retrograde	2600 Jan 07 13:06	6° <b>£</b> 25′26	conjunction	2606 Oct 12 23:32	19° <b>≙</b> 14'03 1°26'51
opposition	2600 Mar 25 19:27	5° <b>ഫ</b> 03'22 1°17'19	minimum elong	2606 Oct 12 23:32	19° <b>£</b> 14'03 1°26'51
min. Earth dist.	2600 Mar 26 15:30	5° <b>£</b> 01'59 29.27577 A	.U max. Earth dist.	2606 Oct 12 01:45	19° <b>≙</b> 12'01 31.31182 AU
direct	2600 Jun 14 08:13	3° <b>£</b> 38′25	morning rise	2606 Oct 28 16:12	19° <b>≏</b> 48'46
evening set	2600 Sep 13 05:11	5° <b>£</b> 34'23	retrograde	2607 Jan 23 07:07	21° <b>≏</b> 40'36
max. Earth dist.	2600 Sep 28 06:53	6° <b>£</b> 07'36 31.27749 A	•	2607 Apr 10 21:08	20° <b>£</b> 18'41 1°33'42
	•		min. Earth dist.	2607 Apr 11 18:05	20° <b>£</b> 17'15 29.31637 AU
conjunction	2600 Sep 29 04:42	6° <b>£</b> 09'37 1°13'41	direct	2607 Jun 30 15:45	18° <b>♀</b> 53'47
minimum elong	2600 Sep 29 04:41	6° <b>£</b> 09'37 1°13'40	evening set	2607 Sep 29 14:38	20° <b>£</b> 49'45
morning rise	2600 Oct 15 00:49	6° <b>£</b> 44'34	max. Earth dist.	2607 Oct 14 11:54	21° <b>£</b> 22'37 31.31897 AU
retrograde	2601 Jan 09 23:31	8° <b>£</b> 36'34			
opposition	2601 Mar 28 05:44	7° <b>£</b> 14'31 1°20'01	conjunction	2607 Oct 15 10:16	21° <b>£</b> 24'42 1°28'37
min. Earth dist.	2601 Mar 29 01:30	7° <b>£</b> 13'09 29.28042 A	.U minimum elong	2607 Oct 15 10:16	21° <b>£</b> 24'42 1°28'37
direct	2601 Jun 16 21:56	5° <b>£</b> 49'31	morning rise	2607 Oct 31 02:32	21° <b>♀</b> 59'23
evening set	2601 Sep 15 17:15	7° <b>£</b> 45'29	retrograde	2608 Jan 25 18:29	23° <b>♀</b> 51'14
			opposition	2608 Apr 12 07:49	22° <b>♀</b> 29'22 1°35'32
conjunction	2601 Oct 01 16:09	8° <b>£</b> 20'41 1°16'10	min. Earth dist.	2608 Apr 13 03:58	22° <b>♀</b> 27'59 29.32316 AU
minimum elong	2601 Oct 01 16:09	8° <b>£</b> 20'41 1°16'10	direct	2608 Jul 02 04:27	21° <b>♀</b> 04'31
max. Earth dist.	2601 Sep 30 17:31	8° <b>£</b> 18'35 31.28190 A	.U evening set	2608 Oct 01 02:06	23° <b>ჲ</b> 00′29
morning rise	2601 Oct 17 11:44	8° <b>£</b> 55'36			
retrograde	2602 Jan 12 08:33	10° <b>-</b> 47'31	conjunction	2608 Oct 16 21:13	23° <b>£</b> 35'24 1°30'16
opposition	2602 Mar 30 16:15	9° <b>£</b> 25'28 1°22'37	minimum elong	2608 Oct 16 21:13	23° <b>£</b> 35'24 1°30'15
min. Earth dist.	2602 Mar 31 12:45	9° <b>£</b> 24'03 29.28493 A	.U max. Earth dist.	2608 Oct 15 22:42	23° <b>△</b> 33'19 31.32518 AU
direct	2602 Jun 19 08:40	8° <b>≏</b> 00'27	morning rise	2608 Nov 01 12:51	24° <b>£</b> 10'03
evening set	2602 Sep 18 04:55	9° <b>≏</b> 56'24	retrograde	2609 Jan 27 05:23	26° <b>♀</b> 01'54
max. Earth dist.	2602 Oct 03 05:35	10° <b>£</b> 29'32 31.28644 A	.U opposition	2609 Apr 14 18:38	24° <b>£</b> 40'04 1°37'13
			min. Earth dist.	2609 Apr 15 16:00	24° <b>≏</b> 38'36 29.32894 AU
conjunction	2602 Oct 04 03:22	10° <b>£</b> 31'33 1°18'32	direct	2609 Jul 04 16:15	23° <b>£</b> 15′15
minimum elong	2602 Oct 04 03:22	10° <b>£</b> 31'33 1°18'32	evening set	2609 Oct 03 13:32	25° <b>£</b> 11'13
morning rise	2602 Oct 19 22:17	11° <b>≏</b> 06′25	max. Earth dist.	2609 Oct 18 09:32	25° <b>≏</b> 44'00 31.33032 AU
retrograde	2603 Jan 14 16:47	12° <b>≏</b> 58'17			
opposition	2603 Apr 02 02:47	11° <b>£</b> 36'15 1°25'05	conjunction	2609 Oct 19 08:07	25° <b>£</b> 46'06 1°31'46
min. Earth dist.	2603 Apr 02 23:11	11° <b>£</b> 34'50 29.28967 A	U minimum elong	2609 Oct 19 08:07	25° <b>£</b> 46'06 1°31'46
direct	2603 Jun 21 21:17	10° <b>£</b> 11'13	morning rise	2609 Nov 03 23:12	26° <b>£</b> 20'43
evening set	2603 Sep 20 16:41	12° <b>♀</b> 07'08	retrograde	2610 Jan 29 15:51	28° <b>£</b> 12'34
			opposition	2610 Apr 17 05:34	26° <b>£</b> 50'45 1°38'46
conjunction	2603 Oct 06 14:26	12° <b>£</b> 42'15 1°20'47	min. Earth dist.	2610 Apr 18 02:32	26° <b>♀</b> 49'19 29.33332 AU
minimum elong	2603 Oct 06 14:26	12° <b>£</b> 42'15 1°20'47	direct	2610 Jul 07 05:55	25° <b>£</b> 25'58
max. Earth dist.	2603 Oct 05 15:39	12° <b>£</b> 40′08 31.29155 A	.U evening set	2610 Oct 06 00:50	27° <b>£</b> 21'55
morning rise	2603 Oct 22 08:55	13° <b>♀</b> 17'05			
retrograde	2604 Jan 17 03:20	15° <b>≏</b> 08'55	conjunction	2610 Oct 21 18:46	27° <b>£</b> 56'46 1°33'09
opposition	2604 Apr 03 13:12	13° <b>£</b> 46'53 1°27'26	minimum elong	2610 Oct 21 18:46	27° <b>£</b> 56'46 1°33'09
min. Earth dist.	2604 Apr 04 09:15	13° <b>£</b> 45'30 29.29538 A		2610 Oct 20 19:22	27° <b>£</b> 54'36 31.33395 AU
direct	2604 Jun 23 06:59	12° <b>≏</b> 21'52	morning rise	2610 Nov 06 09:22	28° <b>£</b> 31'21
evening set	2604 Sep 22 04:10	14° <b>≙</b> 17'47		2610 Dec 25 23:06	0° <b>M</b>
max. Earth dist.	2604 Oct 07 03:54	14° <b>£</b> 50'51 31.29764 A	U retrograde	2611 Feb 01 01:50	0°M23'13
				2611 Mar 11 01:16	30°R <b>≏</b>
conjunction	2604 Oct 08 01:35	14° <b>£</b> 52'51 1°22'56	opposition	2611 Apr 19 16:37	29° <b>△</b> 01'24 1°40'10
minimum elong	2604 Oct 08 01:35	14° <b>£</b> 52'51 1°22'55	min. Earth dist.	2611 Apr 20 14:13	28° <b>△</b> 59'55 29.33639 AU
morning rise	2604 Oct 23 19:22	15° <b>£</b> 27'39	direct	2611 Jul 09 16:48	27° <b>△</b> 36'37
retrograde	2605 Jan 18 11:08	17° <b>£</b> 19'28	evening set	2611 Oct 08 11:59	29° <b>△</b> 32'33
opposition	2605 Apr 05 23:49	15° <b>£</b> 57'28 1°29'39		2611 Oct 20 22:22	0°M
min. Earth dist.	2605 Apr 06 20:25	15° <b>№</b> 56'03 29.30187 A	U max. Earth dist.	2611 Oct 23 06:51	0°ML05'16 31.33630 AU
direct	2605 Jun 25 18:41	14° <b>£</b> 32'29	. ,.	2611.0 + 24.05.22	0000 07100 1004104
evening set	2605 Sep 24 15:49	16° <b>£</b> 28′24	conjunction	2611 Oct 24 05:32	0°M07'22 1°34'24
agniumation	2605 Oct 10 12:20	170.0.02106 1004157	minimum elong	2611 Oct 24 05:32	0°M07'22 1°34'25
conjunction	2605 Oct 10 12:30	17° <b>£</b> 03'26 1°24'57	morning rise	2611 Nov 08 19:32	0°M41'54
minimum elong	2605 Oct 10 12:30	17° <b>£</b> 03'26 1°24'57	retrograde	2612 Feb 03 10:30	2°M33'45
max. Earth dist.	2605 Oct 09 13:50	17° <b>♀</b> 01'20 31.30456 A 17° <b>♀</b> 38'11	11	2612 Apr 21 03:31	1° <b>ጤ</b> 11'56 1°41'26 1° <b>ጤ</b> 10'27 29.33804 AU
morning rise retrograde	2605 Oct 26 05:52 2606 Jan 20 21:49	1/° <b>2</b> 23811 19° <b>2</b> 30'00	min. Earth dist.	2612 Apr 22 01:19 2612 Jun 12 10:15	1°11610'27 29.33804 AU 30°R <b>≏</b>
opposition	2606 Apr 08 10:20	19 <b>2</b> 30 00 18° <b>2</b> 08'03 1°31'45	direct	2612 Jul 11 06:00	30 <b>қ≗</b> 29° <b>£</b> 47'10
min. Earth dist.	2606 Apr 09 06:09	18° <b>⊆</b> 06'41 29.30907 A		2612 Jul 11 06:00 2612 Aug 08 12:48	0° <b>™</b>
direct	2606 Jun 28 05:34	16° <b>£</b> 43'06	evening set	2612 Aug 08 12:48 2612 Oct 09 23:11	1°ML43'04
	2000 Juli 20 UJ.34	10 -73 00	evening set	2012 001 09 23.11	1 IIUTJ UT
evening set	2606 Sep 27 03:16	18° <b>£</b> 39'03			

conjunction	2612 Oct 25 16:05	2°ML17'51	1025121	ratragrada	2619 Feb 18 08:36	17° <b>M</b> 45'00	
minimum elong	2612 Oct 25 16:04	2°ML17'51		retrograde opposition		16°ML23'09	1°46'11
max. Earth dist.	2612 Oct 23 16:04 2612 Oct 24 16:11		31.33740 AU	min. Earth dist.	2619 May 07 09:12 2619 May 08 04:45		29.34680 AU
morning rise	2612 Nov 10 05:44	2°M52'22	31.33740 AU	IIIII. Eartii tist.	2619 Jul 18 01:16	10 11G21 49 15°RM	29.34080 AU
retrograde	2613 Feb 04 21:11	4°ML44'12		direct	2619 Jul 27 14:01	14°ML58'33	
Č	2613 Feb 04 21.11 2613 Apr 23 14:28	3°M22'22	1942122	direct	2619 Aug 06 01:05	14 1163833 15°M	
opposition	1						
min. Earth dist.	2613 Apr 24 12:01		29.33870 AU	evening set	2619 Oct 26 01:21	16° <b>M</b> 54'18	
direct	2613 Jul 13 16:41	1°M57'35		:	2610 Nov. 10, 14-50	170 <b>m</b> 20152	1920/20
evening set	2613 Oct 12 10:03	3°M53'27	21 22761 444	conjunction	2619 Nov 10 14:50	17°M28'53	1°39'28
max. Earth dist.	2613 Oct 27 03:47	4°11626'04	31.33761 AU	minimum elong	2619 Nov 10 14:50	17°M28'53	1°39'29
	2612.0 . 20 02.25	40 <b>M</b> 2011 1	1027120	max. Earth dist.	2619 Nov 09 17:37		31.34728 AU
conjunction	2613 Oct 28 02:35	4°M28'11	1°36'30	morning rise	2619 Nov 26 01:20	18°M03'13	
minimum elong	2613 Oct 28 02:35	4°M28'11	1°36'30	retrograde	2620 Feb 20 19:12	19°M.55'19	1046116
morning rise	2613 Nov 12 15:35	5°M02'40		opposition	2620 May 08 20:24	18°M33'30	
retrograde	2614 Feb 07 04:45	6°M54'31	1040100	min. Earth dist.	2620 May 09 16:09		29.34989 AU
opposition	2614 Apr 26 01:34	5°M32'39		direct	2620 Jul 29 00:21	17°M08'58	
min. Earth dist.	2614 Apr 26 23:42		29.33866 AU	evening set	2620 Oct 27 11:42	19°M04'43	
direct	2614 Jul 16 04:50	4° <b>M</b> ₀07'51		max. Earth dist.	2620 Nov 11 04:51	19°¶L37'25	31.35008 AU
evening set	2614 Oct 14 20:56	6°M₀03'40					
				conjunction	2620 Nov 12 00:52	19°M39'17	
conjunction	2614 Oct 30 12:48	6°M38′23		minimum elong	2620 Nov 12 00:52	19°M39'17	1°39'28
minimum elong	2614 Oct 30 12:47	6°M38'23	1°37'21	morning rise	2620 Nov 27 10:52	20°M13'36	
max. Earth dist.	2614 Oct 29 13:16		31.33759 AU	retrograde	2621 Feb 22 04:45	22°M05'45	
morning rise	2614 Nov 15 01:29	7° <b>M</b> 12'50		opposition	2621 May 11 07:55	20°M43'58	
retrograde	2615 Feb 09 15:02	9° <b>ጤ</b> 04'41		min. Earth dist.	2621 May 12 03:33		29.35222 AU
opposition	2615 Apr 28 12:33	7° <b>M</b> 42'47	1°44'22	direct	2621 Jul 31 14:00	19°M19'30	
min. Earth dist.	2615 Apr 29 09:34		29.33880 AU	evening set	2621 Oct 29 22:09	21°M15'15	
direct	2615 Jul 18 15:36	6° <b>™</b> 17'59					
evening set	2615 Oct 17 07:25	8°M13'46		conjunction	2621 Nov 14 10:41	21° <b>M</b> 49'47	1°39'20
				minimum elong	2621 Nov 14 10:41	21° <b>M</b> 49'47	1°39'20
conjunction	2615 Nov 01 22:55	8°M48'27	1°38'03	max. Earth dist.	2621 Nov 13 13:49	21°M47'50	31.35195 AU
minimum elong	2615 Nov 01 22:55	8°M48'27	1°38'03	morning rise	2621 Nov 29 20:26	22°M24'05	
max. Earth dist.	2615 Nov 01 00:37	8°M46'23	31.33788 AU	retrograde	2622 Feb 24 16:15	24°M16'19	
morning rise	2615 Nov 17 11:01	9°M22'53		opposition	2622 May 13 19:28	22°M54'32	1°45'57
retrograde	2616 Feb 11 23:55	11° <b>M</b> .14'45		min. Earth dist.	2622 May 14 14:31	22°M53'14	29.35360 AU
opposition	2616 Apr 29 23:43	9°M52'50	1°45'03	direct	2622 Aug 03 01:01	21°M30'07	
min. Earth dist.	2616 Apr 30 21:21	9°M51'21	29.33951 AU	evening set	2622 Nov 01 08:26	23°M25'50	
direct	2616 Jul 20 01:29	8°ML28'03					
evening set	2616 Oct 18 18:05	10°M23'49		conjunction	2622 Nov 16 20:43	24°M00'21	1°39'03
max. Earth dist.	2616 Nov 02 10:44	10°M56'23	31.33909 AU	minimum elong	2622 Nov 16 20:43	24°M00'21	1°39'03
				max. Earth dist.	2622 Nov 16 01:00	23°M58'30	31.35265 AU
conjunction	2616 Nov 03 08:59	10°M58'28	1°38'37	morning rise	2622 Dec 02 05:56	24°M34'38	
minimum elong	2616 Nov 03 08:59	10°M58'28	1°38'37	retrograde	2623 Feb 27 00:03	26°M26'55	
morning rise	2616 Nov 18 20:44	11°MJ32'52		opposition	2623 May 16 07:11	25°M05'09	1°45'35
retrograde	2617 Feb 13 10:46	13°M24'46		min. Earth dist.	2623 May 17 02:48	25°M03'49	29.35360 AU
opposition	2617 May 02 10:39	12°ML02'51	1°45'35	direct	2623 Aug 05 13:06	23°M40'46	
min. Earth dist.	2617 May 03 06:48	12°Mo1'29	29.34115 AU	evening set	2623 Nov 03 18:45	25°M36'26	
direct	2617 Jul 22 13:55	10°MJ38'07		max. Earth dist.	2623 Nov 18 09:59	26°M09'00	31.35202 AU
evening set	2617 Oct 21 04:36	12°M33'52					
				conjunction	2623 Nov 19 06:29	26°M10'55	1°38'37
conjunction	2617 Nov 05 19:04	13°ML08'30	1°39'03	minimum elong	2623 Nov 19 06:29	26°M10'55	1°38'37
minimum elong	2617 Nov 05 19:04	13°ML08'30	1°39'03	morning rise	2623 Dec 04 15:33	26°M45'12	
max. Earth dist.	2617 Nov 04 21:19	13°ML06'28	31.34120 AU	retrograde	2624 Feb 29 10:20	28°M37'32	
morning rise	2617 Nov 21 06:18	13°M42'52		opposition	2624 May 17 18:47	27° <b>M</b> L15'44	1°45'03
	2618 Jan 01 03:27	15° <b>M</b> ₊		min. Earth dist.	2624 May 18 13:24	27° <b>M</b> .14'28	29.35220 AU
retrograde	2618 Feb 15 22:05	15°MJ34'50		direct	2624 Aug 07 00:00	25°M51'22	
	2618 Apr 04 08:07	15°RM₀		evening set	2624 Nov 05 04:57	27°ML46'58	
opposition	2618 May 04 21:57	14°ML12'57	1°45'57				
min. Earth dist.	2618 May 05 18:30	14°ML11'32	29.34376 AU	conjunction	2624 Nov 20 16:25	28°ML21'27	1°38'03
direct	2618 Jul 25 01:05	12°ML48'16		minimum elong	2624 Nov 20 16:25	28°ML21'27	1°38'03
evening set	2618 Oct 23 14:54	14°ML44'01		max. Earth dist.	2624 Nov 19 20:43	28°M19'36	31.34983 AU
-	2618 Oct 30 21:00	15° <b>M</b> ₊		morning rise	2624 Dec 06 01:01	28°M55'43	
max. Earth dist.	2618 Nov 07 08:01	15°M16'40	31.34418 AU	-	2625 Jan 07 14:30	0° <b>∡</b> ¹	
				retrograde	2625 Mar 02 19:29	0° <b>∡</b> 148′05	
conjunction	2618 Nov 08 04:56	15°ML18'37	1°39'20	=	2625 Apr 28 21:54	30°RM₊	
minimum elong	2618 Nov 08 04:55	15° <b>M</b> ₊18'37		opposition	2625 May 20 06:32	29°M26'15	1°44'23
morning rise	2618 Nov 23 15:45	15°M52'58		min. Earth dist.	2625 May 21 02:03		29.34937 AU
					•		

direct	2625 Aug 09 10:12	28°M01'53		morning rise	2631 Dec 21 17:48	14° <b>√</b> 06'45	
evening set	2625 Nov 07 15:08	29°M57'25		retrograde	2632 Mar 17 20:24	15° <b>₹</b> 59'36	
<i>8</i>	2625 Nov 08 19:25	0° <b>⊼</b> ¹		opposition	2632 Jun 04 17:36	14° <b>∡</b> ³37'31	1°35'36
max. Earth dist.	2625 Nov 22 06:31	0° <b>∡</b> ³30′02	31.34655 AU	min. Earth dist.	2632 Jun 05 08:35	14° <b>∡</b> ³36'30	29.32784 AU
				direct	2632 Aug 24 21:31	13° <b>х</b> 13′23	
conjunction	2625 Nov 23 02:09	0° <b>∡</b> ³31′52	1°37'21	evening set	2632 Nov 22 11:27	15° <b>≯</b> 08'34	
minimum elong	2625 Nov 23 02:10	0° <b>∡</b> 31′52	1°37'21				
morning rise	2625 Dec 08 10:33	1° <b>∡</b> 06′07		conjunction	2632 Dec 07 20:13	15° <b>∡</b> 42′56	1°28'39
retrograde	2626 Mar 05 06:01	2° <b>≯</b> 58'32		minimum elong	2632 Dec 07 20:13	15° <b>х</b> 42′56	1°28'39
opposition	2626 May 22 18:16	1° <b>≯</b> 36'38	1°43'34	max. Earth dist.	2632 Dec 07 05:04		31.32609 AU
min. Earth dist.	2626 May 23 12:24		29.34554 AU	morning rise	2632 Dec 23 03:04	16° <b>∡</b> 17'08	
direct	2626 Aug 11 22:57	0° <b>₹</b> 12'16		retrograde	2633 Mar 20 07:20	18° <b>₹</b> 10'06	
evening set	2626 Nov 10 01:00	2° <b>҂</b> 07'42		opposition	2633 Jun 07 05:38	16° <b>₹</b> 48'02	
. ,.	2626 N 25 11 41	20 742100	1026121	min. Earth dist.	2633 Jun 07 19:11		29.32577 AU
conjunction	2626 Nov 25 11:41	2° ₹ 42'08 2° ₹ 42'08	1°36'31 1°36'31	direct	2633 Aug 27 08:19	15° <b>х</b> 23′58 17° <b>х</b> 19′08	
minimum elong max. Earth dist.	2626 Nov 25 11:41 2626 Nov 24 16:26		31.34241 AU	evening set	2633 Nov 24 21:09	1/ ×.1908	
morning rise	2626 Dec 10 19:47	3° <b>₹</b> 16′22	31.34241 AU	conjunction	2633 Dec 10 05:44	17° <b>₹</b> 53'30	1°26'53
retrograde	2627 Mar 07 16:55	5°×1022		minimum elong	2633 Dec 10 05:44 2633 Dec 10 05:44	17 × 53 30	1°26'53
opposition	2627 May 25 06:08	3° <b>х</b> 46′51	1°42'36	max. Earth dist.	2633 Dec 10 05:44 2633 Dec 09 15:40		31.32363 AU
min. Earth dist.	2627 May 26 00:37		29.34133 AU	morning rise	2633 Dec 25 12:19	18°×727'43	31.32303710
direct	2627 Aug 14 09:41	2° <b>×</b> 122'29	27.5 1.55 1.10	retrograde	2634 Mar 22 17:25	20°×20'48	
evening set	2627 Nov 12 10:51	4° <b>₹</b> 17'51		opposition	2634 Jun 09 18:01	18° <b>₹</b> 58'44	1°31'49
<i>8</i>				min. Earth dist.	2634 Jun 10 08:10		29.32288 AU
conjunction	2627 Nov 27 21:14	4° <b>₹</b> 52'16	1°35'33	direct	2634 Aug 29 18:13	17° <b>∡</b> ³34'45	
minimum elong	2627 Nov 27 21:14	4° <b>₹</b> 52'16	1°35'32	evening set	2634 Nov 27 06:45	19° <b>∡</b> ¹29'52	
max. Earth dist.	2627 Nov 27 03:05	4° <b>₹</b> 50'34	31.33826 AU	_			
morning rise	2627 Dec 13 05:03	5° <b>∡</b> ¹26′29		conjunction	2634 Dec 12 15:04	20° <b>х</b> 04′13	1°24'59
retrograde	2628 Mar 09 02:54	7° <b>∡</b> 18'59		minimum elong	2634 Dec 12 15:04	20° <b>х</b> 04′13	1°24'58
opposition	2628 May 26 17:46	5° <b>∡</b> 56'57	1°41'29	max. Earth dist.	2634 Dec 12 01:22	20° <b>∡</b> 02'56	31.32027 AU
min. Earth dist.	2628 May 27 11:01	5° <b>₹</b> 55'47	29.33724 AU	morning rise	2634 Dec 27 21:35	20° <b>х</b> 38′27	
direct	2628 Aug 15 22:22	4° <b>∡</b> ³32'35		retrograde	2635 Mar 25 04:31	22° <b>х</b> 31'39	
evening set	2628 Nov 13 20:46	6° <b>≯</b> 27'53		opposition	2635 Jun 12 06:17	21° <b>≯</b> 09'35	1°29'43
		_		min. Earth dist.	2635 Jun 12 18:59		29.31876 AU
conjunction	2628 Nov 29 06:42	7° <b>∡</b> °02'17	1°34'26	direct	2635 Sep 01 06:22	19° <b>∡</b> 45'39	
minimum elong	2628 Nov 29 06:42	7° <b>∡</b> 02'17	1°34'26	evening set	2635 Nov 29 16:30	21° <b>х</b> 40'44	
max. Earth dist.	2628 Nov 28 12:30		31.33450 AU	max. Earth dist.	2635 Dec 14 10:57	22° <b>×</b> 13'48	31.31540 AU
morning rise	2628 Dec 14 14:20	7° <b>х</b> 36′30 9° <b>х</b> 29′03		:	2625 Dec 15 00:25	220.715105	1922150
retrograde opposition	2629 Mar 11 14:06 2629 May 29 05:40	9° <b>×</b> ′29'03 8° <b>×</b> ′06'59	1940'14	conjunction minimum elong	2635 Dec 15 00:35 2635 Dec 15 00:35	22° ₹ 15'05 22° ₹ 15'05	
min. Earth dist.	2629 May 29 03:40 2629 May 29 22:28		29.33395 AU	morning rise	2635 Dec 30 06:59	22° <b>х</b> 1303	1 22 37
direct	2629 Aug 18 09:15	6° <b>₹</b> 42'38	27.33373 AO	retrograde	2636 Mar 26 16:19	24° <b>х</b> 42'39	
evening set	2629 Nov 16 06:23	8° <b>х</b> 37′54		opposition	2636 Jun 13 18:37	23° <b>₹</b> 20'32	1°27'30
e venning see	2025 1101 10 00:25	0,7,0,		min. Earth dist.	2636 Jun 14 07:49		29.31318 AU
conjunction	2629 Dec 01 16:08	9° <b>√</b> 12'17	1°33'11	direct	2636 Sep 02 16:13	21° <b>≯</b> 56'38	
minimum elong	2629 Dec 01 16:08	9° <b>∡</b> 12'17	1°33'12	evening set	2636 Dec 01 02:12	23° <b>₹</b> 51'41	
max. Earth dist.	2629 Nov 30 23:48	9° <b>∡</b> 10'45	31.33162 AU	_			
morning rise	2629 Dec 16 23:23	9° <b>∡</b> ¹46′29		conjunction	2636 Dec 16 10:10	24° <b>∡</b> ¹26′02	1°20'49
retrograde	2630 Mar 13 23:55	11° <b>∡</b> ³39′07		minimum elong	2636 Dec 16 10:10	24° <b>≯</b> 26′02	1°20'49
opposition	2630 May 31 17:39	10° <b>∡</b> 17′02	1°38'50	max. Earth dist.	2636 Dec 15 21:28	24° <b>≯</b> 24'50	31.30910 AU
min. Earth dist.	2630 Jun 01 09:41		29.33138 AU	morning rise	2636 Dec 31 16:23	25° <b>х</b> 00′16	
direct	2630 Aug 20 22:48	8° <b>≯</b> 52'45		retrograde	2637 Mar 29 03:00	26° <b>≯</b> 53'41	
evening set	2630 Nov 18 16:11	10° <b>∡</b> °47′58		opposition	2637 Jun 16 07:05	25° <b>∡</b> 31'32	
max. Earth dist.	2630 Dec 03 08:51	11° <b>∡</b> 20′47	31.32954 AU	min. Earth dist.	2637 Jun 16 19:15		29.30596 AU
	2620 D 04 01 20	110 7000	1021140	direct	2637 Sep 05 04:25	24° <b>₹</b> 07'40	
conjunction	2630 Dec 04 01:28	11° 🗷 22'21	1°31'49	evening set	2637 Dec 03 11:50	26° <b>≯</b> 02'38	
minimum elong	2630 Dec 04 01:28 2630 Dec 19 08:41	11° <b>∡</b> 22'21 11° <b>∡</b> 56'33	1°31'49	conjunction	2627 Dag 10 10-20	260.726150	1°18'34
morning rise retrograde	2630 Dec 19 08:41 2631 Mar 16 11:48	11° <b>×</b> ′36′33		conjunction minimum elong	2637 Dec 18 19:28 2637 Dec 18 19:28	26° ₹36'59 26° ₹36'59	
opposition	2631 Jun 03 05:31		1°37'17	max. Earth dist.	2637 Dec 18 19:28 2637 Dec 18 06:25		31.30123 AU
min. Earth dist.	2631 Jun 03 20:21		29.32960 AU	morning rise	2638 Jan 03 01:44	20 × 33 43 27° × 11'14	J1.JV12J AU
direct	2631 Aug 23 09:34	11° × 2011		retrograde	2638 Mar 31 15:09	29°×704'45	
evening set	2631 Nov 21 01:43	12° <b>×</b> 58'11		opposition	2638 Jun 18 19:39	27° <b>×</b> <sup>7</sup> 42'31	1°22'41
<i>5</i>				min. Earth dist.	2638 Jun 19 07:36		29.29751 AU
conjunction	2631 Dec 06 10:54	13° <b>∡</b> ³32'33	1°30'18	direct	2638 Sep 07 15:41	26° <b>≯</b> 18'38	
minimum elong	2631 Dec 06 10:55	13° <b>∡</b> ³32'33	1°30'18	evening set	2638 Dec 05 21:17	28° <b>҂</b> 13'32	
max. Earth dist.	2631 Dec 05 19:58	13° <b>∡</b> ³31′09	31.32787 AU				

Tiunetary Then	omena or reptane	110III 2000 III	110 <b>45</b> 113102 (	0 1 ), 1 1501 0 01 01150	110 10 100 2020 1	s, pw8• .
