 38'44	8.99110 AU
opposition	2836 Apr 16 09:31	27° <b>£</b> 16'58	2°43'58	direct	2842 Sep 08 12:25	5° <b>ප</b> 19'09	
min. Earth dist.	2836 Apr 16 09:06	27° <b>≏</b> 17'03	8.58525 AU	evening set	2842 Dec 19 08:25	12° <b>る</b> 25'39	
direct	2836 Jun 25 11:17	23° <b>≙</b> 51'05					
	2836 Sep 25 20:30	0°M		conjunction	2843 Jan 05 00:44	14° <b>පි</b> 23'31	
evening set	2836 Oct 09 01:51	1°M33'11		minimum elong	2843 Jan 05 00:45	14° <b>る</b> 23'32	0°38'26

	2042 1 04 20 57	1.40=2000.4	10.00701 ATT	1	2040 N 17 15 20	1.40 1/ 55150	
max. Earth dist.	2843 Jan 04 20:57		10.99781 AU	direct	2848 Nov 17 15:29	14° <b>)</b> ₹55'59	
morning rise	2843 Jan 21 16:13	16° <b>පි</b> 21'10		evening set	2849 Feb 25 11:32	22° <b>)</b> €09'22	
retrograde	2843 May 02 07:47	23° <b>る</b> 23'48					
opposition	2843 Jul 11 18:15	20° <b>る</b> 05'26	0°31'12	conjunction	2849 Mar 14 06:56	24° <b>∺</b> 11'30	-1°46'51
min. Earth dist.	2843 Jul 11 21:34	20°る04'49	8.99993 AU	minimum elong	2849 Mar 14 06:53	24° <b>) (</b> 11′30	1°46'51
direct	2843 Sep 20 13:01	16° <b>ප්</b> 45'52		max. Earth dist.	2849 Mar 14 05:50	24° <b>∺</b> 11'10	10.71887 AU
evening set	2843 Dec 30 19:28	23° <b>ප</b> 50'04		morning rise	2849 Mar 31 05:53	26° <b>) (</b> 14'45	
•				•	2849 May 04 04:37	$0^{\circ}\mathbf{Y}$	
conjunction	2844 Jan 16 11:18	25° <b>る</b> 47'49	0°12'19	retrograde	2849 Jul 14 01:25	3° <b>Y</b> 49'23	
minimum elong	2844 Jan 16 11:18	25° <b>♂</b> 47'49	0°12'19	opposition	2849 Sep 22 12:21	0°Υ25'20	-2°21'17
behind sun begin	2844 Jan 16 06:35	25° <b>る</b> 46'27	0 12 17	min. Earth dist.	2849 Sep 22 12:41		8.67322 AU
Č		25°る4027 25°る49'12		IIIII. Eartii tiist.	-		6.07322 AU
behind sun end	2844 Jan 16 16:00		10.00604.411	1.	2849 Sep 28 01:03	30° <b>₹</b> ₩	
max. Earth dist.	2844 Jan 16 07:22	25° <b>⋜</b> 46'40	10.99684 AU	direct	2849 Nov 30 00:11	27° <b>)</b> €05'19	
morning rise	2844 Feb 02 03:10	27° <b>る</b> 45'36			2850 Jan 28 07:42	0° <b>Υ</b>	
	2844 Feb 22 05:01	0° <b>≈</b>		evening set	2850 Mar 09 21:36	4° <b>Ƴ</b> 24'16	
retrograde	2844 May 13 08:22	4° <b>≈</b> 50'25					
desc. node	2844 Jul 07 22:27	2° <b>≈</b> 37'04		conjunction	2850 Mar 26 19:18	6° <b>Y</b> 28′15	-2°01'17
opposition	2844 Jul 22 23:37	1° <b>≈</b> 31'28	-0°01'18	minimum elong	2850 Mar 26 19:16	6° <b>Y</b> 28′15	2°01'17
min. Earth dist.	2844 Jul 23 02:30	1° <b>≈</b> 30'56	8.98889 AU	max. Earth dist.	2850 Mar 26 19:21	6° <b>Y</b> 28'16	10.62400 AU
	2844 Aug 13 08:42	30°Ŗ₹		morning rise	2850 Apr 12 20:55	8° <b>Y</b> 33'30	
direct	2844 Oct 01 14:12	28° <b>ප</b> 12'17		retrograde	2850 Jul 27 10:02	16° <b>Y</b> 16′20	
direct	2844 Nov 17 23:53	0°≈		opposition	2850 Oct 05 12:06	12° <b>Y</b> 51'07	2026/07
. ,				**			
evening set	2845 Jan 10 06:38	5°≈15'32		min. Earth dist.	2850 Oct 05 11:26		8.57572 AU
				direct	2850 Dec 12 11:26	9° <b>Υ</b> 30'23	
conjunction	2845 Jan 26 22:29	7°≈13'32		evening set	2851 Mar 22 15:45	16° <b>Ƴ</b> 55'48	
minimum elong	2845 Jan 26 22:29	7° <b>≈</b> 13'32	0°14'25				
behind sun begin	2845 Jan 26 19:08	7° <b>≈</b> 12'33		conjunction	2851 Apr 08 16:19	19° <b>Ƴ</b> 01'54	-2°10'16
behind sun end	2845 Jan 27 01:49	7° <b>≈</b> 14'31		minimum elong	2851 Apr 08 16:18	19° <b>Ƴ</b> 01'54	2°10'16
max. Earth dist.	2845 Jan 26 19:35	7° <b>≈</b> 12'41	10.97601 AU	max. Earth dist.	2851 Apr 08 16:49	19° <b>Ƴ</b> 02'04	10.52448 AU
morning rise	2845 Feb 12 14:58	9° <b>≈</b> 11'46		morning rise	2851 Apr 25 21:16	21° <b>Y</b> ′09'24	
S	2845 Apr 14 14:13	15° <b>≈</b>		retrograde	2851 Aug 09 23:35	29° <b>Y</b> ′00'22	
retrograde	2845 May 25 11:52	16°≈20'12		opposition	2851 Oct 18 16:59	25° <b>Y</b> '34'03	-2°43'44
retrograde	2845 Jul 06 10:56	15°R≈		min. Earth dist.	2851 Oct 18 15:49		8.47577 AU
			0022155	direct		23 γ 34 17 22°γ 12'26	6.4/3// AU
opposition	2845 Aug 04 06:05	13°≈00'28			2851 Dec 25 05:31	-	
min. Earth dist.	2845 Aug 04 07:59	13°≈00'07	8.95835 AU	evening set	2852 Apr 03 18:24	29° <b>Y</b> 44'53	
direct	2845 Oct 13 12:08	9° <b>≈</b> 41'32			2852 Apr 05 19:32	0°8	
	2846 Jan 06 08:30	15° <b>≈</b>					
evening set	2846 Jan 21 19:33	16° <b>≈</b> 45′14		conjunction	2852 Apr 20 22:35	1° <b>8</b> 53'21	-2°13'00
				minimum elong	2852 Apr 20 22:35	1° <b>8</b> 53'21	2°13'00
conjunction	2846 Feb 07 11:41	18° <b>≈</b> 43'48	-0°40'41	max. Earth dist.	2852 Apr 20 23:13	1° <b>8</b> 53'33	10.42501 AU
minimum elong	2846 Feb 07 11:39	18° <b>≈</b> 43'47	0°40'40	morning rise	2852 May 08 07:30	4° <b>8</b> 03'17	
max. Earth dist.	2846 Feb 07 09:13	18° <b>≈</b> 43'03	10.93596 AU	retrograde	2052 A 22 10-11	120 01140	
morning rise	2846 Feb 24 05:10				2832 Aug 22 19:11	12 001 49	
retrograde		20° <b>≈</b> 42'49		•	2852 Aug 22 19:11 2852 Oct 31 02:44	12° <b>8</b> 01'49 8° <b>8</b> 34'31	-2°43'15
•		20°≈42'49 27°≈56'12		opposition	2852 Oct 31 02:44	8° <b>8</b> 34'31	
opposition	2846 Jun 06 19:29	27° <b>≈</b> 56′12	-1°05'27	opposition min. Earth dist.	2852 Oct 31 02:44 2852 Oct 31 01:40	8°834'31 8°834'43	-2°43'15 8.37807 AU
opposition	2846 Jun 06 19:29 2846 Aug 16 14:37	27°≈56'12 24°≈35'33		opposition min. Earth dist. direct	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32	8° <b>엉</b> 34'31 8° <b>엉</b> 34'43 5° <b>엉</b> 11'50	
min. Earth dist.	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21	27°≈56'12 24°≈35'33 24°≈35'14	-1°05'27 8.90928 AU	opposition min. Earth dist.	2852 Oct 31 02:44 2852 Oct 31 01:40	8°834'31 8°834'43	
min. Earth dist. direct	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38		opposition min. Earth dist. direct evening set	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09	8°\d34'31 8°\d34'43 5°\d51'50 12°\d51'35	8.37807 AU
min. Earth dist.	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58 2847 Feb 02 11:52	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38 28°≈22'15		opposition min. Earth dist. direct evening set conjunction	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09 2853 May 04 14:41	8°\da4'31 8°\da4'43 5°\da911'50 12°\da951'35	8.37807 AU -2°08'56
min. Earth dist. direct	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38		opposition min. Earth dist. direct evening set	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09 2853 May 04 14:41 2853 May 04 14:43	8°\da4'31 8°\da4'43 5°\da511'50 12°\da51'35 15°\da92'35 15°\da92'35	8.37807 AU -2°08'56
min. Earth dist. direct evening set	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58 2847 Feb 02 11:52 2847 Feb 16 04:15	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38 28°≈22'15 0°¥	8.90928 AU	opposition min. Earth dist. direct evening set  conjunction minimum elong	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09 2853 May 04 14:41 2853 May 04 14:43 2853 May 04 06:32	8°834'31 8°834'43 5°811'50 12°851'35 15°802'35 15°802'35	8.37807 AU -2°08'56 2°08'55
min. Earth dist. direct	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58 2847 Feb 02 11:52	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38 28°≈22'15 0°¥	8.90928 AU -1°05'31	opposition min. Earth dist. direct evening set conjunction	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09 2853 May 04 14:41 2853 May 04 14:43	8°834'31 8°834'43 5°811'50 12°851'35 15°802'35 15°802'35	8.37807 AU -2°08'56
min. Earth dist. direct evening set	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58 2847 Feb 02 11:52 2847 Feb 16 04:15	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38 28°≈22'15 0°¥	8.90928 AU -1°05'31	opposition min. Earth dist. direct evening set  conjunction minimum elong	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09 2853 May 04 14:41 2853 May 04 14:43 2853 May 04 06:32	8°834'31 8°834'43 5°811'50 12°851'35 15°802'35 15°802'35	8.37807 AU -2°08'56 2°08'55
min. Earth dist. direct evening set conjunction	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58 2847 Feb 02 11:52 2847 Feb 16 04:15 2847 Feb 19 04:28	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38 28°≈22'15 0°₩ 0°₩21'41	8.90928 AU -1°05'31	opposition min. Earth dist. direct evening set  conjunction minimum elong  max. Earth dist.	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09 2853 May 04 14:41 2853 May 04 14:43 2853 May 04 06:32 2853 May 04 15:57	8°834'31 8°834'43 5°811'50 12°851'35 15°802'35 15°802'35 15°8	8.37807 AU -2°08'56 2°08'55
min. Earth dist. direct evening set  conjunction minimum elong	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58 2847 Feb 02 11:52 2847 Feb 16 04:15 2847 Feb 19 04:28 2847 Feb 19 04:26	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38 28°≈22'15 0°₩ 0°₩21'41	8.90928 AU -1°05'31 1°05'31	opposition min. Earth dist. direct evening set  conjunction minimum elong  max. Earth dist. morning rise	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09 2853 May 04 14:41 2853 May 04 14:43 2853 May 04 06:32 2853 May 04 15:57 2853 May 22 03:53	8°834'31 8°834'43 5°811'50 12°851'35 15°802'35 15°802'35 15°802'59 17°815'02	8.37807 AU -2°08'56 2°08'55 10.33016 AU
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58 2847 Feb 02 11:52 2847 Feb 16 04:15 2847 Feb 19 04:28 2847 Feb 19 04:26 2847 Feb 19 01:38 2847 Mar 07 23:25	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38 28°≈22'15 0° ₩ 0° ₩ 21'41 0° ₩ 21'40 0° ₩ 20'50	8.90928 AU -1°05'31 1°05'31	opposition min. Earth dist. direct evening set  conjunction minimum elong  max. Earth dist. morning rise retrograde opposition	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09 2853 May 04 14:41 2853 May 04 14:43 2853 May 04 06:32 2853 May 04 06:32 2853 May 04 15:57 2853 May 22 03:53 2853 Sep 05 20:24 2853 Nov 13 16:49	8°834'31 8°834'43 5°811'50 12°851'35 15°802'35 15°802'59 17°815'02 25°820'01 21°851'54	8.37807 AU -2°08'56 2°08'55 10.33016 AU -2°34'06
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58 2847 Feb 02 11:52 2847 Feb 16 04:15 2847 Feb 19 04:28 2847 Feb 19 04:26 2847 Feb 19 01:38 2847 Mar 07 23:25 2847 Jun 19 07:59	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38 28°≈22'15 0° ₩ 0° ₩21'41 0° ₩21'40 0° ₩20'50 2° ₩21'48	8.90928 AU -1°05'31 1°05'31 10.87811 AU	opposition min. Earth dist. direct evening set  conjunction minimum elong  max. Earth dist. morning rise retrograde	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09 2853 May 04 14:41 2853 May 04 14:43 2853 May 04 06:32 2853 May 04 06:32 2853 May 04 15:57 2853 May 22 03:53 2853 Sep 05 20:24	8°834'31 8°834'43 5°811'50 12°851'35 15°802'35 15°802'59 17°815'02 25°820'01 21°851'54 21°852'09	8.37807 AU -2°08'56 2°08'55 10.33016 AU
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58 2847 Feb 02 11:52 2847 Feb 16 04:15 2847 Feb 19 04:28 2847 Feb 19 04:26 2847 Feb 19 01:38 2847 Mar 07 23:25 2847 Jun 19 07:59 2847 Aug 29 02:00	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38 28°≈22'15 0° ₩ 0° ₩21'41 0° ₩20'50 2° ₩21'48 9° ₩41'19 6° ₩19'39	8.90928 AU -1°05'31 1°05'31 10.87811 AU -1°34'42	opposition min. Earth dist. direct evening set  conjunction minimum elong  max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09 2853 May 04 14:41 2853 May 04 14:43 2853 May 04 06:32 2853 May 04 15:57 2853 May 22 03:53 2853 Sep 05 20:24 2853 Nov 13 16:49 2853 Nov 13 15:36 2854 Jan 19 13:37	8°834'31 8°834'43 5°811'50 12°851'35 15°802'35 15°802'35 15°802'59 17°815'02 25°820'01 21°851'54 21°852'09 18°828'04	8.37807 AU -2°08'56 2°08'55 10.33016 AU -2°34'06
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58 2847 Feb 02 11:52 2847 Feb 16 04:15 2847 Feb 19 04:28 2847 Feb 19 04:26 2847 Feb 19 01:38 2847 Mar 07 23:25 2847 Jun 19 07:59 2847 Aug 29 02:00 2847 Aug 29 03:54	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38 28°≈22'15 0° ₩ 0° ₩21'41 0° ₩21'40 0° ₩20'50 2° ₩21'48 9° ₩41'19 6° ₩19'39 6° ₩19'18	8.90928 AU -1°05'31 1°05'31 10.87811 AU	opposition min. Earth dist. direct evening set  conjunction minimum elong  max. Earth dist. morning rise retrograde opposition min. Earth dist.	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09 2853 May 04 14:41 2853 May 04 14:43 2853 May 04 06:32 2853 May 04 06:32 2853 May 04 15:57 2853 May 22 03:53 2853 Sep 05 20:24 2853 Nov 13 16:49 2853 Nov 13 15:36	8°834'31 8°834'43 5°811'50 12°851'35 15°802'35 15°802'59 17°815'02 25°820'01 21°851'54 21°852'09	8.37807 AU -2°08'56 2°08'55 10.33016 AU -2°34'06
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58 2847 Feb 02 11:52 2847 Feb 16 04:15  2847 Feb 19 04:28 2847 Feb 19 04:26 2847 Feb 19 01:38 2847 Mar 07 23:25 2847 Jun 19 07:59 2847 Aug 29 02:00 2847 Aug 29 03:54 2847 Nov 06 11:12	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38 28°≈22'15 0°₩ 0°₩21'41 0°₩21'40 0°₩20'50 2°₩21'48 9°₩41'19 6°₩19'39 6°₩19'18 3°₩00'33	8.90928 AU -1°05'31 1°05'31 10.87811 AU -1°34'42	opposition min. Earth dist. direct evening set  conjunction minimum elong  max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09  2853 May 04 14:41 2853 May 04 14:43 2853 May 04 06:32 2853 May 04 15:57 2853 May 22 03:53 2853 Sep 05 20:24 2853 Nov 13 16:49 2853 Nov 13 15:36 2854 Jan 19 13:37 2854 May 01 02:43	8°834'31 8°834'43 5°811'50 12°851'35 15°802'35 15°802'35 15°802'59 17°815'02 25°820'01 21°851'54 21°852'09 18°828'04 26°815'05	8.37807 AU  -2°08'56 2°08'55  10.33016 AU  -2°34'06 8.28707 AU
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58 2847 Feb 02 11:52 2847 Feb 16 04:15 2847 Feb 19 04:28 2847 Feb 19 04:26 2847 Feb 19 01:38 2847 Mar 07 23:25 2847 Jun 19 07:59 2847 Aug 29 02:00 2847 Aug 29 03:54	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38 28°≈22'15 0° ₩ 0° ₩21'41 0° ₩21'40 0° ₩20'50 2° ₩21'48 9° ₩41'19 6° ₩19'39 6° ₩19'18	8.90928 AU -1°05'31 1°05'31 10.87811 AU -1°34'42	opposition min. Earth dist. direct evening set  conjunction minimum elong  max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09  2853 May 04 14:41 2853 May 04 14:43 2853 May 04 06:32 2853 May 04 15:57 2853 May 22 03:53 2853 Sep 05 20:24 2853 Nov 13 16:49 2853 Nov 13 15:36 2854 Jan 19 13:37 2854 May 01 02:43	8°834'31 8°834'43 5°811'50 12°851'35 15°802'35 15°802'35 15°802'59 17°815'02 25°820'01 21°851'54 21°852'09 18°828'04 26°815'05	8.37807 AU  -2°08'56 2°08'55  10.33016 AU  -2°34'06 8.28707 AU
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58 2847 Feb 02 11:52 2847 Feb 16 04:15  2847 Feb 19 04:28 2847 Feb 19 04:26 2847 Feb 19 01:38 2847 Mar 07 23:25 2847 Jun 19 07:59 2847 Aug 29 02:00 2847 Aug 29 03:54 2847 Nov 06 11:12 2848 Feb 14 08:48	27°≈56'12 24°≈35'13 24°≈35'14 21°≈16'38 28°≈22'15 0°₩ 0°₩21'41 0°₩21'40 0°₩20'50 2°₩21'48 9°₩41'19 6°₩19'39 6°₩19'18 3°₩00'33 10°₩09'26	8.90928 AU -1°05'31 1°05'31 10.87811 AU -1°34'42 8.84354 AU	opposition 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	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09  2853 May 04 14:41 2853 May 04 14:43 2853 May 04 06:32 2853 May 04 15:57 2853 May 22 03:53 2853 Sep 05 20:24 2853 Nov 13 16:49 2853 Nov 13 15:36 2854 Jan 19 13:37 2854 May 01 02:43  2854 May 18 16:03 2854 May 18 16:03	8°834'31 8°834'43 5°811'50 12°851'35 15°802'35 15°802'35 15°802'59 17°815'02 25°820'01 21°851'54 21°852'09 18°828'04 26°815'05 28°828'39 28°828'40	8.37807 AU  -2°08'56 2°08'55  10.33016 AU  -2°34'06 8.28707 AU  -1°57'51 1°57'50
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58 2847 Feb 02 11:52 2847 Feb 16 04:15  2847 Feb 19 04:28 2847 Feb 19 04:26 2847 Feb 19 01:38 2847 Mar 07 23:25 2847 Jun 19 07:59 2847 Aug 29 02:00 2847 Aug 29 03:54 2847 Nov 06 11:12 2848 Feb 14 08:48	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38 28°≈22'15 0° ₩  0° ₩21'41 0° ₩21'40 0° ₩20'50 2° ₩21'48 9° ₩41'19 6° ₩19'39 6° ₩19'18 3° ₩00'33 10° ₩09'26	8.90928 AU -1°05'31 1°05'31 10.87811 AU -1°34'42 8.84354 AU -1°27'55	opposition min. Earth dist. direct evening set  conjunction minimum elong  max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09  2853 May 04 14:41 2853 May 04 14:43 2853 May 04 06:32 2853 May 04 15:57 2853 May 22 03:53 2853 Sep 05 20:24 2853 Nov 13 16:49 2853 Nov 13 15:36 2854 Jan 19 13:37 2854 May 01 02:43  2854 May 18 16:03 2854 May 18 16:05 2854 May 18 18:01	8°834'31 8°834'43 5°811'50 12°851'35 15°802'35 15°802'35 15°802'59 17°815'02 25°820'01 21°851'54 21°852'09 18°828'04 26°815'05 28°828'39 28°828'40 28°829'17	8.37807 AU  -2°08'56 2°08'55  10.33016 AU  -2°34'06 8.28707 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	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58 2847 Feb 02 11:52 2847 Feb 16 04:15  2847 Feb 19 04:28 2847 Feb 19 04:26 2847 Feb 19 01:38 2847 Mar 07 23:25 2847 Jun 19 07:59 2847 Aug 29 02:00 2847 Aug 29 03:54 2847 Nov 06 11:12 2848 Feb 14 08:48  2848 Mar 02 02:26 2848 Mar 02 02:24	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38 28°≈22'15 0° ₩  0° ₩21'41 0° ₩21'40 0° ₩20'50 2° ₩21'48 9° ₩41'19 6° ₩19'39 6° ₩19'18 3° ₩00'33 10° ₩09'26  12° ₩10'03 12° ₩10'02	8.90928 AU -1°05'31 1°05'31 10.87811 AU -1°34'42 8.84354 AU -1°27'55 1°27'56	opposition 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.	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09  2853 May 04 14:41 2853 May 04 14:43 2853 May 04 06:32 2853 May 04 15:57 2853 May 22 03:53 2853 Sep 05 20:24 2853 Nov 13 16:49 2853 Nov 13 15:36 2854 Jan 19 13:37 2854 May 01 02:43  2854 May 18 16:03 2854 May 18 16:05 2854 May 18 18:01 2854 May 30 15:03	8°834'31 8°834'43 5°831'150 12°851'35 15°802'35 15°802'35 15°802'59 17°815'02 25°820'01 21°851'54 21°852'09 18°828'04 26°815'05 28°828'39 28°828'40 28°829'17 0°II	8.37807 AU  -2°08'56 2°08'55  10.33016 AU  -2°34'06 8.28707 AU  -1°57'51 1°57'50
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.	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58 2847 Feb 02 11:52 2847 Feb 16 04:15  2847 Feb 19 04:28 2847 Feb 19 04:26 2847 Feb 19 01:38 2847 Mar 07 23:25 2847 Jun 19 07:59 2847 Aug 29 02:00 2847 Aug 29 03:54 2847 Nov 06 11:12 2848 Feb 14 08:48  2848 Mar 02 02:26 2848 Mar 02 02:24 2848 Mar 01 23:50	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38 28°≈22'15 0° ₩  0° ₩21'41 0° ₩21'40 0° ₩20'50 2° ₩21'48 9° ₩41'19 6° ₩19'39 6° ₩19'18 3° ₩00'33 10° ₩09'26  12° ₩10'03 12° ₩10'02 12° ₩09'15	8.90928 AU -1°05'31 1°05'31 10.87811 AU -1°34'42 8.84354 AU -1°27'55	opposition 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.	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09  2853 May 04 14:41 2853 May 04 14:43 2853 May 04 06:32 2853 May 04 15:57 2853 May 22 03:53 2853 Sep 05 20:24 2853 Nov 13 16:49 2853 Nov 13 15:36 2854 Jan 19 13:37 2854 May 01 02:43  2854 May 18 16:03 2854 May 18 16:05 2854 May 18 18:01 2854 May 30 15:03 2854 Jun 05 09:34	8°834'31 8°834'43 5°811'50 12°851'35 15°802'35 15°802'35 15°802'59 17°815'02 25°820'01 21°851'54 21°852'09 18°828'04 26°815'05 28°828'39 28°828'40 28°829'17 0°II 0°II43'33	8.37807 AU  -2°08'56 2°08'55  10.33016 AU  -2°34'06 8.28707 AU  -1°57'51 1°57'50
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	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58 2847 Feb 02 11:52 2847 Feb 16 04:15  2847 Feb 19 04:28 2847 Feb 19 04:26 2847 Feb 19 01:38 2847 Mar 07 23:25 2847 Jun 19 07:59 2847 Aug 29 02:00 2847 Aug 29 03:54 2847 Nov 06 11:12 2848 Feb 14 08:48  2848 Mar 02 02:26 2848 Mar 02 02:24	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38 28°≈22'15 0° ₩  0° ₩21'41 0° ₩21'40 0° ₩20'50 2° ₩21'48 9° ₩41'19 6° ₩19'39 6° ₩19'18 3° ₩00'33 10° ₩09'26  12° ₩10'03 12° ₩10'02	8.90928 AU -1°05'31 1°05'31 10.87811 AU -1°34'42 8.84354 AU -1°27'55 1°27'56	opposition 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.	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09  2853 May 04 14:41 2853 May 04 14:43 2853 May 04 06:32 2853 May 04 15:57 2853 May 22 03:53 2853 Sep 05 20:24 2853 Nov 13 16:49 2853 Nov 13 15:36 2854 Jan 19 13:37 2854 May 01 02:43  2854 May 18 16:03 2854 May 18 16:05 2854 May 18 18:01 2854 May 30 15:03	8°834'31 8°834'43 5°831'150 12°851'35 15°802'35 15°802'35 15°802'59 17°815'02 25°820'01 21°851'54 21°852'09 18°828'04 26°815'05 28°828'39 28°828'40 28°829'17 0°II	8.37807 AU  -2°08'56 2°08'55  10.33016 AU  -2°34'06 8.28707 AU  -1°57'51 1°57'50
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.	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58 2847 Feb 02 11:52 2847 Feb 16 04:15  2847 Feb 19 04:28 2847 Feb 19 04:26 2847 Feb 19 01:38 2847 Mar 07 23:25 2847 Jun 19 07:59 2847 Aug 29 02:00 2847 Aug 29 03:54 2847 Nov 06 11:12 2848 Feb 14 08:48  2848 Mar 02 02:26 2848 Mar 02 02:24 2848 Mar 01 23:50	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38 28°≈22'15 0° ₩  0° ₩21'41 0° ₩21'40 0° ₩20'50 2° ₩21'48 9° ₩41'19 6° ₩19'39 6° ₩19'18 3° ₩00'33 10° ₩09'26  12° ₩10'03 12° ₩10'02 12° ₩09'15	8.90928 AU -1°05'31 1°05'31 10.87811 AU -1°34'42 8.84354 AU -1°27'55 1°27'56	opposition 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.	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09  2853 May 04 14:41 2853 May 04 14:43 2853 May 04 06:32 2853 May 04 15:57 2853 May 22 03:53 2853 Sep 05 20:24 2853 Nov 13 16:49 2853 Nov 13 15:36 2854 Jan 19 13:37 2854 May 01 02:43  2854 May 18 16:03 2854 May 18 16:05 2854 May 18 18:01 2854 May 30 15:03 2854 Jun 05 09:34	8°834'31 8°834'43 5°811'50 12°851'35 15°802'35 15°802'35 15°802'59 17°815'02 25°820'01 21°851'54 21°852'09 18°828'04 26°815'05 28°828'39 28°828'40 28°829'17 0°II 0°II43'33	8.37807 AU  -2°08'56 2°08'55  10.33016 AU  -2°34'06 8.28707 AU  -1°57'51 1°57'50 10.24419 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	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58 2847 Feb 02 11:52 2847 Feb 16 04:15  2847 Feb 19 04:28 2847 Feb 19 04:26 2847 Feb 19 01:38 2847 Feb 19 07:59 2847 Jun 19 07:59 2847 Aug 29 02:00 2847 Aug 29 03:54 2847 Nov 06 11:12 2848 Feb 14 08:48  2848 Mar 02 02:26 2848 Mar 02 02:24 2848 Mar 01 23:50 2848 Mar 18 23:13	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38 28°≈22'15 0° ₩  0° ₩21'41 0° ₩20'50 2° ₩21'48 9° ₩41'19 6° ₩19'39 6° ₩19'18 3° ₩00'33 10° ₩09'26  12° ₩10'03 12° ₩10'02 12° ₩09'15 14° ₩11'35	8.90928 AU  -1°05'31 1°05'31 10.87811 AU  -1°34'42 8.84354 AU  -1°27'55 1°27'56 10.80477 AU	opposition 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.	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09  2853 May 04 14:41 2853 May 04 14:43 2853 May 04 06:32 2853 May 04 15:57 2853 May 22 03:53 2853 Sep 05 20:24 2853 Nov 13 16:49 2853 Nov 13 15:36 2854 Jan 19 13:37 2854 May 01 02:43  2854 May 18 16:03 2854 May 18 16:05 2854 May 18 18:01 2854 May 30 15:03 2854 Jun 05 09:34 2854 Sep 20 01:58	8°834'31 8°834'43 5°811'50 12°851'35 15°802'35 15°802'59 17°815'02 25°820'01 21°851'54 21°852'09 18°828'04 26°815'05 28°828'39 28°828'40 28°829'17 0°11 0°1143'33 8°1153'35 5°1124'54	8.37807 AU  -2°08'56 2°08'55  10.33016 AU  -2°34'06 8.28707 AU  -1°57'51 1°57'50 10.24419 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 retrograde	2846 Jun 06 19:29 2846 Aug 16 14:37 2846 Aug 16 16:21 2846 Oct 25 10:58 2847 Feb 02 11:52 2847 Feb 16 04:15  2847 Feb 19 04:28 2847 Feb 19 04:26 2847 Feb 19 01:38 2847 Mar 07 23:25 2847 Jun 19 07:59 2847 Aug 29 02:00 2847 Aug 29 03:54 2847 Nov 06 11:12 2848 Feb 14 08:48  2848 Mar 02 02:26 2848 Mar 02 02:24 2848 Mar 01 23:50 2848 Mar 18 23:13 2848 Jul 01 00:52	27°≈56'12 24°≈35'33 24°≈35'14 21°≈16'38 28°≈22'15 0° ₩  0° ₩21'41 0° ₩21'40 0° ₩20'50 2° ₩21'48 9° ₩41'19 6° ₩19'39 6° ₩19'18 3° ₩00'33 10° ₩09'26  12° ₩10'02 12° ₩10'02 12° ₩9'15 14° ₩11'35 21° ₩38'17 18° ₩15'28	8.90928 AU  -1°05'31 1°05'31 10.87811 AU  -1°34'42 8.84354 AU  -1°27'55 1°27'56 10.80477 AU	opposition 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 retrograde opposition	2852 Oct 31 02:44 2852 Oct 31 01:40 2853 Jan 06 06:32 2853 Apr 17 06:09  2853 May 04 14:41 2853 May 04 14:43 2853 May 04 06:32 2853 May 04 15:57 2853 May 22 03:53 2853 Sep 05 20:24 2853 Nov 13 16:49 2853 Nov 13 15:36 2854 Jan 19 13:37 2854 May 01 02:43  2854 May 18 16:03 2854 May 18 16:05 2854 May 18 18:01 2854 May 30 15:03 2854 Jun 05 09:34 2854 Sep 20 01:58 2854 Nov 27 11:01	8°834'31 8°834'43 5°811'50 12°851'35 15°802'35 15°802'59 17°815'02 25°820'01 21°851'54 21°852'09 18°828'04 26°815'05 28°828'39 28°828'40 28°829'17 0°11 0°1143'33 8°1153'35 5°1124'54	8.37807 AU  -2°08'56 2°08'55  10.33016 AU  -2°34'06 8.28707 AU  -1°57'51 1°57'50 10.24419 AU  -2°16'16