conjunction	2638 Dec 21 04:56	28° <b>∡</b> ¹47'53	1°16'12	retrograde	2645 Apr 15 18:07	14° <b>පි</b> 20'53
minimum elong	2638 Dec 21 04:56	28° <b>҂</b> ⁴47'53	1°16'13	opposition	2645 Jul 04 11:27	12°る58'13 1°02'21
max. Earth dist.	2638 Dec 20 17:34	28° <b>х</b> ⁴46'49 3	31.29231 AU	min. Earth dist.	2645 Jul 04 17:23	12°る57'49 29.24135 AU
morning rise	2639 Jan 05 11:01	29° <b>∡</b> ′22′08		direct	2645 Sep 23 01:10	11° <b>る</b> 34'31
	2639 Jan 23 10:43	8°0		evening set	2645 Dec 20 14:36	13° <b>る</b> 28'57
retrograde	2639 Apr 03 01:57	1° <b>る</b> 15'43				
	2639 Jun 17 06:17	30°₹ <b>⋌</b> ¹		conjunction	2646 Jan 04 21:27	14°る03'20 0°56'49
opposition	2639 Jun 21 08:04	29° <b>₹</b> 53'24	1°20'07	minimum elong	2646 Jan 04 21:28	14°る03'20 0°56'49
min. Earth dist.	2639 Jun 21 19:29	29° <b>₹</b> 52'38 2	29.28814 AU	max. Earth dist.	2646 Jan 04 16:25	14°る02'51 31.23779 AU
direct	2639 Sep 10 05:37	28° <b>∡</b> ′29'31		morning rise	2646 Jan 20 03:37	14° <b>る</b> 37'40
	2639 Nov 26 22:25	0°ಕ		retrograde	2646 Apr 18 05:13	16° <b>る</b> 32'03
evening set	2639 Dec 08 06:46	0° <b>る</b> 24'20		opposition	2646 Jul 07 00:15	15°る09'21 0°59'02
				min. Earth dist.	2646 Jul 07 04:49	15°る09'03 29.23465 AU
conjunction	2639 Dec 23 14:07	0°る58'41	1°13'44	direct	2646 Sep 25 12:50	13° <b>る</b> 45'43
minimum elong	2639 Dec 23 14:07	0° <b>る</b> 58'41	1°13'44	evening set	2646 Dec 23 00:09	15° <b>る</b> 40'07
max. Earth dist.	2639 Dec 23 02:28	0° <b>る</b> 57'35 3	31.28286 AU			
morning rise	2640 Jan 07 20:21	1° <b>る</b> 32'56		conjunction	2647 Jan 07 06:47	16°る14'29 0°53'41
retrograde	2640 Apr 04 13:59	3° <b>ප</b> 26'36		minimum elong	2647 Jan 07 06:47	16°る14'29 0°53'41
opposition	2640 Jun 22 20:29	2° <b>る</b> 04'12	1°17'25	max. Earth dist.	2647 Jan 07 01:34	16°る14'00 31.23084 AU
min. Earth dist.	2640 Jun 23 06:36	2° <b>る</b> 03'31 2	29.27870 AU	morning rise	2647 Jan 22 13:10	16° <b>る</b> 48'52
direct	2640 Sep 11 16:50	0° <b>る</b> 40'18		retrograde	2647 Apr 20 18:18	18° <b>る</b> 43'23
evening set	2640 Dec 09 16:03	2° <b>る</b> 35'02		opposition	2647 Jul 09 13:00	17°る20'39 0°55'38
				min. Earth dist.	2647 Jul 09 17:16	17°る20'21 29.22738 AU
conjunction	2640 Dec 24 23:23	3° <b>ろ</b> 09'23	1°11'10	direct	2647 Sep 27 23:12	15° <b>る</b> 57'02
minimum elong	2640 Dec 24 23:23		1°11'10	evening set	2647 Dec 25 09:34	17° <b>る</b> 51'24
max. Earth dist.	2640 Dec 24 13:34		31.27353 AU			
morning rise	2641 Jan 09 05:24	3° <b>る</b> 43'39		conjunction	2648 Jan 09 16:21	18°る25'48 0°50'27
retrograde	2641 Apr 06 22:39	5° <b>る</b> 37'24		minimum elong	2648 Jan 09 16:21	18° <b>る</b> 25'48 0°50'27
opposition	2641 Jun 25 09:04	4° <b>る</b> 14'55	1°14'37	max. Earth dist.	2648 Jan 09 12:46	18°る25'28 31.22304 AU
min. Earth dist.	2641 Jun 25 18:54		29.26964 AU	morning rise	2648 Jan 24 22:39	19° <b>ろ</b> 00'11
direct	2641 Sep 14 05:40	2° <b>る</b> 51'02		retrograde	2648 Apr 22 05:58	20° <b>る</b> 54'50
evening set	2641 Dec 12 01:28	4° <b>る</b> 45'41		opposition	2648 Jul 11 01:56	19° <b>ろ</b> 32'03 0°52'09
				min. Earth dist.	2648 Jul 11 05:43	19° <b>る</b> 31'48 29.21890 AU
conjunction	2641 Dec 27 08:32		1°08'30	direct	2648 Sep 29 12:03	18° <b>ろ</b> 08'29
minimum elong	2641 Dec 27 08:32		1°08'29	evening set	2648 Dec 26 19:10	20° <b>る</b> 02'49
max. Earth dist.	2641 Dec 26 23:03		31.26504 AU			_
morning rise	2642 Jan 11 14:40	5° <b>る</b> 54'18		conjunction	2649 Jan 11 01:44	20°ප37'13 0°47'10
retrograde	2642 Apr 09 09:54	7° <b>る</b> 48'10		minimum elong	2649 Jan 11 01:44	20°ප37'13 0°47'10
opposition	2642 Jun 27 21:34	6°号25'37		max. Earth dist.	2649 Jan 10 21:41	20°중36'50 31.21400 AU
min. Earth dist.	2642 Jun 28 05:22		29.26159 AU	morning rise	2649 Jan 26 08:16	21° <b>ට</b> 11'37
direct	2642 Sep 16 17:32	5° <b>る</b> 01'45		retrograde	2649 Apr 24 18:59	23° <b>පි</b> 06'24
evening set	2642 Dec 14 10:39	6° <b>る</b> 56'21		opposition	2649 Jul 13 14:53	21° <b>3</b> 43'33 0°48'36
		_		min. Earth dist.	2649 Jul 13 17:34	21°る43'22 29.20922 AU
conjunction	2642 Dec 29 17:42	7°る30'42		direct	2649 Oct 01 22:54	20° <b>る</b> 20'01
minimum elong	2642 Dec 29 17:42	7° <b>る</b> 30'42		evening set	2649 Dec 29 04:39	22°る14'17
max. Earth dist.	2642 Dec 29 09:39		31.25742 AU			
morning rise	2643 Jan 13 23:47	8° <b>る</b> 04'59		conjunction	2650 Jan 13 11:21	22° <b>3</b> 48'42 0°43'48
retrograde	2643 Apr 11 20:05	9°る58'58	1000141	minimum elong	2650 Jan 13 11:21	22° <b>3</b> 48'42 0°43'48
opposition	2643 Jun 30 10:13	8° <b>る</b> 36'22		max. Earth dist.	2650 Jan 13 08:41	22° <b>5</b> 48'26 31.20364 AU
min. Earth dist.	2643 Jun 30 18:06	8°る35'50 2 7°る12'33	29.25438 AU	morning rise	2650 Jan 28 17:52	23° <b>る</b> 23'07
direct	2643 Sep 19 04:18			retrograde	2650 Apr 27 05:21	25°る18'01
evening set	2643 Dec 16 19:59	9° <b>る</b> 07'05		opposition	2650 Jul 16 03:56	23° <b>3</b> 55'06 0°44'58
	2644 I. 01 02 55	00741107	1°02'51	min. Earth dist.	2650 Jul 16 06:42	23°る54'54 29.19821 AU
conjunction	2644 Jan 01 02:57			direct	2650 Oct 04 11:51	22°る31'34
minimum elong	2644 Jan 01 02:57		1°02'51	evening set	2650 Dec 31 14:08	24° <b>る</b> 25'45
max. Earth dist.	2643 Dec 31 19:52	9°540'46 : 10° <b>5</b> 15'45	31.25066 AU	conjunction	2651 Jan 15 20:47	25° <b>ප්</b> 00'10 0°40'23
morning rise	2644 Jan 16 09:04			conjunction	2651 Jan 15 20:47	
retrograde	2644 Apr 13 06:31	12°る09'51	1905/24	minimum elong	2651 Jan 15 20:47	25°る00'10 0°40'23
opposition	2644 Jul 01 22:37		1°05'34	max. Earth dist.	2651 Jan 15 18:12	24°る59'56 31.19225 AU
min. Earth dist.	2644 Jul 02 04:35	10°る46'49 2	29.24113 AU	morning rise	2651 Jan 31 03:35	25° <b>る</b> 34'37
direct	2644 Sep 20 15:54	9° <b>る</b> 23'27		retrograde	2651 Apr 29 17:41	27° <b>る</b> 29'38
evening set	2644 Dec 18 05:23	11° <b>る</b> 17'57		opposition	2651 Jul 18 16:49	26°₹06'36 0°41'17
conjunction	2645 Ion 02 12:12	110752110	0°50'52	min. Earth dist.	2651 Jul 18 17:58	26° <b>궁</b> 06'32 29.18633 AU
conjunction	2645 Jan 02 12:12 2645 Jan 02 12:12	11° <b>る</b> 52'19 11° <b>る</b> 52'19		direct	2651 Oct 07 00:17	24°る43'04 26°る37'11
minimum elong max. Earth dist.	2645 Jan 02 12:12 2645 Jan 02 05:36	11° <b>ろ</b> 52'19 11° <b>ろ</b> 51'41 3		evening set	2652 Jan 02 23:34	20 03/11
		11° <b>ろ</b> 51'41 : 12° <b>ろ</b> 26'38	31.24419 AU	conjunction	2652 Ion 10 06.16	27° <b>ප</b> 11'37 0°36'54
morning rise	2645 Jan 17 18:24	12 02038		conjunction	2652 Jan 18 06:16	2/ 0113/ 0 3034

minimum alana	2652 Jan 18 06:16	27° <b>ට</b> 11'37	0026154	morning rise	2658 Feb 14 23:15	10°≈55'53	
minimum elong max. Earth dist.	2652 Jan 18 04:44		31.18006 AU	0		10 ≈53 53 12°≈51'53	
morning rise	2652 Feb 02 13:09	27° <b>石</b> 46'05	31.18000 AU	retrograde opposition	2658 May 15 04:41 2658 Aug 03 11:42	12 ≈31 33 11°≈28'25	0°14'02
retrograde	2652 May 01 04:09	27 <b>3</b> 40 03 29° <b>3</b> 41'13		min. Earth dist.	2658 Aug 03 05:58		29.11783 AU
opposition	2652 Jul 20 05:44	29° <b>る</b> 1175	0°37'32	direct	2658 Oct 22 03:53	11 ≈26 46 10°≈05'06	29.11763 AU
min. Earth dist.	2652 Jul 20 03:44 2652 Jul 20 07:08		29.17409 AU		2659 Jan 17 17:45	10 ≈03 06 11°≈58'56	
	2652 Oct 08 11:41	26° <b>る</b> 54'32	29.17409 AU	evening set	2039 Jan 17 17.43	11 ≈3830	
direct				agniumation	2650 Eab 02 00:59	1290022129	0011110
evening set	2653 Jan 04 08:58	28° <b>る</b> 48'35		conjunction	2659 Feb 02 00:58	12°≈33'28	0°11'18
	2652 1 10 15 42	200723101	0022122	minimum elong	2659 Feb 02 00:58	12°≈33'28	0°11'18
conjunction	2653 Jan 19 15:43	29°る23'01 29°る23'01	0°33'22	behind sun begin	2659 Feb 01 20:13	12°≈33'02	
minimum elong	2653 Jan 19 15:43		0°33'22	behind sun end	2659 Feb 02 05:44	12°≈33'54	21 11207 111
max. Earth dist.	2653 Jan 19 15:22		31.16805 AU	max. Earth dist.	2659 Feb 02 06:51		31.11396 AU
morning rise	2653 Feb 03 22:44	29° <b>る</b> 57'31		morning rise	2659 Feb 17 09:09	13°≈08′08	
	2653 Feb 05 01:42	0° <b>≈</b>			2659 May 01 13:49	15° <b>≈</b>	
retrograde	2653 May 03 14:42	1°≈52'45		retrograde	2659 May 17 16:44	15°≈04'17	
opposition	2653 Jul 22 18:40	0°≈29'32	0°33'44		2659 Jun 03 00:08	15°R≈	
min. Earth dist.	2653 Jul 22 17:57		29.16232 AU	opposition	2659 Aug 06 00:55	13° <b>≈</b> 40'47	0°10'00
	2653 Aug 10 08:20	30°Ŗる		min. Earth dist.	2659 Aug 05 19:10		29.11008 AU
direct	2653 Oct 10 23:46	29° <b>ろ</b> 06'00		direct	2659 Oct 24 16:44	12°≈17'32	
	2653 Dec 08 00:50	0° <b>≈</b>		evening set	2660 Jan 20 03:35	14° <b>≈</b> 11'20	
evening set	2654 Jan 06 18:19	0° <b>≈</b> 59'58					
				conjunction	2660 Feb 04 10:49	14° <b>≈</b> 45'53	0°07'32
conjunction	2654 Jan 22 01:01	1° <b>≈</b> 34'25	0°29'48	minimum elong	2660 Feb 04 10:49	14° <b>≈</b> 45'53	0°07'32
minimum elong	2654 Jan 22 01:02	1° <b>≈</b> 34'25	0°29'48	behind sun begin	2660 Feb 04 04:59	14° <b>≈</b> 45′22	
max. Earth dist.	2654 Jan 22 01:15	1° <b>≈</b> 34'27	31.15668 AU	behind sun end	2660 Feb 04 16:39	14° <b>≈</b> 46′25	
morning rise	2654 Feb 06 08:17	2° <b>≈</b> 08'57		max. Earth dist.	2660 Feb 04 16:52	14° <b>≈</b> 46′26	31.10601 AU
retrograde	2654 May 06 02:12	4° <b>≈</b> 04'19			2660 Feb 10 15:37	15° <b>≈</b>	
opposition	2654 Jul 25 07:45	2° <b>≈</b> 41'01	0°29'53	morning rise	2660 Feb 19 19:17	15° <b>≈</b> 20'34	
min. Earth dist.	2654 Jul 25 06:43	2° <b>≈</b> 41'05	29.15155 AU	retrograde	2660 May 19 06:58	17° <b>≈</b> 16′52	
direct	2654 Oct 13 09:07	1° <b>≈</b> 17'30		opposition	2660 Aug 07 13:59	15° <b>≈</b> 53′20	0°05'57
evening set	2655 Jan 09 03:41	3° <b>≈</b> 11'25		min. Earth dist.	2660 Aug 07 06:43	15° <b>≈</b> 53'50	29.10173 AU
					2660 Sep 12 01:49	15°R≈	
conjunction	2655 Jan 24 10:35	3° <b>≈</b> 45'54	0°26'10	direct	2660 Oct 26 05:14	14° <b>≈</b> 30′07	
minimum elong	2655 Jan 24 10:35	3° <b>≈</b> 45'54	0°26'11		2660 Dec 07 15:29	15° <b>≈</b>	
max. Earth dist.	2655 Jan 24 12:42	3° <b>≈</b> 46′05	31.14650 AU	evening set	2661 Jan 21 13:31	16° <b>≈</b> 23'54	
morning rise	2655 Feb 08 17:54	4° <b>≈</b> 20'26		, and the second			
retrograde	2655 May 08 13:20	6°≈15'57		conjunction	2661 Feb 05 20:51	16°≈58'29	0°03'45
opposition	2655 Jul 27 20:31	4°≈52'36	0°25'59	minimum elong	2661 Feb 05 20:52	16°≈58'29	0°03'45
min. Earth dist.	2655 Jul 27 17:46	4°≈52'47	29.14185 AU	behind sun begin	2661 Feb 05 14:32	16° <b>≈</b> 57'54	
direct	2655 Oct 15 20:27	3°≈29'07	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	behind sun end	2661 Feb 06 03:13	16° <b>≈</b> 59'03	
evening set	2656 Jan 11 13:13	5°≈23'00		max. Earth dist.	2661 Feb 06 03:39		31.09712 AU
e venning sec	2000 van 11 15.15	2 10 23 00		morning rise	2661 Feb 21 05:32	17°≈33'12	31.09,12110
conjunction	2656 Jan 26 20:02	5° <b>≈</b> 57'29	0°22'30	retrograde	2661 May 21 18:37	19° <b>≈</b> 29'39	
minimum elong	2656 Jan 26 20:02	5°≈57'29	0°22'30	opposition	2661 Aug 10 03:25	18°≈06'02	0°01'53
max. Earth dist.	2656 Jan 26 22:14		31.13739 AU	min. Earth dist.	2661 Aug 09 20:39		29.09236 AU
morning rise	2656 Feb 11 03:42	6°≈32'04	31.13737110	direct	2661 Oct 28 16:43	16°≈42'51	27.07230710
retrograde	2656 May 10 02:45	8° <b>≈</b> 27'44		evening set	2662 Jan 23 23:24	18°≈36'35	
opposition	2656 Jul 29 09:33	7°≈04'20	0°22'02	desc. node	2662 Jan 26 07:48	18° <b>≈</b> 41'49	
min. Earth dist.	2656 Jul 29 06:03		29.13328 AU	dese. Hode	2002 3411 20 07.10	10 /6/11 19	
direct	2656 Oct 17 06:23	5°≈40'54	27.13320110	conjunction	2662 Feb 08 06:58	19° <b>≈</b> 11'11	-0°00'09
evening set	2657 Jan 12 22:32	7°≈34'46		minimum elong	2662 Feb 08 06:57	19°≈11'11	0°00'08
evening set	2001 Jun 12 22.32	, <b>~</b> J++0		behind sun begin	2662 Feb 08 00:41	19 ≈1111 19°≈10'37	3 00 00
conjunction	2657 Jan 28 05:36	8° <b>≈</b> 09'16	0°18'48	behind sun end	2662 Feb 08 13:13	19°≈11'45	
minimum elong	2657 Jan 28 05:35	8°≈09'16	0°18'48	max. Earth dist.	2662 Feb 08 14:33		31.08720 AU
max. Earth dist.	2657 Jan 28 09:56					19 ≈11 55 19°≈45'56	31.08720 AU
morning rise	2657 Feb 12 13:17	8°≈43'52	31.12918 AU	morning rise	2662 Feb 23 15:50 2662 May 24 06:05	19 ≈43 30 21°≈42'30	
•				retrograde	•		0.02112
retrograde	2657 May 12 15:02 2657 Jul 31 22:39	10°≈39'42 9°≈16'16	0°18'03	opposition	2662 Aug 12 16:40	20°≈18'49	29.08172 AU
opposition min. Earth dist.	2657 Jul 31 18:14		29.12531 AU	min. Earth dist. direct	2662 Aug 12 08:20 2662 Oct 31 05:27	20°≈19'23 18°≈55'38	49.001/4 AU
			47.14331 AU				
direct evening set	2657 Oct 19 18:09	7°≈52'53		evening set	2663 Jan 26 09:31	20°≈49'18	
EVEULOU VAL	2658 Jan 15 08:11	9° <b>≈</b> 46'44		conjunction	2663 Feb 10 17:07	21° <b>≈</b> 23'55	0004101
evening set					/DD3 HAD III I /:II /	/ L'202 / J'35	
		1000001115	0015104				
conjunction	2658 Jan 30 15:10	10°≈21'15	0°15'04	minimum elong	2663 Feb 10 17:07	21° <b>≈</b> 23'55	0°04'00
conjunction minimum elong	2658 Jan 30 15:10 2658 Jan 30 15:10	10° <b>≈</b> 21'15	0°15'04 0°15'04	minimum elong behind sun begin	2663 Feb 10 17:07 2663 Feb 10 10:48	21°≈23'55 21°≈23'21	
conjunction minimum elong behind sun begin	2658 Jan 30 15:10 2658 Jan 30 15:10 2658 Jan 30 12:41	10°≈21'15 10°≈21'02		minimum elong behind sun begin behind sun end	2663 Feb 10 17:07 2663 Feb 10 10:48 2663 Feb 10 23:27	21°≈23'55 21°≈23'21 21°≈24'29	0°04'00
conjunction minimum elong	2658 Jan 30 15:10 2658 Jan 30 15:10	10°≈21'15 10°≈21'02 10°≈21'29		minimum elong behind sun begin	2663 Feb 10 17:07 2663 Feb 10 10:48	21°≈23'55 21°≈23'21 21°≈24'29	

retrograde	2663 May 26 18:03	23° <b>≈</b> 55′22		conjunction	2669 Feb 23 06:24	4° <b>)</b> (39′46	-0°26'30
opposition	2663 Aug 15 05:53	22° <b>≈</b> 31'35	-0°06'16	minimum elong	2669 Feb 23 06:23	4° <b>)</b> 39′46	0°26'30
min. Earth dist.	2663 Aug 14 21:55	22° <b>≈</b> 32'08	29.06998 AU	max. Earth dist.	2669 Feb 23 19:18	4° <b>)</b> 40′59	31.00879 AU
direct	2663 Nov 02 16:00	21° <b>≈</b> 08′23		morning rise	2669 Mar 10 17:20	5° <b>升</b> 14'42	
evening set	2664 Jan 28 19:27	23°≈01'59		retrograde	2669 Jun 08 22:39	7° <b>升</b> 12'05	
8.11				opposition	2669 Aug 28 12:47	5° <b>)</b> 47'47	-0°30'18
conjunction	2664 Feb 13 03:23	23° <b>≈</b> 36'37	-0°07'48	min. Earth dist.	2669 Aug 27 22:38		29.00478 AU
minimum elong	2664 Feb 13 03:23	23°≈36'37		direct	2669 Nov 15 12:26	4° <del>)(</del> 24'36	27.00476710
behind sun begin	2664 Feb 12 21:35	23°≈36'06	0 07 40	evening set	2670 Feb 10 07:49	6° <del>)(</del> 17'58	
_				evening set	20/01/60/10/07.49	0 X1/38	
behind sun end	2664 Feb 13 09:10	23°≈37'09	21.06277.411		2670 E 1 25 16 40	601/50142	0020110
max. Earth dist.	2664 Feb 13 12:16		31.06377 AU	conjunction	2670 Feb 25 16:48	6° <b>)</b> 52'43	
morning rise	2664 Feb 28 12:47	24°≈11′25		minimum elong	2670 Feb 25 16:47	6° <b>)</b> 52'43	
retrograde	2664 May 28 05:18	26° <b>≈</b> 08'11		max. Earth dist.	2670 Feb 26 06:40		31.00060 AU
opposition	2664 Aug 16 19:03	24° <b>≈</b> 44'18	-0°10'20	morning rise	2670 Mar 13 04:06	7° <b>)</b> 27'42	
min. Earth dist.	2664 Aug 16 09:44	24° <b>≈</b> 44'56	29.05749 AU	retrograde	2670 Jun 11 11:00	9° <b>升</b> 25′14	
direct	2664 Nov 04 04:31	23° <b>≈</b> 21′05		opposition	2670 Aug 31 02:04	8° <b>₩</b> 00'55	-0°34'12
evening set	2665 Jan 30 05:24	25° <b>≈</b> 14'36		min. Earth dist.	2670 Aug 30 12:15	8° <b>₩</b> 01'51	28.99695 AU
				direct	2670 Nov 17 23:32	6° <b>)</b> 37'46	
conjunction	2665 Feb 14 13:19	25° <b>≈</b> 49'14	-0°11'34	evening set	2671 Feb 12 18:12	8° <b>₩</b> 31'09	
minimum elong	2665 Feb 14 13:19	25° <b>≈</b> 49'14	0°11'35	Ü			
behind sun begin	2665 Feb 14 08:40	25°≈48'49		conjunction	2671 Feb 28 03:29	9° <b>₩</b> 05'55	-0°33'47
behind sun end	2665 Feb 14 17:58	25°≈49'40		minimum elong	2671 Feb 28 03:29	9° <b>₩</b> 05'55	
max. Earth dist.	2665 Feb 14 22:05		31.05125 AU	max. Earth dist.	2671 Feb 28 18:23		30.99299 AU
		25 ≈30 03 26°≈24'04	31.03123 AU		2671 Mar 15 15:02	9° <b>H</b> 40'55	30.99299 AU
morning rise	2665 Mar 01 23:10			morning rise			
retrograde	2665 May 30 17:57	28°≈20'57	001.4100	retrograde	2671 Jun 13 23:53	11° <b>)</b> (38'36	0020102
opposition	2665 Aug 19 08:21	26°≈56'57		opposition	2671 Sep 02 15:01	10° <b>)</b> 14'16	
min. Earth dist.	2665 Aug 18 22:33		29.04518 AU	min. Earth dist.	2671 Sep 01 23:39		28.98938 AU
direct	2665 Nov 06 14:42	25° <b>≈</b> 33'41		direct	2671 Nov 20 12:02	8° <b>∺</b> 51'11	
evening set	2666 Feb 01 15:21	27° <b>≈</b> 27'09		evening set	2672 Feb 15 04:47	10° <b>) (</b> 44′34	
conjunction	2666 Feb 16 23:36	28° <b>≈</b> 01'48	-0°15'20	conjunction	2672 Mar 01 14:10	11° <b>∺</b> 19'22	
minimum elong	2666 Feb 16 23:36	28° <b>≈</b> 01'48	0°15'21	minimum elong	2672 Mar 01 14:09	11° <b>∺</b> 19'22	
behind sun begin	2666 Feb 16 21:27	28° <b>≈</b> 01'37		max. Earth dist.	2672 Mar 02 04:59	11° <b>∺</b> 20'46	30.98532 AU
behind sun end	2666 Feb 17 01:45	28° <b>≈</b> 02'00		morning rise	2672 Mar 17 02:09	11° <b>¥</b> 54'25	
max. Earth dist.	2666 Feb 17 10:23	28° <b>≈</b> 02'49	31.03912 AU	retrograde	2672 Jun 15 13:20	13° <b>升</b> 52′15	
morning rise	2666 Mar 04 09:34	28° <b>≈</b> 36'39		opposition	2672 Sep 04 04:22	12° <b>∺</b> 27'53	-0°41'51
•	2666 Apr 17 11:53	0° <b>∀</b>		min. Earth dist.	2672 Sep 03 13:23	12° <b>¥</b> 28'55	28.98165 AU
retrograde	2666 Jun 02 05:28	0° <b>)</b> €33'39		direct	2672 Nov 21 22:32	11° <b>)</b> 04'51	
	2666 Jul 19 19:13	30°R≈		evening set	2673 Feb 16 15:16	12° <b>)</b> 58'14	
opposition	2666 Aug 21 21:25	29° <b>≈</b> 09'33	-0°18'24	evening sec	20/3100 10 10:10	12 /(501.	
min. Earth dist.	2666 Aug 21 10:44		29.03346 AU	conjunction	2673 Mar 04 01:01	13° <b>)</b> €33'04	0°40'53
direct	2666 Nov 09 02:13	27°≈46'16	27.03340 AC	minimum elong	2673 Mar 04 01:01 2673 Mar 04 01:01	13° <b>X</b> 33'04	
	2667 Feb 04 01:26	27 ≈ 40 10 29° ≈ 39'41		max. Earth dist.	2673 Mar 04 01:01 2673 Mar 04 17:14		30.97726 AU
evening set						13 <b>X</b> 34 36 14° <b>X</b> 08'09	30.97720 AU
	2667 Feb 13 02:18	0° <b>)</b> €		morning rise	2673 Mar 19 13:11		
				retrograde	2673 Jun 18 01:25	16° <b>₩</b> 06'07	
conjunction	2667 Feb 19 09:45	0° <b>)</b> 14′22		opposition	2673 Sep 06 17:37	14° <b>)(</b> 41'44	
minimum elong	2667 Feb 19 09:44	0° <b>)</b> 14′22		min. Earth dist.	2673 Sep 06 01:32		28.97316 AU
max. Earth dist.	2667 Feb 19 20:30		31.02793 AU	direct	2673 Nov 24 11:01	13° <b>)</b> 18'44	
morning rise	2667 Mar 06 20:09	0° <b>)</b> 49′14		evening set	2674 Feb 19 02:10	15° <b>∺</b> 12'07	
retrograde	2667 Jun 04 19:20	2° <b>)</b> 46′21					
opposition	2667 Aug 24 10:30	1° <b>∺</b> 22'10	-0°22'24	conjunction	2674 Mar 06 12:02	15° <b>∺</b> 46'58	
min. Earth dist.	2667 Aug 23 22:28	1° <b>)</b> 22′59	29.02287 AU	minimum elong	2674 Mar 06 12:01	15° <b>)</b> 46′58	0°44'20
	2667 Nov 03 12:15	30° <b>R</b> ≈		max. Earth dist.	2674 Mar 07 03:32	15° <b>)</b> 48′26	30.96825 AU
direct	2667 Nov 11 12:11	29° <b>≈</b> 58'54		morning rise	2674 Mar 22 00:42	16° <b>)</b> 22′05	
	2667 Nov 19 14:16	0° <b>∀</b>		retrograde	2674 Jun 20 14:24	18° <b>∺</b> 20'11	
evening set	2668 Feb 06 11:27	1° <b>¥</b> 52'18		opposition	2674 Sep 09 06:52	16° <b>¥</b> 55'45	-0°49'15
Č				min. Earth dist.	2674 Sep 08 14:57	16° <b>¥</b> 56'50	28.96369 AU
conjunction	2668 Feb 21 20:02	2° <b>)</b> €27'00	-0°22'49	direct	2674 Nov 26 20:59	15° <b>)</b> 32'44	
minimum elong	2668 Feb 21 20:02	2° <b>\</b> 27'00		evening set	2675 Feb 21 12:59	17° <b>)</b> 26'07	
max. Earth dist.	2668 Feb 22 08:26		31.01775 AU		20 2. 12.07	,(2007	
morning rise	2668 Mar 08 06:37	3° <b>¥</b> 01'54	51.01/15 AU	conjunction	2675 Mar 08 23:17	18° <b>₩</b> 01'00	-0°47'44
•		3° <b>π</b> 01′34 4° <b>)</b> €59′09		v		18° <b>X</b> 01'00	
retrograde	2668 Jun 06 07:45		0006100	minimum elong	2675 Mar 08 23:17		
opposition	2668 Aug 25 23:39	3° <b>)</b> €34'54		max. Earth dist.	2675 Mar 09 16:06		30.95806 AU
min. Earth dist.	2668 Aug 25 11:19		29.01326 AU	morning rise	2675 Mar 24 12:10	18° <b>)</b> (36′08	
direct	2668 Nov 13 00:33	2° <b>)</b> (11'40		retrograde	2675 Jun 23 02:07	20° <b>)</b> (34′21	
evening set	2669 Feb 07 21:38	4° <b>)</b> €05'02		opposition	2675 Sep 11 20:06	19° <b>)</b> €09'50	
				min. Earth dist.	2675 Sep 11 03:54	19° <b>H</b> 10'57	28.95286 AU

Computation	evening set	2689 Mar 24 03:21	18° <b>Ƴ</b> 45'15		max. Earth dist.	2695 Apr 23 21:06	2° <b>8</b> 51'28	30.81085 AU
minimation on minimation minimat	Č				morning rise	•	3° <b>8</b> 24'58	
max Farth disd         2889 Apr 24 125         679 5002 14         679 5002 15 <td>conjunction</td> <td>2689 Apr 08 18:23</td> <td>19°<b>Ƴ</b>20'28 -1°2</td> <td>25'42</td> <td>-</td> <td>2695 Aug 08 03:21</td> <td>5°<b>8</b>24'14</td> <td></td>	conjunction	2689 Apr 08 18:23	19° <b>Ƴ</b> 20'28 -1°2	25'42	-	2695 Aug 08 03:21	5° <b>8</b> 24'14	
moning the companies   2898 Apr 24   1244   97*5002   10*75002	minimum elong	2689 Apr 08 18:23	19° <b>Y</b> 20′28 1°2	25'42	opposition	2695 Oct 27 11:09	3° <b>8</b> 58'48	-1°42'00
Mathematical   Math	max. Earth dist.	2689 Apr 09 16:27	19° <b>Y</b> 22'34 30.8	84252 AU	min. Earth dist.	2695 Oct 26 13:27	4° <b>8</b> 00'20	28.81142 AU
min. End dad.         2089 Cut 1 2012         2079 3125         28.8394 AU         commission         2096 Agr 2 4 10:10         5°C9181         1°1953           direct         2680 Dec 30 0333         2079 526 - 12:24         minimum clong         2006 Agr 2 10:00         5°C90/18         1°1953           conjamerton         2000 Agr 2 10:04         21°79516 - 12:773         minimum clong         2006 Agr 2 0:06         7°C90/04         7°C90/04           conjamerton         2000 Agr 1 10:04         21°79516 - 12:773         minimum clong         2006 Agr 2 0:06         7°C90/04         7°C90/04           conjamerton         2000 Agr 2 10:03         22°710/15         12°T910         minimum clong         2006 Agr 2 0:03         8°C91378         12°1100           corregated         2000 Agr 2 0:13         22°710/15         24°71001         minimum clong         2007 Agr 10:04         8°C91378         12°1100           corregated         2000 Agr 13:14         23°79000         129018         countries         2007 Agr 10:04         8°C91379         12°1378         12°1379           corregated         2001 Agr 13:14         23°79000         12°918         countries         2007 Agr 12:03         7°C91373         12°C97274         12°C130         7°C91373         12°C97374         12°C130	morning rise	2689 Apr 24 12:44			direct	2696 Jan 13 00:51	2° <b>8</b> 35'28	
opposition         268 CPU 13 0839         2007/2098   1973/04         conjunction         2609 Apr 24 10 10         6750/18 1 57855         173552         173552         173552         173553         1735	retrograde	2689 Jul 24 21:55	21° <b>Ƴ</b> 55'14		evening set	2696 Apr 08 16:14	4° <b>8</b> 28'53	
Serving set   2690 Aug   26   150   269   279   279   21   101   269   274   21   101   279   274	min. Earth dist.	2689 Oct 12 11:20	20° <b>Ƴ</b> 31'25 28.8	83940 AU				
evening set         2000 Mar 2 in 25.02         21°W0011         max. Earth dist.         2696 May 10 072 in 25.093.0         9500031         0.801041 AU           conjunction         2600 Apr 1 in 64.4         21°W3576 in 27°75         returgated         2696 Aug 10 07 18.0         673172	opposition	2689 Oct 13 08:39	20° <b>Y</b> 29'56 -1°3	32'41	conjunction	2696 Apr 24 10:11	5° <b>8</b> 04'18	-1°35'52
Compaction   Com	direct	2689 Dec 30 03:33	19° <b>Ƴ</b> 06'42		minimum elong	2696 Apr 24 10:10	5° <b>8</b> 04'18	1°35'53
	evening set	2690 Mar 26 15:26	21° <b>Y</b> 00′01		max. Earth dist.	2696 Apr 25 09:30	5° <b>8</b> 06'31	30.81014 AU
minimal edug   2004 Agr   1 0644   21°P3'516   12°P3'55   composition   2006 Agr   2 23:24   0°B1'88   1'4'901   morning rise   2000 Agr   27 01:38   22°P1'051   dricer   2607 Agr   1 0'4'2   0°B4'106   1'4'5'077   1'4'1072   1'					•	2696 May 10 07:35	_	
max Earth dist   2000 Apr   12 04:16   21**075*18   303460 AU   min Earth dist   2000 Cat   28 09:34   6**04153   22**07444   19*345   0 min Earth dist   2007 Apr   11 04:12   6**04*106   19*345   0 min Earth dist   2007 Apr   21 04:12   22**04744   19*345   0 min Earth dist   2007 Apr   22 23**05   7**01933   19*465   19*405   0 min Earth dist   2007 Apr   26 23:05   7**01933   19*405   19*405   0 min Earth dist   2007 Apr   26 23:05   7**01933   19*405   19*405   0 min Earth dist   2007 Apr   26 23:05   7**01933   19*405   19*405   0 min Earth dist   2007 Apr   26 23:05   7**01933   19*405   19*405   0 min Earth dist   2007 Apr   26 23:05   7**01933   19*405   19*405   0 min Earth dist   2007 Apr   26 23:05   7**01933   19*405   19*405   0 min Earth dist   2007 Apr   26 23:05   7**01933   19*405   19*405   0 min Earth dist   2007 Apr   26 23:05   7**01933   19*405   19*405   0 min Earth dist   2007 Apr   20 40:05   0 min Earth dist   2009 Apr   20 40:05   0 min Earth dist   2009 Apr   20 40:05   0 min Earth dist   2009 Apr   20 40:05   0 min	conjunction	*			-	2696 Aug 09 18:04	_	
morning rise   2690 Apr 27 0138   22°0°1051   retrograde   2690 Apr 11 157 24°127   retrograde   2690 Apr 15 1157 24°10703   retrograde   2690 Apr 15 0145 2112   22°0°4442 -1°34736   retrograde   2691 Apr 15 1151 21°12725   retrograde   2697 Apr 26 23.04   7°45193 -1°3615   retrograde   2691 Apr 15 1151 21°12725   retrograde   2697 Apr 27 2234   7°45193 -1°3615   retrograde   2697 Apr 18 19.14   23°0°5000 -1°2918   retrograde   2697 Apr 18 19.14   23°0°5000 -1°2918   retrograde   2697 Apr 18 19.14   23°0°5000 -1°2918   retrograde   2697 Apr 18 19.14   23°0°5000 -1°2917   retrograde   2691 Apr 18 17.54   23°0°5000 -1°2917   retrograde   2691 Apr 18 17.54   retrograde   2691 Apr 18 17.52   retrograde   2691 Apr 18 17.52   retrograde   2691 Apr 18 17.54   retrograde   2691 Apr 18 17.52   retrograde   2692 Apr 18 17.22   retrograd	· ·				**		_	
Proposition   2690 Onl   27 11.57   24°P(10'03 opposition on   2690 Cert   15 0246   22°P(40'12   28'83180 AU   20'14   21'82'125   21'8				83460 AU			_	28.81115 AU
Sepontroom	•	•					_	
nine Earth dist         269 OR ct 15 00.46         2°P°4072         2.83180 AU         conjunction         2697 Apr 2 6 23.04         7°B1933         13-1454           corening set         2691 Mar 20 03:22         23°P°12144         max. Farth dist.         2697 Apr 2 7 22:34         7°B1933         12-3454           conjunction         2691 Apr 13 19:14         23°P°5000         1°2918         retorgate         2697 Aby 12 00:56         7°B5320           minimum clong         2691 Apr 11 19:14         23°P°5000         1°2918         retorgate         2697 Aby 12 00:56         7°B5320           minimum clong         2691 Apr 19 17:54         23°P°5009         3823713 AU         minimum clong         2697 Aby 12 00:53         9°B3439         1°84393           morning rise         2691 Apr 29 14:24         24°P°2537         crening set         2698 Apr 10 00:25         26°P0345         crening set         2698 Apr 10 17:26         8°B5929           opposition         2692 Apr 16 07:28         25°P°0056         28.82496 AU         conjunction         2698 Apr 29 12:21         9°B3457         1°3729         1°3729         2°87360         1°29726         minimum clong         2698 Apr 29 12:21         9°B3457         1°3729         1°3729         1°3729         2°873600         1°29729         1°3729	•				evening set	2697 Apr 11 04:42	6° <b>8</b> 44'06	
Property								
Second   Percent   Perce				83180 AU	•		.T.	
Conjunction   2691 Apr 13 19:14   23°\\$5000   12918   retrograde   2697 Aug 12 06:30   9*\\$53'39   8*\\$2917   1-\\$43'53   max. Earth dist.   2691 Apr 13 19:14   23°\\$5000   129'17   opposition   2691 Oct 31 11:47   8*\\$2917   1-\\$43'53   max. Earth dist.   2691 Apr 14 17:54   23°\\$52'09   308.2731 AU   min. Earth dist.   2697 Oct 30 11:42   8*\\$2917   1-\\$43'53   retrograde   2691 Aug 10 00:25   26°\\$72'500   8*\\$297   260'507   268'\\$49'72'50   268'\\$49'72'5					C		_	
Conjunction   Gol Apr 13 19:14   23°°Y5000   12°918   retrograde   2697 Aug 12 6630   9°C\$4739   rank   r	evening set	2691 Mar 29 03:22	23°° <b>y</b> ′14'44			•	_	30.81006 AU
minimum elong			00		-	•	_	
max. Earth dist.         2691 Apr 14 17:54         23°YS209 30.82731 AU         min. Earth dist.         2697 Oct 30 14:29         8°B3046 28.81123 AU           morning rise         2691 Apr 29 14:24         24°Y2537         direct         2698 Apr 18 17:26         8°B50729           cettograde         2691 Oct 18 09:38         24°Y5976 - 1°3623         evening set         2698 Apr 19 12:21         8°B50729           direct         2692 Jan 04 04:13         23°Y0507         minimum elong         2698 Apr 29 12:21         9°B3457 1°3729           cevening set         2692 Jan 19 01:22         25°Y02976         minimum elong         2698 Apr 29 12:21         9°B3457 1°3729           cevining set         2692 Apr 15 07:28         26°Y0244 1°3054         retrograde         2698 Apr 29 12:21         9°B3457 1°3729           conjunction         2692 Apr 15 07:28         26°Y0644 1°3054         retrograde         2698 Nay 15 10:12         12°240 1°372           minimum elong         2692 Apr 15 07:28         26°Y0649 30.82103 AU         minimit Earth dist.         2699 Apr 16 07:28         26°Y0649 30.82103 AU         minimit Earth dist.         2698 Nay 15 10:19         12°24 1°4375           minimum elong         2692 May 10 03:13         21°417 1°305         28°Y1937         1°3801         1°117 1°417         1°305 1°417         1°417 1°417	·	*			•	Č		1040150
moming rise retrograde         2691 Apr 29 14.24         24°P2537         direct         2698 Apr 13 17.26         7°B0537         retrograde verning set         2698 Apr 13 17.26         8°ES929         retrograde verning set         2691 Oct 18 09.38         24°P5926 -1°36′23         retrograde         2691 Oct 17 12.09         25°P′00°56 28.82496 AU         conjunction         2698 Apr 29 12.21         9°B34′57 1°37′29         1°37′29           evening set         2692 Mar 30 15.22         25°P2926         minimum elong         2698 Apr 30 11.50         9°B34′57 1°37′29         0°83/15 10.34         10°C4         1°37′29         0°893 May 15 10.34         10°C4         1°37′29         0°893 May 15 10.34         10°C4         1°47′55°         0°87′00′44         1°30′54         retrograde         2698 Apr 30 11.50         9°B371°0         0°810°1 AU         1°47′55°         0°87′00′44         1°30′54         retrograde         2698 Nay 12 1311         1°24′10′55°         1°44′55         1°4		*					T.	
Periograde   2691 Jul   30 00.25   26*P°2.45°   276 2   276		•		82/31 AU			_	28.81123 AU
opposition         2691 Oct 18 09:38         24°P(59:26 - 1°36'23)         conjunction         2698 Apr 29 12:21         9°B'34'57 1°37'29           direct         2692 Mar 30 15:22         25°P(09:56 28 82496 AU         conjunction         2698 Apr 29 12:21         9°B'34'57 1°37'29           evening set         2692 Mar 30 15:22         25°P(29:26 cm)         max. Earth dist.         2698 Apr 30 11:50         9°B'34'57 1°37'29           conjunction         2692 Apr 15 07:28         26°P(0444 1°30'54)         retrograde         2698 Aug 15 10:41         12°B'10'05           minimum elong         2692 Apr 16 05:27         26°P(0444 1°30'54)         opposition         2698 Nov 02 23:50         10°B'44'44 1°4'45'5           max. Earth dist.         2692 Apr 16 05:27         26°P(06'49) 30 82103 AU         min. Earth dist.         2698 Nov 02 23:50         10°B'44'44 1°4'45'5           morning rise         2692 Apr 16 05:27         26°P(04'02)         direct         2699 Apr 16 06:24         11°B'14'85           poposition         2692 Apr 16 05:27         25°P(19'14'10 1°13'80'1         minimum elong         2699 Apr 16 06:24         11°B'14'85           poposition         2693 Apr 10 00:53         27°P(1410 1°13'80'1         minimum elong         2699 Apr 00 03:34         11°B'50'29 1°3'80'3           evening set         2693 Apr 10 20:53         <	•						_	
min. Earth dist.         2691 Oct 17 12:09         25°P0056 28.82496 AU         conjunction         2698 Apr 29 12:21         9°B3457 1°3729           evening set conjunction         2692 Am 3 0 15:22         25°P0296         max. Earth dist.         2698 Apr 30 11:50         9°B3470 08:104 AU           conjunction         2692 Apr 15 07:28         26°P0444 1°30'54         retrograde         2698 Awg 15 10:34         10°B410'6           minimum clong         2692 Apr 16 07:28         26°P0644 1°30'54         opposition         2698 Nov 02 21:50         10°B44616 28.81111 AU           morning rise         2692 Apr 16 05:27         26°P0649 30 82103 AU         min. Earth dist.         2699 Apr 19 1:04         9°B2112 1         2°B411 AU         244345         11°B444 1°44'35         10°B4444 1°44'35         10°B444'4 1°44'35         10°B44'44         10°B44'44         10°B44'44         10°B44'44         10°B44'44         10°B44'44         10°B44'44         10°B44'44 <td>•</td> <td></td> <td></td> <td>26122</td> <td>evening set</td> <td>2698 Apr 13 17:26</td> <td>8°039'29</td> <td></td>	•			26122	evening set	2698 Apr 13 17:26	8°039'29	
Minimum clong   2692 Jan 04 04:13   23°°Y3607   minimum clong   2698 Apr 29 12:21   9°83457   1°3729   evening set   2692 Mar 30 15:22   25°°Y2926   max. Earth dist.   2698 Apr 30 11:50   9°83710   308.1016 Al morning rise   2698 Apr 15 07:28   26°°Y0444   1°30'54   retrograde   2698 Nov 02 23:50   10°84444   1°44'35   minimum clong   2692 Apr 15 07:28   26°°Y06'49   3082103 AU   min. Earth dist.   2692 Apr 16 05:27   26°°Y06'49   3082103 AU   min. Earth dist.   2698 Nov 02 23:50   10°84444   1°44'35   morning rise   2699 Jan 19 11:04   9°821'23   1°81'14   1°81'45   1°81'45   1°81'45						2600 4 20 12-21	00 4157	1927/20
conjunction         2692 Mar 30 15:22         25°°V2926         max. Earth dist. morning rise morning rise morning rise 2698 May 15 10:34 10°M10°M2         9°M3710 30.81016 AU morning rise 2698 May 15 10:34 10°M10°M2         30°M10°M2         30°M10°M2         26°°V04'44 -1°30'54 10°M20°M2         retrograde 2698 Nov 02 23:50 10°M24'44 -1°44'35 10°M20°M2         10°M20'M24'4 -1°44'35 10°M20°M2         10°M20'M22 23:50 10°M24'44 -1°44'35 10°M20'M20'M20'M20'M20'M20'M20'M20'M20'M20'				82490 AU	3	•		
conjunction         2692 Apr 15 07:28         26°P0'444 - 1°30'54         retrograde         2698 Aug 14 21:12         10°B10'45           minimum clong         2692 Apr 15 07:28         26°P0'0444 1°30'54         opposition         2698 Nov 02 21:50         10°B4444 1°4'34'5           max. Earth dist.         2692 Apr 16 05:27         26°P0'0449 30.8210'3 AU         min. Earth dist.         2698 Nov 02 01:59         10°B4616         28.81111 AU           morning rise         2692 Abr 10 05:27         26°P0'0439         30.8210'3 AU         min. Earth dist.         2698 Nov 02 01:59         10°B46'16         28.81111 AU           crictograde         2692 Oct 19 20:13         14°17         28°P0'393         Cevening set         2699 Apr 16 06:24         11°B40'5           direct         2693 Jan 05 15:13         25°P0'50'50         min. Earth dist.         2699 May 02 01:38         11°B50'29         1°38'04           direct         2693 Jan 05 15:13         25°P0'50'50         min. Earth dist.         2699 May 02 01:38         11°B50'29         1°38'04           direct         2693 Jan 05 3 Jan 05 32         25°P0'90'80         min. Earth dist.         2699 May 02 01:38         11°B50'29         1°38'04           conjunction         2693 Apr 17 20:05         28°P0'1929         1°32'21         opposition         2699 Nay 02 00:					Č	-	_	
conjunction         2692 Apr 15 07:28         26°V0444 1°30′54         retrograde         2698 Aug 14 21:12         12°B 100°5         10°B 44°44 1°4°45′5         10°B 44°44 1°4°43′5         10°B 44°44 1°4°43′5         10°B 44°44 1°4°43′5         11°B 14°45′8         10°B 44°44 1°4°43′5         10°B 44°14 1°4°43′5	evening set	2092 Mai 30 13.22	23 1 29 20			•	_	30.81010 AU
minimum elong	conjunction	2602 Apr 15 07:28	26° <b>℃</b> 04'44 1°3	30'54	•	•	_	
max. Earth dist.         2692 Apr 16 05:27 brill of 05:27 brill	•	*			•	•	_	1011/25
morning rise         2692 May 01 03:13         26°V40'23         direct         2699 Jan 19 11:04         9°V21'23         retrograde         2692 Jul 31 14:17         28°N'93'37         evening set         2699 Apr 16 06:24         11°B'45'8         11°B'45'8           opposition         2692 Oct 19 20:11         27°V1'15'39 28.81947 AU         conjunction         2699 May 02 01:38         11°B'50'29 -1°38'04           direct         2693 Apr 02 03:24         27°V4'09         minimum elong         2699 May 02 01:38         11°B'50'29 -1°38'04           cvening set         2693 Apr 02 03:24         27°V4'09         minimum elong         2699 May 02 01:38         11°B'50'29 -1°38'04           conjunction         2693 Apr 17 20:05         28°V1'929 -1°32'21         opposition         2699 May 18 00:22         12°B'261'9           conjunction         2693 Apr 17 20:05         28°V1'929 -1°32'21         opposition         2699 Nov 04 15:45         13°B'00'16 -1°45'07           max. Earth dist.         2693 Apr 18 19:32         28°V2'15'09         direct         2700 Jan 21 22:23         11°B'50'36           morning rise         2693 Apr 18 19:32         28°V2'55'09         direct         2700 Jan 21 22:23         11°B'65'4           retrograde         2693 Aug 03 10:43         0°E'8'12'3         0°E'8'12'3         minimum elong	· ·	-			**		_	
retrograde		-		02103 AC				20.01111 AC
opposition         2692 Oct 19 22:11         27°°γ14'10 -1°38'01         conjunction         2699 May 02 01:38         11°850'29 -1°38'04           min. Earth dist.         2693 Jan 05 15:13         25°°γ°05'05         minimum clong         2699 May 02 01:38         11°850'29 -1°38'03           evening set         2693 Apr 02 03:24         27°°γ°44'09         max. Earth dist.         2699 May 18 00:22         12°826'19           conjunction         2693 Apr 17 20:05         28°°γ19'29 -1°32'21         retrograde         2699 May 18 00:22         12°826'19           max. Earth dist.         2693 Apr 18 19:32         28°°γ19'29 -1°32'21         retrograde         2699 Nov 04 15:45         13°800'16 -1°45'07           max. Earth dist.         2693 Apr 18 19:32         28°°γ19'29 -1°32'21         opposition         2699 Nov 04 15:45         13°80'142         28.81026 AU           morning rise         2693 May 03 16:06         28°°γ19'29 -1°32'21         opposition         2699 Nov 04 15:45         13°80'142         28.81026 AU           retrograde         2693 Aug 13 10:43         0°854'24         cevening set         2700 May 04 15:00         14°8'06'02 -1°38'30           opposition         2693 Oct 23 11:249         29°°70'30'8         28.81535 AU         max. Earth dist.         2700 May 04 15:00         14°8'06'02 -1°38'30           d	•	•						
min. Earth dist.         2692 Oct 19 00:53         27°Υ1539         28.81947 AU         conjunction         2699 May 02 01:38         11°B5029         1°3803           evening set         2693 Apr 02 03:24         23°Y5050         max. Earth dist.         2699 May 18 00:22         12°B2619           conjunction         2693 Apr 17 20:05         28°Y1929         1°3221         retrograde         2699 Aug 17 10:55         14°B2573           minimum elong         2693 Apr 18 20:05         28°Y1929         1°3221         opposition         2699 Nay 18 00:22         12°B2619           max. Earth dist.         2693 Apr 18 19:32         28°Y1929         1°3221         opposition         2699 Nov 05 12:12         13°B0016         1°4507           max. Earth dist.         2693 Apr 18 19:32         28°Y5509         direct         2700 Apr 18 19:08         13°B0142         28.81026 AU           retrograde         2693 Aug 03 02:43         0°B424         2693 Oct 23 10:03         29°Y2857         1°3930         minimum elong         2700 Apr 18 19:08         13°B3030           opposition         2693 Oct 23 10:30         30°RY         conjunction         2700 May 04 15:00         14°B6602         1°38'30           direct         2693 Oct 21 12:49         29°Y30'28         28.81535 AU         max. Earth dist. </td <td>•</td> <td></td> <td></td> <td>38'01</td> <td>evening see</td> <td>2033 11p1 10 00.2 .</td> <td>11 011.00</td> <td></td>	•			38'01	evening see	2033 11p1 10 00.2 .	11 011.00	
direct   2693 Jan   05   15:13   25°°Y50750   minimum elong   2699 May   02   01:38   11°\\$5029   1°38'03   2°80'19   2°19'1	1.1				conjunction	2699 May 02 01:38	11° <b>8</b> 50'29	-1°38'04
Pevening set   2693 Apr 02 03:24   27°°V44'09   max. Earth dist.   2699 May 03 00:03   11°852'36   30.80964 AU   21°82'61'   morning rise   2699 May 18 00:22   12°82'61'   morning rise   2699 May 18 00:22   12°82'61'   morning rise   2699 Apr 17 20:05   28°°V19'29   1°32'21   poposition   2699 Nov 05 12:12   13°8001'6 -1°45'07   max. Earth dist.   2693 Apr 18 19:32   28°°V21'43   30.81617 AU   min. Earth dist.   2699 Nov 04 15:45   13°8001'6 -1°45'07   max. Earth dist.   2693 May 03 16:06   28°°Y5'50'   direct   2700 Jan 21 22:23   11°83'65'   40°80'					3	•		
Moning rise   Conjunction	evening set				-			
conjunction         2693 Apr 17 20:05         28°Y19'29 -1°32'21         retrograde         2699 Aug 17 10:55         14°B25'37           minimum elong         2693 Apr 17 20:05         28°Y19'29 1°32'21         opposition         2699 Nov 05 12:12         13°B00'16 -1°45'07           max. Earth dist.         2693 Apr 18 19:32         28°Y19'29 30.81617 AU         min. Earth dist.         2699 Nov 04 15:45         13°B01'42         28.81026 AU           morning rise         2693 May 03 16:06         28°Y19'29 40         direct         2700 Jan 21 22:23         11°B36'54         22.881026 AU           retrograde         2693 May 03 16:06         28°Y19'29 40         cerning set         2700 Jan 21 22:23         11°B36'54         22.881026 AU           retrograde         2693 May 03 16:06         23°24         0°B         conjunction         2700 Jan 21 22:23         11°B36'54         22.881026 AU           retrograde         2693 Aug 03 00:43         0°B36'24'24         conjunction         2700 May 04 15:00         14°B06'02 -1°38'30           opposition         2693 Oct 22 10:30         29°Y28'57 -1°39'30         minimum elong         2700 May 04 15:00         14°B06'02 -1°38'30           direct         2694 Apr 08 03:11         28°Y0'5'35         morning rise         2700 May 04 15:00         14°B06'02 -1°38'30	8	r					_	
minimum elong	conjunction	2693 Apr 17 20:05	28° <b>Y</b> 19'29 -1°3	32'21	•	•	14° <b>8</b> 25'37	
max. Earth dist.         2693 Apr 18 19:32         28°Y21'43         30.81617 AU         min. Earth dist.         2699 Nov 04 15:45         13°801'42         28.81026 AU           morning rise         2693 May 03 16:06         28°Y55'09         direct         2700 Jan 21 22:23         11°836'54           retrograde         2693 Aug 03 02:43         0°85'242         2700 Apr 18 19:08         13°830'30           retrograde         2693 Oct 23 11:29         30°8'Y         conjunction         2700 May 04 15:00         14°806'02         -1°38'30           opposition         2693 Oct 21 12:49         29°Y28'57 -1°39'30         minimum elong         2700 May 04 15:00         14°806'02         -1°38'30           direct         2694 Jan 08 03:14         28°Y05'36         max. Earth dist.         2700 May 04 15:00         14°806'02         1°38'30           evening set         2694 Apr 04 15:37         29°Y5'85'7         morning rise         2700 May 04 15:00         14°808'11         30.80835 AU           conjunction         2694 Apr 04 15:37         29°Y5'85'7         retrograde         2700 May 20 14:02         14°8'841'54           evening set         2694 Apr 20 08:39         0°8'34'18 -1°33'40         opposition         2700 Nov 07 03:34         15°8'B17'15         28.80845 AU           minimum elong		•	28° <b>Ƴ</b> 19'29 1°3	32'21	•			-1°45'07
retrograde         2693 Jun 04 23:24         0°B         evening set         2700 Apr 18 19:08         13°B30'30           retrograde         2693 Aug 03 02:43         0°B54'24         conjunction         2700 May 04 15:00         14°B06'02         -1°38'30           opposition         2693 Oct 22 10:30         29°Y28'57 -1°39'30         minimum elong         2700 May 04 15:00         14°B06'02         1°38'30           direct         2694 Jan 08 03:14         28°Y05'36         morning rise         2700 May 20 14:02         14°B4'154           evening set         2694 Apr 04 15:37         29°Y58'57         retrograde         2700 May 28 22:22         15°B4'154           conjunction         2694 Apr 04 15:37         29°Y58'57         retrograde         2700 May 28 22:22         15°B4'154           conjunction         2694 Apr 04 15:37         29°Y58'57         retrograde         2700 May 28 22:22         15°B4'154           conjunction         2694 Apr 05 03:05         0°B4         retrograde         2700 May 28 22:22         15°B4'154           conjunction         2694 Apr 20 08:39         0°B34'18 1°33'40         opposition         2700 Nov 08 00:25         15°B1'548 1°45'30           max. Earth dist.         2694 Apr 20 08:39         0°B34'18 1°33'41         1°33'41         2700 Nov 17 10:44 <t< td=""><td>max. Earth dist.</td><td>-</td><td>28°<b>Y</b>21'43 30.8</td><td>81617 AU</td><td>min. Earth dist.</td><td>2699 Nov 04 15:45</td><td>13°<b>8</b>01'42</td><td>28.81026 AU</td></t<>	max. Earth dist.	-	28° <b>Y</b> 21'43 30.8	81617 AU	min. Earth dist.	2699 Nov 04 15:45	13° <b>8</b> 01'42	28.81026 AU
retrograde         2693 Jun 04 23:24 2693 Aug 03 02:43 0°854'24         evening set         2700 Apr 18 19:08 13°83'03'03'03'03'03'03'03'03'03'03'03'03'03	morning rise	2693 May 03 16:06	28° <b>Ƴ</b> 55'09		direct	2700 Jan 21 22:23	11° <b>8</b> 36'54	
2693 Oct 03 11:29   30°R°Y   conjunction   2700 May 04 15:00   14°B06′02 -1°38′30		2693 Jun 04 23:24	0°B		evening set	2700 Apr 18 19:08	13° <b>8</b> 30'30	
opposition         2693 Oct 22 10:30         29°Y28'57 -1°39'30         minimum elong         2700 May 04 15:00         14°806'02         1°38'30           min. Earth dist.         2693 Oct 21 12:49         29°Y30'28 28.81535 AU         max. Earth dist.         2700 May 05 13:47         14°808'11 30.80835 AU           direct         2694 Jan 08 03:14         28°Y05'36         morning rise         2700 May 20 14:02         14°841'54           evening set         2694 Apr 04 15:37         29°Y58'57         2700 May 28 22:22         15°8           2694 Apr 05 03:05         0°8         retrograde         2700 Nov 07 03:34         15°817'15 28.80845 AU           conjunction         2694 Apr 20 08:39         0°834'18 1°33'41         opposition         2700 Nov 08 00:25 15°815'48 1°45'30           max. Earth dist.         2694 Apr 21 07:23         0°836'27 30.81286 AU         direct         2701 Jan 24 11:47         13°852'23           morning rise         2694 May 06 05:16         1°810'01         2701 Mar 30 04:13         15°84           retrograde         2694 Apr 21 07:23         0°836'27 30.81286 AU         direct         2701 Jan 24 11:47         13°852'23           morning rise         2694 May 06 05:16         1°810'01         evening set         2701 May 07 04:24         16°821'33 -1°38'47           retrograde	retrograde	2693 Aug 03 02:43	0° <b>8</b> 54'24					
min. Earth dist. 2693 Oct 21 12:49 29°Y30'28 28.81535 AU max. Earth dist. 2700 May 05 13:47 14°808'11 30.80835 AU direct 2694 Jan 08 03:14 28°Y05'36 morning rise 2700 May 20 14:02 14°841'54 2694 Apr 05 03:05 0°8 retrograde 2700 Aug 20 00:42 16°841'09 min. Earth dist. 2700 Nov 07 03:34 15°817'15 28.80845 AU conjunction 2694 Apr 20 08:39 0°834'18 1°33'41 2700 Nov 17 10:44 15°R8 max. Earth dist. 2694 Apr 20 08:39 0°834'18 1°33'41 2700 Nov 17 10:44 15°R8 morning rise 2694 May 06 05:16 1°810'01 2700 Nov 17 10:44 15°R8 retrograde 2694 Aug 05 16:13 3°809'16 evening set 2694 Aug 05 16:13 3°809'16 evening set 2694 Oct 24 22:52 1°843'49 -1°40'49 min. Earth dist. 2695 Apr 07 03:52 2°813'51 max. Earth dist. 2695 Apr 07 03:52 2°813'51 max. Earth dist. 2695 Apr 22 21:23 2°849'14 -1°34'51 retrograde 2701 May 23 04:03 16°857'26 conjunction 2695 Apr 22 21:23 2°849'14 -1°34'51 retrograde 2701 May 23 04:03 16°857'26 conjunction 2695 Apr 22 21:23 2°849'14 -1°34'51 retrograde 2701 May 23 04:03 16°857'26 conjunction 2695 Apr 22 21:23 2°849'14 -1°34'51 retrograde 2701 May 23 04:03 18°85'37 18°85'37		2693 Oct 03 11:29	30° <b>₹Ƴ</b>		conjunction	2700 May 04 15:00		
direct       2694 Jan 08 03:14       28°Y05'36       morning rise       2700 May 20 14:02       14°841'54       41°84 l'54         evening set       2694 Apr 04 15:37       29°Y58'57       2700 May 28 22:22       15°8       15°8         2694 Apr 05 03:05       0°8       retrograde       2700 Nov 07 03:34       15°81'15       28.80845 AU         conjunction       2694 Apr 20 08:39       0°834'18 -1°33'40       opposition       2700 Nov 08 00:25       15°815'48 -1°45'30         minimum elong       2694 Apr 20 08:39       0°836'27 30.81286 AU       direct       2701 Jan 24 11:47       13°85'2'23         morning rise       2694 May 06 05:16       1°810'01       2701 Mar 30 04:13       15°84'5'9         retrograde       2694 Aug 05 16:13       3°80'9'16       evening set       2701 Apr 21 08:12       15°845'59         opposition       2694 Oct 24 22:52       1°843'49 -1°40'49       1°843'49 -1°40'49       16°821'33 -1°38'47         direct       2695 Jan 10 13:49       0°820'27       minimum elong       2701 May 07 04:24       16°821'33 -1°38'47         direct       2695 Apr 07 03:52       2°813'51       max. Earth dist.       2701 May 08 01:40       16°821'33 -1°38'47         evening set       2695 Apr 07 03:52       2°813'51       max. Earth dist.       2701 May	* *	2693 Oct 22 10:30			minimum elong	2700 May 04 15:00		
evening set 2694 Apr 04 15:37 29°Y58'57 2694 Apr 05 03:05 0°8 retrograde 2700 May 28 22:22 15°8 look 16°841'09 min. Earth dist. 2700 Nov 07 03:34 15°817'15 28.80845 AU conjunction 2694 Apr 20 08:39 0°834'18 1°33'41 2700 Nov 08 00:25 15°815'48 -1°45'30 minimum elong 2694 Apr 20 08:39 0°834'18 1°33'41 2700 Nov 17 10:44 15°88 max. Earth dist. 2694 Apr 21 07:23 0°836'27 30.81286 AU direct 2701 Jan 24 11:47 13°852'23 morning rise 2694 May 06 05:16 1°810'01 2701 Mar 30 04:13 15°84 retrograde 2694 Aug 05 16:13 3°809'16 evening set 2694 Oct 24 22:52 1°843'49 -1°40'49 min. Earth dist. 2694 Oct 24 00:48 1°845'22 28.81280 AU conjunction 2701 May 07 04:24 16°821'33 1°38'47 direct 2695 Jan 10 13:49 0°820'27 minimum elong 2701 May 07 04:24 16°821'33 1°38'46 evening set 2695 Apr 07 03:52 2°813'51 max. Earth dist. 2701 May 08 01:40 16°823'33 30.80620 AU morning rise 2695 Apr 22 21:23 2°849'14 -1°34'51 retrograde 2701 Aug 22 15:32 18°85'637	min. Earth dist.	2693 Oct 21 12:49	29° <b>Ƴ</b> 30′28 28.8	81535 AU	max. Earth dist.	2700 May 05 13:47		30.80835 AU
retrograde min. Earth dist. 2694 Apr 20 08:39 0°\begin{array}{c c c c c c c c c c c c c c c c c c c	direct	2694 Jan 08 03:14			morning rise	2700 May 20 14:02		
min. Earth dist. 2700 Nov 07 03:34 15°817'15 28.80845 AU opposition 2694 Apr 20 08:39 0°834'18 1°33'41 2700 Nov 17 10:44 15°R8 15°82'23 morning rise 2694 Apr 20 08:39 0°836'27 30.81286 AU direct 2701 Jan 24 11:47 13°852'23 retrograde 2694 Aug 05 16:13 3°809'16 evening set 2694 Oct 24 22:52 1°843'49 -1°40'49 min. Earth dist. 2694 Oct 24 00:48 1°845'22 28.81280 AU conjunction 2695 Jan 10 13:49 0°820'27 minimum elong set 2695 Apr 07 03:52 2°813'51 max. Earth dist. 2695 Apr 22 21:23 2°849'14 -1°34'51 retrograde 2695 Apr 22 21:23 2°849'14 -1°34'51 retrograde 2701 Aug 22 15:32 18°856'37	evening set	2694 Apr 04 15:37				2700 May 28 22:22		
conjunction         2694 Apr 20 08:39 minimum elong         0°834'18 -1°33'40         opposition         2700 Nov 08 00:25 morning rise         15°815'48 -1°45'30           max. Earth dist.         2694 Apr 20 08:39 morning rise         0°836'27 30.81286 AU         direct         2701 Jan 24 11:47 direct         13°852'23 direct           morning rise         2694 May 06 05:16 morning rise         1°810'01 morning rise         2701 Mar 30 04:13 direct         15°84 morning rise           retrograde         2694 Aug 05 16:13 morning rise         3°809'16 morning rise         evening set         2701 Apr 21 08:12 direct         15°845'59 morning rise           opposition         2694 Oct 24 22:52 direct         1°843'49 -1°40'49 direct         revening set         2701 May 07 04:24 direct         16°821'33 -1°38'47 direct           direct         2695 Jan 10 13:49 direct         0°820'27 minimum elong morning rise         2701 May 07 04:24 direct         16°821'33 -1°38'47 direct           evening set         2695 Apr 07 03:52 direct         2°813'51 morning rise         2701 May 08 01:40 direct         16°823'33 direct           conjunction         2695 Apr 22 21:23 direct         2°849'14 -1°34'51 retrograde         2701 Aug 22 15:32 direct         18°856'37		2694 Apr 05 03:05	0°B		retrograde	2700 Aug 20 00:42	16° <b>8</b> 41'09	
minimum elong 2694 Apr 20 08:39 0°834'18 1°33'41 2700 Nov 17 10:44 15°R8 max. Earth dist. 2694 Apr 21 07:23 0°836'27 30.81286 AU direct 2701 Jan 24 11:47 13°852'23 morning rise 2694 May 06 05:16 1°810'01 2701 Mar 30 04:13 15°8 retrograde 2694 Aug 05 16:13 3°809'16 evening set 2701 Apr 21 08:12 15°845'59 opposition 2694 Oct 24 22:52 1°843'49 -1°40'49 min. Earth dist. 2694 Oct 24 00:48 1°845'22 28.81280 AU conjunction 2701 May 07 04:24 16°821'33 -1°38'47 direct 2695 Jan 10 13:49 0°820'27 minimum elong 2701 May 07 04:24 16°821'33 1°38'46 evening set 2695 Apr 07 03:52 2°813'51 max. Earth dist. 2701 May 08 01:40 16°823'33 30.80620 AU morning rise 2701 May 23 04:03 16°857'26 conjunction 2695 Apr 22 21:23 2°849'14 -1°34'51 retrograde 2701 Aug 22 15:32 18°856'37					min. Earth dist.			