evening set	2855 May 15 07:31	9° <b>Ⅱ</b> 53'52		retrograde	2860 Dec 12 15:18 2861 Feb 05 22:07	2°Mp31′04 30°RΩ	
conjunction	2855 Jun 02 01:39	12° <b>Ⅱ</b> 09'50	-1°39'59	opposition	2861 Feb 17 07:45	29° <b>Ω</b> 04'50	1°17'11
minimum elong	2855 Jun 02 01:43	12° <b>Ⅱ</b> 09'51		min. Earth dist.	2861 Feb 17 05:22	29° <b>Ω</b> 05'19	8.16899 AU
max. Earth dist.	2855 Jun 02 04:25	12° <b>Ⅱ</b> 10'44	10.17135 AU	direct	2861 Apr 26 06:02	25° <b>Ω</b> 35'35	
morning rise	2855 Jun 19 23:14	14° <b>Ⅱ</b> 26'57			2861 Jul 09 08:18	0° <b>m</b> )	
retrograde	2855 Oct 04 10:41	22° <b>Ⅱ</b> 40′23		evening set	2861 Aug 10 03:49	3° m 43'38	
opposition	2855 Dec 11 08:38	19° <b>Ⅱ</b> 11'24	-1°50'20	-	•		
min. Earth dist.	2855 Dec 11 06:13	19° <b>Ⅱ</b> 11'53	8.14213 AU	conjunction	2861 Aug 28 03:20	6° <b>™</b> 00'31	1°15'44
direct	2856 Feb 15 23:07	15° <b>Ⅱ</b> 45'18		minimum elong	2861 Aug 28 03:17	6° № 00'30	1°15'44
evening set	2856 May 28 20:04	23° <b>Ⅱ</b> 45'29		max. Earth dist.	2861 Aug 28 05:52	6° <b>™</b> 01'19	10.20341 AU
				morning rise	2861 Sep 14 23:47	8°M/16'26	
conjunction	2856 Jun 15 18:31	26° <b>Ⅲ</b> 03'31	-1°16'08	retrograde	2861 Dec 26 07:14	16°Mp08'37	
minimum elong	2856 Jun 15 18:34	26° <b>Ⅲ</b> 03'32	1°16'08	opposition	2862 Mar 03 01:15	12°M/43'29	1°49'18
max. Earth dist.	2856 Jun 15 21:47	26° <b>Ⅱ</b> 04'34	10.11667 AU	min. Earth dist.	2862 Mar 02 22:41	12°M/44'00	8.24285 AU
morning rise	2856 Jul 03 19:30	28° <b>Ⅲ</b> 22'24		direct	2862 May 10 10:52	9° <b>™</b> 14'27	
	2856 Jul 16 22:45	0°ಅ		evening set	2862 Aug 24 14:49	17° <b>m</b> 18'34	
retrograde	2856 Oct 17 21:20	6° <b>ॐ</b> 37'05					
opposition	2856 Dec 24 08:33	3° <b>5</b> 08'06	-1°17'34	conjunction	2862 Sep 11 10:30	19° <b>m</b> 33'08	1°39'13
min. Earth dist.	2856 Dec 24 05:47	3° <b>5</b> 08'40	8.09794 AU	minimum elong	2862 Sep 11 10:27	19° <b>m</b> 33'07	1°39'13
	2857 Feb 10 11:45	30°RⅡ		max. Earth dist.	2862 Sep 11 13:05	19° <b>m</b> 33'57	10.28511 AU
direct	2857 Feb 28 23:10	29° <b>Ⅱ</b> 40'58		morning rise	2862 Sep 29 02:14	21° <b>m</b> 46'29	
	2857 Mar 19 10:04	0		retrograde	2863 Jan 08 17:18	29° <b>m</b> 30'51	
evening set	2857 Jun 12 14:38	7° <b>©</b> 46'12		opposition	2863 Mar 16 14:26	26°M 06'53	2°14'47
				min. Earth dist.	2863 Mar 16 12:15	26°Mp07'19	8.33176 AU
conjunction	2857 Jun 30 16:21	10°905'40		direct	2863 May 24 11:42	22° <b>m</b> 38'21	
minimum elong	2857 Jun 30 16:23	10° <b>©</b> 05'41	0°47'34		2863 Sep 02 15:50	0∘ <b>⊽</b>	
max. Earth dist.	2857 Jun 30 19:34	10° <b>©</b> 06'42	10.08451 AU	evening set	2863 Sep 07 17:26	0° <b>ჲ</b> 37'06	
morning rise	2857 Jul 18 19:34	12° <b>©</b> 25'38				_	
retrograde	2857 Nov 01 07:54	20° <b>©</b> 39'21		conjunction	2863 Sep 25 08:44	2° <b>Ω</b> 49'03	1°56'58
opposition	2858 Jan 07 09:50	17°5010'41		minimum elong	2863 Sep 25 08:41	2° <b>Ω</b> 49'03	1°56'58
min. Earth dist.	2858 Jan 07 07:12	17°511'14	8.07786 AU	max. Earth dist.	2863 Sep 25 10:51	2° <b>Ω</b> 49'43	10.37931 AU
direct	2858 Mar 15 03:23	13°542'38		morning rise	2863 Oct 12 19:32	4° <b>£</b> 59'40	
evening set	2858 Jun 27 12:52	21° <b>©</b> 51'22		retrograde	2864 Jan 21 18:42	12° <b>£</b> 36'03	2022126
	2050 1 1 15 16 24	240611127	001 (10.5	opposition	2864 Mar 28 22:58	9° <b>£</b> 13′20	2°32'36
conjunction	2858 Jul 15 16:24	24°511'27		min. Earth dist.	2864 Mar 28 21:47	9° <b>£</b> 13'34	8.43053 AU
minimum elong	2858 Jul 15 16:24	24°911'27	0°16'05	direct	2864 Jun 06 08:44	5° <b>Ω</b> 45'31	
max. Earth dist.	2858 Jul 15 19:26		10.07743 AU	evening set	2864 Sep 20 10:46	13° <b>≏</b> 37'49	
morning rise	2858 Aug 02 20:18	26°531'39		agnismation	2064 Oct 07 21:25	150 0 47105	2000121
ratragrada	2858 Aug 31 20:30 2858 Nov 15 15:57	0°Ω 4°Ω42'18		conjunction minimum elong	2864 Oct 07 21:25 2864 Oct 07 21:24	15° <b>Ω</b> 47'05 15° <b>Ω</b> 47'04	2°08'21 2°08'20
retrograde asc. node	2859 Jan 19 18:51	1° <b>Ω</b> 22'31		max. Earth dist.	2864 Oct 07 22:23		10.48075 AU
opposition	2859 Jan 21 11:01	1° <b>Ω</b> 14'14	0°00'11	morning rise	2864 Oct 25 03:30	13 <b>=</b> 47 23 17° <b>£</b> 54'58	10.46073 AU
min. Earth dist.	2859 Jan 21 11:01 2859 Jan 21 08:37	1° <b>Ω</b> 14'44	8.08355 AU	retrograde	2865 Feb 02 13:49	25° <b>£</b> 23'39	
iiiii. Lattii dist.	2859 Feb 05 19:46	30°Rூ	6.06333 AC	opposition	2865 Apr 11 02:34	23° <b>⊆</b> 23'37 22° <b>⊆</b> 02'07	2°42'19
direct	2859 Mar 29 11:53	27°945'30		min. Earth dist.	2865 Apr 11 02:25	22° <b>⊆</b> 02'09	8.53390 AU
direct	2859 May 19 05:04	0°Ω		direct	2865 Jun 19 23:38	18° <b>⊆</b> 35'17	0.55570710
evening set	2859 Jul 12 12:19	5° <b>Ω</b> 55'56		evening set	2865 Oct 03 18:12	26° <b>£</b> 20'25	
conjunction	2859 Jul 30 16:03	8° <b>Ω</b> 15'45	0°16'22	conjunction	2865 Oct 21 00:30	28° <b>≏</b> 27'06	2°13'10
minimum elong	2859 Jul 30 16:02	8° <b>Ω</b> 15'45	0°16'22	minimum elong	2865 Oct 21 00:30	28° <b>≏</b> 27'06	
max. Earth dist.	2859 Jul 30 18:47		10.09605 AU	max. Earth dist.	2865 Oct 21 00:02		10.58436 AU
morning rise	2859 Aug 17 19:00	10° <b>Ω</b> 35'18			2865 Nov 02 15:20	0°M	
	2859 Sep 24 18:37	15° <b>Ω</b>		morning rise	2865 Nov 07 02:26	0°M32'27	
retrograde	2859 Nov 29 18:10	18° <b>Ω</b> 41'02		retrograde	2866 Feb 15 03:06	7°M54'00	
opposition	2860 Feb 04 10:39	15° <b>Ω</b> 13'48	0°40'04	opposition	2866 Apr 24 01:20	4°M33'34	2°44'01
min. Earth dist.	2860 Feb 04 08:28	15° <b>Ω</b> 14'15	8.11468 AU	min. Earth dist.	2866 Apr 24 01:28	4°M33'32	8.63680 AU
	2860 Feb 07 05:55	15°R <b>Ω</b>		direct	2866 Jul 03 07:52	1°M07'52	
direct	2860 Apr 11 21:39	11° <b>Ω</b> 44'39		evening set	2866 Oct 16 15:47	8°M45'30	
	2860 Jun 13 04:38	15° <b>Ω</b>					
evening set	2860 Jul 26 10:13	19° <b>Ω</b> 54'51		conjunction	2866 Nov 02 18:24	10°M49'52	2°11'38
				minimum elong	2866 Nov 02 18:24	10°M49'53	2°11'38
conjunction	2860 Aug 13 12:34	22° <b>Ω</b> 13'34	0°47'36	max. Earth dist.	2866 Nov 02 17:26	10°M49'35	10.68518 AU
minimum elong	2860 Aug 13 12:32	22° <b>Ω</b> 13'33	0°47'36	morning rise	2866 Nov 19 16:50	12°M53'00	
max. Earth dist.	2860 Aug 13 14:59	22° <b>Ω</b> 14′21	10.13904 AU		2866 Dec 08 00:56	15°M	
morning rise	2860 Aug 31 12:57	24° <b>Ω</b> 31'38		retrograde	2867 Feb 27 10:24	20°M08'15	
	2860 Oct 20 00:32	0°Щ		opposition	2867 May 06 19:30	16°M48'46	2°38'08

min. Earth dist.	2867 May 06 19:38		8.73434 AU	direct	2873 Sep 26 13:37	23° <b>පි</b> 20'19	
T	2867 May 31 19:48	15°RM		desc. node	2873 Dec 18 19:56	28° <b>る</b> 24'10	
direct	2867 Jul 16 11:04	13°M24'19 15°M		ovening set	2874 Jan 02 04:26	0° <b>≈</b> 0° <b>≈</b> 23'09	
evening set	2867 Aug 30 03:34 2867 Oct 29 04:35	20°M54'34		evening set	2874 Jan 05 12:43	0 ≈23 09	
evening set	2807 OCT 29 04.33	20 1163434		conjunction	2874 Jan 22 04:25	2° <b>≈</b> 20'48	-0°02'30
conjunction	2867 Nov 15 04:08	22°M56'55	2°04'11	minimum elong	2874 Jan 22 04:23	2°≈20'48	
minimum elong	2867 Nov 15 04:09	22°M56'56	2°04'11	behind sun begin	2874 Jan 21 21:25	2°≈18'45	
max. Earth dist.	2867 Nov 15 03:14	22°M56'39	10.77853 AU	behind sun end	2874 Jan 22 11:22	2° <b>≈</b> 22'50	
morning rise	2867 Dec 01 23:41	24°M58'09		max. Earth dist.	2874 Jan 22 00:51	2° <b>≈</b> 19'48	11.00863 AU
	2868 Jan 19 20:54	0° <b>∡</b> ¹		morning rise	2874 Feb 07 20:28	4° <b>≈</b> 18'35	
retrograde	2868 Mar 10 15:27	2° <b>≯</b> 108'06		retrograde	2874 May 20 09:56	11° <b>≈</b> 24'27	
	2868 May 02 12:51	30°RM₊		opposition	2874 Jul 30 02:46	8° <b>≈</b> 05'44	
opposition	2868 May 18 09:38	28°M49'27	2°25'25	min. Earth dist.	2874 Jul 30 06:03	8°≈05'07	8.99518 AU
min. Earth dist.	2868 May 18 10:09	28°M49'21	8.82222 AU	direct	2874 Oct 08 11:26	4°≈47'16	
direct	2868 Jul 28 06:45 2868 Oct 15 01:18	25° <b>M</b> .26'15 0° <b>∡</b> 7		evening set	2875 Jan 17 00:37	11°≈50'00	
evening set	2868 Nov 09 09:33	0 <b>x</b> ⁴ 2° <b>x</b> ⁴49'32		conjunction	2875 Feb 02 16:21	13° <b>≈</b> 48′03	-0°28'59
evening set	2808 1107 09 09.33	2 🗡 49 32		minimum elong	2875 Feb 02 16:20	13°≈48'02	
conjunction	2868 Nov 26 06:34	4° <b>₹</b> ′50'14	1°51'28	max. Earth dist.	2875 Feb 02 12:04		10.97636 AU
minimum elong	2868 Nov 26 06:36	4° <b>∡</b> 750'15	1°51'29		2875 Feb 12 18:50	15° <b>≈</b>	
max. Earth dist.	2868 Nov 26 05:26	4° <b>∡</b> ¹49'54	10.86045 AU	morning rise	2875 Feb 19 09:22	15° <b>≈</b> 46′28	
morning rise	2868 Dec 13 00:04	6° <b>∡</b> 149'57		retrograde	2875 Jun 01 14:33	22° <b>≈</b> 56'46	
retrograde	2869 Mar 22 16:31	13° <b>х</b> 55'47		opposition	2875 Aug 11 10:05	19° <b>≈</b> 37'10	-0°51'25
opposition	2869 May 30 20:36	10° <b>∡</b> ³37'45	2°06'45	min. Earth dist.	2875 Aug 11 13:27	19° <b>≈</b> 36′32	8.95238 AU
min. Earth dist.	2869 May 30 22:11	10° <b>∡</b> ³37′28	8.89697 AU	direct	2875 Oct 20 11:21	16° <b>≈</b> 18'46	
direct	2869 Aug 09 19:54	7° <b>∡</b> 15'45		evening set	2876 Jan 28 14:58	23° <b>≈</b> 22'51	
evening set	2869 Nov 21 07:48	14° <b>∡</b> ³32'45			205651 14 05 14	250 21110	0054122
	20/07 00 02 4/	1.00 722100	102415	conjunction	2876 Feb 14 07:14	25°≈21'40	
conjunction	2869 Dec 08 02:46 2869 Dec 08 02:48	16° <b>₹</b> 32'08 16° <b>₹</b> 32'09	1°34'15 1°34'15	minimum elong max. Earth dist.	2876 Feb 14 07:12	25°≈21'40	10.92336 AU
minimum elong max. Earth dist.	2869 Dec 08 02:48 2869 Dec 08 00:26		1 34 13 10.92776 AU	morning rise	2876 Feb 14 03:39 2876 Mar 02 01:21	23 ≈20 36 27°≈21'05	10.92556 AU
morning rise	2869 Dec 24 19:04	18° 🗷 30'46	10.92770 AU	morning risc	2876 Mar 25 19:31	27 <b>≈</b> 21 03	
retrograde	2870 Apr 03 13:56	25°×733'46		retrograde	2876 Jun 13 01:38	4° <b>)</b> (37'11	
opposition	2870 Jun 12 04:50	22° <b>∡</b> 16'07	1°43'09	opposition	2876 Aug 22 20:00	1° <b>)</b> 16′29	-1°21'48
min. Earth dist.	2870 Jun 12 07:08	22° <b>х</b> 15'41	8.95573 AU	min. Earth dist.	2876 Aug 22 22:35	1° <b>)</b> 16′00	8.89007 AU
direct	2870 Aug 22 06:11	18° <b>∡</b> 55'11			2876 Sep 09 08:06	30° <b>R</b> ≈	
evening set	2870 Dec 03 00:59	26° <b>х</b> 06′52		direct	2876 Oct 31 11:12	27° <b>≈</b> 57'56	
					2876 Dec 20 09:43	0° <b>∀</b>	
conjunction	2870 Dec 19 18:31		1°13'21	evening set	2877 Feb 08 09:32	5° <b>)</b> €04'47	
minimum elong	2870 Dec 19 18:33	28° <b>∡</b> *05'19 −	1°13'20				
max. Earth dist.	2870 Dec 19 15:27		10.97789 AU	conjunction	2877 Feb 25 02:42	7° <b>)</b> €04'42	
marning rise	2871 Jan 04 23:13 2871 Jan 05 10:10	0°る 0°る03'11		minimum elong max. Earth dist.	2877 Feb 25 02:40 2877 Feb 24 23:40	7° <b>)</b> €04'41	1°18'09 10.85218 AU
morning rise retrograde	2871 Apr 15 11:34	7°る03'11		morning rise	2877 Mar 13 22:22	9° <b>H</b> 05'25	10.83218 AU
opposition	2871 Jun 24 10:53	3°る47'12	1°15'39	retrograde	2877 Jun 25 16:41	16° <b>¥</b> 28′25	
min. Earth dist.	2871 Jun 24 13:07	3°₹46'47	8.99622 AU	opposition	2877 Sep 04 09:11	13° <b>¥</b> 06′28	-1°49'14
direct	2871 Sep 03 12:03	0° <b>る</b> 27'12		min. Earth dist.	2877 Sep 04 11:14	13° <b>)</b> €06'05	8.81128 AU
evening set	2871 Dec 14 14:29	7° <b>る</b> 34'40		direct	2877 Nov 12 12:49	9° <b>)</b> 47′29	
				evening set	2878 Feb 20 09:32	16° <b>¥</b> 58′26	
conjunction	2871 Dec 31 07:07	9° <b>ප</b> 32'30	0°49'40				
minimum elong	2871 Dec 31 07:09	9° <b>ප</b> 32'31	0°49'39	conjunction	2878 Mar 09 03:59	18° <b>¥</b> 59'46	
max. Earth dist.	2871 Dec 31 04:34		11.00886 AU	minimum elong	2878 Mar 09 03:57	18° <b>)</b> 59'45	
morning rise	2872 Jan 16 22:25	11° <b>る</b> 30'00		max. Earth dist.	2878 Mar 09 00:39		10.76620 AU
retrograde	2872 Apr 26 09:28	18° <b>る</b> 31'33	0045100	morning rise	2878 Mar 26 01:48	21° <b>)</b> (02'08	
opposition	2872 Jul 05 16:05	15° <b>る</b> 13'52		retrograde	2878 Jul 08 14:21	28° <b>¥</b> 32'51	2012120
min. Earth dist. direct	2872 Jul 05 17:56 2872 Sep 14 14:01	15°る13'31 11°る54'37	9.01686 AU	opposition min. Earth dist.	2878 Sep 17 02:26 2878 Sep 17 04:35	25°¥09'33	-2°12′28 8.71952 AU
evening set	2872 Sep 14 14:01 2872 Dec 25 01:47	11°65437 18° <b>る</b> 59'05		direct	2878 Nov 24 18:43	23° <b>X</b> 09'09 21° <b>X</b> 49'52	0.71734 AU
ovening set	20/2 DCC 23 01.4/	10 03903		evening set	2879 Mar 04 16:02	21 X 49 32 29° <b>X</b> 06'05	
conjunction	2873 Jan 10 17:50	20°පි56'40	0°24'06	evening sec	2879 Mar 12 02:20	29 <b>γ</b> (00 03	
minimum elong	2873 Jan 10 17:51	20°පි56'40	0°24'06			•	
max. Earth dist.	2873 Jan 10 15:21		11.01936 AU	conjunction	2879 Mar 21 12:23	1° <b>Y</b> 09'09	-1°55'21
morning rise	2873 Jan 27 09:15	22° <b>る</b> 54'07		minimum elong	2879 Mar 21 12:21	1° <b>Y</b> 09'08	1°55'21
retrograde	2873 May 08 09:43	29° <b>る</b> 57'07		max. Earth dist.	2879 Mar 21 09:21		10.66919 AU
opposition	2873 Jul 17 21:11	26° <b>පි</b> 39'02		morning rise	2879 Apr 07 12:47	3° <b>Y</b> 13′27	
min. Earth dist.	2873 Jul 17 23:31	26° <b>る</b> 38'37	9.01671 AU	retrograde	2879 Jul 21 18:05	10° <b>Y</b> 52′27	

annagition	2070 Can 20 00:10	7° <b>Ƴ</b> 27'45	2920112	morning rigo	2885 Jun 27 12:08	22° <b>Ⅱ</b> 21'49	
opposition	2879 Sep 30 00:10	7° <b>Υ</b> 27'43		morning rise		0°95	
min. Earth dist.	2879 Sep 30 02:02	4° <b>Υ</b> 07'12	8.61886 AU	rotro ara do	2885 Sep 15 14:15	0°936'59	
direct	2879 Dec 07 04:33	11° <b>Υ</b> 29'40		retrograde	2885 Oct 11 18:27	0°≌3639 30°R∏	
evening set	2880 Mar 16 06:07	11- 1 29 40		*,*	2885 Nov 07 00:52	•	1022100
	2000 4 02 05 12	1200024447	2007155	opposition	2885 Dec 18 10:59	27° <b>I</b> 107'21	
conjunction	2880 Apr 02 05:13	13° <b>Y</b> '34'47		min. Earth dist.	2885 Dec 18 08:50		8.09652 AU
minimum elong	2880 Apr 02 05:12			direct	2886 Feb 23 01:38	23° <b>Ⅱ</b> 40'02	
max. Earth dist.	2880 Apr 02 03:32		10.56550 AU		2886 May 23 08:56	0°©	
morning rise	2880 Apr 19 08:39	15° <b>Y</b> 41′16		evening set	2886 Jun 06 08:01	1° <b>©</b> 43'53	
retrograde	2880 Aug 03 03:19	23° <b>Y</b> ′28'43					
opposition	2880 Oct 12 02:40	20° <b>Y</b> ′02'38		conjunction	2886 Jun 24 08:26	4°503'01	
min. Earth dist.	2880 Oct 12 03:33	20° <b>Y</b> ′02′28	8.51380 AU	minimum elong	2886 Jun 24 08:29	4°503'02	
direct	2880 Dec 18 21:35	16° <b>Y</b> 41′05		max. Earth dist.	2886 Jun 24 11:46		10.07871 AU
evening set	2881 Mar 29 04:37	24° <b>Ƴ</b> 10'31		morning rise	2886 Jul 12 11:00	6° <b>©</b> 22'49	
				retrograde	2886 Oct 26 05:05	14° <b>©</b> 37'57	
conjunction	2881 Apr 15 07:13	26° <b>Y</b> 18′00		opposition	2887 Jan 01 12:10	11° <b>©</b> 08'34	
minimum elong	2881 Apr 15 07:13	26° <b>Y</b> 18′00	2°12'35	min. Earth dist.	2887 Jan 01 09:04	11° <b>©</b> 09'12	8.06788 AU
max. Earth dist.	2881 Apr 15 07:09		10.45980 AU	direct	2887 Mar 09 04:58	7° <b>©</b> 40'24	
morning rise	2881 May 02 14:13	28° <b>Y</b> 26′54		evening set	2887 Jun 21 04:56	15° <b>5</b> 48'21	
	2881 May 15 12:48	$0^{\circ}B$					
retrograde	2881 Aug 16 20:55	6° <b>8</b> 22'28		conjunction	2887 Jul 09 08:01	18° <b>©</b> 08'29	-0°30'30
opposition	2881 Oct 25 10:04	2° <b>8</b> 55'09	-2°44'35	minimum elong	2887 Jul 09 08:03	18° <b>©</b> 08'29	0°30'30
min. Earth dist.	2881 Oct 25 09:38	2° <b>8</b> 55'14	8.40909 AU	max. Earth dist.	2887 Jul 09 12:26	18° <b>©</b> 09'54	10.06305 AU
	2881 Dec 09 02:27	30° <b>ŖƳ</b>		morning rise	2887 Jul 27 11:57	20° <b>©</b> 28'53	
direct	2881 Dec 31 19:12	29° <b>Ƴ</b> 32'29		retrograde	2887 Nov 09 14:50	28° <b>©</b> 41'51	
	2882 Jan 23 05:19	$_{0\circ}$ 8		opposition	2888 Jan 15 13:53	25° <b>©</b> 13'02	-0°17'59
evening set	2882 Apr 11 12:11	7° <b>呂</b> 09'20		min. Earth dist.	2888 Jan 15 10:04	25° <b>©</b> 13'49	8.06497 AU
				direct	2888 Mar 22 11:47	21° <b>5</b> 644'15	
conjunction	2882 Apr 28 18:50	9° <b>8</b> 19'21	-2°11'41	asc. node	2888 Jul 02 01:11	29° <b>©</b> 30'52	
minimum elong	2882 Apr 28 18:51	9° <b>8</b> 19'22	2°11'40	evening set	2888 Jul 05 04:39	29° <b>©</b> 54'41	
max. Earth dist.	2882 Apr 28 19:38	9° <b>8</b> 19'36	10.35709 AU		2888 Jul 05 21:24	$0^{\circ}\Omega$	
morning rise	2882 May 16 05:54	11° <b>8</b> 30'49					
-	2882 Jun 15 04:55	15° <b>8</b>		conjunction	2888 Jul 23 08:46	2° <b>Ω</b> 14'56	0°01'53
retrograde	2882 Aug 30 21:02	19° <b>8</b> 33'40		minimum elong	2888 Jul 23 08:46	2° <b>Ω</b> 14'56	0°01'53
opposition	2882 Nov 07 22:15	16° <b>8</b> 05'19	-2°39'26	behind sun begin	2888 Jul 23 01:24	2° <b>£</b> 12'34	
min. Earth dist.	2882 Nov 07 20:59	16° <b>8</b> 05'34	8.30985 AU	behind sun end	2888 Jul 23 16:08	2° <b>Ω</b> 17'17	
	2882 Nov 21 19:00	15°R <b>∀</b>		max. Earth dist.	2888 Jul 23 13:39		10.07339 AU
direct	2883 Jan 13 21:57	12° <b>8</b> 41'28		morning rise	2888 Aug 10 12:22	4° <b>£</b> 35′03	
	2883 Mar 06 06:19	15°8		retrograde	2888 Nov 22 20:59	12°Ω43'50	
evening set	2883 Apr 25 04:51	20° <b>8</b> 25'53		opposition	2889 Jan 28 14:44	9° <b>Ω</b> 15'56	0°22'24
		_,,		min. Earth dist.	2889 Jan 28 10:45	9° <b>Ω</b> 16'45	8.08815 AU
conjunction	2883 May 12 15:59	22° <b>8</b> 38'30	-2°03'46	direct	2889 Apr 05 20:22	5°Ω46'49	0.00012110
minimum elong	2883 May 12 16:02	22° <b>8</b> 38'31		evening set	2889 Jul 20 04:13	13° <b>Ω</b> 57'53	
max. Earth dist.	2883 May 12 17:11		10.26273 AU	evening sec	2889 Jul 28 07:19	15° <b>Ω</b>	
morning rise	2883 May 30 07:31	24° <b>8</b> 52'33	10.20273110		2009 041 20 07.19	10 00	
morning rise	2883 Jul 15 06:30	0°Ⅱ		conjunction	2889 Aug 07 07:35	16° <b>Ω</b> 17'21	0°33'53
retrograde	2883 Sep 14 01:54	3° <b>Ⅱ</b> 01'21		minimum elong	2889 Aug 07 07:33	16° <b>Ω</b> 17'21	0°33'53
retrograde	2883 Nov 15 21:24	30°R <b>8</b>		max. Earth dist.	2889 Aug 07 12:26		10.10918 AU
opposition	2883 Nov 13 21:24 2883 Nov 21 15:04	29° <b>8</b> 32'15	-2°25'31	morning rise	2889 Aug 25 09:13	18° <b>Ω</b> 36'18	10.10710 AU
min. Earth dist.	2883 Nov 21 13:28		8.22144 AU	retrograde	2889 Dec 06 22:36	26° <b>Ω</b> 39'20	
direct	2884 Jan 27 08:33	26° <b>8</b> 07'10	0.22144710	opposition	2890 Feb 11 13:47	23°Ω12'35	1°01'06
direct	2884 Apr 04 02:20	0°II		min. Earth dist.	2890 Feb 11 10:14	23° <b>Ω</b> 13'18	8.13605 AU
evening set	2884 May 08 06:12	3° <b>∏</b> 58'52		direct	2890 Apr 20 04:49	19° <b>Ω</b> 43'24	0.13003 AC
evening set	2004 May 00 00.12	3 113832				27° <b>Ω</b> 53'07	
conjunction	2884 May 25 22:09	6° <b>Ⅱ</b> 14'02	_1°18'51	evening set	2890 Aug 04 00:40 2890 Aug 20 15:14	0°m)	
minimum elong	2884 May 25 22:12	6° <b>Ⅱ</b> 14'02			2090 Aug 20 13.14	V III	
•	-		1 48 33 10.18190 AU	agniumation	2000 Aug 22 01:20	0°m 11'02	1°03'39
max. Earth dist.	2884 May 25 23:47 2884 Jun 12 18:08	8° <b>П</b> 30'28	10.10170 AU	conjunction minimum elong	2890 Aug 22 01:39	0° Mp 11'02 0° Mp 11'01	1°03'39 1°03'39
morning rise		8°Щ30'28 16°Щ43'29		Č	2890 Aug 22 01:37		
retrograde	2884 Sep 27 08:54		2002105	max. Earth dist.	2890 Aug 22 05:53	0° Mp 12'23	10.16821 AU
opposition	2884 Dec 04 11:39	13° <b>Ⅱ</b> 13'56		morning rise	2890 Sep 08 23:58	2° Mp 28'05	
min. Earth dist.	2884 Dec 04 09:53		8.14886 AU	retrograde	2890 Dec 20 18:20	10° Mp 24'09	1025142
direct	2885 Feb 09 02:37	9° <b>Ⅱ</b> 47'41		opposition	2891 Feb 25 09:45	6° Mp 58'40	1°35'42
evening set	2885 May 22 15:47	17° <b>Ⅱ</b> 45'59		min. Earth dist.	2891 Feb 25 06:55	6° Mp 59'14	8.20566 AU
	2005 1 00 12 12	200110222	1007206	direct	2891 May 04 11:58	3° Mp 29'44	
conjunction	2885 Jun 09 12:19	20° <b>Ⅱ</b> 03'24		evening set	2891 Aug 18 15:43	11° <b>m</b> 36'15	
minimum elong	2885 Jun 09 12:22	20° <b>I</b> I03'25			2001 0 07 12 02	120% 51150	1020124
max. Earth dist.	2885 Jun 09 14:34	∠0° <b>Щ</b> 04′07	10.11924 AU	conjunction	2891 Sep 05 13:09	13° <b>m</b> 51'58	1~29'24

minimum elong	2891 Sep 05 13:06	13° <b>m</b> 51'57	1°29'23	minimum elong	2897 Nov 21 12:05	0° <b>∡</b> °00'45	1°57'24
max. Earth dist.	2891 Sep 05 16:14		10.24678 AU	max. Earth dist.	2897 Nov 21 08:45		10.82373 AU
morning rise	2891 Sep 23 07:10	16° Mp 06'36			2897 Nov 21 09:35	0° <b>∡</b> 7	
retrograde	2892 Jan 03 06:42	23° <b>m</b> 54'52		morning rise	2897 Dec 08 06:34	2° <b>∡</b> *01'11	
opposition	2892 Mar 10 01:31	20° m/30'43	2°04'19	retrograde	2898 Mar 17 22:07	9° <b>∡</b> 09'11	
min. Earth dist.	2892 Mar 09 23:08	20° Mp 31'11	8.29252 AU	opposition	2898 May 25 22:04	5° <b>₹</b> 51'04	2°15'16
direct	2892 May 17 16:43	17° <b>m</b> y 02'17		min. Earth dist.	2898 May 26 00:17	5° <b>₹</b> 50'39	8.86130 AU
evening set	2892 Aug 31 23:08	25° Mp 03'56		direct	2898 Aug 04 20:36	2° <b>≯</b> 28'38	
				evening set	2898 Nov 16 15:37	9° <b>∡</b> ¹48'53	
conjunction	2892 Sep 18 16:18	27° Mp 17'05	1°49'48			_	
minimum elong	2892 Sep 18 16:15	27° <b>m</b> ) 17'04	1°49'47	conjunction	2898 Dec 03 11:34	11° <b>∡</b> °48'57	1°41'59
max. Earth dist.	2892 Sep 18 18:30		10.33993 AU	minimum elong	2898 Dec 03 11:36	11° <b>∡</b> °48′58	1°41'59
morning rise	2892 Oct 06 05:29	29° <b>m</b> 28'59		max. Earth dist.	2898 Dec 03 08:30		10.89302 AU
	2892 Oct 10 10:34	0∘ <b>⊽</b>		morning rise	2898 Dec 20 04:26	13° <b>∡</b> 48′09	
retrograde	2893 Jan 15 11:12	7° <b>≙</b> 09'09		retrograde	2899 Mar 29 22:21	20° <b>₹</b> 52'51	
opposition	2893 Mar 23 12:44	3° <b>£</b> 46'18	2°25'35	opposition	2899 Jun 07 07:49	17° <b>₹</b> 35'01	1°53'38
min. Earth dist.	2893 Mar 23 10:36	3° <b>≏</b> 46'43	8.39113 AU	min. Earth dist.	2899 Jun 07 10:06	17° <b>∡</b> ³34'35 −	8.92241 AU
direct	2893 May 31 17:23	0° <b>≏</b> 18'36		direct	2899 Aug 17 09:29	14° <b>∡</b> 13'31 −	
evening set	2893 Sep 14 21:11	8° <b>£</b> 14'02		evening set	2899 Nov 28 11:22	21° <b>≯</b> 28'04	
conjunction	2893 Oct 02 09:51	10° <b>≏</b> 24'28	2°04'01	conjunction	2899 Dec 15 05:43	23° <b>∡</b> ¹27'05	1°22'32
minimum elong	2893 Oct 02 09:49	10° <b>≙</b> 24'27	2°04'01	minimum elong	2899 Dec 15 05:45	23° <b>∡</b> ¹27′05	1°22'31
max. Earth dist.	2893 Oct 02 11:28	10° <b>≙</b> 24'58	10.44184 AU	max. Earth dist.	2899 Dec 15 02:39	23° <b>∡</b> ¹26′10	10.94598 AU
morning rise	2893 Oct 19 18:05	12° <b>≏</b> 33'32		morning rise	2899 Dec 31 21:31	25° <b>₹</b> 25'24	
retrograde	2894 Jan 28 10:35	20° <b>≙</b> 05'44			2900 Feb 14 05:48	5°0	
opposition	2894 Apr 05 18:57	16° <b>≏</b> 44'06	2°38'52	retrograde	2900 Apr 10 21:24	2° <b>る</b> 28'04	
min. Earth dist.	2894 Apr 05 17:14	16° <b>≏</b> 44'26	8.49529 AU	-	2900 Jun 08 09:11	30°₽ <b>⋌</b> ¹	
direct	2894 Jun 14 10:48	13° <b>≏</b> 17'20		opposition	2900 Jun 19 15:20	29° <b>∡</b> 10′18	1°27'39
evening set	2894 Sep 28 09:26	21° <b>≏</b> 05'43		min. Earth dist.	2900 Jun 19 18:17	29° <b>₹</b> 09'46	8.96622 AU
				direct	2900 Aug 29 16:03	25° <b>∡</b> ¹49'37	
conjunction	2894 Oct 15 17:45	23° <b>₽</b> 13'30	2°11'42		2900 Nov 12 18:52	o°ප	
minimum elong	2894 Oct 15 17:44	23° <b>₽</b> 13'30	2°11'42	evening set	2900 Dec 10 02:46	2°る59'29	
max. Earth dist.	2894 Oct 15 18:43	23° <b>≙</b> 13'48	10.54619 AU				
morning rise	2894 Nov 01 21:23	25° <b>≙</b> 19'55		conjunction	2900 Dec 26 19:50	4° <b>る</b> 57'46	0°59'54
	2894 Dec 15 00:05	0° <b>M</b> ₊		minimum elong	2900 Dec 26 19:52	4° <b>る</b> 57'46	0°59'54
retrograde	2895 Feb 10 03:44	2°M44'39		max. Earth dist.	2900 Dec 26 15:56	4° <b>る</b> 56'36	10.98086 AU
	2895 Apr 11 02:51	30° <b>₹</b> Ω		morning rise	2901 Jan 12 11:19	6° <b>る</b> 55'36	
opposition	2895 Apr 18 20:05	29° <b>≏</b> 24'10	2°44'01	retrograde	2901 Apr 22 17:41	13° <b>る</b> 57'41	
min. Earth dist.	2895 Apr 18 19:47	29° <b>≙</b> 24'13	8.59873 AU	opposition	2901 Jul 01 21:25	10°る39'42	0°58'22
direct	2895 Jun 27 21:23	25° <b>≙</b> 58'26		min. Earth dist.	2901 Jul 02 01:05	10° <b>る</b> 39'01	8.99139 AU
	2895 Sep 08 17:02	0° <b>M</b> ₊		direct	2901 Sep 10 19:59	7° <b>る</b> 19'39	
evening set	2895 Oct 11 11:56	3°M39'31		evening set	2901 Dec 21 15:08	14° <b>පි</b> 26'03	
conjunction	2895 Oct 28 16:15	5° <b>M</b> .44'53	2°12'53	conjunction	2902 Jan 07 07:25	16° <b>る</b> 23'56	0°35'00
minimum elong	2895 Oct 28 16:15	5°M44'53	2°12'53	minimum elong	2902 Jan 07 07:26	16° <b>る</b> 23'56	0°35'00
max. Earth dist.	2895 Oct 28 15:43		10.64720 AU	max. Earth dist.	2902 Jan 07 03:02		10.99653 AU
morning rise	2895 Nov 14 16:01	7° <b>ML</b> 48'57	10.01/20110	morning rise	2902 Jan 23 23:02	18° <b>る</b> 21'37	10.55000110
8	2896 Feb 11 01:01	15° <b>M</b> ₊		retrograde	2902 May 04 16:23	25° <b>る</b> 24'35	
retrograde	2896 Feb 22 14:01	15°ML07'04		opposition	2902 Jul 14 02:44	22°る06'09	0°26'53
	2896 Mar 05 04:35	15°RM		min. Earth dist.	2902 Jul 14 06:05	22° <b>る</b> 05'32	8.99699 AU
opposition	2896 Apr 30 16:46	11°ML47'38	2°41'21	direct	2902 Sep 22 22:36	18° <b>る</b> 46'36	
min. Earth dist.	2896 Apr 30 18:04	11°ML47'23	8.69649 AU	evening set	2903 Jan 02 02:21	25° <b>る</b> 50'51	
direct	2896 Jul 10 03:03	8°M23'00					
	2896 Oct 15 03:32	15° <b>M</b> ₊		conjunction	2903 Jan 18 18:19	27° <b>る</b> 48'41	0°08'46
evening set	2896 Oct 23 05:12	15°M56'49		minimum elong	2903 Jan 18 18:19	27° <b>る</b> 48'42	0°08'46
		1100017		behind sun begin	2903 Jan 18 12:16	27°る46'55	
conjunction	2896 Nov 09 05:58	18°ML00'03	2°07'55	behind sun end	2903 Jan 19 00:22	27° <b>る</b> 50'28	
minimum elong	2896 Nov 09 05:59	18°ML00'04	2°07'56	max. Earth dist.	2903 Jan 18 14:40		10.99229 AU
max. Earth dist.	2896 Nov 09 03:43		10.74076 AU	morning rise	2903 Feb 04 10:13	29° <b>る</b> 46'33	-0.,,22,710
morning rise	2896 Nov 26 02:43	20°ML02'07	20.7.070710		2903 Feb 06 08:42	2)° <b>≈</b>	
retrograde	2897 Mar 05 20:11	27°ML14'38		retrograde	2903 New 16 17:05	6°≈51'51	
opposition	2897 May 13 09:19	23°M56'00	2°31'29	desc. node	2903 May 21 20:34	6°≈50'33	
min. Earth dist.	2897 May 13 11:33	23°M55'35	8.78503 AU	opposition	2903 May 21 20.34 2903 Jul 26 08:13	0 ≈30 33 3°≈32'48	-0°05'41
direct	2897 Jul 23 02:55	20°M32'30	3.76303 AU	min. Earth dist.	2903 Jul 26 10:49	3°≈32'19	8.98273 AU
evening set	2897 Nov 04 14:05	20 IIL32 30 27°IIL59'16		direct	2903 Jul 26 10.49 2903 Oct 04 21:22	0°≈13'36	0.702/3 AU
evening set	207/ INUV U4 14.U3	4/ الديما 10			2903 Oct 04 21:22 2904 Jan 13 13:56	0°≈13'36 7°≈17'05	
conjunction	2897 Nov 21 12:03	0° <b>₹</b> 100'45	1057122	evening set	4704 Jall 13 13:30	/ 🗪1/03	
conjunction	2071 NOV 21 12.03	0 7 0043	1 31 43				

conjunction	2904 Jan 30 05:51	9° <b>≈</b> 15'12		evening set	2910 Mar 25 04:20	19° <b>Ƴ</b> 08'50	
minimum elong	2904 Jan 30 05:50	9° <b>≈</b> 15'12	0°17'58				
max. Earth dist.	2904 Jan 30 02:53	9° <b>≈</b> 14'19	10.96829 AU	conjunction	2910 Apr 11 05:13	21° <b>Ƴ</b> 15′17	-2°10'55
morning rise	2904 Feb 15 22:22	11° <b>≈</b> 13'33		minimum elong	2910 Apr 11 05:12	21° <b>Ƴ</b> 15′17	2°10'55
	2904 Mar 22 05:57	15° <b>≈</b>		max. Earth dist.	2910 Apr 11 05:06	21° <b>Y</b> 15′15	10.50644 AU
retrograde	2904 May 27 21:13	18° <b>≈</b> 22'39		morning rise	2910 Apr 28 10:42	23° <b>Y</b> 23'09	
opposition	2904 Aug 06 15:10	15° <b>≈</b> 02'47	-0°38'12		2910 Jul 04 15:21	$B_{\circ 0}$	
min. Earth dist.	2904 Aug 06 17:22	15°≈02'22	8.94915 AU	retrograde	2910 Aug 12 14:07	1° <b>8</b> 15'23	
	2904 Aug 07 06:07	15°R <b>≈</b>		C	2910 Sep 21 00:06	30° <b>₹</b> Υ	
direct	2904 Oct 15 20:14	11° <b>≈</b> 43'46		opposition	2910 Oct 21 06:32	27° <b>Ƴ</b> 48'52	-2°44'02
	2904 Dec 19 15:46	15° <b>≈</b>		min. Earth dist.	2910 Oct 21 05:54		8.45790 AU
evening set	2905 Jan 24 03:23	18° <b>≈</b> 47'54		direct	2910 Dec 27 18:06	24° <b>Υ</b> 27'01	0.10770110
evening set	2703 Juli 24 03.23	10 7047 54		direct	2911 Mar 21 11:58	0°8	
agnismation	2005 Eab 00 10:27	20% 046126	0944105	avanina aat		2° <b>8</b> 00'42	
conjunction	2905 Feb 09 19:27	20°≈46'36		evening set	2911 Apr 07 08:14	2 000 42	
minimum elong	2905 Feb 09 19:25	20°≈46'36	0°44'05		2011 4 24 12 52	40 400122	2012145
max. Earth dist.	2905 Feb 09 16:04		10.92538 AU	conjunction	2911 Apr 24 12:53	4° <b>8</b> 09'33	
morning rise	2905 Feb 26 13:09	22° <b>≈</b> 45'48		minimum elong	2911 Apr 24 12:54	4° <b>8</b> 09'33	
	2905 Jun 08 22:04	0° <b>∀</b>		max. Earth dist.	2911 Apr 24 13:43	_	10.40757 AU
retrograde	2905 Jun 09 05:46	0° <b>)</b> 00′00		morning rise	2911 May 11 22:17	6° <b>8</b> 19'52	
	2905 Jun 09 13:27	30°R <b>≈</b>		retrograde	2911 Aug 26 10:53	14° <b>8</b> 19'36	
opposition	2905 Aug 19 00:19	26° <b>≈</b> 39'11	-1°09'30	opposition	2911 Nov 03 17:10	10° <b>8</b> 52'08	-2°42'23
min. Earth dist.	2905 Aug 19 02:50	26° <b>≈</b> 38'43	8.89744 AU	min. Earth dist.	2911 Nov 03 16:03	10° <b>8</b> 52'22	8.36133 AU
direct	2905 Oct 27 19:14	23°≈20'09		direct	2912 Jan 09 20:01	7° <b>8</b> 29'17	
	2906 Feb 01 02:05	0° <b>∀</b>			2912 Apr 18 12:05	15° <b>8</b>	
evening set	2906 Feb 04 20:21	0° <b>¥</b> 26′22		evening set	2912 Apr 19 21:13	15° <b>8</b> 10'16	
8				8	· · ·		
conjunction	2906 Feb 21 13:02	2° <b>)</b> 25′58	-1°08'39	conjunction	2912 May 07 06:22	17° <b>8</b> 21'39	-2°07'43
minimum elong	2906 Feb 21 13:00	2° <del>)(</del> 25'57		minimum elong	2912 May 07 06:24	17° <b>8</b> 21'39	
max. Earth dist.	2906 Feb 21 09:41		10.86508 AU	max. Earth dist.	2912 May 07 08:41	_	10.31443 AU
		2 <b>X</b> 2438 4° <b>X</b> 26'19	10.80308 AU		-	17 <b>8</b> 22 23	10.51445 AU
morning rise	2906 Mar 10 08:14			morning rise	2912 May 24 19:59	_	
retrograde	2906 Jun 21 17:08	11° <b>)</b> 46'49	1020120	retrograde	2912 Sep 08 12:49	27° <b>8</b> 40'31	2022102
opposition	2906 Aug 31 12:12	8° <b>∺</b> 24'56		opposition	2912 Nov 16 08:07	24° <b>8</b> 12'16	
min. Earth dist.	2906 Aug 31 14:28		8.82944 AU	min. Earth dist.	2912 Nov 16 06:05		8.27269 AU
direct	2906 Nov 08 20:34	5° <b>∺</b> 05'39		direct	2913 Jan 22 04:42	20° <b>8</b> 48'19	
evening set	2907 Feb 16 18:04	12° <b>升</b> 15′20		evening set	2913 May 03 19:04	28° <b>8</b> 36'27	
					2913 May 14 19:20	$\Pi$ $\circ 0$	
conjunction	2907 Mar 05 11:57	14° <b>∺</b> 16'11	-1°30'38				
minimum elong	2907 Mar 05 11:55	14° <b>₩</b> 16'10	1°30'38	conjunction	2913 May 21 09:02	0° <b>Ⅲ</b> 50′22	-1°55'40
max. Earth dist.	2907 Mar 05 09:48	14° <b>)</b> 15′31	10.78962 AU	minimum elong	2913 May 21 09:05	0° <b>Ⅱ</b> 50'23	1°55'40
morning rise	2907 Mar 22 08:52	16° <b>₩</b> 17'57		max. Earth dist.	2913 May 21 12:14	0° <b>Ⅱ</b> 51'23	10.23148 AU
retrograde	2907 Jul 04 12:41	23° <b>)</b> 45′48		morning rise	2913 Jun 08 02:58	3° <b>Ⅱ</b> 05'36	
opposition	2907 Sep 13 03:57	20° <b>)</b> 22'43	-2°03'27	retrograde	2913 Sep 22 18:57	11° <b>Ⅱ</b> 16'23	
min. Earth dist.	2907 Sep 13 05:05		8.74777 AU	opposition	2913 Nov 30 02:59	7° <b>I</b> I47'36	-2°13'02
direct	2907 Nov 21 02:09	17° <b>)</b> 03'04	0.71777110	min. Earth dist.	2913 Nov 30 02:39	7° <b>I</b> I48'08	
evening set	2908 Feb 28 21:48	24° <b>H</b> 17'22		direct	2914 Feb 04 19:10	4° <b>Ⅱ</b> 22'30	0.1700 <del>4</del> AC
evening set	2700100 20 21.40	24 /(1/22			2914 May 18 01:06	12° <b>I</b> 17'20	
agnismation	2009 Mar. 16, 17-26	26° <b>¥</b> 19'47	1940'00	evening set	2914 May 16 01.00	12 11/20	
conjunction	2908 Mar 16 17:26				2014 June 04 10:42	1.40π22127	102/157
minimum elong	2908 Mar 16 17:23	26° <b>¥</b> 19'46		conjunction	2914 Jun 04 19:43	14° <b>Ⅱ</b> 33'37	
max. Earth dist.	2908 Mar 16 16:40		10.70203 AU	minimum elong	2914 Jun 04 19:47	14° <b>Ⅲ</b> 33'38	
morning rise	2908 Apr 02 16:32	28° <b>¥</b> 23'19		max. Earth dist.	2914 Jun 04 23:06		10.16253 AU
	2908 Apr 16 11:37	$0^{\circ}$ Y		morning rise	2914 Jun 22 17:41	16° <b>Ⅱ</b> 50'59	
retrograde	2908 Jul 16 15:14	5° <b>Ƴ</b> 59'10		retrograde	2914 Oct 07 05:03	25° <b>Ⅱ</b> 04'45	
opposition	2908 Sep 25 00:03	2° <b>Y</b> 34'52		opposition	2914 Dec 14 01:01	21° <b>Ⅲ</b> 35'44	-1°46'05
min. Earth dist.	2908 Sep 24 23:59	2° <b>Ƴ</b> 34'53	8.65583 AU	min. Earth dist.	2914 Dec 13 22:11	21° <b>Ⅱ</b> 36′19	8.13523 AU
	2908 Nov 02 11:41	30° <b>₹</b> ₩		direct	2915 Feb 18 14:13	18° <b>Ⅲ</b> 09'32	
direct	2908 Dec 02 09:39	29° <b>ℋ</b> 14'40		evening set	2915 Jun 01 14:24	26° <b>Ⅱ</b> 10′23	
	2908 Dec 31 19:40	$0$ $^{\circ}$ $\mathbf{Y}$					
evening set	2909 Mar 12 08:59	6° <b>Ƴ</b> 34'40		conjunction	2915 Jun 19 13:10	28° <b>Ⅱ</b> 28'37	-1°12'22
				minimum elong	2915 Jun 19 13:13	28° <b>II</b> 28'38	
conjunction	2909 Mar 29 06:54	8° <b>Ƴ</b> 38'57	-2°02'45	max. Earth dist.	2915 Jun 19 16:17		10.11169 AU
·	2909 Mar 29 06:52	8° <b>Υ</b> 38'57		max. Earm uist.		28 <b>п</b> 2938	10.11109 AU
minimum elong					2915 Jul 01 08:46		
max. Earth dist.	2909 Mar 29 06:31		10.60618 AU	morning rise	2915 Jul 07 14:28	0°547'41	
morning rise	2909 Apr 15 08:53	10° <b>Y</b> 44'32		retrograde	2915 Oct 21 16:10	9°502'23	1016:55
retrograde	2909 Jul 29 23:26	18° <b>Y</b> 28'39		opposition	2915 Dec 28 01:18	5° <b>©</b> 33'28	
opposition	2909 Oct 08 00:46	15° <b>Y</b> 03'12		min. Earth dist.	2915 Dec 27 22:43		8.09477 AU
min. Earth dist.	2909 Oct 08 00:19		8.55768 AU	direct	2916 Mar 03 15:23	2° <b>©</b> 06'15	
direct	2909 Dec 14 22:34	11° <b>Y</b> 42'14		evening set	2916 Jun 15 09:25	10°911'58	