max. Earth dist.       2694 Apr 21 07:23       0°836'27 30.81286 AU       direct       2701 Jan 24 11:47 2701 Jan 24 11:47 13°852'23         morning rise       2694 May 06 05:16 13 3°809'16 retrograde       2694 Aug 05 16:13 3°809'16 evening set       2701 Apr 21 08:12 15°845'59         opposition       2694 Oct 24 22:52 1°843'49 -1°40'49       1°845'22 28.81280 AU       conjunction       2701 May 07 04:24 16°821'33 -1°38'47         direct       2695 Jan 10 13:49 0°820'27 minimum elong       2701 May 07 04:24 16°821'33 1°38'46       16°821'33 1°38'46         evening set       2695 Apr 07 03:52 2°813'51 max. Earth dist.       2701 May 08 01:40 16°823'33 30.80620 AU         morning rise       2701 May 23 04:03 16°857'26         conjunction       2695 Apr 22 21:23 2°849'14 -1°34'51       retrograde       2701 Aug 22 15:32 18°856'37		•			opposition			-1°45'30
morning rise       2694 May 06 05:16       1°810'01       2701 Mar 30 04:13       15°8         retrograde       2694 Aug 05 16:13       3°809'16       evening set       2701 Apr 21 08:12       15°845'59         opposition       2694 Oct 24 22:52       1°843'49 -1°40'49       revening set       2701 May 07 04:24       16°821'33 -1°38'47         direct       2695 Jan 10 13:49       0°820'27       minimum elong       2701 May 07 04:24       16°821'33 1°38'46         evening set       2695 Apr 07 03:52       2°813'51       max. Earth dist.       2701 May 08 01:40       16°823'33 30.80620 AU         morning rise       2701 May 23 04:03       16°857'26         conjunction       2695 Apr 22 21:23       2°849'14 -1°34'51       retrograde       2701 Aug 22 15:32       18°856'37	•	_						
retrograde 2694 Aug 05 16:13 3°809'16 evening set 2701 Apr 21 08:12 15°845'59 opposition 2694 Oct 24 22:52 1°843'49 -1°40'49 min. Earth dist. 2694 Oct 24 00:48 1°845'22 28.81280 AU conjunction 2701 May 07 04:24 16°821'33 -1°38'47 direct 2695 Jan 10 13:49 0°820'27 minimum elong 2701 May 07 04:24 16°821'33 1°38'46 evening set 2695 Apr 07 03:52 2°813'51 max. Earth dist. 2701 May 08 01:40 16°823'33 30.80620 AU morning rise 2701 May 23 04:03 16°857'26 conjunction 2695 Apr 22 21:23 2°849'14 -1°34'51 retrograde 2701 Aug 22 15:32 18°856'37		-		81286 AU	direct			
opposition       2694 Oct 24 22:52       1°843'49 -1°40'49         min. Earth dist.       2694 Oct 24 00:48       1°845'22 28.81280 AU       conjunction       2701 May 07 04:24       16°821'33 -1°38'47         direct       2695 Jan 10 13:49       0°820'27       minimum elong       2701 May 07 04:24       16°821'33 1°38'46         evening set       2695 Apr 07 03:52       2°813'51       max. Earth dist.       2701 May 08 01:40 16°823'33 30.80620 AU         morning rise       2701 May 23 04:03 16°857'26         conjunction       2695 Apr 22 21:23 2°849'14 -1°34'51       retrograde       2701 Aug 22 15:32 18°856'37	•		_				_	
min. Earth dist. 2694 Oct 24 00:48 1°845'22 28.81280 AU conjunction 2701 May 07 04:24 16°821'33 -1°38'47 direct 2695 Jan 10 13:49 0°820'27 minimum elong 2701 May 07 04:24 16°821'33 1°38'46 evening set 2695 Apr 07 03:52 2°813'51 max. Earth dist. 2701 May 08 01:40 16°823'33 30.80620 AU morning rise 2701 May 23 04:03 16°857'26 conjunction 2695 Apr 22 21:23 2°849'14 -1°34'51 retrograde 2701 Aug 22 15:32 18°856'37	•	•	_		evening set	2701 Apr 21 08:12	15° <b>ठ</b> 45'59	
direct 2695 Jan 10 13:49 0°820'27 minimum elong 2701 May 07 04:24 16°821'33 1°38'46 evening set 2695 Apr 07 03:52 2°813'51 max. Earth dist. 2701 May 08 01:40 16°823'33 30.80620 AU morning rise 2701 May 23 04:03 16°857'26 conjunction 2695 Apr 22 21:23 2°849'14 -1°34'51 retrograde 2701 Aug 22 15:32 18°856'37	• •							
evening set 2695 Apr 07 03:52 2°813'51 max. Earth dist. 2701 May 08 01:40 16°823'33 30.80620 AU morning rise 2701 May 23 04:03 16°857'26 conjunction 2695 Apr 22 21:23 2°849'14 -1°34'51 retrograde 2701 Aug 22 15:32 18°856'37				81280 AU	·	•		
morning rise 2701 May 23 04:03 16°\begin{align*} 25726 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					-			
conjunction 2695 Apr 22 21:23 2°849'14 -1°34'51 retrograde 2701 Aug 22 15:32 18°856'37	evening set	2695 Apr 07 03:52	2° <b>8</b> 13'51					30.80620 AU
		2605 4 22 21 22	<b>2012 1011 1</b>	2.415.1				
minimum elong 2695 Apr 22 21:23 2*O49*14 1*54*50 opposition 2/01 Nov 10 12:32 17*O31*14 -1*45*43		-			•	-		1045142
	minimum elong	2093 Apr 22 21:23	2 <b>O</b> 49 14 1°3	34 JU	opposition	2701 NOV 10 12:32	1/-031/14	-1 45 45

· r d r d	2701 N 00 17 41	170 0 20127	20.00/07.411	. ,	2700 M 07 02 20	10П21147	
min. Earth dist.	2701 Nov 09 16:41		28.80607 AU	evening set	2708 May 07 03:29	1° <b>Ⅱ</b> 31'47	
direct	2702 Jan 26 23:49	16° <b>8</b> 07'45		aaniumatian	2709 May 22 02:04	20П07122	1926122
evening set	2702 Apr 23 21:09	18° <b>8</b> 01'21		conjunction	2708 May 23 03:04	2°∏07'32	
	2702 M 00 10-00	100 42 (157	1020155	minimum elong	2708 May 23 03:04	2°∏07'32	
conjunction	2702 May 09 18:00	18° <b>엉</b> 36'57 18° <b>엉</b> 36'57		max. Earth dist. morning rise	2708 May 23 23:05 2708 Jun 08 05:38	2 П0923 2°П43'34	30.80411 AU
minimum elong max. Earth dist.	2702 May 09 18:00 2702 May 10 16:01		30.80363 AU	retrograde	2708 Sep 07 08:32	2 Щ43 34 4°Щ42'14	
morning rise	2702 May 25 17:56	19° <b>8</b> 12'51	30.80303 AU	opposition	2708 Sep 07 08.32 2708 Nov 25 22:59	3° <b>П</b> 16'56	1942!45
•	2702 Nay 25 17:50 2702 Aug 25 03:59	21° <b>8</b> 11'57		min. Earth dist.	2708 Nov 25 22:39 2708 Nov 25 05:05		28.80718 AU
retrograde min. Earth dist.	2702 Aug 23 03:59 2702 Nov 12 04:52	_	28.80339 AU	direct	2709 Feb 11 08:49	1° <b>П</b> 53'10	20.00/10 AU
opposition	2702 Nov 12 04:32 2702 Nov 13 00:31	19° <b>8</b> 46'32		evening set	2709 May 09 16:45	3° <b>П</b> 47'00	
direct	2702 Nov 13 00.31 2703 Jan 29 13:10	18° <b>6</b> 22'59	-1 4347	evening set	2709 May 09 10.43	3 Д4/00	
	2703 Apr 26 10:10	20° <b>8</b> 16'35		conjunction	2709 May 25 16:58	4° <b>∏</b> 22'47	1025127
evening set	2703 Apr 20 10.10	20 010 33			•	4° <b>Π</b> 22'47	
conjunction	2703 May 12 07:21	20° <b>8</b> 52'12	1020151	minimum elong max. Earth dist.	2709 May 25 16:58 2709 May 26 13:22		30.80841 AU
minimum elong	2703 May 12 07:21 2703 May 12 07:21	20° <b>8</b> 52'12		morning rise	2709 Jun 10 19:49	4° <b>П</b> 58'50	30.80841 AU
max. Earth dist.	•		30.80113 AU	-		4 П3830 6°П57'27	
	2703 May 13 04:04		30.80113 AU	retrograde	2709 Sep 09 22:30	5° <b>П</b> 32'13	1041141
morning rise	2703 May 28 07:50	21° <b>8</b> 28'08		opposition	2709 Nov 28 10:24		
retrograde	2703 Aug 27 17:21	23° <b>8</b> 27'09	1045141	min. Earth dist.	2709 Nov 27 16:11		28.81167 AU
opposition	2703 Nov 15 12:24	22° <b>8</b> 01'42		direct	2710 Feb 13 21:39	4° <b>Ⅱ</b> 08'28	
min. Earth dist.	2703 Nov 14 16:54		28.80118 AU	evening set	2710 May 12 06:21	6° <b>Ⅱ</b> 02'23	
direct	2704 Feb 01 00:31	20° <b>8</b> 38'05					
evening set	2704 Apr 27 23:08	22° <b>8</b> 31'42		conjunction	2710 May 28 06:52	6° <b>Ⅱ</b> 38'11	
				minimum elong	2710 May 28 06:52	6° <b>Ⅱ</b> 38'11	1°34'34
conjunction	2704 May 13 20:52	23° <b>8</b> 07'20		max. Earth dist.	2710 May 29 01:38		30.81306 AU
minimum elong	2704 May 13 20:52	23° <b>8</b> 07'20		morning rise	2710 Jun 13 10:15	7° <b>Ⅱ</b> 14'16	
max. Earth dist.	2704 May 14 18:17	_	30.79923 AU	retrograde	2710 Sep 12 13:40	9° <b>Ⅱ</b> 12'49	
morning rise	2704 May 29 21:40	23° <b>8</b> 43'17		opposition	2710 Nov 30 22:02	7° <b>Ⅱ</b> 47'39	
retrograde	2704 Aug 29 04:39	25° <b>8</b> 42'13		min. Earth dist.	2710 Nov 30 05:01		28.81633 AU
min. Earth dist.	2704 Nov 16 05:22		28.79978 AU	direct	2711 Feb 16 09:31	6° <b>Ⅱ</b> 23'54	
opposition	2704 Nov 17 00:15	24° <b>8</b> 16'46	-1°45'25	evening set	2711 May 14 19:48	8° <b>Ⅱ</b> 17'53	
direct	2705 Feb 02 12:13	22° <b>8</b> 53'06					
evening set	2705 Apr 30 12:07	24° <b>8</b> 46'43		conjunction	2711 May 30 20:54	8° <b>∏</b> 53'44	
				minimum elong	2711 May 30 20:54	8° <b>Ⅱ</b> 53'44	1°33'19
conjunction	2705 May 16 10:19	25° <b>8</b> 22'23	-1°38'24	max. Earth dist.	2711 May 31 16:05	8° <b>Ⅱ</b> 55'32	30.81747 AU
minimum elong	2705 May 16 10:19	25° <b>8</b> 22'23	1°38'23	morning rise	2711 Jun 16 00:27	9° <b>Ⅱ</b> 29'50	
max. Earth dist.	2705 May 17 06:57	25° <b>8</b> 24'20	30.79850 AU	retrograde	2711 Sep 15 02:23	11° <b>Ⅱ</b> 28′18	
morning rise	2705 Jun 01 11:38	25° <b>8</b> 58'21		opposition	2711 Dec 03 09:33	10° <b>Ⅲ</b> 03′12	-1°39'05
retrograde	2705 Aug 31 18:52	27° <b>8</b> 57'12		min. Earth dist.	2711 Dec 02 17:03	10° <b>Ⅱ</b> 04'22	28.82034 AU
opposition	2705 Nov 19 11:58	26° <b>8</b> 31'46	-1°45'00	direct	2712 Feb 18 22:54	8° <b>Ⅱ</b> 39′26	
min. Earth dist.	2705 Nov 18 16:28	26° <b>8</b> 33'08	28.79965 AU	evening set	2712 May 16 09:31	10° <b>Ⅲ</b> 33′28	
direct	2706 Feb 04 23:06	25° <b>8</b> 08'03					
evening set	2706 May 03 01:16	27° <b>8</b> 01'42		conjunction	2712 Jun 01 10:57	11° <b>Ⅱ</b> 09′20	-1°31'58
				minimum elong	2712 Jun 01 10:57	11° <b>Ⅱ</b> 09′20	1°31'59
conjunction	2706 May 18 23:56	27° <b>8</b> 37'24	-1°37'56	max. Earth dist.	2712 Jun 02 04:10	11° <b>Ⅱ</b> 10′57	30.82117 AU
minimum elong	2706 May 18 23:56	27° <b>8</b> 37'24	1°37'56	morning rise	2712 Jun 17 15:02	11° <b>Ⅱ</b> 45′28	
max. Earth dist.	2706 May 19 20:37	27° <b>8</b> 39'20	30.79893 AU	retrograde	2712 Sep 16 16:38	13° <b>Ⅱ</b> 43'50	
morning rise	2706 Jun 04 01:37	28° <b>8</b> 13'23		opposition	2712 Dec 04 21:05	12° <b>Ⅱ</b> 18'46	-1°37'33
	2706 Aug 07 01:54	$\Pi^{\circ}0$		min. Earth dist.	2712 Dec 04 05:18	12° <b>Ⅲ</b> 19'53	28.82361 AU
retrograde	2706 Sep 03 05:55	0° <b>Ⅲ</b> 12′10		direct	2713 Feb 20 10:25	10° <b>Ⅱ</b> 54'58	
-	2706 Sep 30 18:56	30° <b>₹</b> 8		evening set	2713 May 18 23:07	12° <b>Ⅱ</b> 49′02	
opposition	2706 Nov 21 23:37	28° <b>8</b> 46'45	-1°44'25	•	•		
min. Earth dist.	2706 Nov 21 05:15	28° <b>8</b> 48'03	28.80081 AU	conjunction	2713 Jun 04 01:09	13° <b>Ⅲ</b> 24'56	-1°30'28
direct	2707 Feb 07 09:51	27° <b>8</b> 23'00		minimum elong	2713 Jun 04 01:09	13° <b>Ⅱ</b> 24'56	1°30'28
evening set	2707 May 05 14:22	29° <b>8</b> 16'43		max. Earth dist.	2713 Jun 04 18:25	13° <b>Ⅱ</b> 26′33	30.82393 AU
Ü	•			morning rise	2713 Jun 20 05:29	14° <b>Ⅱ</b> 01'04	
conjunction	2707 May 21 13:35	29° <b>8</b> 52'26	-1°37'19	retrograde	2713 Sep 19 04:56	15° <b>Ⅱ</b> 59'18	
minimum elong	2707 May 21 13:35	29° <b>8</b> 52'26	1°37'18	opposition	2713 Dec 07 08:32	14° <b>Ⅱ</b> 34'16	-1°35'52
max. Earth dist.	2707 May 22 10:15		30.80090 AU	min. Earth dist.	2713 Dec 06 18:00		28.82586 AU
	2707 May 24 22:04	0°II	-	direct	2714 Feb 22 22:57	13° <b>Ⅱ</b> 10′25	=-
morning rise	2707 Jun 06 15:38	0° <b>П</b> 28'26		evening set	2714 May 21 12:52	15° <b>Ⅱ</b> 04'30	
retrograde	2707 Sep 05 19:36	2° <b>I</b> I27'09		- B	·,		
opposition	2707 Nov 24 11:13	1° <b>Ⅱ</b> 01'47	-1°43'40	conjunction	2714 Jun 06 15:16	15° <b>∏</b> 40′25	-1°28'50
min. Earth dist.	2707 Nov 23 16:04		28.80339 AU	minimum elong	2714 Jun 06 15:16	15° <b>∏</b> 40'25	
	2708 Jan 04 11:03	30°R <b>8</b>		max. Earth dist.	2714 Jun 07 06:53		30.82599 AU
direct	2708 Feb 09 22:21	29° <b>8</b> 38'02		morning rise	2714 Jun 22 20:02	16° <b>Ⅱ</b> 16'34	
311001	2708 Pc0 09 22:21 2708 Mar 16 19:36	0° <b>Ⅱ</b>		retrograde	2714 Sep 21 18:45	18° <b>Ⅱ</b> 14'40	
	2,001,101 10 17.50	v <b></b>		. Ju o Brudo	2,11,50p 21 10.73		

opposition	2714 Dec 09 19:42	16° <b>Ⅱ</b> 49'38 -1°34'03	conjunction	2721 Jun 22 17:24	1° <b>5</b> 24'10 -1°13'51
min. Earth dist.	2714 Dec 09 05:11	16° <b>Ⅱ</b> 50'40 28.82767	J	2721 Jun 22 17:24	1°9524'10 1°13'51
direct	2715 Feb 25 10:34	15° <b>Ⅲ</b> 25'42	max. Earth dist.	2721 Jun 23 04:56	1°525'14 30.85703 AU
evening set	2715 May 24 02:32	17° <b>Ⅱ</b> 19'48	morning rise	2721 Jul 09 00:16	2°500'21
			retrograde	2721 Oct 07 08:15	3°957'26
conjunction	2715 Jun 09 05:23	17° <b>Ⅱ</b> 55'44 -1°27'04	opposition	2721 Dec 25 00:36	2°532'39 -1°17'34
minimum elong	2715 Jun 09 05:23	17° <b>Ⅱ</b> 55'44 1°27'04	min. Earth dist.	2721 Dec 24 13:53	2°533'24 28.86209 AU
max. Earth dist.	2715 Jun 09 20:40	17° <b>Ⅱ</b> 57'10 30.82770 .	AU direct	2722 Mar 12 21:10	1° <b>5</b> 08'20
morning rise	2715 Jun 25 10:25	18° <b>Ⅱ</b> 31'54	evening set	2722 Jun 09 01:57	3°502'40
retrograde	2715 Sep 24 04:44	20° <b>Ⅱ</b> 29'50			
opposition	2715 Dec 12 07:00	19° <b>Ⅱ</b> 04'49 -1°32'06	conjunction	2722 Jun 25 07:36	3° <b>5</b> 38'44 -1°11'14
min. Earth dist.	2715 Dec 11 17:59	19° <b>Ⅱ</b> 05'44 28.82944 .		2722 Jun 25 07:36	3°538'44 1°11'14
direct	2716 Feb 27 21:52	17° <b>Ⅱ</b> 40'48	max. Earth dist.	2722 Jun 25 19:28	3°539'50 30.86618 AU
evening set	2716 May 25 15:59	19° <b>Ⅱ</b> 34'54	morning rise	2722 Jul 11 14:29	4°9514'55
. ,.	2716 1 10 10 10	200T10151 1025111	retrograde	2722 Oct 09 20:39	6°5011'53
conjunction	2716 Jun 10 19:19	20° <b>I</b> 10'51 -1°25'11	opposition	2722 Dec 27 11:23	4°547'12 -1°14'42
minimum elong	2716 Jun 10 19:20	20° <b>I</b> 10'51 1°25'11	min. Earth dist.	2722 Dec 27 01:53	4°547'52 28.87139 AU
max. Earth dist.	2716 Jun 11 10:03	20°Ⅲ12'14 30.82981 . 20°Ⅲ47'01		2723 Mar 15 09:46	3°522'53
morning rise retrograde	2716 Jun 27 00:43 2716 Sep 25 17:21	20° <b>I</b> I47'01 22° <b>I</b> I44'48	evening set	2723 Jun 11 15:51	5°©17'18
opposition	2716 Sep 23 17.21 2716 Dec 13 18:03	21° <b>I</b> 19'47 -1°30'00	conjunction	2723 Jun 27 21:44	5°\$53'22 -1°08'30
min. Earth dist.	2716 Dec 13 16:03 2716 Dec 13 04:39	21° <b>II</b> 20'44 28.83177	v	2723 Jun 27 21:44	5°\$53'22 1°08'29
direct	2717 Mar 01 10:09	19° <b>I</b> I55'41	max. Earth dist.	2723 Jun 28 07:50	5°954'18 30.87568 AU
evening set	2717 May 28 05:43	21° <b>I</b> I49'48	morning rise	2723 Jul 14 04:56	6°\$29'34
e venning see	2717 11149 20 00.13	2. 2.7.0	retrograde	2723 Oct 12 10:27	8°\$26'24
conjunction	2717 Jun 13 09:23	22° <b>Ⅱ</b> 25'46 -1°23'09	opposition	2723 Dec 29 22:09	7°501'48 -1°11'43
minimum elong	2717 Jun 13 09:23	22° <b>II</b> 25'46 1°23'09	min. Earth dist.	2723 Dec 29 12:44	7°≌02'28 28.88076 AU
max. Earth dist.	2717 Jun 13 23:13	22° <b>II</b> 27'04 30.83253	AU direct	2724 Mar 16 21:33	5°937'30
morning rise	2717 Jun 29 15:08	23° <b>Ⅲ</b> 01′56	evening set	2724 Jun 13 05:41	7° <b>9</b> 31'58
retrograde	2717 Sep 28 04:48	24° <b>Ⅲ</b> 59'35			
opposition	2717 Dec 16 05:04	23° <b>Ⅱ</b> 34'34 -1°27'46	conjunction	2724 Jun 29 11:56	8°908'03 -1°05'40
min. Earth dist.	2717 Dec 15 17:09	23° <b>II</b> 35'25 28.83507	AU minimum elong	2724 Jun 29 11:56	8°908'03 1°05'40
direct	2718 Mar 03 20:03	22° <b>Ⅱ</b> 10′23	max. Earth dist.	2724 Jun 29 21:29	8°908'56 30.88471 AU
evening set	2718 May 30 19:19	24° <b>Ⅱ</b> 04'32	morning rise	2724 Jul 15 19:14	8° <b>5</b> 44'15
			retrograde	2724 Oct 13 21:25	10°9540'58
conjunction	2718 Jun 15 23:31	24° <b>Ⅱ</b> 40'31 -1°21'01	opposition	2724 Dec 31 09:04	9°516'27 -1°08'38
minimum elong	2718 Jun 15 23:31	24° <b>Ⅱ</b> 40'31 1°21'01	min. Earth dist.	2724 Dec 31 01:33	9°516'59 28.88939 AU
max. Earth dist.	2718 Jun 16 13:29	24° <b>II</b> 41'49 30.83650		2725 Mar 19 08:45	7° <b>9</b> 52'07
morning rise	2718 Jul 02 05:27	25° <b>Ⅱ</b> 16'41	evening set	2725 Jun 15 19:43	9° <b>5</b> 46'39
retrograde	2718 Sep 30 16:58	27° <b>I</b> 14'10	•	2725 1 1 02 02 17	100600144 1000144
opposition	2718 Dec 18 15:58	25°II49'12 -1°25'25	conjunction	2725 Jul 02 02:17	10°522'44 -1°02'44
min. Earth dist.	2718 Dec 18 03:38	25°II50'04 28.83961	Č	2725 Jul 02 02:17 2725 Jul 02 10:29	10°522'44 1°02'44
direct evening set	2719 Mar 06 09:26 2719 Jun 02 08:54	24°Ⅱ24'57 26°Ⅱ19'08	max. Earth dist. morning rise	2725 Jul 02 10:29 2725 Jul 18 09:47	10°\$23'30 30.89302 AU 10°\$58'56
evening set	2/19 Juli 02 08.34	20 11908	retrograde	2725 Oct 16 10:27	12° <b>9</b> 55'30
conjunction	2719 Jun 18 13:19	26° <b>Ⅲ</b> 55'07 -1°18'45	opposition	2726 Jan 02 19:41	11°531'04 -1°05'27
minimum elong	2719 Jun 18 13:19	26° <b>I</b> 55'07 1°18'44	min. Earth dist.	2726 Jan 02 12:14	11°531'36 28.89715 AU
max. Earth dist.	2719 Jun 19 01:52	26° <b>I</b> I56'17 30.84180		2726 Mar 21 20:47	10°506'41
morning rise	2719 Jul 04 19:38	27° <b>Ⅲ</b> 31′18	evening set	2726 Jun 18 09:47	12° <b>©</b> 01'15
retrograde	2719 Oct 03 05:59	29° <b>Ⅱ</b> 28'39	_		
opposition	2719 Dec 21 02:58	28° <b>Ⅲ</b> 03'42 -1°22'55	conjunction	2726 Jul 04 16:33	12°537'22 -0°59'43
min. Earth dist.	2719 Dec 20 15:30	28° <b>II</b> 04'31 28.84573	AU minimum elong	2726 Jul 04 16:33	12°937'22 0°59'43
direct	2720 Mar 07 20:55	26° <b>Ⅱ</b> 39′25	max. Earth dist.	2726 Jul 04 23:25	12°538'00 30.90034 AU
evening set	2720 Jun 03 22:26	28° <b>Ⅲ</b> 33'38	morning rise	2726 Jul 21 00:12	13° <b>©</b> 13'34
			retrograde	2726 Oct 18 21:25	15° <b>©</b> 09'58
conjunction	2720 Jun 20 03:25	29° <b>Ⅱ</b> 09'39 -1°16'21	opposition	2727 Jan 05 06:30	13°9545'35 -1°02'11
minimum elong	2720 Jun 20 03:25	29° <b>Ⅱ</b> 09'39 1°16'22	min. Earth dist.	2727 Jan 05 00:57	13°545'59 28.90416 AU
max. Earth dist.	2720 Jun 20 16:36	29°II 10'53 30.84872		2727 Mar 24 06:32	12°521'09
morning rise	2720 Jul 06 09:50	29° <b>Ⅱ</b> 45'50	evening set	2727 Jun 20 23:29	14° <b>©</b> 15'45
	2720 Jul 12 23:39	0.00		0000 X 1 05 05 05	140051151 005005
retrograde	2720 Oct 04 18:03	1°5643'02	conjunction	2727 Jul 07 06:37	14°951'51 -0°56'36
opposition	2720 Dec 22 13:46	0°518'10 -1°20'18	minimum elong	2727 Jul 07 06:37	14°951'51 0°56'36
min. Earth dist.	2720 Dec 22 02:32	0°©18'58 28.85327 .		2727 Jul 07 13:06	14°S52'27 30.90718 AU
direct	2721 Jan 02 07:54 2721 Mar 10 09:47	30°RⅡ 28°Ⅱ53'52	morning rise	2727 Jul 23 14:19	15°©28'03
direct	2721 Mar 10 09:47 2721 May 13 23:28	28°Щ53′52 0°©	retrograde opposition	2727 Oct 21 08:39 2728 Jan 07 17:05	17°924'17 15°959'57 -0°58'49
evening set	2721 May 13 23:28 2721 Jun 06 12:12	0°9548'08	min. Earth dist.	2728 Jan 07 17:05 2728 Jan 07 11:32	16°S00'21 28.91073 AU
o ronning set	2/21/011 00 12.12	J — 1000	mm. Durth dist.	2,20 Jun 0/ 11.32	10 -0021 20.710/3 AU

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conjunction	2752 Sep 02 08:14	10° <b>m</b> 22'41	0°34'12	direct	2759 Jun 04 01:44	23° <b>m</b> 12'09	
minimum elong	2752 Sep 02 08:14	-	0°34'12	evening set	2759 Sep 02 19:24	25° m 07'53	
max. Earth dist.	2752 Sep 01 16:54		31.16376 AU		-, -, -, -, -, -, -, -, -, -, -, -, -, -		
morning rise	2752 Sep 18 11:13	10° m 58'12		conjunction	2759 Sep 18 21:52	25° <b>m</b> 43'21	0°57'22
retrograde	2752 Dec 15 04:00	12° <b>m</b> 51'06		minimum elong	2759 Sep 18 21:52	25° m 43'21	0°57'21
opposition	2753 Mar 02 09:01	11° m/28'28	0°38'23	max. Earth dist.	2759 Sep 18 03:16		31.22372 AU
min. Earth dist.	2753 Mar 02 22:11		29.16785 AU	morning rise	2759 Oct 04 21:25	26° m) 18'34	
direct	2753 May 21 05:32	10° m 03'27		retrograde	2759 Dec 31 00:25	28° m) 10'48	
evening set	2753 Aug 19 15:52	11° <b>m</b> 59'09		opposition	2760 Mar 17 07:58	26° m 48'25	1°02'52
C	Č			min. Earth dist.	2760 Mar 17 23:51	26° m 47'19	29.22979 AU
conjunction	2753 Sep 04 20:57	12°Mp34'51	0°37'43	direct	2760 Jun 05 12:54	25° mp 23'18	
minimum elong	2753 Sep 04 20:57	12° m 34'51	0°37'42	evening set	2760 Sep 04 07:47	27° Mp 19'06	
max. Earth dist.	2753 Sep 04 04:52	12° Mp 33'22	31.17136 AU	-			
morning rise	2753 Sep 20 23:25	13° <b>m</b> 10'19		conjunction	2760 Sep 20 09:53	27° <b>m</b> 54'32	1°00'22
retrograde	2753 Dec 17 13:21	15° Mp 03'06		minimum elong	2760 Sep 20 09:53	27° <b>m</b> 54'32	1°00'22
opposition	2754 Mar 04 19:16	13° <b>m</b> 40'29	0°42'06	max. Earth dist.	2760 Sep 19 15:32	27° <b>m</b> 52'50	31.23492 AU
min. Earth dist.	2754 Mar 05 10:02	13° <b>m</b> 39'27	29.17529 AU	morning rise	2760 Oct 06 08:44	28° <b>m</b> 29'42	
direct	2754 May 23 16:41	12° <b>m</b> 15'25			2760 Nov 26 10:51	0∘ <b>⊽</b>	
evening set	2754 Aug 22 04:36	14° Mp 11'06		retrograde	2761 Jan 01 10:42	0° <b>ഫ</b> 21'54	
					2761 Feb 07 03:11	30°₽, ₩	
conjunction	2754 Sep 07 09:21	14° Mp 46'45	0°41'09	opposition	2761 Mar 19 18:12	28° <b>m</b> 59'36	1°06'02
minimum elong	2754 Sep 07 09:21	14° Mp 46'45	0°41'10	min. Earth dist.	2761 Mar 20 11:37	28° <b>m</b> 58'23	29.24096 AU
max. Earth dist.	2754 Sep 06 17:05	14° <b>m</b> 45'15	31.17864 AU	direct	2761 Jun 08 00:53	27° <b>m</b> 34'33	
morning rise	2754 Sep 23 11:20	15°Mp22'11		evening set	2761 Sep 06 20:14	29° <b>m</b> 30'24	
retrograde	2754 Dec 19 22:58	17° <b>m</b> 14'50			2761 Sep 20 07:22	0∘ <b>⊽</b>	
opposition	2755 Mar 07 05:21	15° Mp 52'14	0°45'45				
min. Earth dist.	2755 Mar 07 19:58	15° <b>m</b> 51'13	29.18248 AU	conjunction	2761 Sep 22 21:45	0° <b>≙</b> 05'47	1°03'17
direct	2755 May 26 05:46	14° <b>m</b> ∕27'08		minimum elong	2761 Sep 22 21:45	0° <b>≙</b> 05'47	1°03'16
evening set	2755 Aug 24 17:24	16° Mp 22′48		max. Earth dist.	2761 Sep 22 02:26	0° <b>ჲ</b> 03'59	31.24585 AU
				morning rise	2761 Oct 08 20:09	0° <b>≙</b> 40'54	
conjunction	2755 Sep 09 21:38	16° Mp 58′25	0°44'32	retrograde	2762 Jan 03 22:45	2° <b>≙</b> 33'04	
minimum elong	2755 Sep 09 21:38	16° Mp 58′25	0°44'32	opposition	2762 Mar 22 04:32	1° <b>≙</b> 10'51	1°09'06
max. Earth dist.	2755 Sep 09 04:10	16° Mp 56′48	31.18590 AU	min. Earth dist.	2762 Mar 22 21:33	1° <b>≏</b> 09'40	29.25150 AU
morning rise	2755 Sep 25 23:12	17° <b>m</b> 33'48			2762 May 11 12:29	30°R, Mp	
retrograde	2755 Dec 22 09:08	19° Mp 26'20		direct	2762 Jun 10 14:11	29° Mp 45'50	
opposition	2756 Mar 08 15:22	18° Mp 03'45			2762 Jul 10 05:36	0∘ <b>⊽</b>	
min. Earth dist.	2756 Mar 09 06:44	-	29.19013 AU	evening set	2762 Sep 09 08:29	1° <b>≏</b> 41'43	
direct	2756 May 27 15:39	16°₩38'35					
evening set	2756 Aug 26 05:59	18° <b>m</b> 34'16		conjunction	2762 Sep 25 09:29	2° <b>£</b> 17'04	
				minimum elong	2762 Sep 25 09:29	2° <b>Ω</b> 17'04	
conjunction	2756 Sep 11 09:57		0°47'51	max. Earth dist.	2762 Sep 24 13:39		31.25579 AU
minimum elong	2756 Sep 11 09:57		0°47'52	morning rise	2762 Oct 11 07:16	2° <b>Ω</b> 52'09	
max. Earth dist.	2756 Sep 10 17:01		31.19383 AU	retrograde	2763 Jan 06 08:36	4° <b>≏</b> 44'18	1010104
morning rise	2756 Sep 27 10:55	19° <b>m</b> 45'11		opposition	27/23/4 24 17 21	20 0 22100	
retrograde opposition		210m-27126			2763 Mar 24 15:01	3° <b>£</b> 22′08	
	2756 Dec 23 17:36	21° m 37'36	0050150	min. Earth dist.	2763 Mar 25 09:29	3° <b>ჲ</b> 20'51	1°12'04 29.26103 AU
	2757 Mar 11 01:32	20° m 15'03		min. Earth dist. direct	2763 Mar 25 09:29 2763 Jun 13 01:06	3° <b>£</b> 20'51 1° <b>£</b> 57'09	
min. Earth dist.	2757 Mar 11 01:32 2757 Mar 11 17:11	20° m/15'03 20° m/13'57	0°52'50 29.19845 AU	min. Earth dist.	2763 Mar 25 09:29	3° <b>ჲ</b> 20'51	
min. Earth dist. direct	2757 Mar 11 01:32 2757 Mar 11 17:11 2757 May 30 03:47	20° m 15'03 20° m 13'57 18° m 49'52		min. Earth dist. direct evening set	2763 Mar 25 09:29 2763 Jun 13 01:06 2763 Sep 11 20:45	3° <b>Ω</b> 20'51 1° <b>Ω</b> 57'09 3° <b>Ω</b> 53'04	29.26103 AU
min. Earth dist.	2757 Mar 11 01:32 2757 Mar 11 17:11	20° m/15'03 20° m/13'57		min. Earth dist. direct evening set	2763 Mar 25 09:29 2763 Jun 13 01:06 2763 Sep 11 20:45 2763 Sep 27 21:18	3° <b>£</b> 20'51 1° <b>£</b> 57'09 3° <b>£</b> 53'04 4° <b>£</b> 28'22	29.26103 AU 1°08'50
min. Earth dist. direct evening set	2757 Mar 11 01:32 2757 Mar 11 17:11 2757 May 30 03:47 2757 Aug 28 18:38	20° m 15'03 20° m 13'57 18° m 49'52 20° m 45'33	29.19845 AU	min. Earth dist. direct evening set  conjunction minimum elong	2763 Mar 25 09:29 2763 Jun 13 01:06 2763 Sep 11 20:45 2763 Sep 27 21:18 2763 Sep 27 21:17	3° <b>£</b> 20'51 1° <b>£</b> 57'09 3° <b>£</b> 53'04 4° <b>£</b> 28'22 4° <b>£</b> 28'22	29.26103 AU 1°08'50 1°08'50
min. Earth dist. direct evening set conjunction	2757 Mar 11 01:32 2757 Mar 11 17:11 2757 May 30 03:47 2757 Aug 28 18:38 2757 Sep 13 21:59	20° m; 15'03 20° m; 13'57 18° m; 49'52 20° m; 45'33 21° m; 21'05	29.19845 AU 0°51'06	min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	2763 Mar 25 09:29 2763 Jun 13 01:06 2763 Sep 11 20:45 2763 Sep 27 21:18 2763 Sep 27 21:17 2763 Sep 27 01:13	3° \$\tilde{\Omega} 20'51 1° \$\tilde{\Omega} 57'09 3° \$\tilde{\Omega} 53'04 4° \$\tilde{\Omega} 28'22 4° \$\tilde{\Omega} 28'22 4° \$\tilde{\Omega} 26'31	29.26103 AU 1°08'50
min. Earth dist. direct evening set  conjunction minimum elong	2757 Mar 11 01:32 2757 Mar 11 17:11 2757 May 30 03:47 2757 Aug 28 18:38 2757 Sep 13 21:59 2757 Sep 13 21:58	20° mp 15'03 20° mp 13'57 18° mp 49'52 20° mp 45'33 21° mp 21'05 21° mp 21'05	29.19845 AU 0°51'06 0°51'06	min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	2763 Mar 25 09:29 2763 Jun 13 01:06 2763 Sep 11 20:45 2763 Sep 27 21:18 2763 Sep 27 21:17 2763 Sep 27 01:13 2763 Oct 13 18:30	3° \$\Pi 20'51\\ 1° \$\Pi 57'09\\ 3° \$\Pi 53'04\\ 4° \$\Pi 28'22\\ 4° \$\Pi 26'31\\ 5° \$\Pi 03'25\\	29.26103 AU 1°08'50 1°08'50
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	2757 Mar 11 01:32 2757 Mar 11 17:11 2757 May 30 03:47 2757 Aug 28 18:38 2757 Sep 13 21:59 2757 Sep 13 03:41	20° mp 15'03 20° mp 13'57 18° mp 49'52 20° mp 45'33 21° mp 21'05 21° mp 21'05 21° mp 19'23	29.19845 AU 0°51'06	min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	2763 Mar 25 09:29 2763 Jun 13 01:06 2763 Sep 11 20:45 2763 Sep 27 21:18 2763 Sep 27 21:17 2763 Sep 27 01:13 2763 Oct 13 18:30 2764 Jan 08 18:30	3° \$\Pi 20'51\\ 1° \$\Pi 57'09\\ 3° \$\Pi 53'04\\ 4° \$\Pi 28'22\\ 4° \$\Pi 26'31\\ 5° \$\Pi 03'25\\ 6° \$\Pi 55'30\\	29.26103 AU 1°08'50 1°08'50 31.26467 AU
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	2757 Mar 11 01:32 2757 Mar 11 17:11 2757 May 30 03:47 2757 Aug 28 18:38 2757 Sep 13 21:59 2757 Sep 13 03:41 2757 Sep 29 22:33	20° m 15'03 20° m 13'57 18° m 49'52 20° m 45'33 21° m 21'05 21° m 21'05 21° m 19'23 21° m 56'23	29.19845 AU 0°51'06 0°51'06	min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	2763 Mar 25 09:29 2763 Jun 13 01:06 2763 Sep 11 20:45 2763 Sep 27 21:18 2763 Sep 27 21:17 2763 Sep 27 01:13 2763 Oct 13 18:30 2764 Jan 08 18:30 2764 Mar 26 01:18	3° \$\Pi 20'51\\ 1° \$\Pi 57'09\\ 3° \$\Pi 53'04\\ 4° \$\Pi 28'22\\ 4° \$\Pi 26'31\\ 5° \$\Pi 03'25\\ 6° \$\Pi 55'30\\ 5° \$\Pi 33'24\\	29.26103 AU 1°08'50 1°08'50 31.26467 AU 1°14'56
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	2757 Mar 11 01:32 2757 Mar 11 17:11 2757 May 30 03:47 2757 Aug 28 18:38 2757 Sep 13 21:59 2757 Sep 13 03:41 2757 Sep 29 22:33 2757 Dec 26 03:44	20° m 15'03 20° m 13'57 18° m 49'52 20° m 45'33 21° m 21'05 21° m 21'05 21° m 19'23 21° m 56'23 23° m 48'43	29.19845 AU 0°51'06 0°51'06 31.20267 AU	min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	2763 Mar 25 09:29 2763 Jun 13 01:06 2763 Sep 11 20:45 2763 Sep 27 21:18 2763 Sep 27 21:17 2763 Sep 27 01:13 2763 Oct 13 18:30 2764 Jan 08 18:30 2764 Mar 26 01:18 2764 Mar 26 19:47	3° \$\Pi 20'51\\ 1° \$\Pi 57'09\\ 3° \$\Pi 53'04\\ 4° \$\Pi 28'22\\ 4° \$\Pi 26'31\\ 5° \$\Pi 03'25\\ 6° \$\Pi 55'30\\ 5° \$\Pi 33'24\\ 5° \$\Pi 32'07\\	29.26103 AU 1°08'50 1°08'50 31.26467 AU
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	2757 Mar 11 01:32 2757 Mar 11 17:11 2757 May 30 03:47 2757 Aug 28 18:38 2757 Sep 13 21:59 2757 Sep 13 21:58 2757 Sep 13 03:41 2757 Sep 29 22:33 2757 Dec 26 03:44 2758 Mar 13 11:37	20° m 15'03 20° m 13'57 18° m 49'52 20° m 21'05 21° m 21'05 21° m 19'23 21° m 56'23 23° m 48'43 22° m 26'12	29.19845 AU  0°51'06 0°51'06 31.20267 AU  0°56'16	min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	2763 Mar 25 09:29 2763 Jun 13 01:06 2763 Sep 11 20:45  2763 Sep 27 21:18 2763 Sep 27 21:17 2763 Sep 27 01:13 2763 Oct 13 18:30 2764 Jan 08 18:30 2764 Mar 26 01:18 2764 Mar 26 19:47 2764 Jun 14 14:11	3° \( \Omega 20'51\) 1° \( \Omega 57'09\) 3° \( \Omega 28'22\) 4° \( \Omega 28'22\) 4° \( \Omega 26'31\) 5° \( \Omega 03'25\) 6° \( \Omega 55'30\) 5° \( \Omega 33'24\) 5° \( \Omega 32'07\) 4° \( \Omega 08'26\)	29.26103 AU 1°08'50 1°08'50 31.26467 AU 1°14'56
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	2757 Mar 11 01:32 2757 Mar 11 17:11 2757 May 30 03:47 2757 Aug 28 18:38 2757 Sep 13 21:59 2757 Sep 13 21:58 2757 Sep 13 03:41 2757 Sep 29 22:33 2757 Dec 26 03:44 2758 Mar 13 11:37 2758 Mar 14 03:09	20° m 15'03 20° m 13'57 18° m 49'52 20° m 45'33 21° m 21'05 21° m 21'05 21° m 19'23 21° m 56'23 23° m 48'43 22° m 26'12 22° m 25'07	29.19845 AU 0°51'06 0°51'06 31.20267 AU	min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	2763 Mar 25 09:29 2763 Jun 13 01:06 2763 Sep 11 20:45  2763 Sep 27 21:18 2763 Sep 27 21:17 2763 Sep 27 01:13 2763 Oct 13 18:30 2764 Jan 08 18:30 2764 Mar 26 01:18 2764 Mar 26 19:47 2764 Jun 14 14:11 2764 Sep 13 09:06	3° \$\Pi 20'51\\ 1° \$\Pi 57'09\\ 3° \$\Pi 53'04\\ 4° \$\Pi 28'22\\ 4° \$\Pi 26'31\\ 5° \$\Pi 33'24\\ 5° \$\Pi 32'07\\ 4° \$\Pi 08'26\\ 6° \$\Pi 04'22\\	29.26103 AU 1°08'50 1°08'50 31.26467 AU 1°14'56 29.26922 AU
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	2757 Mar 11 01:32 2757 Mar 11 17:11 2757 May 30 03:47 2757 Aug 28 18:38 2757 Sep 13 21:59 2757 Sep 13 03:41 2757 Sep 29 22:33 2757 Dec 26 03:44 2758 Mar 13 11:37 2758 Mar 14 03:09 2758 Jun 01 14:24	20° m 15'03 20° m 13'57 18° m 49'52 20° m 45'33 21° m 21'05 21° m 21'05 21° m 19'23 21° m 56'23 23° m 48'43 22° m 26'12 22° m 25'07 21° m 01'01	29.19845 AU  0°51'06 0°51'06 31.20267 AU  0°56'16	min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	2763 Mar 25 09:29 2763 Jun 13 01:06 2763 Sep 11 20:45  2763 Sep 27 21:18 2763 Sep 27 21:17 2763 Sep 27 01:13 2763 Oct 13 18:30 2764 Jan 08 18:30 2764 Mar 26 01:18 2764 Mar 26 19:47 2764 Jun 14 14:11	3° \$\Pi 20'51\\ 1° \$\Pi 57'09\\ 3° \$\Pi 53'04\\ 4° \$\Pi 28'22\\ 4° \$\Pi 26'31\\ 5° \$\Pi 33'24\\ 5° \$\Pi 32'07\\ 4° \$\Pi 08'26\\ 6° \$\Pi 04'22\\	29.26103 AU 1°08'50 1°08'50 31.26467 AU 1°14'56
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	2757 Mar 11 01:32 2757 Mar 11 17:11 2757 May 30 03:47 2757 Aug 28 18:38 2757 Sep 13 21:59 2757 Sep 13 21:58 2757 Sep 13 03:41 2757 Sep 29 22:33 2757 Dec 26 03:44 2758 Mar 13 11:37 2758 Mar 14 03:09	20° m 15'03 20° m 13'57 18° m 49'52 20° m 45'33 21° m 21'05 21° m 21'05 21° m 19'23 21° m 56'23 23° m 48'43 22° m 26'12 22° m 25'07	29.19845 AU  0°51'06 0°51'06 31.20267 AU  0°56'16	min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	2763 Mar 25 09:29 2763 Jun 13 01:06 2763 Sep 11 20:45 2763 Sep 27 21:18 2763 Sep 27 21:17 2763 Sep 27 01:13 2763 Oct 13 18:30 2764 Jun 08 18:30 2764 Mar 26 01:18 2764 Mar 26 19:47 2764 Jun 14 14:11 2764 Sep 13 09:06 2764 Sep 28 11:33	3° \( \Omega 20'51\) 1° \( \Omega 57'09\) 3° \( \Omega 53'04\) 4° \( \Omega 28'22\) 4° \( \Omega 26'31\) 5° \( \Omega 03'25\) 6° \( \Omega 55'30\) 5° \( \Omega 33'24\) 5° \( \Omega 32'07\) 4° \( \Omega 08'26\) 6° \( \Omega 04'22\) 6° \( \Omega 37'39\)	29.26103 AU 1°08'50 1°08'50 31.26467 AU 1°14'56 29.26922 AU 31.27218 AU
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	2757 Mar 11 01:32 2757 Mar 11 17:11 2757 May 30 03:47 2757 Aug 28 18:38 2757 Sep 13 21:59 2757 Sep 13 03:41 2757 Sep 29 22:33 2757 Dec 26 03:44 2758 Mar 13 11:37 2758 Mar 14 03:09 2758 Jun 01 14:24 2758 Aug 31 07:02	20° m 15'03 20° m 13'57 18° m 49'52 20° m 45'33 21° m 21'05 21° m 21'05 21° m 19'23 21° m 26'12 22° m 26'12 22° m 25'07 21° m 01'01 22° m 56'43	29.19845 AU  0°51'06 0°51'06 31.20267 AU  0°56'16 29.20798 AU	min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	2763 Mar 25 09:29 2763 Jun 13 01:06 2763 Sep 11 20:45 2763 Sep 27 21:18 2763 Sep 27 21:17 2763 Sep 27 01:13 2763 Oct 13 18:30 2764 Jan 08 18:30 2764 Mar 26 01:18 2764 Mar 26 19:47 2764 Jun 14 14:11 2764 Sep 13 09:06 2764 Sep 28 11:33	3° \( \Omega \) 20'51 1° \( \Omega \) 57'09 3° \( \Omega \) 53'04 4° \( \Omega \) 28'22 4° \( \Omega \) 26'31 5° \( \Omega \) 03'25 6° \( \Omega \) 55'30 5° \( \Omega \) 33'24 5° \( \Omega \) 32'07 4° \( \Omega \) 08'26 6° \( \Omega \) 04'22 6° \( \Omega \) 39'38	29.26103 AU  1°08'50 1°08'50 31.26467 AU  1°14'56 29.26922 AU  31.27218 AU 1°11'28
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	2757 Mar 11 01:32 2757 Mar 11 17:11 2757 May 30 03:47 2757 Aug 28 18:38 2757 Sep 13 21:59 2757 Sep 13 03:41 2757 Sep 13 03:41 2757 Sep 29 22:33 2757 Dec 26 03:44 2758 Mar 13 11:37 2758 Jun 01 14:24 2758 Aug 31 07:02	20° m 15'03 20° m 13'57 18° m 49'52 20° m 45'33 21° m 21'05 21° m 21'05 21° m 19'23 21° m 56'23 23° m 48'43 22° m 26'12 22° m 25'07 21° m 01'01 22° m 56'43 23° m 32'13	29.19845 AU  0°51'06 0°51'06 31.20267 AU  0°56'16 29.20798 AU  0°54'16	min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong	2763 Mar 25 09:29 2763 Jun 13 01:06 2763 Sep 11 20:45  2763 Sep 27 21:18 2763 Sep 27 21:17 2763 Sep 27 01:13 2763 Oct 13 18:30 2764 Jan 08 18:30 2764 Mar 26 01:18 2764 Mar 26 19:47 2764 Jun 14 14:11 2764 Sep 13 09:06 2764 Sep 28 11:33  2764 Sep 29 09:02 2764 Sep 29 09:02	3° \( \Omega \) 20'51 1° \( \Omega \) 57'09 3° \( \Omega \) 53'04 4° \( \Omega \) 28'22 4° \( \Omega \) 26'31 5° \( \Omega \) 30'25 6° \( \Omega \) 55'30 5° \( \Omega \) 33'24 5° \( \Omega \) 32'07 4° \( \Omega \) 08'26 6° \( \Omega \) 37'39 6° \( \Omega \) 39'38 6° \( \Omega \) 39'38	29.26103 AU  1°08'50 1°08'50 31.26467 AU  1°14'56 29.26922 AU  31.27218 AU 1°11'28
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	2757 Mar 11 01:32 2757 Mar 11 17:11 2757 May 30 03:47 2757 Aug 28 18:38 2757 Sep 13 21:59 2757 Sep 13 03:41 2757 Sep 29 22:33 2757 Dec 26 03:44 2758 Mar 13 11:37 2758 Mar 14 03:09 2758 Jun 01 14:24 2758 Aug 31 07:02 2758 Sep 16 10:05 2758 Sep 16 10:05	20° m 15'03 20° m 13'57 18° m 49'52 20° m 45'33 21° m 21'05 21° m 21'05 21° m 19'23 21° m 56'23 23° m 48'43 22° m 25'07 21° m 01'01 22° m 56'43 23° m 32'13 23° m 32'13	29.19845 AU  0°51'06 0°51'06 31.20267 AU  0°56'16 29.20798 AU  0°54'16 0°54'17	min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise	2763 Mar 25 09:29 2763 Jun 13 01:06 2763 Sep 11 20:45  2763 Sep 27 21:18 2763 Sep 27 21:17 2763 Sep 27 01:13 2763 Oct 13 18:30 2764 Jan 08 18:30 2764 Mar 26 01:18 2764 Mar 26 19:47 2764 Jun 14 14:11 2764 Sep 13 09:06 2764 Sep 28 11:33  2764 Sep 29 09:02 2764 Sep 29 09:02 2764 Oct 15 05:45	3° \( \Omega \) 20'51 1° \( \Omega \) 57'09 3° \( \Omega \) 53'04  4° \( \Omega \) 28'22 4° \( \Omega \) 26'31 5° \( \Omega \) 3'25 6° \( \Omega \) 55'30 5° \( \Omega \) 33'24 5° \( \Omega \) 32'07 4° \( \Omega \) 08'26 6° \( \Omega \) 37'39 6° \( \Omega \) 39'38 6° \( \Omega \) 39'38 7° \( \Omega \) 14'38	29.26103 AU  1°08'50 1°08'50 31.26467 AU  1°14'56 29.26922 AU  31.27218 AU 1°11'28
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.	2757 Mar 11 01:32 2757 Mar 11 17:11 2757 May 30 03:47 2757 Aug 28 18:38 2757 Sep 13 21:59 2757 Sep 13 03:41 2757 Sep 29 22:33 2757 Dec 26 03:44 2758 Mar 13 11:37 2758 Mar 14 03:09 2758 Jun 01 14:24 2758 Aug 31 07:02 2758 Sep 16 10:05 2758 Sep 16 10:05 2758 Sep 15 16:42	20° my 15'03 20° my 13'57 18° my 49'52 20° my 45'33 21° my 21'05 21° my 21'05 21° my 19'23 21° my 56'23 23° my 48'43 22° my 26'12 22° my 25'07 21° my 01'01 22° my 56'43 23° my 32'13 23° my 32'13 23° my 30'37	29.19845 AU  0°51'06 0°51'06 31.20267 AU  0°56'16 29.20798 AU  0°54'16	min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde	2763 Mar 25 09:29 2763 Jun 13 01:06 2763 Sep 11 20:45  2763 Sep 27 21:18 2763 Sep 27 21:17 2763 Sep 27 01:13 2763 Oct 13 18:30 2764 Jan 08 18:30 2764 Mar 26 01:18 2764 Mar 26 19:47 2764 Jun 14 14:11 2764 Sep 13 09:06 2764 Sep 28 11:33  2764 Sep 29 09:02 2764 Sep 29 09:02 2764 Oct 15 05:45 2765 Jan 10 05:06	3° \( \Omega \) 20'51 1° \( \Omega \) 57'09 3° \( \Omega \) 53'04  4° \( \Omega \) 28'22 4° \( \Omega \) 26'31 5° \( \Omega \) 3'25 6° \( \Omega \) 55'30 5° \( \Omega \) 33'24 5° \( \Omega \) 32'07 4° \( \Omega \) 08'26 6° \( \Omega \) 37'39  6° \( \Omega \) 39'38 6° \( \Omega \) 39'38 7° \( \Omega \) 14'38 9° \( \Omega \) 06'41	29.26103 AU  1°08'50 1°08'50 31.26467 AU  1°14'56 29.26922 AU  31.27218 AU 1°11'28 1°11'29
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	2757 Mar 11 01:32 2757 Mar 11 17:11 2757 May 30 03:47 2757 Aug 28 18:38 2757 Sep 13 21:59 2757 Sep 13 03:41 2757 Sep 29 22:33 2757 Dec 26 03:44 2758 Mar 13 11:37 2758 Mar 14 03:09 2758 Jun 01 14:24 2758 Aug 31 07:02 2758 Sep 16 10:05 2758 Sep 16 10:05 2758 Sep 15 16:42 2758 Oct 02 09:58	20° my 15'03 20° my 15'03 20° my 13'57 18° my 49'52 20° my 45'33  21° my 21'05 21° my 21'05 21° my 19'23 21° my 56'23 23° my 48'43 22° my 26'12 22° my 25'07 21° my 01'01 22° my 56'43  23° my 32'13 23° my 32'13 23° my 30'37 24° my 07'28	29.19845 AU  0°51'06 0°51'06 31.20267 AU  0°56'16 29.20798 AU  0°54'16 0°54'17	min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition	2763 Mar 25 09:29 2763 Jun 13 01:06 2763 Sep 11 20:45  2763 Sep 27 21:18 2763 Sep 27 21:17 2763 Sep 27 01:13 2763 Oct 13 18:30 2764 Jan 08 18:30 2764 Mar 26 01:18 2764 Mar 26 19:47 2764 Jun 14 14:11 2764 Sep 13 09:06 2764 Sep 28 11:33  2764 Sep 29 09:02 2764 Oct 15 05:45 2765 Jan 10 05:06 2765 Mar 28 11:48	3° \( \Omega 20'51\) 1° \( \Omega 57'09\) 3° \( \Omega 53'04\) 4° \( \Omega 28'22\) 4° \( \Omega 26'31\) 5° \( \Omega 33'25\) 6° \( \Omega 55'30\) 5° \( \Omega 33'24\) 5° \( \Omega 33'24\) 5° \( \Omega 33'24\) 6° \( \Omega 33'26\) 6° \( \Omega 33'39\) 6° \( \Omega 37'39\) 6° \( \Omega 39'38\) 6° \( \Omega 39'38\) 7° \( \Omega 14'38\) 9° \( \Omega 06'41\) 7° \( \Omega 44'37\)	29.26103 AU  1°08'50 1°08'50 31.26467 AU  1°14'56 29.26922 AU  31.27218 AU 1°11'28 1°11'29
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	2757 Mar 11 01:32 2757 Mar 11 17:11 2757 May 30 03:47 2757 Aug 28 18:38 2757 Sep 13 21:59 2757 Sep 13 03:41 2757 Sep 29 22:33 2757 Dec 26 03:44 2758 Mar 13 11:37 2758 Mar 14 03:09 2758 Jun 01 14:24 2758 Aug 31 07:02 2758 Sep 16 10:05 2758 Dec 28 12:47	20° my 15'03 20° my 15'03 20° my 13'57 18° my 49'52 20° my 45'33  21° my 21'05 21° my 21'05 21° my 19'23 21° my 56'23 23° my 48'43 22° my 26'12 22° my 25'07 21° my 01'01 22° my 56'43  23° my 32'13 23° my 32'13 23° my 30'37 24° my 07'28 25° my 59'45	29.19845 AU  0°51'06 0°51'06 31.20267 AU  0°56'16 29.20798 AU  0°54'16 0°54'17 31.21270 AU	min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist.	2763 Mar 25 09:29 2763 Jun 13 01:06 2763 Sep 11 20:45  2763 Sep 27 21:18 2763 Sep 27 21:17 2763 Sep 27 01:13 2763 Oct 13 18:30 2764 Jan 08 18:30 2764 Mar 26 01:18 2764 Mar 26 19:47 2764 Jun 14 14:11 2764 Sep 13 09:06 2764 Sep 28 11:33  2764 Sep 29 09:02 2764 Oct 15 05:45 2765 Jan 10 05:06 2765 Mar 28 11:48 2765 Mar 29 07:04	3° \( \Omega 20'51\) 1° \( \Omega 57'09\) 3° \( \Omega 53'04\) 4° \( \Omega 28'22\) 4° \( \Omega 26'31\) 5° \( \Omega 33'24\) 5° \( \Omega 33'24\) 5° \( \Omega 32'07\) 4° \( \Omega 08'26\) 6° \( \Omega 37'39\) 6° \( \Omega 37'39\) 6° \( \Omega 39'38\) 6° \( \Omega 39'38\) 7° \( \Omega 14'38\) 9° \( \Omega 06'41\) 7° \( \Omega 44'37\) 7° \( \Omega 43'16\)	29.26103 AU  1°08'50 1°08'50 31.26467 AU  1°14'56 29.26922 AU  31.27218 AU 1°11'28 1°11'29
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	2757 Mar 11 01:32 2757 Mar 11 17:11 2757 May 30 03:47 2757 Aug 28 18:38 2757 Sep 13 21:59 2757 Sep 13 03:41 2757 Sep 29 22:33 2757 Dec 26 03:44 2758 Mar 13 11:37 2758 Mar 14 03:09 2758 Jun 01 14:24 2758 Aug 31 07:02 2758 Sep 16 10:05 2758 Sep 16 10:05 2758 Sep 15 16:42 2758 Oct 02 09:58	20° m 15'03 20° m 13'57 18° m 49'52 20° m 45'33 21° m 21'05 21° m 21'05 21° m 56'23 23° m 48'43 22° m 26'12 22° m 25'07 21° m 01'01 22° m 56'43 23° m 32'13 23° m 30'37 24° m 07'28 25° m 59'45 24° m 37'18	29.19845 AU  0°51'06 0°51'06 31.20267 AU  0°56'16 29.20798 AU  0°54'16 0°54'17	min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition	2763 Mar 25 09:29 2763 Jun 13 01:06 2763 Sep 11 20:45  2763 Sep 27 21:18 2763 Sep 27 21:17 2763 Sep 27 01:13 2763 Oct 13 18:30 2764 Jan 08 18:30 2764 Mar 26 01:18 2764 Mar 26 19:47 2764 Jun 14 14:11 2764 Sep 13 09:06 2764 Sep 28 11:33  2764 Sep 29 09:02 2764 Oct 15 05:45 2765 Jan 10 05:06 2765 Mar 28 11:48	3° \( \Omega 20'51\) 1° \( \Omega 57'09\) 3° \( \Omega 53'04\) 4° \( \Omega 28'22\) 4° \( \Omega 26'31\) 5° \( \Omega 33'25\) 6° \( \Omega 55'30\) 5° \( \Omega 33'24\) 5° \( \Omega 33'24\) 5° \( \Omega 33'24\) 6° \( \Omega 33'26\) 6° \( \Omega 33'39\) 6° \( \Omega 37'39\) 6° \( \Omega 39'38\) 6° \( \Omega 39'38\) 7° \( \Omega 14'38\) 9° \( \Omega 06'41\) 7° \( \Omega 44'37\)	29.26103 AU  1°08'50 1°08'50 31.26467 AU  1°14'56 29.26922 AU  31.27218 AU 1°11'28 1°11'29