	2017 1-1 02 11-10	120621121	0942120		2022 M 10 05-25	200 m 27102	2017127
conjunction	2916 Jul 03 11:19	12°931'31		opposition	2922 Mar 19 05:35	28° m 27'03	
minimum elong	2916 Jul 03 11:21	12° <b>©</b> 31'32		min. Earth dist.	2922 Mar 19 03:51	28° <b>m</b> 27'24	8.34496 AU
max. Earth dist.	2916 Jul 03 14:04	12° <b>©</b> 32'25	10.08316 AU	direct	2922 May 27 04:30	24° Mp 58'37	
morning rise	2916 Jul 21 14:47	14° <b>©</b> 51'34			2922 Aug 16 05:49	0∘ <b>ত</b>	
retrograde	2916 Nov 04 01:51	23° <b>©</b> 05'03		evening set	2922 Sep 10 09:26	2° <b>≏</b> 56'31	
opposition	2917 Jan 10 02:40	19° <b>©</b> 36'30	-0°34'27				
min. Earth dist.	2917 Jan 10 00:23	19° <b>5</b> 36'59	8.07822 AU	conjunction	2922 Sep 28 00:07	5° <b>≏</b> 08'07	1°58'50
direct	2917 Mar 17 21:31	16° <b>©</b> 08'25		minimum elong	2922 Sep 28 00:04	5° <b>ഫ</b> 08'06	1°58'49
evening set	2917 Jun 30 07:58	24°9517'26		max. Earth dist.	2922 Sep 28 01:46	5° <b>Ω</b> 08'38	10.39300 AU
				morning rise	2922 Oct 15 10:25	7° <b>£</b> 18'23	
conjunction	2917 Jul 18 11:34	26°937'30	0011120	retrograde	2923 Jan 24 08:15	14° <b>£</b> 53'46	
,				=			2024110
minimum elong	2917 Jul 18 11:34	26°937'31	0°11'37	opposition	2923 Apr 01 13:26	11° <b>£</b> 31'12	2°34'19
behind sun begin	2917 Jul 18 06:26	26° <b>©</b> 35'52		min. Earth dist.	2923 Apr 01 12:41	11° <b>≏</b> 31'21	8.44466 AU
behind sun end	2917 Jul 18 16:42	26°539'09		direct	2923 Jun 10 00:19	8° <b>亞</b> 03'30	
max. Earth dist.	2917 Jul 18 14:17	26° <b>©</b> 38'22	10.07948 AU	evening set	2923 Sep 24 01:31	15° <b>≏</b> 54'48	
morning rise	2917 Aug 05 15:30	28° <b>©</b> 57'40					
	2917 Aug 13 22:35	$0^{\circ}\Omega$		conjunction	2923 Oct 11 11:37	18° <b>≏</b> 03'44	2°09'18
retrograde	2917 Nov 18 07:52	7° <b>Ω</b> 07'51		minimum elong	2923 Oct 11 11:36	18° <b>≏</b> 03'43	2°09'17
asc. node	2917 Dec 01 04:23	6° <b>Ω</b> 58'40		max. Earth dist.	2923 Oct 11 11:53	18° <b>≏</b> 03'48	10.49503 AU
opposition	2918 Jan 24 03:43	3° <b>£</b> 39'57	0°05'45	morning rise	2923 Oct 28 17:20	20° <b>£</b> 11'17	
min. Earth dist.	2918 Jan 24 01:18	3° <b>Ω</b> 40'27	8.08723 AU	retrograde	2924 Feb 06 02:02	27° <b>£</b> 38'57	
direct	2918 Apr 01 06:34	0° <b>Ω</b> 11'14	0.00725710	opposition	2924 Apr 13 16:09	24° <b>⊆</b> 17'31	2°42'54
	-				=		
evening set	2918 Jul 15 07:20	8° <b>Ω</b> 21'41		min. Earth dist.	2924 Apr 13 15:54	24° <b>£</b> 17'34	8.54821 AU
				direct	2924 Jun 22 14:38	20° <b>£</b> 50'48	
conjunction	2918 Aug 02 11:00	10° <b>Ω</b> 41'24	0°20'47	evening set	2924 Oct 06 07:40	28° <b>≏</b> 34'51	
minimum elong	2918 Aug 02 10:59	10° <b>Ω</b> 41'24	0°20'47		2924 Oct 17 23:28	$0^{\circ}$ M	
max. Earth dist.	2918 Aug 02 13:56	10° <b>Ω</b> 42'21	10.10128 AU				
morning rise	2918 Aug 20 13:43	13° <b>Ω</b> 00'48		conjunction	2924 Oct 23 13:35	0°M41'14	2°13'13
	2918 Sep 05 17:08	15° <b>Ω</b>		minimum elong	2924 Oct 23 13:35	0° <b>M</b> 41'14	2°13'13
retrograde	2918 Dec 02 10:03	21° <b>Ω</b> 05'55		max. Earth dist.	2924 Oct 23 13:04	0°M41'04	10.59846 AU
opposition	2919 Feb 07 03:09	17° <b>Ω</b> 38'51	0°45'23	morning rise	2924 Nov 09 15:09	2°M46'17	
min. Earth dist.	2919 Feb 07 00:23	17° <b>Ω</b> 39'25	8.12142 AU	retrograde	2925 Feb 17 13:52	10°M06'52	
min. Dartii dist.	2919 Mar 15 22:24	15°R <b>Ω</b>	0.121 12 110	opposition	2925 Apr 26 14:11	6°M46'30	2°43'30
1:4				**			
direct	2919 Apr 15 14:59	14° <b>Ω</b> 09'46		min. Earth dist.	2925 Apr 26 13:50	6°M46'34	8.65050 AU
	2919 May 16 04:27	15° <b>Ω</b>		direct	2925 Jul 05 22:58	3°M20'55	
evening set	2919 Jul 30 04:44	22° <b>Ω</b> 19'43		evening set	2925 Oct 19 04:00	10°M57'27	
conjunction	2919 Aug 17 06:53	24° <b>Ω</b> 38'15	0°51'40	conjunction	2925 Nov 05 06:21	13°M01'32	2°10'50
minimum elong	2919 Aug 17 06:51	24°Ω38'14		minimum elong	2925 Nov 05 06:22	13°M01'32	
max. Earth dist.	2919 Aug 17 00:31 2919 Aug 17 10:05	• • •	10.14716 AU	max. Earth dist.	2925 Nov 05 05:58		10.69837 AU
	•		10.14/10 AU	max. Earth dist.			10.0983 / AU
morning rise	2919 Sep 04 06:49	26° <b>Ω</b> 56'04			2925 Nov 21 13:43	15°M	
	2919 Sep 29 21:16	0° <b>m</b> ∕		morning rise	2925 Nov 22 04:23	15°M04'22	
retrograde	2919 Dec 16 08:00	4° <b>m</b> 54'45		retrograde	2926 Mar 01 22:39	22°M18'46	
opposition	2920 Feb 20 23:53	1° <b>™</b> 28'40	1°21'54	opposition	2926 May 09 07:42	18°M59'20	2°36'38
min. Earth dist.	2920 Feb 20 20:49	1° <b>m</b> )29'17	8.17841 AU	min. Earth dist.	2926 May 09 07:47	18° <b>™</b> 59'19	8.74683 AU
	2920 Mar 10 17:18	$30^{\circ}$ R $\Omega$		direct	2926 Jul 18 23:49	15°M34'59	
direct	2920 Apr 28 22:23	27° <b>Ω</b> 59'31		evening set	2926 Oct 31 15:40	23°M04'09	
	2920 Jun 16 10:12	0° <b>m</b> )					
evening set	2920 Aug 12 21:47	6° m) 07'05		conjunction	2926 Nov 17 14:59	25°M06'17	2°02'37
C	Č			minimum elong	2926 Nov 17 15:01	25°M06'18	2°02'38
conjunction	2920 Aug 30 20:59	8° m 23'43	1°19'14	max. Earth dist.	2926 Nov 17 14:15		10.79026 AU
minimum elong	2920 Aug 30 20:55	8° M) 23'42		morning rise	2926 Dec 04 10:18	27°M000'17	10.77020710
•	•			morning rise		27 IIC0717 0° <b>⊼</b> 7	
max. Earth dist.	2920 Aug 31 00:17		10.21398 AU		2926 Dec 30 03:03		
morning rise	2920 Sep 17 16:50	10° m/39'20		retrograde	2927 Mar 14 01:38	4° <b>₹</b> 16'28	
retrograde	2920 Dec 28 23:24	18° <b>™</b> 30'36		opposition	2927 May 21 21:09	0° <b>∡</b> 57'51	
opposition	2921 Mar 05 16:52	15° <b>m</b> 05'38	1°53'10	min. Earth dist.	2927 May 21 22:23	0° <b>∡</b> 757'37	8.83303 AU
min. Earth dist.	2921 Mar 05 14:13	15° <b>m</b> 06'10	8.25446 AU		2927 Jun 03 19:18	30°RM₊	
direct	2921 May 13 03:13	11° <b>m</b> 36'44		direct	2927 Jul 31 17:43	27°M34'43	
evening set	2921 Aug 27 07:57	19° <b>m</b> 40'11			2927 Sep 25 16:03	0° <b>∡</b> ″	
				evening set	2927 Nov 12 19:43	4° <b>₹</b> 57'03	
conjunction	2921 Sep 14 03:09	21° <b>m</b> 54'25	1°41'58				
minimum elong	2921 Sep 14 03:06	21° m 54'24	1°41'57	conjunction	2927 Nov 29 16:28	6° <b>≯</b> 757'34	1°49'15
max. Earth dist.	2921 Sep 14 05:57		10.29756 AU	minimum elong	2927 Nov 29 16:31	6° <b>₹</b> 57'34	1°49'15
morning rise	2921 Oct 01 18:17	24° Mp 07'27		max. Earth dist.	2927 Nov 29 14:27		10.87026 AU
	2921 Nov 26 13:17	0° <b>잔</b>		morning rise	2927 Nov 25 14.27 2927 Dec 16 09:56	8° <b>×</b> 757'08	
retrograda	2922 Jan 11 07:16	0 <b>==</b> 1° <b>£</b> 50'48		retrograde	2928 Mar 25 01:04	16° <b>₹</b> 02'21	
retrograde				•			2002140
	2922 Feb 27 03:19	30°R Mp		opposition	2928 Jun 02 07:30	12° <b>≯</b> 44'20	Z U3 4U

min. Earth dist. direct evening set	2928 Jun 02 09:41 2928 Aug 12 08:02 2928 Nov 23 17:10	12° <b>х</b> 43'55 9° <b>х</b> 22'22 16° <b>х</b> 38'35	8.90564 AU	opposition min. Earth dist. direct	2934 Aug 13 20:29 2934 Aug 13 23:12 2934 Oct 22 20:51	21°≈42'31 21°≈42'01 18°≈24'09	-0°55'41 8.94618 AU
		_		evening set	2935 Jan 30 23:59	25° <b>≈</b> 28'33	
conjunction	2928 Dec 10 11:58	18° 🗷 37'50	1°31'29		2025 F. L. 16 16 20	250 - 25120	0057152
minimum elong	2928 Dec 10 12:01	18° 🗷 37'51	1°31'29	conjunction	2935 Feb 16 16:20	27°≈27'28 27°≈27'27	
max. Earth dist. morning rise	2928 Dec 10 09:02 2928 Dec 27 04:17	20° <b>₹</b> 36'20	10.93523 AU	minimum elong max. Earth dist.	2935 Feb 16 16:18 2935 Feb 16 13:01		10.91616 AU
retrograde	2929 Apr 05 23:30	20 × 30 20 27° × 38'57		morning rise	2935 Mar 05 10:30	27 ≈2029 29°≈27'00	10.91010 AC
opposition	2929 Jun 14 15:15	24° <b>×</b> <sup>7</sup> 21'17	1°39'29	morning rise	2935 Mar 10 04:02	0° <b>∺</b>	
min. Earth dist.	2929 Jun 14 17:23	24°× <b>7</b> 20'53	8.96185 AU	retrograde	2935 Jun 16 12:24	6° <b>)</b> 43′50	
direct	2929 Aug 24 17:17	21° <b>尽</b> 00′24		opposition	2935 Aug 26 06:41	3° <b>∺</b> 23'03	-1°25'42
evening set	2929 Dec 05 09:40	28° <b>∡</b> 11′27		min. Earth dist.	2935 Aug 26 09:11	3° <b>)</b> 22'35	8.88196 AU
	2929 Dec 20 18:11	ರ°0		direct	2935 Nov 03 19:58	0° <b>)</b> €04'30	
				evening set	2936 Feb 11 19:12	7° <b>∺</b> 11'53	
conjunction	2929 Dec 22 03:13	0° <b>る</b> 09'49	1°10'10				
minimum elong	2929 Dec 22 03:15	0° <b>る</b> 09'49	1°10'10	conjunction	2936 Feb 28 12:22	9° <b>∺</b> 11'56	
max. Earth dist.	2929 Dec 22 00:32		10.98269 AU	minimum elong	2936 Feb 28 12:19	9° <b>₩</b> 11'55	
morning rise	2930 Jan 07 18:48	2°る07'38		max. Earth dist.	2936 Feb 28 08:35		10.84309 AU
retrograde	2930 Apr 17 20:53	9° <b>ろ</b> 09'01	1011122	morning rise	2936 Mar 16 08:14	11° <b>米</b> 12'49 18° <b>米</b> 36'42	
opposition	2930 Jun 26 21:02	5°る51'26 5°る51'05	1°11'33	retrograde	2936 Jun 28 05:09	18° <del>X</del> 36'42 15° <del>X</del> 14'41	1952127
min. Earth dist. direct	2930 Jun 26 22:55 2930 Sep 05 22:04	2°る31'29	8.99956 AU	opposition min. Earth dist.	2936 Sep 06 20:32 2936 Sep 06 23:11	15° <b>X</b> 14'41	8.80130 AU
evening set	2930 Sep 03 22:04 2930 Dec 16 22:47	2 <b>33129</b> 9° <b>る38</b> '31		direct	2936 Nov 14 22:47	13 <b>X</b> 14 11 11° <b>X</b> 55'40	8.80130 AU
evening set	2730 Dec 10 22.47	7 03031		evening set	2937 Feb 22 19:54	19° <b>\</b> 07'18	
conjunction	2931 Jan 02 15:27	11° <b>ප</b> 36'20	0°46'11	evening see	2,0,100 22 1,50	1, 70, 10	
minimum elong	2931 Jan 02 15:29	11° <b>පි</b> 36'21	0°46'11	conjunction	2937 Mar 11 14:28	21° <b>)</b> €08'50	-1°41'12
max. Earth dist.	2931 Jan 02 13:03	11° <b>る</b> 35'37	11.01080 AU	minimum elong	2937 Mar 11 14:25	21° <b>)</b> €08'49	1°41'13
morning rise	2931 Jan 19 06:45	13° <b>る</b> 33'49		max. Earth dist.	2937 Mar 11 10:33	21° <b>)</b> €07'38	10.75537 AU
retrograde	2931 Apr 29 19:51	20° <b>る</b> 35'24		morning rise	2937 Mar 28 12:33	23° <b>)</b> 11′24	
opposition	2931 Jul 09 02:05	17° <b>る</b> 17'41	0°40'58		2937 Jun 11 11:15	$0^{\circ}\mathbf{\Upsilon}$	
min. Earth dist.	2931 Jul 09 04:22	17° <b>る</b> 17'16	9.01735 AU	retrograde	2937 Jul 11 02:47	0° <b>Ƴ</b> 43'09	
direct	2931 Sep 17 23:28	13° <b>る</b> 58'28			2937 Aug 10 01:57	30° <b>₹</b>	
evening set	2931 Dec 28 10:03	21° <b>る</b> 02'44		opposition	2937 Sep 19 14:28	27° <b>)</b> 19'47	
	2022 1 14 02 00	220 700120	0020120	min. Earth dist.	2937 Sep 19 17:07	27° <b>)</b> 19'16	8.70795 AU
conjunction	2932 Jan 14 02:00	23°る00'20	0°20'28	direct	2937 Nov 27 05:02	24° <b>米</b> 00′03 0° <b>⋎</b>	
minimum elong max. Earth dist.	2932 Jan 14 02:01 2932 Jan 13 22:43	23°る00'20 22°る59'21	0°20'28 11.01849 AU	avanina aat	2938 Feb 24 05:48 2938 Mar 07 03:24	0°γ¹ 1° <b>Υ</b> 17'07	
max. Earth dist.	2932 Jan 30 17:34	24°る57'50	11.01849 AU	evening set	2938 Mar 0/ 03:24	1 11/0/	
morning risc	2932 Jan 30 17:34 2932 Mar 21 04:27	24 <b>⊙</b> 37 30		conjunction	2938 Mar 24 00:04	3° <b>Y</b> 20′25	-1°57'09
retrograde	2932 May 10 18:17	2°≈01'04		minimum elong	2938 Mar 24 00:02	3° <b>Υ</b> 20'25	
	2932 Jul 02 10:07	30°₽₹		max. Earth dist.	2938 Mar 23 21:20		10.65693 AU
opposition	2932 Jul 20 07:12	28° <b>る</b> 42'57	0°08'48	morning rise	2938 Apr 10 00:42	5° <b>Y</b> 24'57	
min. Earth dist.	2932 Jul 20 10:15	28° <b>る</b> 42'23	9.01454 AU	retrograde	2938 Jul 24 06:30	13° <b>Ƴ</b> 05'04	
direct	2932 Sep 28 21:52	25° <b>පි</b> 24'15		opposition	2938 Oct 02 12:45	9° <b>Ƴ</b> 40'16	-2°32'00
desc. node	2932 Oct 30 03:31	26° <b>る</b> 11'38		min. Earth dist.	2938 Oct 02 14:28	9° <b>Ƴ</b> 39'56	8.60609 AU
	2932 Dec 16 18:05	0° <b>≈</b>		direct	2938 Dec 09 17:05	6° <b>Ƴ</b> 19'40	
evening set	2933 Jan 07 21:02	2° <b>≈</b> 27'07		evening set	2939 Mar 19 18:35	13° <b>Ƴ</b> 43'05	
	2022 L 24 12 42	4004140	0006111		2020 4 05 10 05	1500040101	2007157
conjunction	2933 Jan 24 12:40	4°≈24'48		conjunction	2939 Apr 05 18:05	15° <b>Y</b> 48'31	
minimum elong	2933 Jan 24 12:40 2933 Jan 24 06:02	4°≈24'48 4°≈22'51	0°06'10	minimum elong max. Earth dist.	2939 Apr 05 18:04	15° <b>Y</b> 48'30	10.55227 AU
behind sun begin behind sun end	2933 Jan 24 19:18	4 ≈22 31 4°≈26'44		morning rise	2939 Apr 05 16:55 2939 Apr 22 21:45	13 <b>1</b> 48 09	10.33227 AU
max. Earth dist.	2933 Jan 24 19:18 2933 Jan 24 08:42		11.00530 AU	retrograde	2939 Apr 22 21:43 2939 Aug 06 18:50	25° <b>Y</b> 43'50	
morning rise	2933 Feb 10 04:54	6°≈22'39	11.00330 AC	opposition	2939 Oct 15 16:04	22° <b>Υ</b> 17'39	-2°42'02
retrograde	2933 May 22 19:36	13°≈29'01		min. Earth dist.	2939 Oct 15 16:25	22°Υ17'35	8.50039 AU
opposition	2933 Aug 01 13:00	10°≈10'12	-0°23'48	direct	2939 Dec 22 09:44	18° <b>Ƴ</b> 56'03	
min. Earth dist.	2933 Aug 01 16:16	10° <b>≈</b> 09'36	8.99082 AU	evening set	2940 Mar 31 18:14	26° <b>Y</b> 26′28	
direct	2933 Oct 10 22:02	6° <b>≈</b> 51'46		-			
evening set	2934 Jan 19 09:05	13° <b>≈</b> 54'40		conjunction	2940 Apr 17 21:12	28° <b>Ƴ</b> 34'16	-2°12'45
	2934 Jan 28 15:22	15° <b>≈</b>		minimum elong	2940 Apr 17 21:12	28° <b>Y</b> 34'16	2°12'44
				max. Earth dist.	2940 Apr 17 21:07		10.44634 AU
conjunction	2934 Feb 05 00:56	15° <b>≈</b> 52'48			2940 Apr 29 07:44	0°8	
minimum elong	2934 Feb 05 00:55	15°≈52'48		morning rise	2940 May 05 04:35	0° <b>8</b> 43'29	
max. Earth dist.	2934 Feb 04 21:20		10.97103 AU	retrograde	2940 Aug 19 13:57	8° <b>8</b> 40'05	20.17:1
morning rise	2934 Feb 21 17:59	17°≈51'19		opposition	2940 Oct 28 00:22	5° <b>8</b> 12'41	
retrograde	2934 Jun 04 01:59	25°≈02'14		min. Earth dist.	2940 Oct 27 23:45	5°O12'48	8.39582 AU

direct evening set	2941 Jan 03 07:04 2941 Apr 14 03:03	1° <b>8</b> 49'55 9° <b>8</b> 27'48		opposition min. Earth dist. direct	2947 Jan 18 06:30 2947 Jan 18 02:33 2947 Mar 26 05:01	27°\$38'00 27°\$38'49 24°\$09'07	-0°12'26 8.06617 AU
conjunction	2941 May 01 10:06	11° <b>8</b> 38'08		asc. node	2947 May 14 17:51	26°©18'24	
minimum elong max. Earth dist.	2941 May 01 10:07 2941 May 01 10:17	11° <b>8</b> 38'09	2°10'52 10.34426 AU	evening set	2947 Jun 20 00:19 2947 Jul 08 23:31	0°Ω 2°Ω19'34	
morning rise	2941 May 18 21:44	13° <b>8</b> 49'56	10.34420 AU	evening set	294/Jul 08 23.31	2 0619 34	
morning rise	2941 May 28 11:21	15° <b>8</b>		conjunction	2947 Jul 27 03:32	4° <b>Ω</b> 39'45	0°06'20
retrograde	2941 Sep 02 13:33	21° <b>8</b> 53'39		minimum elong	2947 Jul 27 03:31	4° <b>Ω</b> 39'44	0°06'19
opposition	2941 Nov 10 13:20	18° <b>8</b> 25'15	-2°37'53	behind sun begin	2947 Jul 26 20:35	4° <b>Ω</b> 37'31	
min. Earth dist.	2941 Nov 10 12:27	_	8.29758 AU	behind sun end	2947 Jul 27 10:27	4° <b>Ω</b> 41'58	
direct	2942 Jan 16 12:19	15° <b>8</b> 01'15		max. Earth dist.	2947 Jul 27 08:21		10.07616 AU
evening set	2942 Apr 27 20:53	22° <b>8</b> 46'41		morning rise	2947 Aug 14 06:58	6° <b>Ω</b> 59'44	
conjunction	2942 May 15 08:31	24° <b>8</b> 59'37	-2°02'01	retrograde	2947 Nov 14 17:03 2947 Nov 26 13:48	15° <b>Ω</b> 15° <b>Ω</b> 07'53	
minimum elong	2942 May 15 08:33	24° <b>8</b> 59'38		retrograde	2947 Nov 20 13:46 2947 Dec 08 10:06	15° <b>RΩ</b>	
max. Earth dist.	2942 May 15 09:16	_	10.25131 AU	opposition	2948 Feb 01 07:07	11° <b>Ω</b> 40′02	0°27'50
morning rise	2942 Jun 02 00:38	27° <b>8</b> 13'59		min. Earth dist.	2948 Feb 01 03:29	11° <b>Ω</b> 40'47	8.09245 AU
	2942 Jun 25 03:13	$\Pi^{\circ}0$		direct	2948 Apr 08 12:55	8° <b>Ω</b> 10'48	
retrograde	2942 Sep 16 17:43	5° <b>Ⅱ</b> 23′27			2948 Jul 11 23:24	15° <b>Ω</b>	
opposition	2942 Nov 24 06:49	1° <b>∏</b> 54'17		evening set	2948 Jul 22 22:42	16° <b>Ω</b> 21'40	
min. Earth dist.	2942 Nov 24 05:38		8.21093 AU				
1:	2942 Dec 19 06:27	30°R₩		conjunction	2948 Aug 10 01:45	18° <b>Ω</b> 40'59	0°38'06
direct	2943 Jan 30 00:41 2943 Mar 11 23:48	28° <b>႘</b> 29'04 0° <b>Ⅱ</b>		minimum elong max. Earth dist.	2948 Aug 10 01:43 2948 Aug 10 06:02	18° <b>Ω</b> 40'58	0°38'06 10.11487 AU
evening set	2943 May 11 23:12	6° <b>Ⅱ</b> 21'38		morning rise	2948 Aug 28 03:08	20° <b>Ω</b> 59'44	10.11407 AC
evening sec	2) 13 May 11 23.12	0 121 30		retrograde	2948 Dec 09 14:50	29° <b>Ω</b> 01'57	
conjunction	2943 May 29 15:42	8° <b>Ⅲ</b> 37'06	-1°46'14	opposition	2949 Feb 14 05:40	25° <b>Ω</b> 35'16	1°06'04
minimum elong	2943 May 29 15:45	8° <b>Ⅲ</b> 37′07	1°46'13	min. Earth dist.	2949 Feb 14 02:33	25° <b>Ω</b> 35'54	8.14309 AU
max. Earth dist.	2943 May 29 17:37	8° <b>Ⅱ</b> 37'42	10.17258 AU	direct	2949 Apr 22 22:02	22° <b>Ω</b> 06′01	
morning rise	2943 Jun 16 12:09	10° <b>Ⅱ</b> 53'48			2949 Aug 04 17:21	0° <b>™</b>	
retrograde	2943 Oct 01 01:52	19° <b>Ⅱ</b> 07'15		evening set	2949 Aug 06 18:31	0° Mp 15′22	
opposition	2943 Dec 08 03:55	15° <b>Ⅲ</b> 37'39		. ,.	2040 4 24 10 04	20 m- 22102	1007/22
min. Earth dist. direct	2943 Dec 08 02:01 2944 Feb 12 18:39	13°Щ38'02 12°Щ11'15	8.14079 AU	conjunction minimum elong	2949 Aug 24 19:04 2949 Aug 24 19:01	2° m/33'02 2° m/33'01	1°07'23 1°07'23
evening set	2944 May 25 09:37	20° <b>Ⅱ</b> 10'14		max. Earth dist.	2949 Aug 24 19:01 2949 Aug 24 22:39	2° My 34'10	
evening sec	2511 May 25 05.57	20 11011		morning rise	2949 Sep 11 17:00	4° mp 49'49	10.17037110
conjunction	2944 Jun 12 06:43	22° <b>Ⅱ</b> 27'54	-1°24'08	retrograde	2949 Dec 23 08:31	12° m 44'58	
minimum elong	2944 Jun 12 06:46	22° <b>Ⅲ</b> 27'55	1°24'08	opposition	2950 Feb 28 01:01	9° <b>m</b> 19'35	1°39'56
max. Earth dist.	2944 Jun 12 09:52		10.11263 AU	min. Earth dist.	2950 Feb 27 22:08	9° <b>™</b> 20'10	8.21491 AU
morning rise	2944 Jun 30 06:51	24° <b>∏</b> 46′32		direct	2950 May 07 05:45	5° <b>m</b> 50'40	
	2944 Aug 15 12:05	0°95		evening set	2950 Aug 21 08:33	13° Mp 56'37	
retrograde	2944 Oct 14 12:16 2944 Dec 15 11:28	3°501'49 30°R∏		conjunction	2950 Sep 08 05:32	16° m 12'02	1°32'27
opposition	2944 Dec 13 11:28 2944 Dec 21 03:32	29° <b>∏</b> 32'08	-1°28'27	minimum elong	2950 Sep 08 05:29	16° My 12'01	1°32'27
min. Earth dist.	2944 Dec 21 00:44		8.09137 AU	max. Earth dist.	2950 Sep 08 08:34	-•	10.25690 AU
direct	2945 Feb 25 18:22	26° <b>Ⅱ</b> 04'41		morning rise	2950 Sep 25 23:03	18° <b>m</b> 26'22	
	2945 May 04 18:25	$0$ $\circ$ $\odot$		retrograde	2951 Jan 05 19:34	26° Mp 13'44	
evening set	2945 Jun 09 02:34	4° <b>©</b> 09'02		opposition	2951 Mar 13 16:08	22° <b>m</b> 49'41	2°07'34
				min. Earth dist.	2951 Mar 13 13:11	22° m 50'16	8.30349 AU
conjunction	2945 Jun 27 03:25	6°528'19		direct	2951 May 21 09:39	19° Mp 21'20	
minimum elong max. Earth dist.	2945 Jun 27 03:27 2945 Jun 27 07:41	6°528'20	0°56'53 10.07515 AU	evening set	2951 Sep 04 14:47	27° <b>m</b> 22'16	
morning rise	2945 Jul 15 06:08	8°948'14	10.07515 AC	conjunction	2951 Sep 22 07:34	29° m 35'07	1°52'01
retrograde	2945 Oct 28 22:49	17° <b>©</b> 03'11		minimum elong	2951 Sep 22 07:31	29° m 35'06	1°52'01
opposition	2946 Jan 04 04:50	13°933'46	-0°52'04	max. Earth dist.	2951 Sep 22 10:24		10.35156 AU
min. Earth dist.	2946 Jan 04 01:08		8.06588 AU		2951 Sep 25 14:34	0∘ <u>⊽</u>	
direct	2946 Mar 11 22:21	10° <b>©</b> 05'29		morning rise	2951 Oct 09 20:10	1° <b>≏</b> 46'40	
evening set	2946 Jun 23 23:53	18° <b>©</b> 13'44		retrograde	2952 Jan 19 01:20	9° <b>Ω</b> 25'57	
	201671 12 12		000 (10.5	opposition	2952 Mar 26 02:41	6° <b>£</b> 03'14	2°27'46
conjunction	2946 Jul 12 03:08	20°533'53		min. Earth dist.	2952 Mar 26 00:02	6° <b>£</b> 03'45	8.40336 AU
minimum elong max. Earth dist.	2946 Jul 12 03:09 2946 Jul 12 08:02	20°533'53	0°26'06 10.06266 AU	direct evening set	2952 Jun 03 07:34 2952 Sep 17 11:50	2° <b>£</b> 35'40 10° <b>£</b> 30'17	
max. Earth dist.	2946 Jul 30 07:00	20°933'28 22°954'16	10.00200 AU	evening set	2332 Sep 17 11.30	10 == 30 1/	
morning 115¢	2946 Oct 08 05:39	0°Ω		conjunction	2952 Oct 05 00:06	12° <b>≏</b> 40'25	2°05'21
retrograde	2946 Nov 12 07:50	1° <b>Ω</b> 06'48		minimum elong	2952 Oct 05 00:04	12° <b>≙</b> 40'24	
-	2946 Dec 17 15:26	30°Rூ		max. Earth dist.	2952 Oct 05 02:30	12° <b>≏</b> 41'10	10.45461 AU