conjunction	2765 Oct 01 20:40	8° <b>≙</b> 50'49	1°14'00	direct	2772 Jul 02 09:19	21° <b>£</b> 34'46	
minimum elong	2765 Oct 01 20:40		1°13'59	evening set	2772 Oct 01 06:32	21° <b>⊆</b> 34'40 23° <b>⊆</b> 30'42	
max. Earth dist.	2765 Sep 30 23:36		31.27855 AU	max. Earth dist.	2772 Oct 01 00:32 2772 Oct 16 04:42		31.32203 AU
morning rise	2765 Oct 17 16:41	9° <b>£</b> 25'46	31.27033710	max. Earth dist.	2772 001 10 04.42	24 = 03 37	31.32203710
retrograde	2766 Jan 12 13:20	11° <b>⊆</b> 17'46		conjunction	2772 Oct 17 02:16	24° <b>ჲ</b> 05'39	1°28'28
opposition	2766 Mar 30 22:18		1°20'19	minimum elong	2772 Oct 17 02:16	24° <b>Ω</b> 05'39	1°28'29
min. Earth dist.	2766 Mar 31 18:08		29.28206 AU	morning rise	2772 Nov 01 18:29	24° <b>Ω</b> 40'19	
direct	2766 Jun 19 12:56	8° <b>ഫ</b> 30'45		retrograde	2773 Jan 27 11:37	26° <b>Ω</b> 32'08	
evening set	2766 Sep 18 09:13	10° <b>≏</b> 26'40		opposition	2773 Apr 15 00:00	25° <b>Ω</b> 10'16	1°35'21
max. Earth dist.	2766 Oct 03 09:31	10° <b>≏</b> 59'46	31.28402 AU	min. Earth dist.	2773 Apr 15 20:06	25° <b>Ω</b> 08'53	29.32686 AU
				direct	2773 Jul 04 22:44	23° <b>≏</b> 45'25	
conjunction	2766 Oct 04 08:03	11° <b>≏</b> 01'52	1°16'24	evening set	2773 Oct 03 17:55	25° <b>≏</b> 41'21	
minimum elong	2766 Oct 04 08:03	11° <b>≏</b> 01'52	1°16'25				
morning rise	2766 Oct 20 03:41	11° <b>≏</b> 36'47		conjunction	2773 Oct 19 12:59	26° <b>≙</b> 16'17	1°30'03
retrograde	2767 Jan 14 23:04	13° <b>≏</b> 28'43		minimum elong	2773 Oct 19 12:59	26° <b>≙</b> 16'17	1°30'03
opposition	2767 Apr 02 08:41	12° <b>≙</b> 06'41	1°22'50	max. Earth dist.	2773 Oct 18 14:35	26° <b>≏</b> 14'12	31.32976 AU
min. Earth dist.	2767 Apr 03 04:27	12° <b>≙</b> 05'19	29.28736 AU	morning rise	2773 Nov 04 04:43	26° <b>♀</b> 50'55	
direct	2767 Jun 21 23:27	10° <b>≙</b> 41'41		retrograde	2774 Jan 29 22:49	28° <b>≏</b> 42'45	
evening set	2767 Sep 20 20:52	12° <b>£</b> 37'36		opposition	2774 Apr 17 10:51	27° <b>≏</b> 20'55	1°36'58
				min. Earth dist.	2774 Apr 18 07:16		29.33441 AU
conjunction	2767 Oct 06 19:23	13° <b>≏</b> 12'45	1°18'43	direct	2774 Jul 07 09:42	25° <b>≏</b> 56'08	
minimum elong	2767 Oct 06 19:23		1°18'42	evening set	2774 Oct 06 05:12	27° <b>≏</b> 52'05	
max. Earth dist.	2767 Oct 05 21:46		31.28906 AU				
morning rise	2767 Oct 22 14:19	13° <b>≏</b> 47'38		conjunction	2774 Oct 21 23:52	28° <b>≏</b> 26'58	1°31'30
retrograde	2768 Jan 17 07:25	15° <b>≙</b> 39'31		minimum elong	2774 Oct 21 23:51	28° <b>Ω</b> 26'58	1°31'31
opposition	2768 Apr 03 19:13	14° <b>£</b> 17′29		max. Earth dist.	2774 Oct 21 02:13		31.33679 AU
min. Earth dist.	2768 Apr 04 15:57		29.29235 AU	morning rise	2774 Nov 06 14:57	29° <b>Ω</b> 01'34	
direct	2768 Jun 23 10:31	12° <b>⊆</b> 52'29			2774 Dec 05 23:19	0°M	
evening set	2768 Sep 22 08:41	14° <b>£</b> 48'22	21 20 11 6 1 7 7	retrograde	2775 Feb 01 07:06	0°M53'25	
max. Earth dist.	2768 Oct 07 07:51	15° <b>11</b> 21'23	31.29416 AU	*,*	2775 Apr 02 07:36	30°R <u>Ω</u>	1020126
	27(0,0,1,00,0(20	150 0 22120	1020154	opposition	2775 Apr 19 21:43	29° <b>£</b> 31'38	1°38'26
conjunction	2768 Oct 08 06:29	15° <b>Ω</b> 23'29	1°20'54	min. Earth dist.	2775 Apr 20 18:36	29° <b>£</b> 30°12 28° <b>£</b> 06'53	29.34086 AU
minimum elong	2768 Oct 08 06:29	15° <b>£</b> 23'29	1°20'54	direct	2775 Jul 09 22:09 2775 Oct 07 09:16	28° <b>±</b> 20653	
morning rise	2768 Oct 24 01:01 2769 Jan 18 18:10	15° <b>≙</b> 58'19 17° <b>≙</b> 50'10		avanina aat	2775 Oct 07 09:16 2775 Oct 08 16:32	0°11L 0°11L02'49	
retrograde opposition	2769 Apr 06 05:34		1°27'31	evening set max. Earth dist.	2775 Oct 08 16.32 2775 Oct 23 11:30		31.34259 AU
min. Earth dist.	2769 Apr 07 01:24		29.29772 AU	max. Earth dist.	2773 Oct 23 11.30	0 1163332	31.34239 AU
direct	2769 Jun 25 21:30	15° <b>⊆</b> 03'07	2).2)112 AO	conjunction	2775 Oct 24 10:31	0°M37'40	1°32'49
evening set	2769 Sep 24 20:16	16° <b>⊆</b> 59'00		minimum elong	2775 Oct 24 10:31	0°M37'40	1°32'49
evening sec	2707 Sep 21 20:10	10 =37 00		morning rise	2775 Nov 09 01:15	1°M12'15	1 32 17
conjunction	2769 Oct 10 17:37	17° <b>≏</b> 34'04	1°22'59	retrograde	2776 Feb 03 17:05	3°M04'06	
minimum elong	2769 Oct 10 17:37	17° <b>£</b> 34'04		opposition	2776 Apr 21 08:38	1°M42'20	1°39'47
max. Earth dist.	2769 Oct 09 19:43		31.29979 AU	min. Earth dist.	2776 Apr 22 05:18		29.34600 AU
morning rise	2769 Oct 26 11:25	18° <b>ഫ</b> 08'52		direct	2776 Jul 11 08:43	0° <b>M</b> 17'37	
retrograde	2770 Jan 21 04:00	20° <b>≏</b> 00'41		evening set	2776 Oct 10 03:43	2°M13'32	
opposition	2770 Apr 08 16:16	18° <b>≏</b> 38'40	1°29'40				
min. Earth dist.	2770 Apr 09 12:57	18° <b>≏</b> 37'14	29.30390 AU	conjunction	2776 Oct 25 21:20	2°M48'21	1°34'00
direct	2770 Jun 28 09:47	17° <b>≙</b> 13'40		minimum elong	2776 Oct 25 21:20	2°M48'21	1°34'01
evening set	2770 Sep 27 07:39	19° <b>ഫ</b> 09'33		max. Earth dist.	2776 Oct 24 23:07	2°M46'17	31.34685 AU
max. Earth dist.	2770 Oct 12 06:18	19° <b>≏</b> 42'32	31.30650 AU	morning rise	2776 Nov 10 11:22	3°M22'54	
				retrograde	2777 Feb 05 01:37	5°M14'45	
conjunction	2770 Oct 13 04:24	19° <b>≏</b> 44'35	1°24'56	opposition	2777 Apr 23 19:43	3°M53'00	1°40'58
minimum elong	2770 Oct 13 04:24	19° <b>≏</b> 44'35	1°24'56	min. Earth dist.	2777 Apr 24 17:28	3°M51'30	29.34948 AU
morning rise	2770 Oct 28 21:46	20° <b>ഫ</b> 19'20		direct	2777 Jul 13 19:47	2°M28'18	
retrograde	2771 Jan 23 15:23	22° <b>≏</b> 11'09		evening set	2777 Oct 12 14:58	4°M24'11	
opposition	2771 Apr 11 02:47		1°31'42	max. Earth dist.	2777 Oct 27 08:37	4°M56'48	31.34962 AU
min. Earth dist.	2771 Apr 11 22:24		29.31103 AU				
direct	2771 Jun 30 22:47	19° <b>£</b> 24'12		conjunction	2777 Oct 28 07:54	4°M58'58	1°35'04
evening set	2771 Sep 29 19:06	21° <b>≏</b> 20'06		minimum elong	2777 Oct 28 07:53	4°M58'58	1°35'03
	2771 0 . 17	210 2 22:07	100646	morning rise	2777 Nov 12 21:35	5°M33'29	
conjunction	2771 Oct 15 15:20		1°26'46	retrograde	2778 Feb 07 12:17	7°M25'20	1040100
minimum elong	2771 Oct 15 15:20	21° <b>£</b> 55'05		opposition	2778 Apr 26 06:44	6°M03'34	1°42'02
max. Earth dist.	2771 Oct 14 17:18		31.31399 AU	min. Earth dist.	2778 Apr 27 03:38		29.35154 AU
morning rise	2771 Oct 31 08:07	22° <b>£</b> 29'48		direct	2778 Jul 16 07:03	4°M38'52	
retrograde	2772 Jan 26 01:16	24° <b>£</b> 21'37	1922125	evening set	2778 Oct 15 01:47	6°M34'43	
opposition min. Earth dist.	2772 Apr 12 13:19 2772 Apr 13 09:49		1°33'35	aaniumati	2779 Oct 20 19 21	70m 00100	1025150
THE DESIGNATION OF STREET	4114 ADI 13 U9:49	44 <b>=</b> 38 10	29.31893 AU	conjunction	2778 Oct 30 18:21	7° <b>™</b> 09'28	1 22 20

minimum elong	2778 Oct 30 18:20	7° <b>M</b> 09'27	1°35'59	opposition	2785 May 11 12:48	21° <b>M</b> .14'42	1°45'17
max. Earth dist.	2778 Oct 29 19:33		31.35094 AU	min. Earth dist.	2785 May 12 08:08		29.35700 AU
morning rise	2778 Nov 15 07:27	7°M43'56	31.33071710	direct	2785 Jul 31 18:20	19°M50'09	29.55700110
retrograde	2779 Feb 09 21:44	9°M35'48		evening set	2785 Oct 30 03:42	21°M45'49	
opposition	2779 Apr 28 17:54		1°42'56	<u>8</u>			
min. Earth dist.	2779 Apr 29 15:56		29.35231 AU	conjunction	2785 Nov 14 16:57	22°M20'23	1°38'31
direct	2779 Jul 18 18:51	6° <b>M</b> 49'18		minimum elong	2785 Nov 14 16:57	22°M20'23	1°38'31
evening set	2779 Oct 17 12:43	8°M45'06		max. Earth dist.	2785 Nov 13 20:53	22°M18'31	31.35697 AU
max. Earth dist.	2779 Nov 01 05:40	9° <b>™</b> 17'40 :	31.35130 AU	morning rise	2785 Nov 30 03:01	22°M54'42	
				retrograde	2786 Feb 24 18:54	24°M46'48	
conjunction	2779 Nov 02 04:43	9° <b>M</b> 19'49	1°36'45	opposition	2786 May 14 00:19	$23^{\circ}$ M $25'01$	1°45'08
minimum elong	2779 Nov 02 04:43	9° <b>ጤ</b> 19'49	1°36'45	min. Earth dist.	2786 May 14 20:13	23°M23'39	29.35905 AU
morning rise	2779 Nov 17 17:27	9° <b>™</b> 54'16		direct	2786 Aug 03 04:50	22°M00'33	
retrograde	2780 Feb 12 08:28	11° <b>M</b> 46'07		evening set	2786 Nov 01 13:58	23°M56'12	
opposition	2780 Apr 30 04:47	10°M24'17	1°43'42	max. Earth dist.	2786 Nov 16 06:07	24°M28'49	31.35884 AU
min. Earth dist.	2780 May 01 01:55		29.35223 AU				
direct	2780 Jul 20 07:37	8°M59'34		conjunction	2786 Nov 17 02:39	24°M30'44	1°38'19
evening set	2780 Oct 18 23:31	10°M55'20		minimum elong	2786 Nov 17 02:39	24°M30'44	1°38'20
				morning rise	2786 Dec 02 12:31	25°M05'03	
conjunction	2780 Nov 03 15:01		1°37'24	retrograde	2787 Feb 27 05:39	26°M57'13	
minimum elong	2780 Nov 03 15:01		1°37'24	opposition	2787 May 16 11:43	25°M35'27	1°44'51
max. Earth dist.	2780 Nov 02 16:01		31.35098 AU	min. Earth dist.	2787 May 17 06:25	25° <b>M</b> 34'11	29.36049 AU
morning rise	2780 Nov 19 03:15	12°M04'26		direct	2787 Aug 05 15:41	24°M11'03	
retrograde	2781 Feb 13 18:26	13°M56'18		evening set	2787 Nov 04 00:16	26° <b>™</b> 06'42	
opposition	2781 May 02 16:00		1°44'19			a co <b>m</b> a	
min. Earth dist.	2781 May 03 13:43		29.35201 AU	conjunction	2787 Nov 19 12:37	26°M41'13	1°37'59
direct	2781 Jul 22 18:31	11°M09'43		minimum elong	2787 Nov 19 12:37	26°M41'13	1°37'58
evening set	2781 Oct 21 10:02	13°M05'26	21 25007 ATT	max. Earth dist.	2787 Nov 18 16:41		31.35969 AU
max. Earth dist.	2781 Nov 05 03:06	13°11638'02 .	31.35087 AU	morning rise	2787 Dec 04 22:00	27°M15'30	
· · · · · · · · · · · ·	2701 N 06 01-04	129 <b>m</b> 40105	1927154	retrograde	2788 Feb 29 15:27	29°M07'46	1944125
conjunction minimum elong	2781 Nov 06 01:04		1°37'54 1°37'54	opposition min. Earth dist.	2788 May 17 23:17	27°M46'00	1°44'25 29.36080 AU
morning rise	2781 Nov 06 01:04 2781 Nov 21 12:49	13°11640'03 14°11614'28	1-3/-34	direct	2788 May 18 18:55 2788 Aug 07 02:31	26°M21'39	29.36080 AU
morning rise	2781 Nov 21 12:49 2781 Dec 13 16:55	14 1161428 15°M		evening set	2788 Nov 05 10:37	28°M17'16	
retrograde	2781 Bec 13 10:33 2782 Feb 16 04:22	16°M06'21		evening set	2788 NOV 03 10.37	20 1161 / 10	
retrograde	2782 Feb 10 04:22 2782 Apr 25 14:33	15°RM		conjunction	2788 Nov 20 22:31	28°M51'46	1°37'30
opposition	2782 May 05 03:12		1°44'47	minimum elong	2788 Nov 20 22:31		1°37'31
min. Earth dist.	2782 May 05 23:58		29.35210 AU	max. Earth dist.	2788 Nov 20 02:36		31.35942 AU
direct	2782 Jul 25 08:22	13°M 19'46	29.33210110	morning rise	2788 Dec 06 07:36	29°M26'02	31.33712110
	2782 Oct 16 15:40	15°M			2788 Dec 22 10:58	0°×7	
evening set	2782 Oct 23 20:37	15° <b>™</b> 15'27		retrograde	2789 Mar 03 02:31	1° <b>∡</b> 18'21	
C				Ü	2789 May 18 08:32	30°RM	
conjunction	2782 Nov 08 11:04	15° <b>M</b> 50'04	1°38'16	opposition	2789 May 20 10:57	29°M56'35	1°43'50
minimum elong	2782 Nov 08 11:04	15°M50'04	1°38'17	min. Earth dist.	2789 May 21 05:31		29.35973 AU
max. Earth dist.	2782 Nov 07 12:43	15°M47'59	31.35135 AU	direct	2789 Aug 09 14:07	28°M32'16	
morning rise	2782 Nov 23 22:28	16°M24'26			2789 Oct 25 17:26	0° <b>∡</b> ¹	
retrograde	2783 Feb 18 15:32	18°M16'21		evening set	2789 Nov 07 20:48	0° <b>∡</b> 127′50	
opposition	2783 May 07 14:17	16°M54'28	1°45'06				
min. Earth dist.	2783 May 08 10:42	16°M53'04	29.35313 AU	conjunction	2789 Nov 23 08:16	1° <b>х</b> *02′19	1°36'53
direct	2783 Jul 27 19:27	15°M29'48		minimum elong	2789 Nov 23 08:16	1° <b>∡</b> °02′19	1°36'53
evening set	2783 Oct 26 06:58	17° <b>M</b> 25'29		max. Earth dist.	2789 Nov 22 12:16	1° <b>∡</b> ¹00′27	31.35759 AU
				morning rise	2789 Dec 08 17:02	1° <b>∡</b> ³36'35	
conjunction	2783 Nov 10 21:08	18°M00'04	1°38'30	retrograde	2790 Mar 05 13:14	3° <b>≯</b> 28'58	
minimum elong	2783 Nov 10 21:08	18°M00'04		opposition	2790 May 22 22:46	2° <b>∡</b> 07'10	1°43'06
max. Earth dist.	2783 Nov 10 00:14	17° <b>M</b> 58'07	31.35278 AU	min. Earth dist.	2790 May 23 17:56		29.35726 AU
morning rise	2783 Nov 26 08:00	18° <b>™</b> 34'25		direct	2790 Aug 12 00:50	0° <b>∡</b> ¹42'51	
retrograde	2784 Feb 20 23:51	20°M26'23		evening set	2790 Nov 10 06:55	2° <b>∡</b> ³38′23	
opposition	2784 May 09 01:34		1°45'16				
min. Earth dist.	2784 May 09 21:47		29.35481 AU	conjunction	2790 Nov 25 18:06	3° ₹ 12'50	1°36'08
direct	2784 Jul 29 07:54	17°M39'55		minimum elong	2790 Nov 25 18:06	3° ₹ 12'50	
evening set	2784 Oct 27 17:26	19°M35'35	21 25400 177	max. Earth dist.	2790 Nov 24 22:59		31.35444 AU
max. Earth dist.	2784 Nov 11 09:26	20~IIL08'09 .	31.35480 AU	morning rise	2790 Dec 11 02:31	3° <b>×</b> <sup>7</sup> 47'05	
aanius -ti	2794 N 12 06 50	200m 10110	1020125	retrograde	2791 Mar 07 23:54	5° <b>×</b> <sup>7</sup> 39'30	1042114
conjunction	2784 Nov 12 06:58		1°38'35	opposition	2791 May 25 10:21	4°×717'39	
minimum elong	2784 Nov 12 06:57		1°38'35	min. Earth dist.	2791 May 26 04:55		29.35332 AU
morning rise	2784 Nov 27 17:35 2785 Feb 22 09:55	20°M44'29 22°M36'31		direct evening set	2791 Aug 14 14:54 2791 Nov 12 17:03	2° <b>х</b> 53′21 4° <b>х</b> 48′49	
retrograde	2103100 22 09.33	44 IIUJUJI		evening set	2//1 1NUV 12 1/.U3	7 7 4047	

Semination   1971   1975   1931   1	max. Earth dist.	2791 Nov 27 07:59	5° <b>∡</b> 721'24	31.34996 AU	min. Earth dist.	2798 Jun 10 10:58	19° <b>∡</b> 27'25	29.32466 AU
minimational moming intelling and proposition or 1970 Data 13 (2012) 68 1975/1976         1971 Data 13 (2012) 68 1975/1976         1971 Data 13 (2012) 68 1975/1976         1972 Data 13 (2012) 69 1975/1976         1972 Data 13 (2012) 69 1972/1976         1972 Data 13 (2012) 69 1					direct	2798 Aug 29 23:08	18° <b>∡</b> °04'11	
morning of crongande         CPA MAR OF ILL 181 (20)         SPA SPA SPA (20)         4978 (20)         1978 (20)         1978 (20)         2978 (20)         1978 (20)         2978 (20)         1978 (20)	conjunction	2791 Nov 28 03:47	5° <b>∡</b> ¹23'15	1°35'15	evening set	2798 Nov 27 12:34	19° <b>∡</b> 59'14	
Properties   1998 May 19   1156   1754   1	minimum elong	2791 Nov 28 03:47	5° <b>∡</b> ¹23'15	1°35'15				
	morning rise	2791 Dec 13 12:03	5° <b>∡</b> 757'29		conjunction	2798 Dec 12 21:14	20° <b>∡</b> ³33'36	1°25'22
sin. Earl dist.         2992 Nay 16 224         697 Page 12         9578 Page 23         293 Page 23         2970 Page 23         2973 Page	retrograde	2792 Mar 09 11:36	7° <b>∡</b> ¹49'57		minimum elong	2798 Dec 12 21:14	20° <b>∡</b> ³33'36	1°25'23
Series   292 Aug   1 0.239   5.9703   5.9703   5.9703   5.9703   6.9703	opposition	2792 May 26 22:06	6° <b>∡</b> ¹28'01	1°41'13	max. Earth dist.	2798 Dec 12 06:50	20° <b>∡</b> ³32'15	31.32276 AU
Second   1908   1909	min. Earth dist.	2792 May 27 16:24	6° <b>∡</b> 726'47	29.34841 AU	morning rise	2798 Dec 28 04:03	21° <b>₹</b> 07'48	
Conjunction	direct	2792 Aug 16 02:39	5° <b>₹</b> 03'42		retrograde	2799 Mar 25 09:30	23° <b>₹</b> 00'48	
Sequencian   1998 Nov 29   1321   7-83330   193114   continuement on   2799 Nov 28   1904   7-83148   31.3468 AU   continuement   2799 Nov 28   1904   7-83148   1900   continuement   2799 Nov 28   1904   27-8014   27-8	evening set	2792 Nov 14 02:49	6° <b>∡</b> 759′05		opposition	2799 Jun 12 09:29	21° <b>х</b> 38'40	1°30'12
Manimal elong					min. Earth dist.	2799 Jun 12 23:14	21° <b>х</b> 37'44	29.32231 AU
max Farth dist	conjunction	2792 Nov 29 13:21	7° <b>∡</b> ³33'30	1°34'14	direct	2799 Sep 01 09:02	20° <b>∡</b> 14'35	
Description   Computed   Comput	minimum elong	2792 Nov 29 13:21	7° <b>∡</b> ³33'30	1°34'14	evening set	2799 Nov 29 22:09	22° <b>҂</b> 109'37	
Perspection   19.50	max. Earth dist.	2792 Nov 28 19:04		31.34468 AU				
opposition in, Earth dist.         2799 May 2 0 09-56 (%) 87-87814   14/004 morning rise in, Earth dist.         2799 May 30 04-01 (%) 87-200 (%) 29.34287 AU morning rise (%) 290 May 2 0 20.3134   23.274919   12.800 May 2 0 20.3134   23.274919   12.800 May 2 0 20.3134   23.274919   12.800 May 2 0 20.3134   23.274818   23.000 May 2 0 20.01 m 1 2 2142   23.274819   23.000 May 2 0 20.01 m 1 2 2142   23.274819   23.000 May 2 0 20.01 m 1 2 2142   23.274819   23.000 May 2 0 20.00 m 1 2 2142   23.274819   23.000 May 2 0 20.00 m 1 2 2142   23.274819   23.000 May 2 0 20.00 m 1 2 2142   23.274819   23.000 May 2 0 20.00 m 1 2 2142   23.274819   23.000 May 2 0 20.00 m 1 2 2142   23.274819   23.000 May 2 0 20.00 m 1 2 2142   23.274819   23.000 May 2 0 20.00 m 1 2 2142   23.274819   23.000 May 2 0 20.00 m 1 2 2142   23.274819   23.000 May 2 0 20.00 m 1 2 2142   23.274819   23.000 May 2 0 20.00 m 1 2 2142   23.274819   23.000 May 2 0 20.00 m 1 2 2142   23.274819   23.000 May 2 0 20.00 m 1 2 2142   23.274819   23.000 May 2 0 20.00 m 1 2 2142   23.274819   23.000 May 2 0 20.00 m 1 2 2142   23.274819   23.000 May 2 0 20.00 m 1 2 2142   23.274819   23.000 May 2 0 20.00 m 1 2 2142   23.274819   23.000 May 2 0 20.00 m 1 2 2142   23.274819   23.000 May 2 0 20.00 m 1 2 2142   23.274819   23.000 May 2 0 20.00 m 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	morning rise	2792 Dec 14 21:13	8° <b>∡</b> 107'44		conjunction	2799 Dec 15 06:41	22° <b>∡</b> ⁴43'59	1°23'27
eints faith disc         2793 May 30 04-01         8°,93700         29.3487 AU         morning risc         2799 Dec 30 1315         23°,781811         - 1280 AU           cevening set         2793 Nov 16 1241         9°,78436         1°3305         direct         2800 Jun 13 12142         23°,74871         12°,74871	retrograde	2793 Mar 11 19:50	10° <b>∡</b> 00′13		minimum elong	2799 Dec 15 06:41	22° <b>∡¹</b> 43'59	1°23'27
Processing set   2793 Nov 16 1241   9°,270374   12305   293,274811   12305   293,27481   29	opposition	2793 May 29 09:56	8° <b>∡</b> ³38'14	1°40'04	max. Earth dist.	2799 Dec 14 17:36	22° <b>∡</b> ¹42'45	31.32019 AU
Perming set   1993 Nov 16 12:44   99-80912   1994 Nov 16 12:45   99-84396   19305	min. Earth dist.	2793 May 30 04:01	8° <b>∡</b> ³37′00	29.34287 AU	morning rise	2799 Dec 30 13:15	23° <b>∡</b> 18′11	
Conjunction   2793 Dec 01   2242   9°A3378   13305   2394   2200   2200   22°A2510   2793   280   2793   280   2793   280   2793   280   2793   280   2793   280	direct	2793 Aug 18 15:34	7° <b>∡</b> 13'54		retrograde	2800 Mar 26 20:51	25° <b>∡</b> 11'19	
Conjunction   1903   Dec 01 2242   99-84336   13304   vering set   2800 Dec 01 0748   247-2201   vering set   2700 Dec 01 0748   247-2201   vering set   2700 Dec 01 0748   247-2201   vering set   2703 Dec 17 0629   019-841748   vering set   2800 Dec 01 0748   247-8432   121214   vering set   2703 Dec 17 0629   109-841748   vering set   2800 Dec 16 15:56   247-85432   121215   vering set   2704 May 31 21:43   109-84817   183466   max. Earth dist   2800 Dec 16 15:56   247-85432   121215   vering set   2704 May 21 03:19   109-84817   183466   max. Earth dist   2800 Dec 16 15:56   247-85432   121215   vering set   2704 May 21 03:19   99-82356   vering set   2704 Nov 18 22:12   117-81909   vering set   2704 Nov 18 22:13   117-85133   13148   vering set   2704 Dec 04 08:05   117-85333   13148   vering set   2704 Dec 04 18:05   117-85133   13148   vering set   2704 Dec 04 18:05   117-85133   13148   vering set   2704 Dec 04 18:05   127-82704   vering set   2705 Jun 04 02:27   127-85705   233318 AU   vering set   2705 Jun 04 02:27   127-85705   233318 AU   vering set   2705 Jun 04 02:27   127-85705   233318 AU   vering set   2705 Jun 04 02:27   127-85705   233318 AU   vering set   2705 Jun 04 02:27   127-85705   230336 AU   vering set   2705 Jun 04 02:21   127-85705   230336 AU   vering set   2705 Jun 04 02:21   127-85705   230336 AU   vering set   2705 Jun 04 02:21   147-80326   13023   vering set   2705 Jun 04 02:21   147-80326   13023   vering set   2705 Jun 04 02:21   157-8018   vering set	evening set	2793 Nov 16 12:41	9° <b>∡</b> 09'12		opposition	2800 Jun 13 21:42	23° <b>∡</b> ¹49'10	1°28'04