morning rise	2952 Oct 22 07:44	14° <b>≏</b> 49'10		morning rise	2959 Jan 03 05:54	27° <b>×</b> <sup>7</sup> 29'36	
retrograde	2953 Jan 30 23:45	22° <b>₽</b> 20'27			2959 Jan 25 18:36	0°ਰ	
opposition	2953 Apr 08 08:16	18° <b>£</b> 58'59	2°39'55	retrograde	2959 Apr 13 04:58	4° <b>る</b> 31'59	
min. Earth dist.	2953 Apr 08 06:36	18° <b>≏</b> 59'18	8.50860 AU	opposition	2959 Jun 22 01:06	1° <b>る</b> 14'17	1°23'46
direct	2953 Jun 17 00:15	15° <b>≏</b> 32'21		min. Earth dist.	2959 Jun 22 04:54	1° <b>る</b> 13'34	8.97235 AU
evening set	2953 Sep 30 22:57	23° <b>£</b> 19'49			2959 Jul 09 02:43	30°₽ <b>⋌</b>	
C	•			direct	2959 Sep 01 01:16	27° <b>₹</b> 53'42	
conjunction	2953 Oct 18 06:48	25° <b>≏</b> 27'18	2°12'08		2959 Oct 23 02:04	8°0	
minimum elong	2953 Oct 18 06:47	25° <b>£</b> 27'17	2°12'08	evening set	2959 Dec 12 10:52	5°ප03'05	
max. Earth dist.	2953 Oct 18 08:00	25° <b>£</b> 27'40	10.56004 AU	•			
morning rise	2953 Nov 04 09:59	27° <b>£</b> 33'24		conjunction	2959 Dec 29 03:52	7° <b>る</b> 01'18	0°56'35
-	2953 Nov 25 10:57	0°M,		minimum elong	2959 Dec 29 03:53	7° <b>る</b> 01'18	0°56'34
retrograde	2954 Feb 12 14:37	4° <b>ጤ</b> 57'11		max. Earth dist.	2959 Dec 28 23:06	6° <b>る</b> 59'53	10.98543 AU
opposition	2954 Apr 21 08:51	1°M36'52	2°43'58	morning rise	2960 Jan 14 19:27	8° <b>る</b> 59'05	
min. Earth dist.	2954 Apr 21 08:56	1°M36'51	8.61308 AU	retrograde	2960 Apr 24 02:47	16° <b>ප</b> 01'07	
	2954 May 13 01:29	30° <b>₹</b> Ω		opposition	2960 Jul 03 07:01	12° <b>る</b> 43'10	0°54'08
direct	2954 Jun 30 11:35	28° <b>£</b> 11'17		min. Earth dist.	2960 Jul 03 10:53	12° <b>る</b> 42'27	8.99425 AU
	2954 Aug 16 23:55	0°M		direct	2960 Sep 12 06:37	9° <b>る</b> 23'12	
evening set	2954 Oct 14 00:07	5°M51'17		evening set	2960 Dec 22 23:02	16° <b>る</b> 29'18	
<i>8</i>				<u>8</u>			
conjunction	2954 Oct 31 03:57	7°M56'21	2°12'28	conjunction	2961 Jan 08 15:23	18° <b>る</b> 27'10	0°31'27
minimum elong	2954 Oct 31 03:58	7°M56'21	2°12'28	minimum elong	2961 Jan 08 15:24	18° <b>る</b> 27'10	0°31'27
max. Earth dist.	2954 Oct 31 02:55		10.66179 AU	max. Earth dist.	2961 Jan 08 11:10		10.99772 AU
morning rise	2954 Nov 17 03:30	10°M.00'08		morning rise	2961 Jan 25 06:59	20° <b>ට</b> 24'51	
	2955 Jan 03 19:16	15° <b>M</b> ₊		retrograde	2961 May 06 01:54	27° <b>る</b> 28'00	
retrograde	2955 Feb 25 00:41	17° <b>M</b> .17'19		opposition	2961 Jul 15 12:23	24° <b>පි</b> 09'31	0°22'28
retrograde	2955 Apr 20 11:51	15°RM		min. Earth dist.	2961 Jul 15 15:26	24°る08'58	8.99642 AU
opposition	2955 May 04 04:41	13°M58'00	2°40'16	direct	2961 Sep 24 07:27	20°る50'03	0.77042 110
min. Earth dist.	2955 May 04 06:04	13°M 57'44	8.71106 AU	evening set	2962 Jan 03 10:19	20 <b>3</b> 50 03	
direct	2955 Jul 13 16:19	10°M33'32	0.71100 AC	evening set	2702 Jan 03 10.17	27 03410	
direct	2955 Sep 28 23:07	10 mc33 32		conjunction	2962 Jan 20 02:23	29° <b>る</b> 52'03	0°05'08
evening set	2955 Oct 26 16:09	18°M06'13		minimum elong	2962 Jan 20 02:23	29° <b>ප</b> 52'02	0°05'09
evening set	2933 Oct 20 10.09	10 1160013		behind sun begin	2962 Jan 19 19:35	29 <b>る</b> 5202	0 03 09
:	2055 N 12 16-27	200 <b>m</b> 00112	2007/42	_		29 <b>る</b> 5003	
conjunction	2955 Nov 12 16:37	20°M09'12	2°06'42	behind sun end	2962 Jan 20 09:08		10 00005 ATT
minimum elong	2955 Nov 12 16:38	20°M09'13	2°06'42	max. Earth dist.	2962 Jan 19 22:50		10.99005 AU
max. Earth dist.	2955 Nov 12 14:01		10.75499 AU		2962 Jan 21 05:12	0°≈	
morning rise	2955 Nov 29 13:12	22°M11'01		morning rise	2962 Feb 05 18:17	1°≈49'57	
retrograde	2956 Mar 08 05:25	29°M22'42		desc. node	2962 Apr 01 16:26	7°≈12'52	
opposition	2956 May 15 20:21	26°M04'10		retrograde	2962 May 18 03:13	8°≈55'37	0010100
min. Earth dist.	2956 May 15 22:11	26°M03'49	8.79859 AU	opposition	2962 Jul 27 18:03	5°≈36'29	
direct	2956 Jul 25 14:39	22°M40'50		min. Earth dist.	2962 Jul 27 20:56		8.97879 AU
evening set	2956 Nov 06 23:56	0° <b>∡</b> 06'34		direct	2962 Oct 06 06:26	2° <b>≈</b> 17'17	
	2956 Nov 06 01:33	0° <b>∡</b> ¹		evening set	2963 Jan 14 22:15	9° <b>≈</b> 20'53	
conjunction	2956 Nov 23 21:48	2° <b>₹</b> 07'50		conjunction	2963 Jan 31 14:07	11° <b>≈</b> 19′04	
minimum elong	2956 Nov 23 21:50	2° <b>≯</b> 07'51	1°55'28	minimum elong	2963 Jan 31 14:07	11° <b>≈</b> 19′04	
max. Earth dist.	2956 Nov 23 18:54		10.83644 AU	max. Earth dist.	2963 Jan 31 10:15		10.96272 AU
morning rise	2956 Dec 10 16:04	4° <b>≯</b> 08'05		morning rise	2963 Feb 17 06:50	13° <b>≈</b> 17'32	
retrograde	2957 Mar 20 07:47	11° <b>₹</b> 15'25			2963 Mar 04 08:30	15° <b>≈</b>	
opposition	2957 May 28 08:36	7° <b>₹</b> 157'25	2°12'30	retrograde	2963 May 30 07:34	20° <b>≈</b> 27′10	
min. Earth dist.	2957 May 28 10:33	7° <b>∡</b> 757'03	8.87288 AU	opposition	2963 Aug 09 01:19	17° <b>≈</b> 07'12	-0°42'34
direct	2957 Aug 07 08:13	4° <b>∡</b> ³35′09		min. Earth dist.	2963 Aug 09 04:29		8.94200 AU
evening set	2957 Nov 19 00:36	11° <b>≯</b> 754'31			2963 Sep 08 23:20	15°R <b>≈</b>	
				direct	2963 Oct 18 04:45	13° <b>≈</b> 48′07	
conjunction	2957 Dec 05 20:27	13° <b>∡</b> 54′25	1°39'28		2963 Nov 25 11:06	15° <b>≈</b>	
minimum elong	2957 Dec 05 20:30	13° <b>∡</b> ⁵54'26	1°39'28	evening set	2964 Jan 26 12:07	20° <b>≈</b> 52'36	
max. Earth dist.	2957 Dec 05 17:36	13° <b>≯</b> 53'34	10.90343 AU				
morning rise	2957 Dec 22 13:09	15° <b>≯</b> 53′28		conjunction	2964 Feb 12 04:11	22° <b>≈</b> 51'24	-0°47'32
retrograde	2958 Apr 01 08:36	22° <b>∡</b> 757'41		minimum elong	2964 Feb 12 04:09	22° <b>≈</b> 51′23	0°47'32
opposition	2958 Jun 09 17:59	19° <b>∡</b> ³39′57	1°50'14	max. Earth dist.	2964 Feb 12 00:02	22° <b>≈</b> 50′09	10.91671 AU
min. Earth dist.	2050 Y 00 20 40	19° <b>∡</b> ³39'25	8.93145 AU	morning rise	2964 Feb 28 22:05	24° <b>≈</b> 50'44	
	2958 Jun 09 20:49					001/	
direct	2958 Jun 09 20:49 2958 Aug 19 18:53	16° <b>∡</b> 18'37			2964 Apr 19 23:41	0° <b>∀</b>	
direct evening set		16° <b>х</b> 18'37 23° <b>х</b> 32'27		retrograde	2964 Apr 19 23:41 2964 Jun 10 14:58	0° <del>11</del> 2° <b>1</b> €05'43	
	2958 Aug 19 18:53			retrograde	•		
	2958 Aug 19 18:53		1°19'33	retrograde opposition	2964 Jun 10 14:58	2° <b>)</b> €05'43	-1°13'34
evening set	2958 Aug 19 18:53 2958 Nov 30 19:50	23° <b>∡</b> ³32′27	1°19'33 1°19'33	-	2964 Jun 10 14:58 2964 Aug 03 06:05	2° <b>)</b> €05'43 30°R≈	-1°13'34 8.88735 AU
evening set	2958 Aug 19 18:53 2958 Nov 30 19:50 2958 Dec 17 14:02	23° ₹32'27 25° ₹31'21 25° ₹31'21		opposition	2964 Jun 10 14:58 2964 Aug 03 06:05 2964 Aug 20 10:53	2° <b>)</b> € 05'43 30°R≈ 28°≈44'44	

2989 Dec 18 08:01

evening set

11°**る**45'00

2983 Jun 25 07:11

direct

23°**₽**08'08

	2000 1 04 00 26	120742146	00.4212.6	11 4	2005 N. 17 00 42	1.40 1/0.412.0	
conjunction	2990 Jan 04 00:36	13°₹42'46		direct	2995 Nov 17 08:43	14° <b>)</b> (04'38	
minimum elong	2990 Jan 04 00:37	13° <b>る</b> 42'47	0°42'36	evening set	2996 Feb 25 06:28	21° <b>) 1</b> 6′45	
max. Earth dist.	2990 Jan 03 21:37	13°₹41'53	11.01386 AU				
morning rise	2990 Jan 20 16:00	15° <b>⋜</b> 40'14		conjunction	2996 Mar 13 01:12	23° <b>∺</b> 18′24	-1°43'36
retrograde	2990 May 01 05:21	22° <b>る</b> 41'47		minimum elong	2996 Mar 13 01:10	23° <b>ℋ</b> 18′23	1°43'36
opposition	2990 Jul 10 13:05	19° <b>る</b> 24'02	0°36'28	max. Earth dist.	2996 Mar 12 21:36	23° <b>∺</b> 17'18	10.74756 AU
min. Earth dist.	2990 Jul 10 16:05	19° <b>る</b> 23'29	9.01918 AU	morning rise	2996 Mar 29 23:26	25° <b>∺</b> 21'07	
direct	2990 Sep 19 08:51	16° <b>පි</b> 04'52		•	2996 May 12 14:15	$0^{\circ}\Upsilon$	
evening set	2990 Dec 29 19:07	23°る08'52		retrograde	2996 Jul 12 14:24	2° <b>Y</b> 53'40	
					2996 Sep 14 13:41	30°R <b>)</b> €	
conjunction	2991 Jan 15 11:01	25° <b>පි</b> 06'26	0°16'44	opposition	2996 Sep 21 02:31	29° <b>)</b> (30'12	2017/42
•	2991 Jan 15 11:01	25°₹06'26	0°16'44	min. Earth dist.	-	29° <b>H</b> 29'43	
minimum elong					2996 Sep 21 04:59		8.09947 AU
max. Earth dist.	2991 Jan 15 07:03		11.01913 AU	direct	2996 Nov 28 17:07	26° <b>)</b> 10′27	
morning rise	2991 Feb 01 02:45	27° <b>る</b> 03'57			2997 Feb 05 15:51	0° <b>Υ</b>	
	2991 Feb 27 23:16	0° <b>≈</b>		evening set	2997 Mar 08 14:44	3° <b>Y</b> 28′07	
retrograde	2991 May 13 03:49	4° <b>≈</b> 07'22					
opposition	2991 Jul 22 17:57	0° <b>≈</b> 49'11	0°04'13	conjunction	2997 Mar 25 11:42	5° <b>Ƴ</b> 31'37	-1°58'52
min. Earth dist.	2991 Jul 22 21:09	0° <b>≈</b> 48'36	9.01399 AU	minimum elong	2997 Mar 25 11:40	5° <b>Ƴ</b> 31'36	1°58'52
	2991 Aug 02 23:06	30°Ŗ₹		max. Earth dist.	2997 Mar 25 09:34	5° <b>Ƴ</b> 30'57	10.64774 AU
desc. node	2991 Sep 09 11:12	27°る53'34		morning rise	2997 Apr 11 12:29	7° <b>Ƴ</b> 36'20	
direct	2991 Oct 01 09:14	27° <b>る</b> 30'31		retrograde	2997 Jul 25 20:48	15° <b>Ƴ</b> 17'18	
	2991 Nov 26 20:38	0° <b>≈</b>		opposition	2997 Oct 04 01:17	11°Y52'25	-2°33'41
evening set	2992 Jan 10 06:02	0 <b>~</b> 4° <b>≈</b> 33'18		min. Earth dist.	2997 Oct 04 01:17 2997 Oct 04 02:28		8.59638 AU
evening set	2992 Jan 10 00.02	4 ≈33 16		direct		8° <b>Υ</b> 31'47	6.39036 AU
	2002 1 26 21 45	60 - 21101	000015.4		2997 Dec 11 04:39		
conjunction	2992 Jan 26 21:45	6° <b>≈</b> 31'01		evening set	2998 Mar 21 06:53	15° <b>Ƴ</b> 55'54	
minimum elong	2992 Jan 26 21:45	6° <b>≈</b> 31'01	0°09'54				
behind sun begin	2992 Jan 26 16:03	6° <b>≈</b> 29'20		conjunction	2998 Apr 07 06:39	18° <b>Ƴ</b> 01'33	
behind sun end	2992 Jan 27 03:28	6° <b>≈</b> 32'41		minimum elong	2998 Apr 07 06:38	18° <b>Ƴ</b> 01'32	2°08'53
max. Earth dist.	2992 Jan 26 18:13	6° <b>≈</b> 29'59	11.00367 AU	max. Earth dist.	2998 Apr 07 05:17	18° <b>Ƴ</b> 01'07	10.54205 AU
morning rise	2992 Feb 12 14:01	8° <b>≈</b> 28'54		morning rise	2998 Apr 24 10:38	20° <b>Y</b> 08'33	
	2992 Apr 27 05:39	15° <b>≈</b>		retrograde	2998 Aug 08 10:12	27° <b>Ƴ</b> 57'58	
retrograde	2992 May 24 07:05	15°≈35'36		opposition	2998 Oct 17 05:12	24° <b>Ƴ</b> 31'43	-2°42'41
•	2992 Jun 20 17:29	15°R≈		min. Earth dist.	2998 Oct 17 05:33	24° <b>Ƴ</b> 31'39	8.48983 AU
opposition	2992 Aug 02 23:52	12°≈16'44	-0°28'19	direct	2998 Dec 23 20:21	21°Υ10'02	
min. Earth dist.	2992 Aug 03 02:29	12°≈16'15	8.98817 AU	evening set	2999 Apr 03 07:32	28° <b>Υ</b> 41'17	
direct	2992 Oct 12 08:09	8°≈58'21	0.90017710	evening set	2999 Apr 13 21:18	0°8	
direct	2992 Oct 12 08:09 2993 Jan 11 20:39	8 ≈3821 15°≈			2999 Apr 13 21.16	00	
. ,					2000 4 20 10 46	00 40110	2012140
evening set	2993 Jan 20 18:15	16° <b>≈</b> 01'16		conjunction	2999 Apr 20 10:46	0° <b>8</b> 49'19	
				minimum elong	2999 Apr 20 10:46	0° <b>8</b> 49'19	
conjunction	2993 Feb 06 10:11	17° <b>≈</b> 59'27		max. Earth dist.	2999 Apr 20 09:52		10.43560 AU
minimum elong	2993 Feb 06 10:10	17° <b>≈</b> 59'27	0°36'10	morning rise	2999 May 07 18:37	2° <b>8</b> 58'48	
max. Earth dist.	2993 Feb 06 07:13	17° <b>≈</b> 58'35	10.96752 AU	retrograde	2999 Aug 22 04:25	10° <b>8</b> 56'14	
morning rise	2993 Feb 23 03:15	19° <b>≈</b> 58′03		opposition	2999 Oct 30 14:13	7° <b>8</b> 28'46	-2°43'45
retrograde	2993 Jun 05 12:54	27° <b>≈</b> 09'26		min. Earth dist.	2999 Oct 30 14:08	7° <b>8</b> 28'47	8.38503 AU
opposition	2993 Aug 15 07:36	23° <b>≈</b> 49'39	-0°59'59	direct	3000 Jan 05 20:20	4° <b>8</b> 05'54	
min. Earth dist.	2993 Aug 15 09:56	23° <b>≈</b> 49'13	8.94196 AU	evening set	3000 Apr 16 17:18	11° <b>8</b> 44'40	
direct	2993 Oct 24 06:23	20° <b>≈</b> 31'17		Č	•		
evening set	2994 Feb 01 09:35	27°≈35'51		conjunction	3000 May 04 00:45	13° <b>8</b> 55'17	-2°10'00
		_,		minimum elong	3000 May 04 00:46	13° <b>8</b> 55'17	
conjunction	2994 Feb 18 01:55	29° <b>≈</b> 34'50	1001114	max. Earth dist.	3000 May 04 00:48		10.33368 AU
•				max. Earm dist.	,	15° <b>8</b>	10.33308 AU
minimum elong	2994 Feb 18 01:53	29°≈34'50			3000 May 12 13:31		
max. Earth dist.	2994 Feb 17 22:13		10.91127 AU	morning rise	3000 May 21 12:55	16° <b>8</b> 07'22	
	2994 Feb 21 14:00	0° <b>∀</b>		retrograde	3000 Sep 05 04:33	24° <b>8</b> 11'50	
morning rise	2994 Mar 06 20:16	1° <b>)</b> 34′28		opposition	3000 Nov 13 03:51	20° <b>8</b> 43'22	
retrograde	2994 Jun 18 00:22	8° <b>¥</b> 51'50		min. Earth dist.	3000 Nov 13 03:29		8.28727 AU
opposition	2994 Aug 27 17:59	5° <b>₩</b> 30'59	-1°29'36	direct	3001 Jan 19 02:37	17° <b>8</b> 19'15	
min. Earth dist.	2994 Aug 27 20:57	5° <b>)</b> 30′26	8.87641 AU	evening set	3001 Apr 30 12:08	25° <b>8</b> 05'31	
direct	2994 Nov 05 06:31	2° <b>升</b> 12′23					
evening set	2995 Feb 13 05:16	9° <b>)</b> 20′05		conjunction	3001 May 18 00:21	27° <b>8</b> 18'46	-2°00'11
-				minimum elong	3001 May 18 00:24	27° <b>8</b> 18'47	2°00'11
conjunction	2995 Mar 01 22:27	11° <b>)</b> 20′14	-1°24'03	max. Earth dist.	3001 May 18 01:20		10.24152 AU
minimum elong	2995 Mar 01 22:24	11° <b>)</b> (20'13		morning rise	3001 Jun 04 16:57	29° <b>8</b> 33'25	
max. Earth dist.	2995 Mar 01 18:06		10.83680 AU		3001 Jun 08 06:26	0°II	
morning rise	2995 Mar 18 18:33	13°\(\frac{1}{21'15}\)	10.05000 AU	retrograde	3001 Sep 19 09:50	7° <b>Ⅱ</b> 43'28	
•		20°\(\frac{13}{45'46}\)		•	•	7 <b>П</b> 43 28 4° <b>П</b> 14'17	2010/50
retrograde	2995 Jun 30 16:28		1055155	opposition	3001 Nov 26 21:50		
opposition	2995 Sep 09 08:10	17° <b>)</b> 23'41		min. Earth dist.	3001 Nov 26 20:38		8.20170 AU
min. Earth dist.	2995 Sep 09 11:19	1/~ <b>大</b> 23'06	8.79428 AU	direct	3002 Feb 01 15:17	0° <b>Ⅱ</b> 48'56	

evening set	3002 May 14 15:30	8° <b>Ⅱ</b> 42'18		morning rise	3007 Aug 31 20:42	23° <b>Ω</b> 22'44	
					3007 Nov 03 18:20	0° <b>™</b>	
conjunction	3002 Jun 01 08:35	10° <b>Ⅱ</b> 58'03	-1°43'31	retrograde	3007 Dec 13 05:15	1° <b>m</b> 24'21	
minimum elong	3002 Jun 01 08:38	10° <b>Ⅱ</b> 58'04	1°43'31		3008 Jan 22 04:49	$30^\circ$ R $\Omega$	
max. Earth dist.	3002 Jun 01 11:10		10.16411 AU	opposition	3008 Feb 17 21:21	27° <b>Ω</b> 57'44	1°10'56
morning rise	3002 Jun 19 05:22	13° <b>Ⅱ</b> 15′00		min. Earth dist.	3008 Feb 17 18:07	27° <b>Ω</b> 58′23	8.14772 AU
retrograde	3002 Oct 03 18:38	21° <b>Ⅱ</b> 28'51		direct	3008 Apr 25 16:07	24° <b>Ω</b> 28'27	
opposition	3002 Dec 10 19:21	17° <b>Ⅱ</b> 59'13	-1°55'25		3008 Jul 18 17:18	0° <b>m</b> ∕	
min. Earth dist.	3002 Dec 10 16:57		8.13318 AU	evening set	3008 Aug 09 12:08	2° <b>™</b> 37'37	
direct	3003 Feb 15 10:19	14° <b>Ⅱ</b> 32'44					
evening set	3003 May 29 02:45	22° <b>Ⅱ</b> 32′26		conjunction	3008 Aug 27 12:23	4° M 55′04	1°11'02
				minimum elong	3008 Aug 27 12:20	4° <b>™</b> 55'03	1°11'02
conjunction	3003 Jun 16 00:19	24° <b>Ⅱ</b> 50'19	-1°20'40	max. Earth dist.	3008 Aug 27 16:00	4° Mp 56′14	10.18204 AU
minimum elong	3003 Jun 16 00:22	24° <b>Ⅱ</b> 50′20		morning rise	3008 Sep 14 09:54	7° <b>m</b> ,11'39	
max. Earth dist.	3003 Jun 16 04:07		10.10607 AU	retrograde	3008 Dec 25 22:44	15°₩06'08	
morning rise	3003 Jul 04 00:41	27° <b>Ⅱ</b> 09'08		opposition	3009 Mar 02 16:13	11° <b>m</b> 40'49	1°44'03
	3003 Jul 27 12:18	0ංම		min. Earth dist.	3009 Mar 02 12:46	11° <b>m</b> y41'31	8.22156 AU
retrograde	3003 Oct 18 05:02	5° <b>©</b> 24'38		direct	3009 May 09 22:26	8° Mp 11'54	
opposition	3003 Dec 24 19:21	1° <b>©</b> 54'56		evening set	3009 Aug 24 01:30	16° Mp 17′29	
min. Earth dist.	3003 Dec 24 16:04		8.08592 AU				
	3004 Jan 18 12:31	30°RⅡ		conjunction	3009 Sep 10 22:07	18° <b>m</b> 32'40	1°35'24
direct	3004 Feb 29 10:13	28° <b>Ⅲ</b> 27′23		minimum elong	3009 Sep 10 22:03	18° <b>m</b> 32'39	1°35'24
	3004 Apr 10 17:26	0ంల		max. Earth dist.	3009 Sep 11 01:48	18° <b>™</b> 33'51	10.26441 AU
evening set	3004 Jun 11 20:21	6°932'17		morning rise	3009 Sep 28 15:02	20° Mp 46'43	
				retrograde	3010 Jan 08 10:46	28° Mp 33'23	
conjunction	3004 Jun 29 21:30	8° <b>ॐ</b> 51'44	-0°52'52	opposition	3010 Mar 16 07:01	25° <b>m</b> 09'25	2°10'44
minimum elong	3004 Jun 29 21:32	8° <b>©</b> 51'45	0°52'51	min. Earth dist.	3010 Mar 16 03:35	25° Mp 10'06	8.31178 AU
max. Earth dist.	3004 Jun 30 01:56	8°953'10	10.07094 AU	direct	3010 May 24 00:38	21°Mp41'08	
morning rise	3004 Jul 18 00:23	11°911'46		evening set	3010 Sep 07 06:45	29° <b>m</b> 41'30	
retrograde	3004 Oct 31 16:03	19° <b>©</b> 26'42			3010 Sep 09 18:38	0∘ <b>ত</b>	
opposition	3005 Jan 06 20:52	15° <b>©</b> 57'18	-0°46'49				
min. Earth dist.	3005 Jan 06 17:13	15° <b>©</b> 58'04	8.06291 AU	conjunction	3010 Sep 24 23:06	1° <b>£</b> 54'06	1°54'10
direct	3005 Mar 14 14:01	12° <b>©</b> 28'54		minimum elong	3010 Sep 24 23:04		1°54'09
evening set	3005 Jun 26 18:13	20°537'33		max. Earth dist.	3010 Sep 25 02:43		10.36054 AU
				morning rise	3010 Oct 12 11:06	4° <b>≏</b> 05'23	
conjunction	3005 Jul 14 21:31	22° <b>©</b> 57'47		retrograde	3011 Jan 21 15:42	11° <b>≏</b> 43'56	
minimum elong	3005 Jul 14 21:32	22° <b>©</b> 57'47		opposition	3011 Mar 29 17:07	8° <b>£</b> 21'19	2°29'51
max. Earth dist.	3005 Jul 15 01:57		10.06099 AU	min. Earth dist.	3011 Mar 29 14:33	8° <b>≏</b> 21'49	8.41300 AU
morning rise	3005 Aug 02 01:26	25° <b>©</b> 18'12		direct	3011 Jun 06 22:22	4° <b>£</b> 53'50	
	3005 Sep 11 15:50	$0^{\circ}\Omega$		evening set	3011 Sep 21 02:55	12° <b>≏</b> 47'48	
retrograde	3005 Nov 15 01:09	3° <b>Ω</b> 30′27					
opposition	3006 Jan 20 22:34	0° <b>Ω</b> 01'42		conjunction	3011 Oct 08 14:42	14° <b>≏</b> 57'40	2°06'36
min. Earth dist.	3006 Jan 20 19:07		8.06581 AU	minimum elong	3011 Oct 08 14:40	14° <b>≏</b> 57'39	
	3006 Jan 21 06:48	30° <b>₹</b> 5		max. Earth dist.	3011 Oct 08 17:13		10.46484 AU
asc. node	3006 Mar 27 03:20	26°932'52		morning rise	3011 Oct 25 21:51	17° <b>≏</b> 06'09	
direct	3006 Mar 28 21:06	26°932'42		retrograde	3012 Feb 03 12:13	24° <b>≏</b> 36'40	
	3006 May 31 18:41	$0$ $\circ$ $\Omega$		opposition	3012 Apr 10 22:09	21° <b>≙</b> 15'21	
evening set	3006 Jul 11 17:54	4° <b>Ω</b> 43'24		min. Earth dist.	3012 Apr 10 20:55	21° <b>£</b> 15'35	8.51946 AU
		O :		direct	3012 Jun 19 15:37	17° <b>≏</b> 48'49	
conjunction	3006 Jul 29 21:45	7° <b>Ω</b> 03'31	0°10'41	evening set	3012 Oct 03 13:04	25° <b>£</b> 35'32	
minimum elong	3006 Jul 29 21:45	7° <b>Ω</b> 03'31	0°10'41		2012 6 - 20 - 21	0.000	2012:20
behind sun begin	3006 Jul 29 16:09	7° <b>Ω</b> 01'43		conjunction	3012 Oct 20 20:24	27° <b>£</b> 42'44	2°12'29
behind sun end	3006 Jul 30 03:21	7° <b>Ω</b> 05'19		minimum elong	3012 Oct 20 20:23	27° <b>£</b> 42'44	
max. Earth dist.	3006 Jul 30 01:51		10.07709 AU	max. Earth dist.	3012 Oct 20 21:12		10.57149 AU
morning rise	3006 Aug 17 01:06	9° <b>Ω</b> 23'28		morning rise	3012 Nov 06 23:16	29° <b>£</b> 48'35	
	3006 Oct 06 12:55	15° <b>Ω</b>			3012 Nov 08 13:08	0°M	
retrograde	3006 Nov 29 06:26	17° <b>Ω</b> 31'09		retrograde	3013 Feb 15 02:56	7°M11'36	
	3007 Jan 23 08:11	15°R <b>Ω</b>		opposition	3013 Apr 23 22:13	3°M51'24	
opposition	3007 Feb 03 23:06	14° <b>Ω</b> 03'21	0°33'10	min. Earth dist.	3013 Apr 23 22:11	3°M51'24	8.62518 AU
min. Earth dist.	3007 Feb 03 19:52	14° <b>Ω</b> 04'01	8.09470 AU	direct	3013 Jul 03 02:02	0°M25'57	
direct	3007 Apr 12 06:24	10° <b>Ω</b> 34'03		evening set	3013 Oct 16 13:02	8°M05'01	
	3007 Jun 24 23:49	15° <b>Ω</b>					
evening set	3007 Jul 26 16:44	18° <b>Ω</b> 44'56		conjunction	3013 Nov 02 16:29	10°M09'49	2°11'56
		0:		minimum elong	3013 Nov 02 16:30	10°M09'49	2°11'55
conjunction	3007 Aug 13 19:33	21° <b>Ω</b> 04'06	0°42'14	max. Earth dist.	3013 Nov 02 15:30		10.67450 AU
minimum elong	3007 Aug 13 19:31	21° <b>Ω</b> 04'06	0°42'14	morning rise	3013 Nov 19 15:46	12°M13'21	
max. Earth dist.	3007 Aug 13 23:21	21° <b>61</b> 05'20	10.11832 AU		3013 Dec 14 01:37	15° <b>M</b>	

retrograde	3014 Feb 27 11:36	19° <b>M</b> 29'42		morning rise	3020 Jan 28 15:16	22° <b>る</b> 28'39	
opposition	3014 May 06 17:24	16°M10'27	2°39'05	retrograde	3020 May 08 11:28	22 <b>3</b> 2037 29° <b>3</b> 31'43	
min. Earth dist.	3014 May 06 18:00	16°M10'20	8.72420 AU	opposition	3020 Jul 17 22:14	26°₹13'16	0°18'01
	3014 May 22 09:09	15°RM		min. Earth dist.	3020 Jul 18 01:25	26° <b>ප</b> 12'41	8.99968 AU
direct	3014 Jul 16 06:04	12°M46'08		direct	3020 Sep 26 16:49	22° <b>る</b> 53'52	
	3014 Sep 07 13:02	15° <b>M</b> ₊		evening set	3021 Jan 05 18:32	29° <b>ප</b> 57'41	
evening set	3014 Oct 29 03:53	20°M17'46		_	3021 Jan 06 02:30	0° <b>≈</b>	
conjunction	3014 Nov 15 04:09	22°M20'29	2°05'22	conjunction	3021 Jan 22 10:29	1°≈55'32	0°01'28
minimum elong	3014 Nov 15 04:11	22°M20'30	2°05'22	minimum elong	3021 Jan 22 10:29	1°≈55'31	0°01'29
max. Earth dist.	3014 Nov 15 02:21		10.76839 AU	behind sun begin	3021 Jan 22 03:30	1°≈53′29	
morning rise	3014 Dec 02 00:28	24°M22'04		behind sun end	3021 Jan 22 17:28	1°≈57'34	10 00105 177
. 1	3015 Jan 27 20:00	0° ⊀ <sup>7</sup>		max. Earth dist.	3021 Jan 22 06:18		10.99185 AU
retrograde	3015 Mar 11 16:21	1° ₹32'55 30°RM		morning rise desc. node	3021 Feb 08 02:30 3021 Feb 11 12:59	3°≈53'26 4°≈17'15	
opposition	3015 Apr 24 20:56 3015 May 19 08:16	28°M14'27	2027:23	retrograde	3021 Feb 11 12.39 3021 May 20 13:12	4 ≈1713 10°≈59'13	
min. Earth dist.	3015 May 19 09:31	28°M14'13	8.81184 AU	opposition	3021 Jul 30 03:58	7°≈40'04	-0°14'36
direct	3015 Jul 29 04:14	24°M51'17	0.01104710	min. Earth dist.	3021 Jul 30 07:39	7°≈39'23	8.97912 AU
	3015 Oct 21 10:17	0° <b>%</b>		direct	3021 Oct 08 15:07	4°≈20'55	0.57512110
evening set	3015 Nov 10 10:39	2° <b>∡</b> 15'57		evening set	3022 Jan 17 06:26	11° <b>≈</b> 24'23	
				-			
conjunction	3015 Nov 27 08:22	4° <b>₰</b> 17'00	1°53'26	conjunction	3022 Feb 02 22:15	13° <b>≈</b> 22'34	-0°25'10
minimum elong	3015 Nov 27 08:25	4° <b>₰</b> 17'01	1°53'26	minimum elong	3022 Feb 02 22:14	13° <b>≈</b> 22'34	0°25'10
max. Earth dist.	3015 Nov 27 06:07	4° <b>∤</b> 16'19	10.84940 AU	max. Earth dist.	3022 Feb 02 17:31	13° <b>≈</b> 21′10	10.96156 AU
morning rise	3015 Dec 14 02:25	6° <b>≯</b> 17'01			3022 Feb 16 15:04	15° <b>≈</b>	
retrograde	3016 Mar 22 19:01	13° <b>₹</b> 23'36		morning rise	3022 Feb 19 15:10	15° <b>≈</b> 21'05	
opposition	3016 May 30 19:57	10° <b>₹</b> 05'42	2°09'36	retrograde	3022 Jun 01 15:58	22°≈31'02	0046151
min. Earth dist.	3016 May 30 22:11	10° <b>₹</b> 05'17	8.88523 AU	opposition	3022 Aug 11 11:13	19°≈11'00	
direct	3016 Aug 09 18:56	6° ₹ 43'36 14° ₹ 01'58		min. Earth dist. direct	3022 Aug 11 14:59 3022 Oct 20 14:05	19°≈10'18 15°≈51'54	8.93936 AU
evening set	3016 Nov 21 10:31	14 X.01 38		evening set	3022 Oct 20 14.03 3023 Jan 28 20:29	13 ≈31 34 22°≈56'30	
conjunction	3016 Dec 08 06:08	16° <b>∡</b> *01'41	1°36'51	evening set	3023 Juli 20 20.2)	22 ~30 30	
minimum elong	3016 Dec 08 06:10			conjunction	3023 Feb 14 12:39	24°≈55'21	-0°50'55
max. Earth dist.	3016 Dec 08 02:52	16° <b>∡</b> 00'43	10.91510 AU	minimum elong	3023 Feb 14 12:38	24°≈55'21	0°50'55
morning rise	3016 Dec 24 22:46	18° <b>₹</b> 00'34		max. Earth dist.	3023 Feb 14 08:34	24° <b>≈</b> 54'08	10.91255 AU
retrograde	3017 Apr 03 17:03	25° <b>х</b> 04′10		morning rise	3023 Mar 03 06:37	26° <b>≈</b> 54'45	
opposition	3017 Jun 12 04:52	21° <b>х</b> 46'32	1°46'43		3023 Mar 31 07:09	0° <b>∀</b>	
min. Earth dist.	3017 Jun 12 08:22	21° <b>₹</b> 45'53	8.94226 AU	retrograde	3023 Jun 14 01:25	4° <b>)</b> 10′15	
direct	3017 Aug 22 05:24	18° <b>≯</b> 25'21		opposition	3023 Aug 23 20:50	0° <b>)</b> 49′10	
evening set	3017 Dec 03 05:01	25° <b>≯</b> 38′21		min. Earth dist.	3023 Aug 23 23:41	0° <b>)</b> 48′38	8.88175 AU
	2017 D 10 22 02	250 72505	1017/20	11	3023 Sep 03 22:11	30°R≈	
conjunction	3017 Dec 19 23:02 3017 Dec 19 23:04	27° <b>尽</b> 37'05 27° <b>尽</b> 37'05		direct	3023 Nov 01 15:12	27° <b>≈</b> 29'59 0° <b>)</b> €	
minimum elong max. Earth dist.	3017 Dec 19 23:04 3017 Dec 19 18:25		1°16'29 10.96351 AU	evening set	3023 Dec 27 07:36 3024 Feb 09 14:22	4° <b>₩</b> 37'02	
morning rise	3017 Dec 19 18:23 3018 Jan 05 14:58	29° <b>х</b> 35'12	10.90331 AO	evening set	3024 100 09 14.22	4 <b>N</b> 3/02	
morning not	3018 Jan 09 04:35	0°る		conjunction	3024 Feb 26 07:21	6° <b>)</b> 36'55	-1°14'50
retrograde	3018 Apr 15 14:27	6° <b>ප</b> 37'10		minimum elong	3024 Feb 26 07:19	6° <b>)</b> (36'54	
opposition	3018 Jun 24 11:29	3° <b>ප</b> 19'32	1°19'47	max. Earth dist.	3024 Feb 26 04:35	6° <b>)</b> 36′05	10.84653 AU
min. Earth dist.	3018 Jun 24 15:20	3° <b>⋜</b> 18'49	8.98108 AU	morning rise	3024 Mar 14 02:40	8° <b>)</b> 37′33	
	3018 Aug 30 04:58	30°₹ <b>҂</b> 7		retrograde	3024 Jun 25 16:44	15° <b>)</b> 59′44	
direct	3018 Sep 03 13:08	29° <b>₹</b> 59'05		opposition	3024 Sep 04 09:40	12° <b>)</b> 37′29	-1°45'27
	3018 Sep 07 20:36	0° <b>ろ</b>		min. Earth dist.	3024 Sep 04 11:24		8.80839 AU
evening set	3018 Dec 14 19:28	7° <b>る</b> 07'47		direct	3024 Nov 12 16:12	9° <b>)</b> 18′02	
. ,.	2010 D 21 12 20	00=05154	0052111	evening set	3025 Feb 20 13:26	16° <b>¥</b> 28'54	
conjunction minimum elong	3018 Dec 31 12:28 3018 Dec 31 12:30	9°る05'54 9°る05'54		conjunction	3025 Mar 09 07:37	18° <b>)</b> 30′06	1025154
max. Earth dist.	3018 Dec 31 12:30 3018 Dec 31 07:52		10.99297 AU	minimum elong	3025 Mar 09 07:34	18° <b></b> ★30'06	
morning rise	3019 Jan 17 04:04	9 30432 11° <b>る</b> 03'36	10.77271 AU	max. Earth dist.	3025 Mar 09 05:12		1 33 33 10.76604 AU
retrograde	3019 Apr 27 12:12	11 003 30 18° <b>る</b> 05'23		morning rise	3025 Mar 26 04:52	20°\(\frac{7}{32'17}\)	10.7000T AU
opposition	3019 Jul 06 16:59	14° <b>る</b> 47'27	0°49'50	retrograde	3025 Jul 08 13:16	28° <b>)</b> 02'04	
min. Earth dist.	3019 Jul 06 20:26	14° <b>පි</b> 46'49	9.00040 AU	opposition	3025 Sep 17 02:31	24° <b>)</b> €38'38	-2°09'18
direct	3019 Sep 15 16:08	11° <b>る</b> 27'37		min. Earth dist.	3025 Sep 17 03:50	24° <b>)</b> € 38′23	8.72207 AU
evening set	3019 Dec 26 07:20	18° <b>පි</b> 33'12		direct	3025 Nov 24 21:14	21° <b>∺</b> 18'43	
				evening set	3026 Mar 04 19:00	28° <b>)</b> 34'37	
conjunction	3020 Jan 11 23:44	20° <b>පි</b> 31'01			3026 Mar 16 12:31	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	3020 Jan 11 23:45	20°る31'01			202635 21 11 55	00000====	1052107
max. Earth dist.	3020 Jan 11 19:52	20~029'52	11.00247 AU	conjunction	3026 Mar 21 14:53	0° <b>Ƴ</b> 37'29	-1~55'06