minimum clong   max. Earth dist.   2793 Dec 01 0424   9°.84378   1°3304   vecining size   2793 Dec 17 06.29   10°.84174   31.3927 AU   morning rise   2794 Mar 14 06.11   12°.84102   morning rise   2794 Mar 14 06.11   12°.84102   morning rise   2794 Mar 14 06.11   12°.84102   10°.84478   29.3370 AU   minimum clong   2794 Mar 14 06.11   12°.84102   10°.84478   29.3370 AU   minimum clong   2794 Mar 14 06.11   12°.84102   10°.84478   29.3370 AU   morning rise   2800 Dec 16 12.23   25°.82581   131.670 AU   minimum clong   2794 Mar 14 06.11   12°.84108   29.3370 AU   morning rise   2800 Dec 31 12.20   25°.82581   12°.820   morning rise   2800 Dec 31 12.20   25°.82581   12°.820   morning rise   2794 Nov 18 22.12   11°.841909   morning rise   2800 Dec 31 12.20   25°.82591   12°.850   minimum clong   2794 Dec 04 08.05   11°.85333   13148   dicet   2801 Jun 16 10.04   25°.83951   29.31527 AU   minimum clong   2794 Dec 04 08.05   11°.85333   13148   dicet   2795 Mar 16 10.09   12°.22   28°.87051   29.31527 AU   dicet   2795 Jun 04 09.27   12°.8518   13.3437 AU   dicet   2795 Jun 04 09.27   12°.8518   13.3437 AU   dicet   2795 Jun 04 09.27   12°.8518   13.3437 AU   dicet   2795 Jun 04 09.27   12°.85103   14°.8200   max. Earth dist   2801 Dec 18 13.24   27°.8015   14°1915   14°.8016   13°.8200   28°.84142   27°.8016   13°.24   27°.					min. Earth dist.	2800 Jun 14 10:32	23° <b>∡</b> ⁴48'18	29.31924 AU
max. Earth dist.         2793 Dec 17 06-29         10°8714'8         conjunction         2800 Dec 16 15:56         24°85432         1°212'15           retrograde         2794 May 31 21:43         10°874'178         minimum elong         2800 Dec 16 15:56         24°85432         1°212'15           opposition         2794 May 31 21:43         10°874'878         23.3370 AU         max. Earth dist.         2800 Dec 16 02:24         24°85432         1°212'5           direct         2794 Aug 21 03:19         98°82'356         23.3370 AU         merograde         2801 Mar 29 09:37         27°82'200         22°82'84'5           devening set         2794 Dec 04 08:05         11°85'333         1°3148         direct         2801 Jun 16 22:25         25°85'951         1255'05           minimum clong         2794 Dec 04 08:05         11°85'333         1°3148         direct         2801 Dec 19 01:27         27°80'51         1255'05           max. Earth dist.         2794 Dec 04 08:05         11°85'333         1°3148         direct         2801 Dec 19 01:27         27°80'51         1°915'05           retrograde         2795 Dec 06 15:21         14°80'20         minimum clong         2801 Dec 19 01:27         27°80'51         1°914'1           opposition         2795 Jun 04 02:21         12°85'814 <th< td=""><td>conjunction</td><td>2793 Dec 01 22:42</td><td>9°<b>∡¹</b>43'36</td><td>1°33'05</td><td>direct</td><td>2800 Sep 02 22:02</td><td>22°<b>渘</b>¹25′10</td><td></td></th<>	conjunction	2793 Dec 01 22:42	9° <b>∡¹</b> 43'36	1°33'05	direct	2800 Sep 02 22:02	22° <b>渘</b> ¹25′10	
morning rise	minimum elong	2793 Dec 01 22:42	9° <b>∡</b> ¹43'36	1°33'04	evening set	2800 Dec 01 07:48	24° <b>∡</b> ¹20'11	
Petrograde	max. Earth dist.	2793 Dec 01 04:04	9° <b>∡</b> 141'51	31.33927 AU				
opposition         2794 May 31 21429         10% 24817         13846         max. Earth dist.         2800 Dec 16 02.24         24% 37316         31.31670 AU           min. Earth dist.         2794 Jun 0 11 4429         10% 24708         29.33770 AU         morning rise         2800 Dec 31 22.30         25% 2845         18           evening set         2794 Nov 18 22:12         11 28 1909         opposition         2801 Jun 16 10:04         25% 39591         12550           eonjunction         2794 Dec 04 08:05         11 28 5333         13148         direct         2801 Jun 16 10:04         25% 39591         29.31527 AU           eonjunction         2794 Dec 04 08:05         11 28 5333         13148         direct         2801 Jun 16 02:25         25% 3951         29.31527 AU           morning rise         2794 Dec 19 15:30         11 28 2333         13148         cening set         2801 Dec 19 01:27         27% 30514         11915           retrograde         2795 Jun 03 09:37         12 28 5814         13722         minimum elong         2801 Dec 18 13:24         27% 30514         11915           retrograde         2795 Jun 03 09:37         12 28 5814         13722         certrograde         2800 Dec 18 13:24         27% 30784         1919 14         28% 3052         28.32450         29.32452 </td <td>morning rise</td> <td>2793 Dec 17 06:29</td> <td>10°<b>∡</b>17'48</td> <td></td> <td>conjunction</td> <td>2800 Dec 16 15:56</td> <td>24°<b>∡</b>°54'32</td> <td>1°21'24</td>	morning rise	2793 Dec 17 06:29	10° <b>∡</b> 17'48		conjunction	2800 Dec 16 15:56	24° <b>∡</b> °54'32	1°21'24
Imm. Earth dist.         2794 Jun 21 0.319         10%,24708         29.33700 AU         memoring rise         2800 Dec 31 22:30         25%,28781         1295200           cevening set         2794 Nov 18 22:12         11%,21909         retrograde         2801 Jun 16 10:00         25%,35%91         129520 Dec 30 30:39         29%,35%91         129520 Dec 30 30:39         29,31527 AU           conjunction         2794 Dec 04 08:05         11%,53333         13148         evening set         2801 Dec 03 17:22         26%,355%91         29,31527 AU           minimum elong         2794 Dec 04 08:05         11%,55333         13148         evening set         2801 Dec 03 17:22         26%,355%91         1918           max. Earth dist.         2794 Dec 04 15:30         12%,27845         313,3437 AU         minimum elong         2801 Dec 19 01:27         27%,0515         19114           retrograde         2795 Mar 16 15:08         14%,2020         minimum elong         2801 Dec 19 01:27         27%,0515         19114         299,000         190272         27%,000         31,12940         minimum elong         2801 Dec 19 01:27         27%,0515         19114         29%,000         29,30922         20         19 01:27         27%,0515         191914         29%,000         29,73019         19 1912         27%,000         3	retrograde	2794 Mar 14 06:11	12° <b>∡</b> 10′20		minimum elong	2800 Dec 16 15:56	24° <b>҂</b> ¹54'32	1°21'25
evening set         2794 Aug 21 0.319         97-2356         retrograde         2801 Mar 29 09:37         727-2200         revening set         279 Nov 18 2:12         11°-27190         opposition         2801 Jun 16 10:04         25°-275901         192570 AU           conjunction         2794 Dec 04 08:05         11°-275133         13°148         direct         2801 Duc 16 20:25         25°-27901         29.31527 AU           minimum clong         2794 Dec 04 08:05         11°-275185         313487 AU         revening set         2801 Dec 09 01:27         22°-20514         19°1516         19°171         27°-20514         19°191 <td< td=""><td>opposition</td><td>2794 May 31 21:43</td><td>10°<b>∡</b>¹48'17</td><td>1°38'46</td><td>max. Earth dist.</td><td>2800 Dec 16 02:24</td><td>24°<b>∡</b>753′16</td><td>31.31670 AU</td></td<>	opposition	2794 May 31 21:43	10° <b>∡</b> ¹48'17	1°38'46	max. Earth dist.	2800 Dec 16 02:24	24° <b>∡</b> 753′16	31.31670 AU
conjunction         2794 Nov 18 22:12         11°×7190°         opposition         2801 Jun 16 10:04         25°×75'951         12°25'0           conjunction         2794 Dec 04 08:05         11°×75'33         1°31'48         direct         2801 Jun 16 2:25         25°×75'951         29.31527 AU           minimum clong         2794 Dec 04 08:05         11°×75'333         1°31'48         evening set         2801 Dec 03 17:22         26°×30'35	min. Earth dist.	2794 Jun 01 14:29	10° <b>∡</b> ¹47'08	29.33770 AU	morning rise	2800 Dec 31 22:30	25° <b>∡</b> ¹28'45	
conjunction         2794 Dec 04 08.05         11 % 5333         1°3148         direct         2801 Jun 16 22.25         25 % 5901         29.31527 AU           minimum elong         2794 Dec 04 08.05         11 % 5333         1°3148         direct         2801 Dec 05 08.88         24 % 37.55         4 % 37.55           max. Earth dist.         2794 Dec 04 08.05         11 % 5333         1°3148         evening set         2801 Dec 03 17.22         26 % 30°3         4 % 31°20           minimum elong         2794 Dec 19 15.30         12 % 27*45         conjunction         2801 Dec 19 01.27         27 % 05115         1°1916           opposition         2795 Jun 03 09.37         12 % 5705         29.33318 AU         minimum elong         2801 Dec 18 13:24         27 % 04/07         31.31209 AU           direct         2795 Jun 04 02.27         12 % 5705         29.33318 AU         morning rise         2802 Jun 18 22.29         28 % 1079         29.3236           evening set         2795 Nov 21 07:54         13 % 2904         19 0903         direct         2802 Jun 18 22.29         28 % 1079         29.30992 AU           direct         2795 Nov 22 07:55         13 % 2904         19 0903         direct         2802 Jun 18 22.29         28 % 1079         29.30992 AU           direct         2795 No	direct	2794 Aug 21 03:19	9° <b>∡¹</b> 23'56		retrograde	2801 Mar 29 09:37	27° <b>∡</b> ¹22'00	
conjunction         2794 Dec 04 08:05         11°×5'333         1°31'48         direct         2801 Sep 05 08:58         24°×3'55'4	evening set	2794 Nov 18 22:12	11° <b>∡</b> 19′09		opposition	2801 Jun 16 10:04	25° <b>₹</b> 59'51	1°25'50
minimum elong max. Earth dist. morning rise         2794 Dec 04 08:05         11° x5333         1°3148         evening set         2801 Dec 03 17:22         26° x3053					min. Earth dist.	2801 Jun 16 22:25	25° <b>₹</b> ′59'01	29.31527 AU
max. Earth dist.         2794 Dec 03 15:13         11°\$5158         31.3437 AU         conjunction         2801 Dec 19 01:27         27°\$05114         1°1915         1°1915         1°1915         1°1915         1°1915         1°1916         1°1915         1°1916 <td>conjunction</td> <td>2794 Dec 04 08:05</td> <td>11°<b>∡</b>753'33</td> <td>1°31'48</td> <td>direct</td> <td>2801 Sep 05 08:58</td> <td>24°<b>⋌</b>¹35'54</td> <td></td>	conjunction	2794 Dec 04 08:05	11° <b>∡</b> 753'33	1°31'48	direct	2801 Sep 05 08:58	24° <b>⋌</b> ¹35'54	
moming rise         2794 Dec 19 15:30         12°×27245         conjunction         2801 Dec 19 01:27         27°×3051         19°15           retrograde         2795 Mar 16 15:08         14°×2020         minimum clong         2801 Dec 19 01:27         27°×3051         12°µ5811         12°µ58705         29.3318 AU         minimum clong         2801 Dec 19 01:27         27°×3057         31.3120 AU           min. Earth dist.         2795 Jun 04 02:27         12°×35705         29.33318 AU         morning rise         2802 Jun 03 07·45         27°×3928         31.3120 AU           direct         2795 Nov 21 07:54         13°×2904         029.0992 AU         2802 Jun 19 10:41         28°×3039         12°328           conjunction         2795 Dec 06 17:21         14°×0326         1°3023         direct         2802 Dec 06 03:00         28°×3103         1°2328           minimum clong         2795 Dec 06 17:21         14°×30326         1°3022         cevening set         2802 Dec 06 03:00         28°×3143         1°1658           retrograde         2795 Dec 20 17:21         14°×30326         1°3022         cevening set         2802 Dec 21 10:46         29°×1603         1°1658           retrograde         2795 Dec 06 17:21         14°×3738         min Earth dist.         2802 Dec 21 10:44         29°×31603	minimum elong	2794 Dec 04 08:05	11° <b>∡</b> 53′33	1°31'48	evening set	2801 Dec 03 17:22	26° <b>х</b> 30′53	
retrograde 2795 Mar 16 15.08 143 2020 minimum elong 2801 Dec 19 01:27 27 20515 1°1914 opposition 2795 Jun 03 09:37 123 5814 1°3720 max. Earth dist. 2801 Dec 18 13:24 27° 2007 31.31209 AU minimum elong 2795 Aug 23 14:39 11°273354 retrograde 2802 Jan 03 07:45 27° 27° 39° 28 25° 10° 21° 25° 20° 21° 25° 20° 21° 25° 20° 21° 25° 20° 21° 25° 20° 21° 20° 20° 21° 20° 20° 21° 20° 20° 21° 20° 20° 21° 20° 20° 20° 20° 20° 20° 20° 20° 20° 20	max. Earth dist.	2794 Dec 03 15:13		31.33437 AU				
Poposition   2795 Jun 03 09:37   12° ₹5814   1°37'20   max. Earth dist.   2801 Dec 18 13:24   27° ₹0407   31.31209 AU min. Earth dist.   2795 Jun 04 02:27   12° ₹5705   29.33318 AU morning rise   2802 Jun 03 07:45   27° ₹3928   27° ₹3928   27° ₹3928   27° ₹3928   27° ₹3928   27° ₹3928   27° ₹3928   27° ₹3928   28° ₹3029   28	Č	2794 Dec 19 15:30	12° <b>∡</b> °27'45		conjunction	2801 Dec 19 01:27	27° <b>₹</b> 05'14	1°19'15
min. Earth dist. 2795 Jun 04 02:27    12° ₹5705   29.33318 AU   morning rise   2802 Jan 03 07:45   27° ₹39928   direct   2795 Aug 23 14:59   11° ₹33534   retrograde   2802 Mar 31 19:15   29° ₹3520   29.3992 AU   29° ₹3520	retrograde	2795 Mar 16 15:08	14° <b>₹</b> ′20′20		minimum elong	2801 Dec 19 01:27	27° <b>₹</b> 05'15	1°19'14
direct         2795 Aug 23 14:59         11° \$\tilde{X}33'54\$         retrograde         2802 Mar 31 19:15         29° \$\tilde{X}3'55\$         29° \$\tilde{X}3'25\$         29° \$\tilde{X}3'25\$         28° \$\tilde{X}1'55\$         10° \$\tilde{X}3'25\$         2800 Jun 18 2:29         28° \$\tilde{X}1'55\$         28° \$\tilde{X}1'55\$         29.3092 AU           conjunction         2795 Dec 06 17:21         14° \$\tilde{X}0'3'26\$         1°30'22         evening set         2802 Dec 06 03:00         28° \$\tilde{X}4'14\$         28° \$\tilde{X}6'14*         28° \$\tilde{X}6'14*         28° \$\tilde{X}6'14*         28° \$\tilde{X}6'14*         28° \$\tilde{X}6'14*         28° \$\tilde{X}6'14*         2802 Dec 06 03:00         28° \$\tilde{X}4'14*         28° \$\tilde{X}6'14*         16° \$\tilde{X}6'14*         28° \$\tilde{X}6'14*         28° \$\tilde{X}6'10*         18° \$\tilde{X}6'14*         18° \$\tilde{X}6'14*         28° \$\tilde{X}6'10*         29° \$\tilde{X}6'10*         18° \$\tilde{X}6'14*         1	opposition		12° <b>∡</b> 58'14	1°37'20		2801 Dec 18 13:24	27° <b>∡</b> 104'07	31.31209 AU
evening set         2795 Nov 21 07:54         13°\$2904         opposition         2802 Jun 18 22:29         28°\$1039         1°23'28           conjunction         2795 Dec 06 17:21         14°\$03'26         1°30'23         direct         2802 Jun 19 10.41         28°\$70'95         29.30992 AU           conjunction         2795 Dec 06 17:21         14°\$03'26         1°30'22         evening set         2802 Dec 06 03:00         28°\$41'42	min. Earth dist.		12° <b>∡</b> 57′05	29.33318 AU	2	2802 Jan 03 07:45	27° <b>х</b> 39'28	
Conjunction   2795 Dec 06 17:21   14°×0326   1°30'23   direct   2802 Sep 07 21:25   26°×46'46   minimum elong   2795 Dec 06 17:21   14°×0326   1°30'22   evening set   2802 Dec 06 03:00   28°×41'42   max. Earth dist.   2795 Dec 06 00:39   14°×03'25   31.33043 AU   morning rise   2795 Dec 02 20:41   14°×03'25   31.33043 AU   morning rise   2795 Dec 22 00:41   14°×03'78   conjunction   2802 Dec 21 10:46   29°×16'03   1°16'58   evening set   2796 Mar 18 01:20   16°×30'18   minimum elong   2802 Dec 21 10:46   29°×16'03   1°16'59   evening set   2796 Mar 18 01:20   15°×08'10   13°545   max. Earth dist.   2803 Jan 05 17:11   29°×16'03   1°16'59   evening set   2796 Nov 22 17:30   15°×39'00   retrograde   2803 Jan 05 17:11   29°×16'03   1°16'59   evening set   2796 Nov 22 17:30   15°×39'00   retrograde   2803 Jan 10 03:56   0°G   evening set   2796 Dec 07 11:10   16°×11'54   31.32736 AU   mini. Earth dist.   2796 Dec 08 02:44   16°×13'22   1°28'51   direct   2803 Jan 10 03:56   0°G   0°G   evening set   2796 Dec 08 02:44   16°×13'22   1°28'51   direct   2803 Jan 10 03:56   0°G   0°G   evening set   2796 Dec 23 09:47   16°×13'22   1°28'51   direct   2803 Jan 10 03:56   0°G   0°G   evening set   2796 Dec 23 09:47   16°×13'22   1°28'51   direct   2803 Jan 10 03:56   0°G   0°G   evening set   2796 Dec 23 09:47   16°×13'22   1°28'51   direct   2803 Jan 10 03:56   0°G   0°G   evening set   2797 Mar 20 11:06   16°×13'22   1°28'51   direct   2803 Jan 21 02:01   0°G 20'47   16°×13'22   1°28'51   evening set   2803 Dec 08 12:32   0°G 52'33   evening set   2797 Jan 07 09:27   17°×18'11   1°34'02   evening set   2803 Dec 08 12:32   0°G 52'52   1°14'35   evening set   2797 Jan 07 09:27   17°×18'11   1°34'02   evening set   2797 Jan 07 09:27   17°×18'11	direct	Č			~			
Conjunction   2795 Dec 06   17:21   14° x³03'26   1°30'23   direct   2802 Sep 07   21:25   26° x³46'46   evening set   2802 Dec 06   03:00   28° x³41'42   evening rise   2795 Dec 06   03:00   28° x³41'42   evening rise   2795 Dec 06   03:00   28° x³41'42   evening rise   2795 Dec 02   00:41   14° x³3'3'38   minimum elong   2802 Dec 21   10:46   29° x³16'03   1°16'58   eretrograde   2796 Mar 18   01:20   16° x³30'18   minimum elong   2802 Dec 21   10:47   29° x³16'03   1°16'59   evening set   2796 Jun 04   21:21   15° x³08'10   1°35'45   max. Earth dist.   2802 Dec 20   22:07   29° x³14'52   31.30613 AU   min. Earth dist.   2796 Jun 05   12:18   15° x³08'10   1°35'45   max. Earth dist.   2802 Dec 20   22:07   29° x³14'52   31.30613 AU   min. Earth dist.   2796 Nov 22   17:30   15° x³39'00   retrograde   2803 Jan   05   17:11   29° x³ 50'18   evening set   2796 Nov 22   17:30   15° x³39'00   retrograde   2803 Jun   21   10:51   0° 32'132   1°20'58   min. Earth dist.   2803 Jun   21   10:51   0° 32'132   1°20'58   min. Earth dist.   2803 Jun   21   10:51   0° 32'132   1°20'58   min. Earth dist.   2803 Jun   21   22:01   0° 32'132   1°20'58   min. Earth dist.   2803 Jun   21   22:01   0° 32'132   1°20'58   min. Earth dist.   2803 Jun   21   22:01   0° 32'132   1°20'58   min. Earth dist.   2803 Jun   21   22:01   0° 32'132   1°20'58   min. Earth dist.   2803 Jun   21   22:01   0° 32'132   1°20'58   retrograde   2796 Dec 08   02:44   16° x³13'22   1°28'51   direct   2803 Sep 10   09:35   28° x³5'140   1° 32'132   1°20'58   retrograde   2797 Mar   20   11:06   18° x³40'20   evening set   2803 Dec   23   20:16   1° 32'65   1° 14'35   1° 1	evening set	2795 Nov 21 07:54	13° <b>∡</b> ¹29'04		**			
minimum elong max. Earth dist.  2795 Dec 06 07:21								29.30992 AU
max. Earth dist. morning rise 2795 Dec 06 00:39 14° ₹01'52 31.33043 AU morning rise 2795 Dec 22 00:41 14° ₹37'38 conjunction 2802 Dec 21 10:46 29° ₹16'03 1°16'58 2796 Jun 04 21:21 15° ₹08'10 1°35'45 max. Earth dist. 2796 Jun 05 12:18 15° ₹07'09 29.32966 AU morning rise 2803 Jan 05 17:11 29° ₹16'03 1°16'59 29.32966 AU morning rise 2803 Jan 05 17:11 29° ₹16'03 1°16'59 29.32966 AU morning rise 2803 Jan 10 03:56 0° ₹ 2803 Jan 10 03:56 0° ₹ 2803 Jan 20 03:56 280								