minimum elong	3026 Mar 21 14:51	0° <b>Ƴ</b> 37'28	1°53'06	conjunction	3032 Jun 09 07:28	19° <b>∏</b> 21'31	-1°30'38
max. Earth dist.	3026 Mar 21 12:29		10.67428 AU	minimum elong	3032 Jun 09 07:32	19° <b>Ⅱ</b> 21'32	
morning rise	3026 Apr 07 14:37	2° <b>Υ</b> 41'31	10.07 120 110	max. Earth dist.	3032 Jun 09 10:44		10.14220 AU
retrograde	3026 Jul 21 16:39	10° <b>Y</b> 19'31		morning rise	3032 Jun 27 06:28	21° <b>I</b> I39'29	
opposition	3026 Sep 29 23:52	6° <b>Y</b> ′54'52	-2°27'51	retrograde	3032 Oct 11 16:10	29° <b>∏</b> 54′06	
min. Earth dist.	3026 Sep 30 01:02	6° <b>Ƴ</b> 54'38	8.62642 AU	opposition	3032 Dec 18 09:52	26° <b>Ⅱ</b> 25'03	-1°37'21
direct	3026 Dec 07 06:42	3° <b>Ƴ</b> 34'19		min. Earth dist.	3032 Dec 18 07:13		8.11885 AU
evening set	3027 Mar 17 08:01	10° <b>Y</b> 56'15		direct	3033 Feb 22 23:53	22° <b>I</b> I58'33	
					3033 May 29 00:17	0ಂತ	
conjunction	3027 Apr 03 06:24	13° <b>Y</b> 01′06	-2°05'24	evening set	3033 Jun 06 03:04	1°900'55	
minimum elong	3027 Apr 03 06:23	13° <b>Y</b> 01′05	2°05'24				
max. Earth dist.	3027 Apr 03 04:59	13° <b>Y</b> 00′39	10.57535 AU	conjunction	3033 Jun 24 02:36	3° <b>5</b> 19'34	-1°04'42
morning rise	3027 Apr 20 09:07	15° <b>Ƴ</b> 07'16		minimum elong	3033 Jun 24 02:39	3° <b>©</b> 19'35	1°04'41
retrograde	3027 Aug 04 02:18	22° <b>Y</b> 53'43		max. Earth dist.	3033 Jun 24 05:55	3° <b>5</b> 20'39	10.09951 AU
opposition	3027 Oct 13 02:11	19° <b>Ƴ</b> 27'53	-2°39'51	morning rise	3033 Jul 12 04:37	5° <b>©</b> 38'59	
min. Earth dist.	3027 Oct 13 02:38	19° <b>Ƴ</b> 27'48	8.52581 AU	retrograde	3033 Oct 26 02:02	13° <b>©</b> 53'49	
direct	3027 Dec 19 21:50	16° <b>Ƴ</b> 06'34		opposition	3034 Jan 01 10:50	10° <b>5</b> 24'56	-1°02'22
evening set	3028 Mar 29 05:17	23° <b>Ƴ</b> 35′18		min. Earth dist.	3034 Jan 01 08:07	10° <b>©</b> 25'30	8.08642 AU
				direct	3034 Mar 09 02:40	6° <b>9</b> 57'30	
conjunction	3028 Apr 15 07:03	25° <b>Y</b> 42'25		evening set	3034 Jun 20 23:01	15° <b>©</b> 04'10	
minimum elong	3028 Apr 15 07:03	25° <b>Y</b> 42′25					
max. Earth dist.	3028 Apr 15 07:27		10.47383 AU	conjunction	3034 Jul 09 01:28	17° <b>©</b> 23'57	
morning rise	3028 May 02 13:16	27° <b>Y</b> ′50′57		minimum elong	3034 Jul 09 01:30	17° <b>©</b> 23'58	
	3028 May 20 16:41	0° <b>8</b>		max. Earth dist.	3034 Jul 09 05:09		10.07858 AU
retrograde	3028 Aug 16 18:21	5° <b>8</b> 45'36		morning rise	3034 Jul 27 05:09	19° <b>©</b> 44'07	
opposition	3028 Oct 25 09:29	2° <b>8</b> 18'42		retrograde	3034 Nov 09 11:45	27° <b>©</b> 57'13	
min. Earth dist.	3028 Oct 25 08:36	_	8.42498 AU	opposition	3035 Jan 15 12:25	24°528'47	
	3028 Nov 26 18:19	30°RΥ		min. Earth dist.	3035 Jan 15 09:12	24°529'27	8.07710 AU
direct	3028 Dec 31 19:57	28° <b>Y</b> 56′29		direct	3035 Mar 23 08:51	21°500'36	
. ,	3029 Feb 04 04:40	0°8		evening set	3035 Jul 05 22:08	29°©10'06	
evening set	3029 Apr 11 11:44	6° <b>8</b> 32'29			3035 Jul 12 10:35	$0^{\circ}\Omega$	
conjunction	3029 Apr 28 17:29	8° <b>8</b> 42'06	-2°11'55	conjunction	3035 Jul 24 02:01	1° <b>Ω</b> 30'12	-0°02'43
minimum elong	3029 Apr 28 17:30	8° <b>8</b> 42'06	2°11'54	minimum elong	3035 Jul 24 02:00	1° <b>Ω</b> 30′12	0°02'44
max. Earth dist.	3029 Apr 28 19:23	8° <b>8</b> 42'42	10.37470 AU	behind sun begin	3035 Jul 23 18:39	1° <b>Ω</b> 27'51	
morning rise	3029 May 16 03:38	10° <b>8</b> 53'07		behind sun end	3035 Jul 24 09:20	1° <b>Ω</b> 32'33	
-	3029 Jun 21 04:58	15° <b>8</b>		max. Earth dist.	3035 Jul 24 06:13	1° <b>Ω</b> 31'32	10.08171 AU
retrograde	3029 Aug 30 18:06	18° <b>8</b> 55'10		morning rise	3035 Aug 11 05:41	3° <b>£</b> 50′16	
opposition	3029 Nov 07 21:31	15° <b>8</b> 27'21	-2°40'16	asc. node	3035 Aug 24 04:49	5° <b>Ω</b> 26'50	
min. Earth dist.	3029 Nov 07 19:25	15° <b>8</b> 27'46	8.32902 AU	retrograde	3035 Nov 23 18:40	11° <b>Ω</b> 59'40	
	3029 Nov 13 15:19	15° <b>₹</b> 8		opposition	3036 Jan 29 13:19	8° <b>Ω</b> 31'55	0°16'50
direct	3030 Jan 13 22:34	12° <b>8</b> 04'09		min. Earth dist.	3036 Jan 29 09:45	8° <b>Ω</b> 32'39	8.09257 AU
	3030 Mar 13 06:55	15° <b>8</b>		direct	3036 Apr 05 17:02	5° <b>Ω</b> 03'12	
evening set	3030 Apr 25 03:16	19° <b>8</b> 47'32		evening set	3036 Jul 19 21:39	13° <b>Ω</b> 13'45	
					3036 Aug 02 18:01	15° <b>Ω</b>	
conjunction	3030 May 12 13:28	21° <b>8</b> 59'42					
minimum elong	3030 May 12 13:30	21° <b>8</b> 59'42		conjunction	3036 Aug 07 01:11	15° <b>Ω</b> 33'17	0°29'30
max. Earth dist.	3030 May 12 16:18	_	10.28322 AU	minimum elong	3036 Aug 07 01:09	15° <b>Ω</b> 33'16	0°29'29
morning rise	3030 May 30 03:59	24° <b>8</b> 13'16		max. Earth dist.	3036 Aug 07 05:28		10.10959 AU
	3030 Jul 22 15:52	0°II		morning rise	3036 Aug 25 03:13	17° <b>£</b> 52′23	
retrograde	3030 Sep 13 23:06	2° <b>I</b> 21'22		retrograde	3036 Dec 06 20:57	25° <b>£</b> 56′21	0055150
	3030 Nov 07 10:31	30°R <b>8</b>	2027122	opposition	3037 Feb 11 12:34	22° <b>£</b> 29'32	
opposition	3030 Nov 21 14:14	28° <b>8</b> 52'53		min. Earth dist.	3037 Feb 11 09:14	22° <b>Ω</b> 30'13	8.13252 AU
min. Earth dist.	3030 Nov 21 11:23 3031 Jan 27 07:50	28° <b>6</b> 33'28 25° <b>6</b> 28'37	8.24311 AU	direct	3037 Apr 20 01:50	19° <b>Ω</b> 00'32 27° <b>Ω</b> 10'10	
direct	3031 Jan 27 07.30 3031 Apr 11 03:55	23 <b>O</b> 2837 0° <b>Ⅱ</b>		evening set	3037 Aug 03 18:34	2/ 361010	
evening set	3031 Apr 11 03:33 3031 May 09 03:32	3° <b>Ⅱ</b> 19'04		conjunction	3037 Aug 21 20:04	29° <b>Ω</b> 28'18	0°59'38
evening set	3031 Way 09 03.32	J 11704		minimum elong	3037 Aug 21 20:04 3037 Aug 21 20:01	$29^{\circ}\Omega 28'17$	
conjunction	3031 May 26 18:26	5° <b>Ⅱ</b> 33'43	-1°51'03	max. Earth dist.	3037 Aug 21 20:01 3037 Aug 21 23:56		10.16084 AU
minimum elong	3031 May 26 18:29	5° <b>∏</b> 33'44		max. Lattii Ulst.	3037 Aug 21 23:50 3037 Aug 25 22:51	0° m)	10.1000 <del>1</del> AU
max. Earth dist.	3031 May 26 21:33		10.20437 AU	morning rise	3037 Sep 08 19:01	1° Mp 45'40	
morning rise	3031 May 20 21:33 3031 Jun 13 13:26	7° <b>∏</b> 49'40	10.20 <del>1</del> 3 / AU	retrograde	3037 Dec 20 17:13	9° Mp 42'56	
retrograde	3031 Sep 28 07:06	16° <b>Ⅱ</b> 02'04		opposition	3037 Bec 20 17:13 3038 Feb 25 08:51	6° Mp 17'11	1°31'05
opposition	3031 Dec 05 10:46	10 <b>H</b> 02 04 12° <b>H</b> 33'09	-2°06'16	min. Earth dist.	3038 Feb 25 06:08	6° Mp 17'44	8.19463 AU
min. Earth dist.	3031 Dec 05 10:46		8.17189 AU	direct	3038 May 04 08:58	2° Mp 48'11	110
direct	3032 Feb 10 00:39	9° <b>Ⅱ</b> 07'45		evening set	3038 Aug 18 10:27	10° <b>m</b> 55'00	
evening set	3032 May 22 11:58	17° <b>Ⅱ</b> 04'39		<b>3</b>		4	
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conjunction	3038 Sep 05 08:39	13° <b>m</b> )11'07	1925!50	conjunction	3044 Nov 21 14:39	29°M29'55	1°59'10
minimum elong	3038 Sep 05 08:35	13° Mp 11'06	1°25'59	minimum elong	3044 Nov 21 14:40	29°M29'56	1°59'11
max. Earth dist.	3038 Sep 05 08:33		10.23238 AU	max. Earth dist.	3044 Nov 21 12:38		10.81335 AU
morning rise	3038 Sep 23 03:30	15° Mp 26'10	10.23230 110	max. Earth dist.	3044 Nov 25 18:30	0° <b>x</b> <sup>7</sup>	10.01333 710
retrograde	3039 Jan 03 06:48	23° m) 15'49		morning rise	3044 Dec 08 09:41	1°×730'32	
opposition	3039 Mar 11 01:04	19° <b>m</b> ) 51'14	2°00'35	retrograde	3045 Mar 17 23:40	8°×38'21	
min. Earth dist.	3039 Mar 10 23:11	19° <b>m</b> 51'37		opposition	3045 May 25 22:19	5° <b>×</b> 19'51	2°17'56
direct	3039 May 18 13:42	16° m/22'30	0.27000110	min. Earth dist.	3045 May 25 23:49	5° <b>х</b> 19'34	8.85476 AU
evening set	3039 Sep 01 19:04	24° m) 24'51		direct	3045 Aug 04 20:51	1° <b>₹</b> 56'56	0.00 170110
				evening set	3045 Nov 16 17:50	9° <b>х</b> 17'25	
conjunction	3039 Sep 19 13:08	26° m 38'29	1°47'10	<i>8</i>			
minimum elong	3039 Sep 19 13:04	26° m/38'28	1°47'10	conjunction	3045 Dec 03 14:15	11° <b>∡</b> 17'35	1°44'29
max. Earth dist.	3039 Sep 19 14:50	26° m/39'02	10.31978 AU	minimum elong	3045 Dec 03 14:17	11° <b>҂</b> 17'36	1°44'30
morning rise	3039 Oct 07 03:20	28° m 50'54		max. Earth dist.	3045 Dec 03 11:54	11° <b>∡</b> 16'53	10.89046 AU
C	3039 Oct 16 14:07	0∘ <u>ଫ</u>		morning rise	3045 Dec 20 07:35	13° <b>∡</b> 16′50	
retrograde	3040 Jan 16 12:35	6° <b>₽</b> 32'30		retrograde	3046 Mar 29 22:20	20° <b>≯</b> 20'58	
opposition	3040 Mar 23 12:45	3° <b>ჲ</b> 09'06	2°22'57	opposition	3046 Jun 07 07:21	17° <b>∡</b> 02'58	1°57'07
min. Earth dist.	3040 Mar 23 11:11	3° <b>ഫ</b> 09'25	8.36874 AU	min. Earth dist.	3046 Jun 07 08:42	17° <b>∡</b> 02'43	8.92396 AU
	3040 May 12 09:56	30° <b>₽, M</b> )		direct	3046 Aug 17 09:21	13° <b>∡</b> ′41′13	
direct	3040 May 31 14:41	29° <b>m</b> 40'56		evening set	3046 Nov 28 13:40	20° <b>₹</b> 55'48	
	3040 Jun 19 18:07	0∘ <b>⊽</b>					
evening set	3040 Sep 14 18:38	7° <b>≏</b> 37'24		conjunction	3046 Dec 15 08:26	22° <b>∡</b> 54'47	1°25'40
-	•			minimum elong	3046 Dec 15 08:28	22° <b>₹</b> 54'48	1°25'40
conjunction	3040 Oct 02 08:14	9° <b>≏</b> 48'21	2°02'17	max. Earth dist.	3046 Dec 15 06:22	22° <b>₹</b> '54'10	10.95163 AU
minimum elong	3040 Oct 02 08:12	9° <b>≏</b> 48'21	2°02'17	morning rise	3047 Jan 01 00:30	24° <b>₹</b> ¹53'02	
max. Earth dist.	3040 Oct 02 09:22	9° <b>≙</b> 48'43	10.41785 AU		3047 Feb 21 05:22	0°రె	
morning rise	3040 Oct 19 17:34	11° <b>≏</b> 58'00		retrograde	3047 Apr 10 21:03	1° <b>る</b> 54'51	
retrograde	3041 Jan 28 11:20	19° <b>≏</b> 31'36		•	3047 May 31 10:06	30°R. <b>✓</b>	
opposition	3041 Apr 05 19:27	16° <b>≏</b> 09'21	2°37'22	opposition	3047 Jun 19 13:57	28° <b>渘</b> ³37′10	1°31'49
min. Earth dist.	3041 Apr 05 17:56	16° <b>≏</b> 09'39	8.47037 AU	min. Earth dist.	3047 Jun 19 15:48	28° <b>渘</b> 36′50	8.97599 AU
direct	3041 Jun 14 10:11	12° <b>≏</b> 41'59		direct	3047 Aug 29 16:39	25° <b>҂</b> 16′27	
evening set	3041 Sep 28 08:24	20° <b>₽</b> 31'32			3047 Nov 18 06:01	0°ರ	
				evening set	3047 Dec 10 04:59	2° <b>る</b> 26'10	
conjunction	3041 Oct 15 17:40	22° <b>₽</b> 39'51	2°10'54				
minimum elong	3041 Oct 15 17:39	22° <b>₽</b> 39'50	2°10'53	conjunction	3047 Dec 26 22:25	4° <b>る</b> 24'20	1°03'33
max. Earth dist.	3041 Oct 15 18:42	22° <b>≙</b> 40'10	10.52126 AU	minimum elong	3047 Dec 26 22:27	4°る24'20	1°03'33
morning rise	3041 Nov 01 22:22	24° <b>≙</b> 46'47		max. Earth dist.	3047 Dec 26 19:41	4° <b>ප</b> 23'31	10.99466 AU
	3041 Dec 21 08:30	0°M₊		morning rise	3048 Jan 12 13:55	6° <b>る</b> 21'59	
retrograde	3042 Feb 10 05:32	2°M12'43		retrograde	3048 Apr 21 17:53	13° <b>る</b> 22'52	
	3042 Apr 03 23:14	30° <b>ŖΩ</b>		opposition	3048 Jun 30 19:16	10° <b>පි</b> 05'16	1°03'05
opposition	3042 Apr 18 21:00	28° <b>≙</b> 51'34	2°43'40	min. Earth dist.	3048 Jun 30 22:01	10° <b>ට</b> 04'46	9.00913 AU
min. Earth dist.	3042 Apr 18 19:54	28° <b>♀</b> 51'47	8.57462 AU	direct	3048 Sep 09 18:23	6° <b>る</b> 45'27	
direct	3042 Jun 27 21:35	25° <b>≏</b> 25'10		evening set	3048 Dec 20 17:10	13° <b>る</b> 51'27	
	3042 Sep 14 00:09	0°M₊					
evening set	3042 Oct 11 12:09	3°ML07'16		conjunction	3049 Jan 06 09:36	15° <b>る</b> 49'08	0°39'03
				minimum elong	3049 Jan 06 09:37	15° <b>る</b> 49'08	0°39'02
conjunction	3042 Oct 28 17:25	5°M13'06	2°13'00	max. Earth dist.	3049 Jan 06 05:53	15° <b>る</b> 48'02	11.01809 AU
minimum elong	3042 Oct 28 17:26	5°M13′06	2°13'00	morning rise	3049 Jan 23 01:08	17° <b>る</b> 46'33	
max. Earth dist.	3042 Oct 28 18:05	5°M13′18	10.62479 AU	retrograde	3049 May 03 14:27	24° <b>පි</b> 48'00	
morning rise	3042 Nov 14 18:05	7° <b>M</b> .17'35		opposition	3049 Jul 12 23:49	21° <b>る</b> 30'12	0°32'00
retrograde	3043 Feb 22 16:26	14°M36'28		min. Earth dist.	3049 Jul 13 03:04	21° <b>පි</b> 29'36	9.02223 AU
opposition	3043 May 01 17:46	11°ML16'21	2°42'05	direct	3049 Sep 21 20:25	18° <b>る</b> 11'04	
min. Earth dist.	3043 May 01 17:48	11°ML16'20	8.67637 AU	evening set	3050 Jan 01 03:56	25° <b>る</b> 14'41	
direct	3043 Jul 11 03:08	7°M51'03					
	3043 Oct 20 15:52	15° <b>M</b> ₊		conjunction	3050 Jan 17 19:52	27°る12'13	0°13'04
evening set	3043 Oct 24 06:28	15°M25'36		minimum elong	3050 Jan 17 19:53	27°る12'13	0°13'04
				behind sun begin	3050 Jan 17 15:35	27° <b>る</b> 10'58	
conjunction	3043 Nov 10 08:06	17° <b>M</b> 29'11	2°08'55	behind sun end	3050 Jan 18 00:11	27° <b>る</b> 13'29	
minimum elong	3043 Nov 10 08:07	17°ML29'11	2°08'55	max. Earth dist.	3050 Jan 17 16:06		11.02103 AU
max. Earth dist.	3043 Nov 10 07:32		10.72355 AU	morning rise	3050 Feb 03 11:40	29° <b>る</b> 09'43	
morning rise	3043 Nov 27 05:32	19°MJ31'33			3050 Feb 10 19:22	0° <b>≈</b>	
retrograde	3044 Mar 05 21:39	26°M44'20		retrograde	3050 May 15 14:39	6° <b>≈</b> 13'11	
opposition	3044 May 13 10:02	23°M25'07		desc. node	3050 Jul 21 14:18	3° <b>≈</b> 10'48	
min. Earth dist.	3044 May 13 11:12	23°M24'54	8.77107 AU	opposition	3050 Jul 25 04:22	2°≈54'56	
direct	3044 Jul 23 03:19	20°M00'59		min. Earth dist.	3050 Jul 25 07:05		9.01470 AU
evening set	3044 Nov 04 16:00	27°M28'15			3050 Sep 11 13:33	30°₹ <b>⋜</b>	
				direct	3050 Oct 03 19:52	29° <b>る</b> 36'18	

evening set	3050 Oct 25 18:05 3051 Jan 12 14:46	0°≈ 6°≈38'52		opposition min. Earth dist. direct	3056 Oct 06 13:08 3056 Oct 06 14:17 3056 Dec 13 14:14	14° <b>Υ</b> 02'28 14° <b>Υ</b> 02'15 10° <b>Υ</b> 41'48	-2°35'11 8.58799 AU
conjunction	3051 Jan 29 06:36	8° <b>≈</b> 36'35	-0°13'34	evening set	3057 Mar 23 18:25	18° <b>Ƴ</b> 06'34	
minimum elong	3051 Jan 29 06:36	8° <b>≈</b> 36'34	0°13'33				
behind sun begin	3051 Jan 29 02:36	8° <b>≈</b> 35'24		conjunction	3057 Apr 09 18:25	20° <b>Y</b> 12′25	
behind sun end	3051 Jan 29 10:35	8° <b>≈</b> 37'45		minimum elong	3057 Apr 09 18:24	20° <b>Y</b> 12′24	
max. Earth dist.	3051 Jan 29 03:35		11.00322 AU	max. Earth dist.	3057 Apr 09 16:11		10.53319 AU
morning rise	3051 Feb 14 22:51	10° <b>≈</b> 34′29		morning rise	3057 Apr 26 22:49	22° <b>Y</b> 19'38	
	3051 Mar 29 16:32	15° <b>≈</b>		_	3057 Jul 28 01:19	0°8	
retrograde	3051 May 27 16:58	17°≈41'24		retrograde	3057 Aug 10 22:59	0° <b>8</b> 09'50	
	3051 Jul 28 22:16	15°R≈	0000115	*.*	3057 Aug 24 20:49	30°RΥ	20.424.4
opposition	3051 Aug 06 10:15	14°≈22'27		opposition	3057 Oct 19 17:38	26° <b>Y</b> 43'32	
min. Earth dist.	3051 Aug 06 12:36	14°≈22'01	8.98664 AU	min. Earth dist.	3057 Oct 19 18:36	26° <b>Y</b> 43'21	8.48061 AU
direct	3051 Oct 15 17:08 3051 Dec 26 14:15	11°≈04'06 15°≈		direct	3057 Dec 26 08:11	23° <b>Y</b> 21'47 0° <b>႘</b>	
ovening set	3052 Jan 24 03:09	13 ≈ 18°≈06'59		evening set	3058 Mar 29 10:44 3058 Apr 05 20:00	0° <b>と</b> 53'48	
evening set	3032 Jan 24 03.09	16 200 39		evening set	3038 Apr 03 20.00	0 03346	
conjunction	3052 Feb 09 19:02	20° <b>≈</b> 05'12	-0°39'42	conjunction	3058 Apr 22 23:35	3° <b>8</b> 02'05	-2°12'44
minimum elong	3052 Feb 09 19:01	20° <b>≈</b> 05'11	0°39'41	minimum elong	3058 Apr 22 23:36	3° <b>8</b> 02'05	2°12'44
max. Earth dist.	3052 Feb 09 15:47	20°≈04'14	10.96505 AU	max. Earth dist.	3058 Apr 22 22:07	3° <b>8</b> 01'37	10.42617 AU
morning rise	3052 Feb 26 12:13	22°≈03'50		morning rise	3058 May 10 07:53	5° <b>8</b> 11'49	
retrograde	3052 Jun 07 24:00	29° <b>≈</b> 15'35		retrograde	3058 Aug 24 18:20	13° <b>8</b> 10'01	
opposition	3052 Aug 17 18:11	25° <b>≈</b> 55'43	-1°04'09	opposition	3058 Nov 02 03:11	9° <b>8</b> 42'31	-2°43'09
min. Earth dist.	3052 Aug 17 20:55	25° <b>≈</b> 55'13	8.93872 AU	min. Earth dist.	3058 Nov 02 03:40	9° <b>8</b> 42'26	8.37549 AU
direct	3052 Oct 26 16:04	22° <b>≈</b> 37′21		direct	3059 Jan 08 08:29	6° <b>8</b> 19'35	
evening set	3053 Feb 03 18:44	29° <b>≈</b> 42′01		evening set	3059 Apr 19 06:40	13° <b>8</b> 59'09	
	3053 Feb 06 07:57	0° <b>∀</b>			3059 Apr 27 09:14	15° <b>8</b>	
	2052 5 1 20 11 02	10)( 11102	100.4120		2050 ) ( 0 ( 1 1 2 7	1.60 1.000	2000101
conjunction	3053 Feb 20 11:02	1° <b>)</b> (41'03		conjunction	3059 May 06 14:37	16° <b>8</b> 10'02	
minimum elong max. Earth dist.	3053 Feb 20 11:00 3053 Feb 20 06:47	1° <b>¥</b> 41′02	1°04'28 10.90740 AU	minimum elong max. Earth dist.	3059 May 06 14:39	16° <b>8</b> 10'03	10.32426 AU
max. Earth dist.	3053 Feb 20 06:47 3053 Mar 09 05:36	3° <b>¥</b> 40'46	10.90740 AU	max. Earth dist.	3059 May 06 14:35 3059 May 24 03:11	18° <b>8</b> 22'24	10.32426 AU
retrograde	3053 Jun 20 10:32	10° <b>¥</b> 58'34		retrograde	3059 Sep 07 19:15	26° <b>8</b> 27'34	
opposition	3053 Aug 30 04:45	7° <b>₩</b> 37'37	-1°33'20	opposition	3059 Nov 15 17:25	20° <b>8</b> 59'04	-2°34'29
min. Earth dist.	3053 Aug 30 04:43		8.87199 AU	min. Earth dist.	3059 Nov 15 16:59	22° <b>8</b> 59'10	
direct	3053 Nov 07 15:50	4° <b>)</b> 18′59	0.07177110	direct	3060 Jan 21 15:39	19° <b>8</b> 34'54	0.27000110
evening set	3054 Feb 15 14:44	11° <b>)</b> €26'54		evening set	3060 May 02 02:24	27° <b>8</b> 21'58	
					•		
conjunction	3054 Mar 04 08:03	13° <b>¥</b> 27′07		conjunction	3060 May 19 15:13	29° <b>8</b> 35'30	
minimum elong	3054 Mar 04 08:01	13° <b>∺</b> 27'07		minimum elong	3060 May 19 15:15	29° <b>8</b> 35'31	
max. Earth dist.	3054 Mar 04 03:59		10.83171 AU	max. Earth dist.	3060 May 19 16:58	_	10.23276 AU
morning rise	3054 Mar 21 04:19	15° <b>¥</b> 28'14			3060 May 22 19:49	0°II	
retrograde	3054 Jul 03 02:35	22° <b>)</b> 53'19	1050104	morning rise	3060 Jun 06 08:11	1° <b>I</b> I50′24	
opposition	3054 Sep 11 19:03	19° <b>¥</b> 31′07		retrograde	3060 Sep 21 00:53	10° <b>Ⅱ</b> 01'03	2017107
min. Earth dist.	3054 Sep 11 22:04	19° <del>H</del> 30'33	8.78856 AU	opposition	3060 Nov 28 11:53	6° <b>Ⅱ</b> 31'50	
direct evening set	3054 Nov 19 20:00 3055 Feb 27 16:27	23° <del>X</del> 24'30		min. Earth dist. direct	3060 Nov 28 10:07 3061 Feb 03 05:21	3° <b>П</b> 3212	8.19348 AU
evening set	3033 Feb 27 10.27	23 /(2430		evening set	3061 May 16 06:52	11° <b>I</b> I00'25	
conjunction	3055 Mar 16 11:25	25° <b>¥</b> 26'17	-1°45'52	evening set	5001 May 10 00.52	11 1100 33	
minimum elong	3055 Mar 16 11:23	25°\(\frac{1}{2}6'16\)		conjunction	3061 Jun 03 00:27	13° <b>Ⅱ</b> 16'36	-1°40'48
max. Earth dist.	3055 Mar 16 08:24		10.74104 AU	minimum elong	3061 Jun 03 00:31	13° <b>I</b> 16'37	
morning rise	3055 Apr 02 09:43	27° <b>₩</b> 29'07		max. Earth dist.	3061 Jun 03 03:27		10.15663 AU
S	3055 Apr 24 09:57	$0^{\circ}\mathbf{\Upsilon}$		morning rise	3061 Jun 20 21:34	15° <b>Ⅱ</b> 33'47	
retrograde	3055 Jul 16 03:29	5° <b>Y</b> 02′20		retrograde	3061 Oct 05 10:07	23° <b>Ⅱ</b> 48'01	
opposition	3055 Sep 24 13:44	1° <b>Y</b> 38'46	-2°20'06	opposition	3061 Dec 12 09:45	20° <b>Ⅱ</b> 18′24	-1°51'34
min. Earth dist.	3055 Sep 24 15:42	1° <b>Y</b> 38'24	8.69231 AU	min. Earth dist.	3061 Dec 12 06:59	20° <b>Ⅱ</b> 18'58	8.12652 AU
	3055 Oct 17 02:37	30° <b>₹</b> ₩		direct	3062 Feb 17 00:14	16° <b>Ⅱ</b> 51'50	
direct	3055 Dec 02 03:11	28° <b>₩</b> 19'01		evening set	3062 May 30 18:55	24° <b>Ⅲ</b> 52′13	
	3056 Jan 15 14:44	$0$ ° $\mathbf{\Upsilon}$					
evening set	3056 Mar 11 01:25	5° <b>Ƴ</b> 37'09		conjunction	3062 Jun 17 16:50	27° <b>II</b> 10'19	
				minimum elong	3062 Jun 17 16:53	27° <b>I</b> 10'20	
conjunction	3056 Mar 27 22:35	7° <b>Y</b> 40'49		max. Earth dist.	3062 Jun 17 20:28		10.10043 AU
minimum elong	3056 Mar 27 22:33	7° <b>Υ</b> 40'48	2°00'28	morning rise	3062 Jul 05 17:30	29° <b>Ⅱ</b> 29'19	
max. Earth dist.	3056 Mar 27 20:18		10.63987 AU		3062 Jul 09 18:58	0°95	
morning rise	3056 Apr 13 23:35	9° <b>Ƴ</b> 45'43 17° <b>Ƴ</b> 27'26		retrograde	3062 Oct 19 21:44	7°544'59	1910/07
retrograde	3056 Jul 28 10:12	17 1 2726		opposition	3062 Dec 26 10:10	4° <b>©</b> 15'20	-1 190/

min. Earth dist. direct evening set	3062 Dec 26 07:00 3063 Mar 02 23:44 3063 Jun 14 13:02	4°©15'59 0°©47'42 8°©53'10	8.08134 AU	minimum elong max. Earth dist. morning rise	3068 Sep 12 13:15 3068 Sep 12 17:33 3068 Sep 30 05:39	23° <b>m</b> 04'15	1°38'10 10.27206 AU
conjunction minimum elong	3063 Jul 02 14:23 3063 Jul 02 14:25	11° <b>©</b> 12'44 11° <b>©</b> 12'45	-0°48'54 0°48'54	retrograde	3068 Dec 10 16:06 3069 Jan 10 00:17 3069 Feb 09 15:18	0° <b>ჲ</b> 0° <b>ჲ</b> 50'10 30°R <b>™</b>	
max. Earth dist.	3063 Jul 02 18:14	11° <b>©</b> 13'59	10.06760 AU	opposition	3069 Mar 17 20:43	27° m) 26'17	2°13'39
morning rise	3063 Jul 20 17:31	13° <b>©</b> 32'54		min. Earth dist.	3069 Mar 17 17:29	27° <b>m</b> 26'55	8.32009 AU
retrograde	3063 Nov 03 08:49	21° <b>5</b> 47'45		direct	3069 May 25 15:21	23° <b>m</b> 58'01	
opposition	3064 Jan 09 11:53	18° <b>©</b> 18'25	-0°41'40		3069 Aug 23 11:49	0∘ <b>ত</b>	
min. Earth dist.	3064 Jan 09 08:45	18° <b>©</b> 19'04	8.06078 AU	evening set	3069 Sep 08 21:26	1° <b>≏</b> 57'49	
direct	3064 Mar 16 05:17	14° <b>©</b> 49'55					
evening set	3064 Jun 28 11:19	22° <b>©</b> 58'58		conjunction	3069 Sep 26 13:15	4° <b>≏</b> 10'08	1°56'07
				minimum elong	3069 Sep 26 13:13	4° <b>£</b> 10'07	
conjunction	3064 Jul 16 14:41	25°5019'14		max. Earth dist.	3069 Sep 26 16:49		10.36938 AU
minimum elong	3064 Jul 16 14:42	25°519'14		morning rise	3069 Oct 14 00:44	6° <b>£</b> 21'08	
max. Earth dist.	3064 Jul 16 18:24		10.06018 AU	retrograde	3070 Jan 23 03:28	13° <b>£</b> 58'56 10° <b>£</b> 36'25	2021142
morning rise	3064 Aug 03 18:43 3064 Aug 22 19:31	27° <b>©</b> 39'41 0° <b>Ω</b>		opposition min. Earth dist.	3070 Mar 31 06:23 3070 Mar 31 04:18	10° <b>£</b> 36′25	8.42237 AU
retrograde	3064 Nov 16 16:23	5° <b>Ω</b> 51'37		direct	3070 Jun 08 13:15	7° <b>£</b> 09'00	6.42237 AU
opposition	3065 Jan 22 13:31	2° <b>Ω</b> 22'57	-0°01'39	evening set	3070 Sep 22 16:35	15° <b>⊆</b> 02'16	
min. Earth dist.	3065 Jan 22 10:27		8.06626 AU	evening sec	5070 Sep 22 10.50	10 —0210	
asc. node	3065 Feb 06 23:33	1° <b>Ω</b> 08'17		conjunction	3070 Oct 10 03:49	17° <b>≏</b> 11'52	2°07'41
	3065 Feb 23 10:30	30° <b>₹</b> 5		minimum elong	3070 Oct 10 03:47	17° <b>£</b> 11'51	2°07'41
direct	3065 Mar 30 13:56	28°953'52		max. Earth dist.	3070 Oct 10 05:47	17° <b>≏</b> 12'28	10.47459 AU
	3065 May 04 11:50	$0^{\circ}\Omega$		morning rise	3070 Oct 27 10:38	19° <b>≙</b> 20′06	
evening set	3065 Jul 13 11:05	7° <b>Ω</b> 04'46		retrograde	3071 Feb 05 00:11	26° <b>≏</b> 49'53	
				opposition	3071 Apr 13 10:50	23° <b>≏</b> 28'39	2°41'38
conjunction	3065 Jul 31 14:53	9° <b>Ω</b> 24'50	0°14'54	min. Earth dist.	3071 Apr 13 09:41	23° <b>≏</b> 28'52	8.52961 AU
minimum elong	3065 Jul 31 14:52	9° <b>Ω</b> 24'50	0°14'54	direct	3071 Jun 22 05:01	20° <b>≏</b> 02'13	
behind sun begin	3065 Jul 31 12:24	9° <b>Ω</b> 24'02		evening set	3071 Oct 06 01:46	27° <b>≏</b> 48'10	
behind sun end	3065 Jul 31 17:20	9° <b>£</b> 25'37	10.07077 ATT		2071 0 4 22 00 40	200 0 55100	2012141
max. Earth dist.	3065 Jul 31 18:39	9°8126'03 11°Ω44'42	10.07877 AU	conjunction	3071 Oct 23 08:40	29° <b>£</b> 55'08	2°12'41
morning rise	3065 Aug 18 18:06 3065 Sep 14 20:03	11° <b>8ℓ</b> 44′42 15° <b>Ω</b>		minimum elong max. Earth dist.	3071 Oct 23 08:40 3071 Oct 23 09:14	29° <b>£</b> 55'08	2°12'41 10.58196 AU
retrograde	3065 Nov 30 20:03	13 <b>δ</b> ε 19° <b>Ω</b> 51'55		max. Earth dist.	3071 Oct 23 09:14 3071 Oct 24 00:29	29 = 33 18 0°M	10.38190 AU
opposition	3066 Feb 05 13:56	16° <b>Ω</b> 24'11	0°38'18	morning rise	3071 Nov 09 11:15	2°M00'45	
min. Earth dist.	3066 Feb 05 10:30	16° <b>Ω</b> 24'53	8.09759 AU	retrograde	3072 Feb 17 13:20	9°M23'02	
	3066 Feb 23 03:14	15°R <b>Ω</b>		opposition	3072 Apr 25 10:20	6°M02'55	2°43'31
direct	3066 Apr 13 23:25	12° <b>Ω</b> 54'50		min. Earth dist.	3072 Apr 25 09:40	6°ML03'03	8.63596 AU
	3066 Jun 01 22:43	15° <b>Ω</b>		direct	3072 Jul 04 15:32	2°M37'36	
evening set	3066 Jul 28 09:31	21° <b>Ω</b> 05'39		evening set	3072 Oct 18 00:47	10° <b>M</b> .15'50	
conjunction	3066 Aug 15 12:09	23° <b>Ω</b> 24'41	0°46'12	conjunction	3072 Nov 04 03:57	12°M20'23	2°11'18
minimum elong	3066 Aug 15 12:07	23° <b>Ω</b> 24'40	0°46'12	minimum elong	3072 Nov 04 03:58	12°M20'23	2°11'18
max. Earth dist.	3066 Aug 15 16:18		10.12232 AU	max. Earth dist.	3072 Nov 04 03:45	12°M20'19	10.68570 AU
morning rise	3066 Sep 02 12:57	25° <b>Ω</b> 43'07		morning rise	3072 Nov 21 02:52	14°M23'41	
	3066 Oct 09 09:34	0° <b>m</b>		_	3072 Nov 26 05:26	15° <b>™</b>	
retrograde	3066 Dec 14 19:12	3° mp 44'11	101.512.4	retrograde	3073 Feb 28 22:00	21°M39'20	2025140
opposition	3067 Feb 19 11:52	0° Mp 17'36	1°15'34	opposition	3073 May 08 05:03	18°M20'10	2°37'48
min. Earth dist.	3067 Feb 19 08:03	0° Mp 18′23 30° RΩ	8.15281 AU	min. Earth dist.	3073 May 08 04:52 3073 Jul 08 18:14	18°M20'12	8.73569 AU
direct	3067 Feb 23 02:01 3067 Apr 28 07:12	30 kgι 26°Ω48'19		direct	3073 Jul 17 19:20	15°RM 14°M55'59	
direct	3067 Jun 29 07:10	0° M)		direct	3073 Jul 26 18:41	14 1163339 15°M	
evening set	3067 Aug 12 04:23	4° mp 57'10		evening set	3073 Oct 30 14:40	22°M26'38	
conjunction	3067 Aug 30 04:23	7° <b>m</b> ) 14'27	1°14'30	conjunction	3073 Nov 16 14:44	24° <b>M</b> 29'09	2°03'59
minimum elong	3067 Aug 30 04:20	7° Mp 14'26	1°14'29	minimum elong	3073 Nov 16 14:44	24°M29'09	2°03'59
max. Earth dist.	3067 Aug 30 04:20		10.18808 AU	max. Earth dist.	3073 Nov 16 14:40	24°M28'55	
morning rise	3067 Sep 17 01:23	9° mp 30'47		morning rise	3073 Dec 03 10:43	26°M30'29	
retrograde	3067 Dec 28 13:39	17° <b>m</b> 24'35		<b>2</b> ·	3074 Jan 04 03:55	0° <b>∡</b> ¹	
opposition	3068 Mar 04 06:17	13° <b>m</b> 59'18	1°47'55	retrograde	3074 Mar 13 03:29	3° <b>҂</b> ′40′36	
min. Earth dist.	3068 Mar 04 02:27	14° m 00'05	8.22848 AU	opposition	3074 May 20 19:24	0° <b>≯</b> 22'13	2°25'14
direct	3068 May 11 12:45	10° Mp 30'23		min. Earth dist.	3074 May 20 20:39	0° <b>≯</b> 21'58	8.82373 AU
evening set	3068 Aug 25 17:03	18° <b>m</b> 35'31			3074 May 25 16:55	30°RM₊	
conjunction	3068 Sep 12 13:18	20° m 50'29	1°38'11	direct	3074 Jul 30 14:56 3074 Oct 01 10:43	26°M59'10 0°⊀	

evening set	3074 Nov 11 20:32	4° <b>∡</b> 22'51		evening set	3081 Jan 18 13:45	13°≈26'02	
agnismation	3074 Nov 28 18:00	60.702141	1051122		3081 Jan 31 20:19	15° <b>≈</b>	
conjunction	3074 Nov 28 18:00 3074 Nov 28 18:02	6° ₹ 23'41 6° ₹ 23'42	1°51'23 1°51'23	aaniumatian	2001 Eak 04 05:27	15° <b>≈</b> 24'12	0020120
minimum elong max. Earth dist.	3074 Nov 28 18:02 3074 Nov 28 15:41		1 31 23 10.86120 AU	conjunction minimum elong	3081 Feb 04 05:37 3081 Feb 04 05:36	15 ≈24 12 15°≈24'12	
	3074 Nov 28 13.41 3074 Dec 15 11:55	8° ₹¹23'32	10.86120 AU	max. Earth dist.	3081 Feb 04 03:56 3081 Feb 04 00:57		10.96211 AU
morning rise		8° <b>×</b> °23'32 15° <b>₹</b> ¹29'25		max. Earth dist.		15°≈22'49 17°≈22'43	10.96211 AU
retrograde	3075 Mar 25 03:21 3075 Jun 02 06:28	13° <b>×</b> '29'23	2°06'43	Č	3081 Feb 20 22:36 3081 Jun 03 01:29	17°≈22'43 24°≈32'57	
opposition min. Earth dist.	3075 Jun 02 09:14	12 × 11 33	8.89668 AU	retrograde		24 ≈32 37 21°≈12'53	0.50150
		8° <b>₹</b> 49'36	8.89008 AU	opposition	3081 Aug 12 20:11		
direct	3075 Aug 12 05:28 3075 Nov 23 19:39	8 <b>x</b> ·49 30 16° <b>x</b> 07'07		min. Earth dist. direct	3081 Aug 12 23:42 3081 Oct 21 23:40	21 ≈12 14 17°≈53'50	8.93870 AU
evening set	30/3 NOV 23 19.39	10 × 0/0/			3081 Oct 21 23.40 3082 Jan 30 04:00	17 ≈53 30 24°≈58'25	
agnismation	2075 Dec. 10, 15:00	18° <b>∡</b> ¹06'38	1°34'15	evening set	3082 Jan 30 04:00	24***38*23	
conjunction	3075 Dec 10 15:00				2002 E-L 15 20-10	26° <b>≈</b> 57'19	0954100
minimum elong	3075 Dec 10 15:03	18° 🗷 06'39	1°34'16	conjunction	3082 Feb 15 20:18		
max. Earth dist.	3075 Dec 10 11:04		10.92603 AU	minimum elong	3082 Feb 15 20:16	26°≈57'19	
morning rise	3075 Dec 27 07:39	20° 🗷 05'22		max. Earth dist.	3082 Feb 15 16:41	26°≈56'14	10.91063 AU
retrograde	3076 Apr 05 01:37	27° ₹ 08'25	1042114	morning rise	3082 Mar 04 14:15	28°≈56'46	
opposition	3076 Jun 13 14:49	23° 🖈 50'52	1°43'14		3082 Mar 13 17:31	0° <b>∀</b>	
min. Earth dist.	3076 Jun 13 18:19	23° <b>х</b> 50'12	8.95249 AU	retrograde	3082 Jun 15 10:58	6° <b>¥</b> 12'38	1001110
direct	3076 Aug 23 16:44	20° <b>∡</b> 29'49		opposition	3082 Aug 25 05:45	2° <b>₩</b> 51'30	
evening set	3076 Dec 04 13:24	27° <b>∡</b> ⁴42'03		min. Earth dist.	3082 Aug 25 08:16		8.87867 AU
		<b>_</b>			3082 Oct 10 06:06	30°R <b>≈</b>	
conjunction	3076 Dec 21 07:20	29° <b>∡</b> ¹40'38	1°13'27	direct	3082 Nov 02 22:30	29° <b>≈</b> 32'20	
minimum elong	3076 Dec 21 07:22	29° <b>∡</b> ¹40'39	1°13'27		3082 Nov 26 07:16	0° <b></b> ₩	
max. Earth dist.	3076 Dec 21 02:52		10.97297 AU	evening set	3083 Feb 10 22:14	6° <b>∺</b> 39'33	
	3076 Dec 24 00:28	0°ಕ					
morning rise	3077 Jan 06 23:12	1° <b>る</b> 38'38		conjunction	3083 Feb 27 15:14	8° <b>∺</b> 39'29	
retrograde	3077 Apr 16 23:16	8° <b>る</b> 40'13		minimum elong	3083 Feb 27 15:12	8° <b>∺</b> 39'28	
opposition	3077 Jun 25 21:02	5° <b>る</b> 22'38	1°15'51	max. Earth dist.	3083 Feb 27 12:03		10.84227 AU
min. Earth dist.	3077 Jun 26 00:18	5°る22'02	8.98961 AU	morning rise	3083 Mar 16 10:39	10° <b>)</b> 40′12	
direct	3077 Sep 04 22:36	2°る02'22		retrograde	3083 Jun 28 01:55	18° <b>)</b> €02'53	
evening set	3077 Dec 16 03:15	9° <b>る</b> 10'25		opposition	3083 Sep 06 18:51	14° <b>)</b> 40′34	-1°48'44
				min. Earth dist.	3083 Sep 06 20:58	14° <b>)</b> 40′10	8.80306 AU
conjunction	3078 Jan 01 20:18	11° <b>る</b> 08'26	0°49'51	direct	3083 Nov 15 00:23	11° <b>∺</b> 21′05	
minimum elong	3078 Jan 01 20:19	11° <b>ට</b> 08'26	0°49'50	evening set	3084 Feb 22 21:39	18° <b>∺</b> 32'15	
max. Earth dist.	3078 Jan 01 16:17	11° <b>ට</b> 07'14	11.00052 AU				
morning rise	3078 Jan 18 11:48	13° <b>පි</b> 06'03		conjunction	3084 Mar 10 15:49	20° <b>∺</b> 33'34	-1°38'19
retrograde	3078 Apr 28 21:28	20° <b>る</b> 07'36		minimum elong	3084 Mar 10 15:47	20° <b>ℋ</b> 33'33	1°38'20
opposition	3078 Jul 08 02:14	16° <b>ප්</b> 49'44	0°45'38	max. Earth dist.	3084 Mar 10 12:30	20° <b>∺</b> 32'33	10.75968 AU
min. Earth dist.	3078 Jul 08 05:31	16° <b>පි</b> 49'08	9.00684 AU	morning rise	3084 Mar 27 13:19	22° <b>∺</b> 35'52	
direct	3078 Sep 17 01:14	13° <b>පි</b> 30'04			3084 Jun 28 17:15	$0$ ° $\Upsilon$	
evening set	3078 Dec 27 14:57	20° <b>ප</b> 35'10		retrograde	3084 Jul 09 23:41	0° <b>Y</b> 06′16	
					3084 Jul 21 05:18	30° <b>₹</b> ₩	
conjunction	3079 Jan 13 07:16	22° <b>る</b> 32'55	0°24'22	opposition	3084 Sep 18 12:00	26° <b>)</b> 42′43	-2°11'57
minimum elong	3079 Jan 13 07:16	22° <b>る</b> 32'55	0°24'21	min. Earth dist.	3084 Sep 18 14:06	26° <b>)</b> 42′19	8.71477 AU
max. Earth dist.	3079 Jan 13 03:03	22° <b>る</b> 31'40	11.00779 AU	direct	3084 Nov 26 05:33	23° <b>)</b> 22'43	
morning rise	3079 Jan 29 22:50	24° <b>る</b> 30'29			3085 Feb 28 16:17	$0$ $^{\circ}$ $\Upsilon$	
	3079 Mar 27 16:23	0° <b>≈</b>		evening set	3085 Mar 06 03:42	0° <b>Ƴ</b> 39'04	
retrograde	3079 May 10 20:26	1° <b>≈</b> 33'28					
	3079 Jun 25 09:00	30°₽₹		conjunction	3085 Mar 22 23:46	2° <b>Y</b> 42'04	-1°54'55
opposition	3079 Jul 20 07:16	28° <b>ප</b> 15'06	0°13'40	minimum elong	3085 Mar 22 23:44	2° <b>Y</b> 42'04	1°54'55
min. Earth dist.	3079 Jul 20 11:09	28° <b>る</b> 14'23	9.00382 AU	max. Earth dist.	3085 Mar 22 21:04	2° <b>Ƴ</b> 41'15	10.66611 AU
direct	3079 Sep 29 00:33	24° <b>る</b> 55'49		morning rise	3085 Apr 08 23:45	4° <b>Ƴ</b> 46'17	
	3079 Dec 21 08:19	0° <b>≈</b>		retrograde	3085 Jul 23 01:58	12° <b>Ƴ</b> 24'57	
desc. node	3079 Dec 25 16:24	0° <b>≈</b> 28'16		opposition	3085 Oct 01 09:33	9° <b>Ƴ</b> 00'10	-2°29'42
evening set	3080 Jan 08 01:59	1° <b>≈</b> 59'20		min. Earth dist.	3085 Oct 01 11:07	8° <b>Ƴ</b> 59'52	8.61744 AU
				direct	3085 Dec 08 15:46	5° <b>Ƴ</b> 39'29	
conjunction	3080 Jan 24 17:49	3° <b>≈</b> 57'07	-0°02'11	evening set	3086 Mar 18 17:19	13° <b>Ƴ</b> 02'02	
minimum elong	3080 Jan 24 17:49	3° <b>≈</b> 57'07	0°02'11				
behind sun begin	3080 Jan 24 10:50	3° <b>≈</b> 55'04		conjunction	3086 Apr 04 16:04	15° <b>Ƴ</b> 07'04	-2°06'31
behind sun end	3080 Jan 25 00:48	3° <b>≈</b> 59'10		minimum elong	3086 Apr 04 16:02	15° <b>Ƴ</b> 07'04	2°06'31
max. Earth dist.	3080 Jan 24 12:44	3° <b>≈</b> 55'39	10.99482 AU	max. Earth dist.	3086 Apr 04 15:04	15° <b>Y</b> 06'46	10.56558 AU
morning rise	3080 Feb 10 09:59	5° <b>≈</b> 55'01		morning rise	3086 Apr 21 18:58	17° <b>Ƴ</b> 13'26	
retrograde	3080 May 21 20:13	13° <b>≈</b> 00'54		retrograde	3086 Aug 05 12:20	25° <b>Y</b> 00'38	
opposition	3080 Jul 31 13:00	9° <b>≈</b> 41'46	-0°18'55	opposition	3086 Oct 14 12:12	21° <b>Y</b> 34'38	-2°40'47
min. Earth dist.	3080 Jul 31 17:12	9° <b>≈</b> 40'59	8.98088 AU	min. Earth dist.	3086 Oct 14 12:22		8.51540 AU
direct	3080 Oct 09 23:21	6° <b>≈</b> 22'41		direct	3086 Dec 21 08:12	18° <b>Ƴ</b> 13'11	

evening set	3087 Mar 31 15:19	25° <b>Ƴ</b> 42'36		opposition	3093 Jan 02 23:58	12°541'21	
	2005 4 45 45 26	2520040155	2012115	min. Earth dist.	3093 Jan 02 20:29	12°542'04	8.08162 AU
conjunction	3087 Apr 17 17:26	27° <b>Y</b> 49'57		direct	3093 Mar 10 16:00	9°513'48	
minimum elong	3087 Apr 17 17:26	27° <b>Y</b> 49'57		evening set	3093 Jun 22 14:10	17° <b>©</b> 20'58	
max. Earth dist.	3087 Apr 17 17:59	27° <b>Y</b> 50'08	10.46283 AU		2002 1 1 10 16 52	100640151	0020140
morning rise	3087 May 04 23:53	29° <b>Y</b> 58'43		conjunction	3093 Jul 10 16:52	19°540'51	
1	3087 May 05 04:05	0°8		minimum elong	3093 Jul 10 16:53	19°540'52	
retrograde	3087 Aug 19 06:55	7° <b>8</b> 54'09	2044111	max. Earth dist.	3093 Jul 10 21:26		10.07534 AU
opposition	3087 Oct 27 20:00	4° <b>8</b> 27'04		morning rise	3093 Jul 28 20:31	22° <b>©</b> 01'05	
min. Earth dist.	3087 Oct 27 18:50 3088 Jan 03 04:57	1° <b>8</b> 04'42	8.41357 AU		3093 Oct 26 04:14 3093 Nov 11 02:02	0°Ω 0°Ω14'04	
direct				retrograde	3093 Nov 27 00:21		
evening set	3088 Apr 12 22:36	8° <b>8</b> 41'28		annagition	3094 Jan 17 01:43	30° <b>₹ॐ</b> 26° <b>ॐ</b> 45'38	0010124
aaniumatian	2000 Ame 20 04:42	10° <b>8</b> 51'20	2011/22	opposition min. Earth dist.	3094 Jan 16 22:02	26°946'24	
conjunction minimum elong	3088 Apr 30 04:42 3088 Apr 30 04:43	10 851 20 10°851'20		direct	3094 Mar 24 22:40	20 \$340 24 23°\$17'22	8.07328 AU
max. Earth dist.	3088 Apr 30 06:04	_	10.36304 AU	direct	3094 Mai 24 22:40 3094 Jun 25 21:20	23 <b>3</b> 1722 0° <b>Ω</b>	
morning rise	3088 May 17 15:18	13° <b>8</b> 02'39	10.30304 AC	evening set	3094 Jul 07 13:33	1° <b>Ω</b> 27'12	
morning risc	3088 Jun 02 21:24	15° <b>8</b>		asc. node	3094 Jul 09 00:55	1° <b>Ω</b> 38'25	
retrograde	3088 Sep 01 07:33	21° <b>8</b> 05'25		asc. Houc	3094 Jul 09 00.33	1 063623	
opposition	3088 Nov 09 08:39	17° <b>8</b> 37'28	-2°39'07	conjunction	3094 Jul 25 17:24	3° <b>Ω</b> 47'18	0°01'28
min. Earth dist.	3088 Nov 09 06:50		8.31722 AU	minimum elong	3094 Jul 25 17:24	3° <b>Ω</b> 47'19	0°01'28
mm. Latti dist.	3088 Dec 17 01:00	17 03730 15°R8	0.31722 AO	behind sun begin	3094 Jul 25 10:02	3° <b>Ω</b> 44'57	0 01 20
direct	3089 Jan 15 07:55	13 KO 14° <b>8</b> 14'04		behind sun end	3094 Jul 26 00:46	3° <b>Ω</b> 49'40	
direct	3089 Feb 13 08:14	15° <b>8</b>		max. Earth dist.	3094 Jul 25 21:55		10.08117 AU
evening set	3089 Apr 26 15:05	21° <b>8</b> 58'19		morning rise	3094 Aug 12 20:57	6° <b>Ω</b> 07'21	10.08117 AU
evening set	3009 Apr 20 13.03	21 03619		retrograde	3094 Nov 25 08:37	14°Ω16'30	
conjunction	3089 May 14 01:40	24° <b>8</b> 10'46	-2°03'34	opposition	3094 Nov 23 08:37 3095 Jan 31 02:46	14 <b>%</b> 10 30 10° <b>Ω</b> 48′50	0°21'52
minimum elong	3089 May 14 01:40	24° <b>8</b> 10'46		min. Earth dist.	3095 Jan 30 23:20	10° <b>Ω</b> 49'32	8.09323 AU
max. Earth dist.	3089 May 14 01:43 3089 May 14 03:33	_	10.27154 AU	direct	3095 Apr 08 06:50	7° <b>Ω</b> 20'04	8.09323 AO
morning rise	3089 May 31 16:46	26° <b>8</b> 24'38	10.2/134 AO	direct	3095 Jul 18 11:03	7 <b>82</b> 20 0 <b>4</b> 15° <b>Ω</b>	
morning rise	3089 Jul 01 07:25	20 <b>O</b> 24 38 0° <b>I</b> I		evening set	3095 Jul 22 13:08	15° <b>Ω</b> 30'48	
retrograde	3089 Sep 15 11:32	4° <b>∏</b> 33'24		evening set	3093 Jul 22 13.06	15 6650 46	
opposition	3089 Sep 13 11:32 3089 Nov 23 01:58	1° <b>∏</b> 04'48	2025118	conjunction	3095 Aug 09 16:27	17° <b>Ω</b> 50'17	0°33'27
min. Earth dist.	3089 Nov 22 23:50		8.23160 AU	minimum elong	3095 Aug 09 16:25	17° <b>Ω</b> 50'16	
iiiii. Eartii tist.	3089 Nov 22 23:30 3089 Dec 06 17:12	30°R <b>8</b>	6.23100 AU	max. Earth dist.	3095 Aug 09 10:23		10.11130 AU
direct	3090 Jan 28 19:41	27° <b>8</b> 40'20		morning rise	3095 Aug 09 20:22 3095 Aug 27 18:16	20° <b>Ω</b> 09'17	10.11130 AC
direct	3090 Mar 21 04:54	0°Ⅱ		retrograde	3095 Dec 09 10:51	28°Ω12'56	
evening set	3090 May 10 16:16	5° <b>Ⅱ</b> 31'42		opposition	3096 Feb 14 02:02	24°Ω46'14	1°00'32
evening set	3070 Way 10 10.10	3 1131 72		min. Earth dist.	3096 Feb 13 23:15	24°Ω46'48	8.13527 AU
conjunction	3090 May 28 07:37	7° <b>Ⅱ</b> 46'39	-1°48'49	direct	3096 Apr 21 15:24	21°Ω17'13	0.13327 AC
minimum elong	3090 May 28 07:40	7° <b>Ⅱ</b> 46'40		evening set	3096 Aug 05 10:04	29° <b>Ω</b> 26'56	
max. Earth dist.	3090 May 28 10:16		10.19339 AU	evening set	3096 Aug 09 18:51	0° m/y	
morning rise	3090 Jun 15 03:06	10° <b>I</b> 02'53	10.17557 110		3070 Mag 07 10.31	עויי	
retrograde	3090 Sep 29 19:18	18° <b>I</b> I15'52		conjunction	3096 Aug 23 11:11	1° <b>m</b> 44'57	1°03'12
opposition	3090 Dec 06 23:04	14° <b>∏</b> 46'53	-2°03'01	minimum elong	3096 Aug 23 11:08	1° Mp 44'56	1°03'12
min. Earth dist.	3090 Dec 06 20:35		8.16156 AU	max. Earth dist.	3096 Aug 23 14:15		10.16446 AU
direct	3091 Feb 11 13:32	11° <b>Ⅱ</b> 21′20	0.10100110	morning rise	3096 Sep 10 09:50	4° mp 02'10	10.101.0110
evening set	3091 May 25 01:33	19° <b>Ⅱ</b> 19'04		retrograde	3096 Dec 22 07:03	11° m 59'02	
<i>8</i>	.,			opposition	3097 Feb 26 22:14	8° m 33'26	1°35'11
conjunction	3091 Jun 11 21:34	21° <b>Ⅱ</b> 36′14	-1°27'38	min. Earth dist.	3097 Feb 26 19:54	8° m 33'54	8.19918 AU
minimum elong	3091 Jun 11 21:38	21° <b>Ⅲ</b> 36'15		direct	3097 May 05 23:20	5° m 04'28	
max. Earth dist.	3091 Jun 12 01:17		10.13293 AU	evening set	3097 Aug 20 01:38	13° mp 11'15	
morning rise	3091 Jun 29 20:56	23° <b>Ⅱ</b> 54'26		S	8	•	
C	3091 Aug 25 02:17	0°€		conjunction	3097 Sep 06 23:22	15° <b>m</b> 27'11	1°28'59
retrograde	3091 Oct 14 05:27	2°909'30		minimum elong	3097 Sep 06 23:19	15° m) 27'10	1°28'59
	3091 Dec 04 07:17	30°RⅡ		max. Earth dist.	3097 Sep 07 01:45		10.23769 AU
opposition	3091 Dec 20 22:42	28° <b>Ⅱ</b> 40′24	-1°33'14	morning rise	3097 Sep 24 17:51	17° <b>m</b> 42'04	
min. Earth dist.	3091 Dec 20 19:38	28° <b>Ⅱ</b> 41'01		retrograde	3098 Jan 04 18:56	25° m 31'17	
direct	3092 Feb 25 12:25	25° <b>Ⅱ</b> 13'46		opposition	3098 Mar 12 14:24	22° m 06'51	2°03'52
	3092 May 11 09:57	0ංම 		min. Earth dist.	3098 Mar 12 12:13	22° m 07'17	8.28115 AU
evening set	3092 Jun 07 17:30	3° <b>©</b> 16'50		direct	3098 May 20 05:00	18° mp 38'14	-
Z .				evening set	3098 Sep 03 09:36	26° mp 40'21	
conjunction	3092 Jun 25 17:29	5° <b>©</b> 35'42	-1°01'07	S	1	• •	
minimum elong	3092 Jun 25 17:32	5° <b>9</b> 35'43		conjunction	3098 Sep 21 03:16	28° <b>m</b> 53'48	1°49'26
max. Earth dist.	3092 Jun 25 21:51		10.09308 AU	minimum elong	3098 Sep 21 03:13	28° m 53'47	1°49'26
morning rise	3092 Jul 13 19:43	7°955'18	-	max. Earth dist.	3098 Sep 21 05:12		10.32655 AU
retrograde	3092 Oct 27 16:32	16°9510'17			3098 Sep 29 21:18	0ಂ <b>ಹ</b>	
J					1		

morning rise	3098 Oct 08 17:01	1° <b>ഫ</b> 06'00	
retrograde	3099 Jan 18 00:49	8° <b>£</b> 47'10	
opposition	3099 Mar 26 01:52	5° <b>£</b> 23'55	2°25'14
min. Earth dist.	3099 Mar 25 23:36	5° <b>£</b> 24'22	8.37613 AU
direct	3099 Jun 03 05:09	1° <b>£</b> 55'55	
evening set	3099 Sep 17 08:37	9° <b>£</b> 52'00	
conjunction	3099 Oct 04 21:54	12° <b>♀</b> 02'45	2°03'43
minimum elong	3099 Oct 04 21:52	12° <b>♀</b> 02'45	2°03'43
max. Earth dist.	3099 Oct 04 23:49	12° <b>≙</b> 03'21	10.42576 AU
morning rise	3099 Oct 22 06:42	14° <b>≙</b> 12'10	
retrograde	3100 Jan 31 00:56	21° <b>≙</b> 45'17	
opposition	3100 Apr 08 08:18	18° <b>≏</b> 23'11	2°38'36
min. Earth dist.	3100 Apr 08 06:30	18° <b>≙</b> 23'33	8.47870 AU
direct	3100 Jun 16 22:36	14° <b>≙</b> 56'00	
evening set	3100 Sep 30 21:43	22° <b>£</b> 45′03	
conjunction	3100 Oct 18 06:38	24° <b>≙</b> 53'10	2°11'28
minimum elong	3100 Oct 18 06:37	24° <b>≙</b> 53'09	2°11'28
max. Earth dist.	3100 Oct 18 08:13	24° <b>£</b> 53'39	10.52995 AU
morning rise	3100 Nov 04 10:51	26° <b>£</b> 59'53	
	3100 Nov 30 14:08	0°M,	
retrograde	3101 Feb 12 17:32	4° <b>M</b> 25'17	
opposition	3101 Apr 21 09:44	1°M04'18	2°43'49
min. Earth dist.	3101 Apr 21 08:56	1°M04'27	8.58357 AU
	3101 May 05 09:26	30° <b>₹</b> Ω	
direct	3101 Jun 30 10:17	27° <b>£</b> 38'04	
	3101 Aug 24 00:48	0°M,	
evening set	3101 Oct 14 00:38	5° <b>M</b> ₁9'34	
conjunction	3101 Oct 31 05:29	7° <b>M</b> 25'11	2°12'43
minimum elong	3101 Oct 31 05:29	7°M25'11	2°12'43
max. Earth dist.	3101 Oct 31 05:57	7° <b>M</b> 25'19	10.63393 AU
morning rise	3101 Nov 17 05:52	9° <b>M</b> 29'29	
-	3102 Jan 10 05:27	15° <b>M</b> ₊	