morning rise 2795 Dec 22 00:41 14° x³ 3738   conjunction 2802 Dec 21 10:46 29° x³ 16'03 1° 16'58 retrograde 2796 Mar 18 01:20 16° x³ 30'18   minimum elong 2802 Dec 21 10:47 29° x³ 16'03 1° 16'59 opposition 2796 Jun 04 21:21 15° x³ 08'10 1° 35'45   max. Earth dist. 2802 Dec 20 22:07 29° x³ 14'52 31.30613 AU min. Earth dist. 2796 Jun 05 12:18 15° x³ 08'10 1° 35'45   morning rise 2803 Jan 10 03:56 0° 5 evening set 2796 Nov 22 17:30 15° x³ 08'10 16° x³ 11'54 31.32736 AU opposition 2803 Jun 21 10:51 0° 52'132 1° 20'58 max. Earth dist. 2796 Dec 07 11:10 16° x³ 11'54 31.32736 AU opposition 2803 Jun 21 10:51 0° 52'132 1° 20'58 min. Earth dist. 2803 Jun 21 22:01 0° 52'047 29.30320 AU conjunction 2796 Dec 08 02:44 16° x³ 13'22 1° 28'51 direct 2803 Sep 10 09:35 28° x³ 57'40 morning rise 2796 Dec 23 09:47 16° x³ 48'734 20 evening set 2796 Dec 23 09:47 16° x³ 48'734 20 evening set 2797 Mar 20 11:06 18° x³ 49'02 evening set 2797 Jun 07 09:27 17° x³ 18'11 1° 34'02 min. Earth dist. 2797 Jun 08 00:35 17° x³ 18'11 1° 34'02 min. Earth dist. 2797 Jun 08 00:35 17° x³ 18'11 1° 34'02 min. Earth dist. 2797 Nov 25 02:57 17° x³ 49'02 max. Earth dist. 2803 Dec 23 20:16 1° 52'55 1° 14'35 evening set 2797 Nov 25 02:57 17° x³ 49'02 max. Earth dist. 2803 Dec 23 20:16 1° 52'551 12'95'51 20 19 10 11:55 18° x³ 23'24 1° 27'10 ertograde 2804 Jun 22 23:21 2° 53'226 1° 18'22 max. Earth dist. 2797 Dec 09 21:14 18° x³ 23'24 1° 27'10 opposition 2804 Jun 22 23:21 2° 53'226 1° 18'22 max. Earth dist. 2797 Dec 09 21:14 18° x³ 23'24 1° 27'10 opposition 2804 Jun 22 23:21 2° 53'226 1° 18'22 max. Earth dist. 2797 Dec 09 21:14 18° x³ 23'24 1° 27'10 opposition 2804 Jun 23 10:56 2° 53'13'9 29.29507 AU morning rise 2797 Dec 25 18:50 18° x³ 23'24 1° 27'10 opposition 2804 Jun 23 10:56 2° 53'13'9 29.29507 AU morning rise 2797 Dec 25 18:50 18° x³ 23'24 1° 27'10 opposition 2804 Jun 23 10:56 2° 53'13'9 29.29507 AU morning rise 2797 Dec 25 18:50 18° x³ 23'24 1° 27'10 opposition 2804 Jun 23 10:56 2° 53'13'9 29.29507 AU morning rise 2797 Dec 25 18:50 18° x³ 23'24 1° 27'1					evening set	2802 Dec 06 03:00	28° <b>∡</b> ⁴41'42	
retrograde 2796 Mar 18 01:20 16° ₹30'18 minimum elong 2802 Dec 21 10:47 29° ₹16'03 1°16'59 opposition 2796 Jun 04 21:21 15° ₹08'10 1°35'45 max. Earth dist. 2802 Dec 20 22:07 29° ₹14'52 31.30613 AU min. Earth dist. 2796 Jun 05 12:18 15° ₹0'70'9 29.32966 AU morning rise 2803 Jan 05 17:11 29° ₹50'18 evening set 2796 Nov 22 17:30 15° ₹39'00 retrograde 2803 Apr 03 06:50 1° ₹34'55 evening set 2796 Nov 22 17:30 15° ₹39'00 opposition 2803 Jun 21 10:51 0° ₹21'32 1°20'58 min. Earth dist. 2803 Jun 21 10:51 0° ₹21'32 1°20'58 min. Earth dist. 2803 Jun 21 10:51 0° ₹21'32 1°20'58 min. Earth dist. 2803 Jun 21 12:51 0° ₹30'04 29.30320 AU conjunction 2796 Dec 08 02:44 16° ₹13'22 1°28'51 direct 2803 Sep 10 09:35 28° ₹57'40 evening set 2796 Dec 23 09:47 16° ₹47'34 evening set 2796 Tun 07 09:27 17° ₹18'10 1°34'02 evening set 2797 Jun 07 09:27 17° ₹18'11 1°34'02 evening set 2797 Jun 08 00:35 17° ₹17'09 29.32697 AU direct 2803 Dec 23 20:16 1° ₹02'55 1°14'35 evening set 2797 Nov 25 02:57 17° ₹49'02 ending rise 2797 Nov 25 02:57 17° ₹49'02 ending rise 2797 Dec 10 11:55 18° ₹23'24 1°27'10 opposition 2804 Jun 08 02:27 2° ₹01'09 ending rise 2797 Dec 25 18:50 18° ₹23'24 1°27'10 opposition 2804 Jun 02 23:21 2° ₹30'32 1°16'30'35 evening rise 2797 Dec 25 18:50 18° ₹25'36 18° ₹25'36 evening set 2797 Dec 25 18:50 18° ₹25'36 18° ₹25'36 evening set 2797 Dec 25 18:50 18° ₹25'36 18° ₹25'36 evening set 2797 Dec 25 18:50 18° ₹25'36 18° ₹25'36 evening set 2797 Dec 25 18:50 18° ₹25'36 18° ₹25'36 evening set 2797 Dec 25 18:50 18° ₹25'36 18° ₹25'36 evening set 2797 Dec 25 18:50 18° ₹25'36 18° ₹25'36 evening set 2797 Dec 25 18:50 18° ₹25'36 18° ₹25'36 1909 evening set 2797 Dec 25 18:50 18° ₹25'36 18° ₹25'36 1909 evening set 2797 Dec 25 18:50 18° ₹25'36 18° ₹25'36 1909 evening set 2797 Dec 25 18:50 18° ₹25'36 18° ₹25'36 1909 evening set 2797 Dec 25 18:50 18° ₹25'36 18° ₹25'36 1909 evening set 2797 Dec 25 18:50 18° ₹25'36 18° ₹25'36 1909 evening set 2797 Dec 25 18:50 18° ₹25'36 18° ₹25'36 1909 evening set 2797 Dec 25 18:50 18° ₹25'36 18° ₹25'36 18° ₹25'36				31.33043 AU			_	
poposition 2796 Jun 04 21:21 15° \$\times 08'10 1°35'45 max. Earth dist. 2802 Dec 20 22:07 29° \$\times 14'52 31.30613 AU min. Earth dist. 2796 Jun 05 12:18 15° \$\times 07'09 29.32966 AU morning rise 2803 Jan 05 17:11 29° \$\times 50'18 cevening set 2796 Nov 22 17:30 15° \$\times 39'00 retrograde 2803 Jan 10 03:56 0° \$\times 6.50 1° \$\times 43'45 cevening set 2796 Dec 07 11:10 16° \$\times 11'54 31.32736 AU poposition 2803 Jun 21 10:51 0° \$\times 21'32 1° 20'58 min. Earth dist. 2803 Jun 21 10:51 0° \$\times 21'32 1° 20'58 min. Earth dist. 2803 Jun 21 10:51 0° \$\times 21'32 1° 20'58 min. Earth dist. 2803 Jun 21 10:51 0° \$\times 21'32 1° 20'58 min. Earth dist. 2803 Jun 21 10:51 0° \$\times 21'32 1° 20'58 min. Earth dist. 2803 Jun 21 10:51 0° \$\times 21'32 1° 20'58 min. Earth dist. 2803 Jun 21 10:51 0° \$\times 21'32 1° 20'58 min. Earth dist. 2803 Jun 21 10:51 0° \$\times 21'32 1° 20'58 min. Earth dist. 2803 Jun 21 10:51 0° \$\times 21'32 1° 20'58 min. Earth dist. 2803 Jun 21 10:51 0° \$\times 21'32 1° 20'58 min. Earth dist. 2803 Jun 21 10:51 0° \$\times 21'32 1° 20'58 min. Earth dist. 2796 Dec 08 02:44 16° \$\times 13'22 1° 28'51 direct 2803 Nov 12 18:49 0° \$\times 13'22 1° 28' \$\times 13'22 1° 28'51 direct 2803 Nov 12 18:49 0° \$\times 13'22 1° 28' 18'11 1° 34'02 min. Earth dist. 2797 Jun 07 09:27 17° \$\times 18'11 1° 34'02 min. Earth dist. 2797 Aug 27 12:15 15° \$\times 15' \$\t	C				v			
min. Earth dist. 2796 Jun 05 12:18	•							
direct 2796 Aug 25 02:09 13° ₹43'53								31.30613 AU
evening set				29.32966 AU	morning rise			
max. Earth dist. 2796 Dec 07 11:10 16° ×11'54 31.32736 AU opposition 2803 Jun 21 10:51 0° ゼ21'32 1°20'58 min. Earth dist. 2803 Jun 21 22:01 0° ゼ20'47 29.30320 AU conjunction 2796 Dec 08 02:44 16° ×13'22 1°28'51 2803 Jul 04 21:25 30° R× 20'57'40 minimum elong 2796 Dec 08 02:44 16° ×13'22 1°28'51 direct 2803 Sep 10 09:35 28° ×75'740 morning rise 2796 Dec 23 09:47 16° ×74'734 2803 Nov 12 18:49 0° ゼ retrograde 2797 Mar 20 11:06 18° ×740'20 evening set 2797 Jun 07 09:27 17° ×718'11 1°34'02 min. Earth dist. 2797 Jun 08 00:35 17° ×717'09 29.32697 AU conjunction 2803 Dec 23 20:16 1° ゼ26'55 1°14'35 direct 2797 Aug 27 12:15 15° ×753'58 minimum elong 2803 Dec 23 20:16 1° ゼ26'55 1°14'35 evening set 2797 Nov 25 02:57 17° ×749'02 minimum elong 2804 Jun 08 02:27 2° ゼ01'09 conjunction 2797 Dec 10 11:55 18° ×723'24 1°27'10 opposition 2804 Jun 22 23:21 2° ゼ30'26 1°18'22 max. Earth dist. 2797 Dec 09 21:14 18° ×723'24 1°27'10 opposition 2804 Jun 22 23:21 2° ゼ30'35 1°18'22 max. Earth dist. 2797 Dec 25 18:50 18° ×757'36 direct 2804 Sep 11 21:52 1° Ծ08'35 retrograde 2798 Mar 22 22:02 20° ×750'29 evening set 2804 Dec 09 22:06 3° ゼ08'35 1° Ծ08'35 retrograde 2798 Mar 22 22:02 20° ×750'29 evening set 2804 Dec 09 22:06 3° Ծ03'23 1° 50'58 1° 50'30'32 1° 50'58 1° 50'30'32 1° 50'30'32 1° 50'30'30'32 1° 50'30'30'32 1° 50'30'30'32 1° 50'30'30'30'30'30'30'30'30'30'30'30'30'30		-						
min. Earth dist.   2803 Jun 21 22:01   0°号20'47 29:30320 AU conjunction   2796 Dec 08 02:44   16° 13'22 1°28'51   2803 Jul 04 21:25 30°R 10 09:35 28° 157'40   2803 Nov 12 18:49 10°35   1°14'35	•				•	•		
Conjunction   2796 Dec 08 02:44   16° x 13'22 1°28'51   direct   2803 Jul 04 21:25   30° R x     minimum elong   2796 Dec 08 02:44   16° x 13'22 1°28'51   direct   2803 Sep 10 09:35   28° x 57'40     morning rise   2796 Dec 23 09:47   16° x 47'34   evening set   2803 Nov 12 18:49   0° d     retrograde   2797 Mar 20 11:06   18° x 40'20   evening set   2803 Dec 08 12:32   0° d 52'33     opposition   2797 Jun 07 09:27   17° x 18'11 1°34'02     min. Earth dist.   2797 Jun 08 00:35   17° x 17'99   29.32697 AU   conjunction   2803 Dec 23 20:16   1° d 26'55 1°14'35     direct   2797 Aug 27 12:15   15° x 53'58   minimum elong   2803 Dec 23 20:16 1° d 26'55 1°14'35     evening set   2797 Nov 25 02:57   17° x 49'02   max. Earth dist.   2803 Dec 23 08:55 1° d 25'51   31.29868 AU     morning rise   2797 Dec 10 11:55   18° x 23'24 1°27'10   retrograde   2804 Jun 08 02:27 2° d 30'54     morning rise   2797 Dec 09 21:14   18° x 22'01 31.32504 AU   min. Earth dist.   2804 Jun 22 23:21 2° d 32'26 1° 18'22     retrograde   2798 Mar 22 22:02   20° x 50'29   evening set   2804 Dec 09 22:06 3° d 30'23     retrograde   2798 Mar 22 22:02   20° x 50'29   evening set   2804 Dec 09 22:06 3° d 30'23     retrograde   2798 Mar 22 22:02   20° x 50'29   evening set   2804 Dec 09 22:06 3° d 30'23	max. Earth dist.	2796 Dec 07 11:10	16° <b>∡</b> ′11'54	31.32736 AU	* *			
minimum elong 2796 Dec 08 02:44 16° \$\frac{1}{3}\$'13'22 1°28'51 direct 2803 Sep 10 09:35 28° \$\frac{1}{3}\$'14'0 morning rise 2796 Dec 23 09:47 16° \$\frac{1}{3}\$'47'34 evening set 2803 Nov 12 18:49 0° \$\frac{1}{3}\$'34'0 20 poposition 2797 Jun 07 09:27 17° \$\frac{1}{3}\$18'11 1°34'02 min. Earth dist. 2797 Jun 08 00:35 17° \$\frac{1}{3}\$18'11 1°34'02 minimum elong 2803 Dec 23 20:16 1° \$\frac{1}{3}\$26'55 1°14'35 direct 2797 Aug 27 12:15 15° \$\frac{1}{3}\$53'58 minimum elong 2803 Dec 23 20:16 1° \$\frac{1}{3}\$26'55 1°14'35 evening set 2797 Nov 25 02:57 17° \$\frac{1}{3}\$49'02 minimum elong 2803 Dec 23 08:55 1° \$\frac{1}{3}\$25'51 31.29868 AU morning rise 2804 Jan 08 02:27 2° \$\frac{1}{3}\$0'109 conjunction 2797 Dec 10 11:55 18° \$\frac{1}{3}\$23'24 1° 27'10 retrograde 2804 Jan 08 02:27 2° \$\frac{1}{3}\$21'26 1° 18'22 max. Earth dist. 2797 Dec 25 18:50 18° \$\frac{1}{3}\$22'01 31.32504 AU min. Earth dist. 2804 Sep 11 21:52 1° \$\frac{1}{3}\$08'35 retrograde 2798 Mar 22 22:02 20° \$\frac{1}{3}\$5'29' evening set 2804 Dec 09 22:06 3° \$\frac{1}{3}\$03'23 s' 50'3'23					min. Earth dist.			29.30320 AU
morning rise 2796 Dec 23 09:47 16° 本47'34 evening set 2803 Nov 12 18:49 0° 舌 retrograde 2797 Mar 20 11:06 18° 本40'20 evening set 2803 Dec 08 12:32 0° 云52'33 opposition 2797 Jun 07 09:27 17° 本18'11 1°34'02 min. Earth dist. 2797 Jun 08 00:35 17° 本17'09 29.32697 AU conjunction 2803 Dec 23 20:16 1° 云26'55 1°14'35 evening set 2797 Nov 25 02:57 17° 本49'02 max. Earth dist. 2803 Dec 23 20:16 1° 云26'55 1°14'35 evening set 2797 Dec 10 11:55 18° 本23'24 1°27'10 retrograde 2804 Jun 08 02:27 2° 云01'09 conjunction 2797 Dec 10 11:55 18° 本23'24 1°27'10 opposition 2804 Jun 22 23:21 2° 云32'26 1°18'22 max. Earth dist. 2797 Dec 09 21:14 18° 本22'01 31.32504 AU min. Earth dist. 2804 Sep 11 21:52 1° 云08'35 retrograde 2798 Mar 22 22:02 20° ₹50'29 evening set 2804 Dec 09 22:06 3° 云03'23 vening set 2798 Mar 22 22:02 20° ₹50'29 evening set 2804 Dec 09 22:06 3° 云03'23 vening set 2804 Dec 09 22:06 3° Z05'33 vening set 2804 Dec 09 22:06 3° Z05'33 vening set 2804 Dec 09								
retrograde 2797 Mar 20 11:06 18° ₹40'20 evening set 2803 Dec 08 12:32 0° ₹52'33 opposition 2797 Jun 07 09:27 17° ₹18'11 1°34'02 min. Earth dist. 2797 Jun 08 00:35 17° ₹17'09 29.32697 AU conjunction 2803 Dec 23 20:16 1° ₹26'55 1°14'35 evening set 2797 Nov 25 02:57 17° ₹49'02 max. Earth dist. 2803 Dec 23 08:55 1° ₹25'51 31.29868 AU morning rise 2804 Jan 08 02:27 2° ₹01'09 conjunction 2797 Dec 10 11:55 18° ₹23'24 1°27'10 retrograde 2804 Jan 08 02:27 2° ₹32'26 1° 18'22 max. Earth dist. 2797 Dec 09 21:14 18° ₹22'01 31.32504 AU min. Earth dist. 2804 Sep 11 21:52 1° ₹38'35'35 retrograde 2798 Mar 22 22:02 20° ₹50'29 evening set 2804 Dec 09 22:06 3° ₹303'23 1°	•			1°28'51	direct	1		
opposition 2797 Jun 07 09:27 17° ₹18'11 1°34'02  min. Earth dist. 2797 Jun 08 00:35 17° ₹17'09 29.32697 AU conjunction 2803 Dec 23 20:16 1° ₹26'55 1°14'35  direct 2797 Aug 27 12:15 15° ₹53'58 minimum elong 2803 Dec 23 20:16 1° ₹26'55 1°14'35  evening set 2797 Nov 25 02:57 17° ₹49'02 max. Earth dist. 2803 Dec 23 08:55 1° ₹25'51 31.29868 AU  conjunction 2797 Dec 10 11:55 18° ₹23'24 1°27'10 retrograde 2804 Jun 08 02:27 2° ₹301'09  minimum elong 2797 Dec 10 11:55 18° ₹23'24 1°27'10 opposition 2804 Jun 22 23:21 2° ₹32'26 1°18'22  max. Earth dist. 2797 Dec 09 21:14 18° ₹22'01 31.32504 AU min. Earth dist. 2804 Jun 23 10:56 2° ₹31'39 29.29507 AU  morning rise 2797 Dec 25 18:50 18° ₹57'36 direct 2804 Dec 09 22:06 3° ₹303'23 10 ₹508'35 retrograde 2798 Mar 22 22:02 20° ₹50'29 evening set 2804 Dec 09 22:06 3° ₹303'23	•							
min. Earth dist. 2797 Jun 08 00:35 17° 🗷 17'09 29.32697 AU conjunction 2803 Dec 23 20:16 1° 326'55 1° 14'35 direct 2797 Aug 27 12:15 15° 35'58 minimum elong 2803 Dec 23 20:16 1° 326'55 1° 14'35 evening set 2797 Nov 25 02:57 17° 34'9'02 max. Earth dist. 2803 Dec 23 08:55 1° 31.29868 AU morning rise 2804 Jan 08 02:27 2° 301'09 conjunction 2797 Dec 10 11:55 18° 323'24 1° 27'10 retrograde 2804 Apr 04 16:50 3° 354'43 minimum elong 2797 Dec 10 11:55 18° 323'24 1° 27'10 opposition 2804 Jun 22 23:21 2° 32'26 1° 18'22 max. Earth dist. 2797 Dec 09 21:14 18° 32'01 31.32504 AU min. Earth dist. 2804 Jun 23 10:56 2° 31'39 29.29507 AU morning rise 2797 Dec 25 18:50 18° 35'736 direct 2804 Sep 11 21:52 1° 308'35 retrograde 2798 Mar 22 22:02 20° 35'029 evening set 2804 Dec 09 22:06 3° 303'23	•				evening set	2803 Dec 08 12:32	0° <b>ර</b> 52'33	
direct 2797 Aug 27 12:15 15°\$7535'8 minimum elong 2803 Dec 23 20:16 1°毫26'55 1°14'35 evening set 2797 Nov 25 02:57 17°\$749'02 max. Earth dist. morning rise 2804 Jan 08 02:27 2°毫01'09 conjunction 2797 Dec 10 11:55 18°\$723'24 1°27'10 retrograde 2804 Apr 04 16:50 3°毫54'43 minimum elong 2797 Dec 10 11:55 18°\$723'24 1°27'10 opposition 2804 Jun 22 23:21 2°毫32'26 1°18'22 max. Earth dist. 2797 Dec 09 21:14 18°\$723'24 1°27'10 min. Earth dist. 2804 Jun 23 10:56 2°毫31'39 29.29507 AU morning rise 2797 Dec 25 18:50 18°\$75'36 direct 2804 Sep 11 21:52 1°毫08'35 retrograde 2798 Mar 22 22:02 20°\$750'29 evening set 2804 Dec 09 22:06 3°毫03'23						2002 B 22 22 1	1070	101.42.5
evening set 2797 Nov 25 02:57 17° \$\frac{7}{4}9'02 \ max. Earth dist. morning rise 2804 Jan 08 02:27 2° \$\frac{7}{5}01'09 \ 2° \$\frac{7}				29.32697 AU	•			
morning rise 2804 Jan 08 02:27 2°♂01'09 conjunction 2797 Dec 10 11:55 18°♂23'24 1°27'10 retrograde 2804 Apr 04 16:50 3°♂54'43 minimum elong 2797 Dec 10 11:55 18°♂23'24 1°27'10 opposition 2804 Jun 22 23:21 2°♂32'26 1°18'22 max. Earth dist. 2797 Dec 09 21:14 18°♂22'01 31.32504 AU min. Earth dist. 2804 Jun 23 10:56 2°♂31'39 29.29507 AU morning rise 2797 Dec 25 18:50 18°♂57'36 direct 2804 Sep 11 21:52 1°♂08'35 retrograde 2798 Mar 22 22:02 20°♂50'29 evening set 2804 Dec 09 22:06 3°♂03'23		•			Č			
conjunction 2797 Dec 10 11:55 18°ネ23'24 1°27'10 retrograde 2804 Apr 04 16:50 3°る54'43 minimum elong 2797 Dec 10 11:55 18°ネ23'24 1°27'10 opposition 2804 Jun 22 23:21 2°る32'26 1°18'22 max. Earth dist. 2797 Dec 09 21:14 18°ネ22'01 31.32504 AU min. Earth dist. 2804 Jun 23 10:56 2°る31'39 29.29507 AU morning rise 2797 Dec 25 18:50 18°ネ57'36 direct 2804 Sep 11 21:52 1°る08'35 retrograde 2798 Mar 22 22:02 20°ネ50'29 evening set 2804 Dec 09 22:06 3°る03'23	evening set	2797 Nov 25 02:57	17° <b>∡</b> ′49′02					31.29868 AU
minimum elong 2797 Dec 10 11:55 18°ネ23'24 1°27'10 opposition 2804 Jun 22 23:21 2°32'26 1°18'22 max. Earth dist. 2797 Dec 09 21:14 18°ネ22'01 31.32504 AU min. Earth dist. 2804 Jun 23 10:56 2°31'39 29.29507 AU morning rise 2797 Dec 25 18:50 18°ネ57'36 direct 2804 Sep 11 21:52 1°368'35 retrograde 2798 Mar 22 22:02 20°ネ50'29 evening set 2804 Dec 09 22:06 3°303'23			=		•			
max. Earth dist. 2797 Dec 09 21:14 18° オ22'01 31.32504 AU min. Earth dist. 2804 Jun 23 10:56 2°る1'39 29.29507 AU morning rise 2797 Dec 25 18:50 18° オ57'36 direct 2804 Sep 11 21:52 1°る08'35 retrograde 2798 Mar 22 22:02 20° オ50'29 evening set 2804 Dec 09 22:06 3°る03'23					-			
morning rise 2797 Dec 25 18:50 18° ₹ 57'36 direct 2804 Sep 11 21:52 1° ₹ 08'35 retrograde 2798 Mar 22 22:02 20° ₹ 50'29 evening set 2804 Dec 09 22:06 3° ₹ 03'23	Č				* *			
retrograde 2798 Mar 22 22:02 20°₹50′29 evening set 2804 Dec 09 22:06 3°₹03′23				31.32504 AU				29.29507 AU
	•					•		
opposition 2798 Jun 09 21:27 19° ₹28'20 1°32'11	-				evening set	2804 Dec 09 22:06	3°る03'23	
	opposition	2798 Jun 09 21:27	19° <b>∡</b> ′28′20	1°32'11				

	2004 D 25 05 25	2072744	101206	T' 4	2011 0 20 02 20	160 <b>7</b> 0440	
conjunction	2804 Dec 25 05:35	3°₹37'44		direct	2811 Sep 28 03:28	16°₹24'43	
minimum elong	2804 Dec 25 05:35	3°₹37'44		evening set	2811 Dec 25 15:17	18° <b>⋜</b> 19'06	
max. Earth dist.	2804 Dec 24 18:19		31.29020 AU			<del></del>	
morning rise	2805 Jan 09 11:51	4°る12'00		conjunction	2812 Jan 09 22:03	18° <b>る</b> 53'29	
retrograde	2805 Apr 07 03:10	6° <b>る</b> 05'38		minimum elong	2812 Jan 09 22:03	18° <b>る</b> 53'29	0°51'59
opposition	2805 Jun 25 11:48	4° <b>ප</b> 43'17		max. Earth dist.	2812 Jan 09 16:59		31.23795 AU
min. Earth dist.	2805 Jun 25 21:39		29.28616 AU	morning rise	2812 Jan 25 04:31	19° <b>る</b> 27'50	
direct	2805 Sep 14 09:42	3° <b>る</b> 19'26		retrograde	2812 Apr 22 10:55	21° <b>る</b> 22'19	
evening set	2805 Dec 12 07:22	5° <b>る</b> 14'09		opposition	2812 Jul 11 03:57	19° <b>る</b> 59'36	
				min. Earth dist.	2812 Jul 11 07:33	19° <b>る</b> 59'21	29.23495 AU
conjunction	2805 Dec 27 14:45	5° <b>る</b> 48'30	1°09'31	direct	2812 Sep 29 15:35	18° <b>る</b> 36'01	
minimum elong	2805 Dec 27 14:45	5° <b>る</b> 48'30	1°09'30	evening set	2812 Dec 27 00:41	20° <b>る</b> 30'22	
max. Earth dist.	2805 Dec 27 04:29	5° <b>る</b> 47'32	31.28108 AU				
morning rise	2806 Jan 11 20:58	6° <b>る</b> 22'47		conjunction	2813 Jan 11 07:31	21° <b>る</b> 04'46	0°48'47
retrograde	2806 Apr 09 12:42	8° <b>ප</b> 16'31		minimum elong	2813 Jan 11 07:31	21° <b>る</b> 04'46	0°48'47
opposition	2806 Jun 28 00:25	6° <b>⋜</b> 54'04	1°12'51	max. Earth dist.	2813 Jan 11 03:58	21° <b>る</b> 04'26	31.23128 AU
min. Earth dist.	2806 Jun 28 10:27	6° <b>る</b> 53'24	29.27706 AU	morning rise	2813 Jan 26 13:56	21° <b>る</b> 39'09	
direct	2806 Sep 16 20:15	5° <b>る</b> 30'13		retrograde	2813 Apr 24 22:12	23° <b>る</b> 33'46	
evening set	2806 Dec 14 16:44	7° <b>る</b> 24'51		opposition	2813 Jul 13 16:59	22° <b>ප</b> 11'00	0°50'22
-				min. Earth dist.	2813 Jul 13 20:49	22° <b>る</b> 10'45	29.22788 AU
conjunction	2806 Dec 30 00:01	7° <b>る</b> 59'12	1°06'50	direct	2813 Oct 02 03:39	20°る47'29	
minimum elong	2806 Dec 30 00:01	7° <b>る</b> 59'12	1°06'50	evening set	2813 Dec 29 10:09	22° <b>る</b> 41'47	
max. Earth dist.	2806 Dec 29 14:51	7°る58'20	31.27221 AU	Č			
morning rise	2807 Jan 14 06:12	8° <b>ට</b> 33'29		conjunction	2814 Jan 13 16:54	23° <b>る</b> 16'11	0°45'29
retrograde	2807 Apr 11 23:10	10° <b>る</b> 27'19		minimum elong	2814 Jan 13 16:54	23° <b>ප</b> 16'11	0°45'28
opposition	2807 Jun 30 12:41	9° <b>⋜</b> 04'48	1°09'56	max. Earth dist.	2814 Jan 13 13:34	23°₹15'52	31.22380 AU
min. Earth dist.	2807 Jun 30 20:52		29.26837 AU	morning rise	2814 Jan 28 23:30	23°る50'35	31. <b>22</b> 300110
direct	2807 Sep 19 07:03	7° <b>る</b> 40'57	27.20037710	retrograde	2814 Apr 27 09:34	25° <b>る</b> 45'20	
evening set	2807 Dec 17 02:07	9° <b>る</b> 35'32		opposition	2814 Jul 16 05:53	24° <b>る</b> 22'33	0°46'48
evening sec	2007 BCC 17 02.07	) <b>0</b> 3332		min. Earth dist.	2814 Jul 16 08:05		29.21972 AU
conjunction	2808 Jan 01 09:12	10° <b>る</b> 09'53	1°04'03	direct	2814 Oct 04 15:37	22°る59'03	2).21)/2/10
minimum elong	2808 Jan 01 09:12	10° <b>ろ</b> 09'53	1°04'02	evening set	2814 Dec 31 19:47	24° <b>る</b> 53'19	
max. Earth dist.	2808 Jan 01 00:28		31.26392 AU	evening set	2014 DCC 31 17.47	24 03317	
morning rise	2808 Jan 16 15:27	10° <b>ろ</b> 44'10	31.20372 AO	conjunction	2815 Jan 16 02:31	25° <b>♂</b> 27'44	0°42'08
•	2808 Apr 13 10:48	10 344 10 12° <b>る</b> 38'07		v	2815 Jan 16 02:31	25° <b>る</b> 27'44	0°42'08
retrograde	-	12 <b>33</b> 807 11° <b>る</b> 15'32	1906154	minimum elong max. Earth dist.	2815 Jan 15 02.31 2815 Jan 15 23:39		31.21489 AU
opposition min. Earth dist.	2808 Jul 02 01:18 2808 Jul 02 09:10		29.26060 AU		2815 Jan 31 09:11	23 <b>3</b> 2727 26° <b>る</b> 02'09	31.21469 AU
		9° <b>る</b> 51'44	29.20000 AU	morning rise		20 30209 27° <b>る</b> 57'02	
direct	2808 Sep 20 17:14	9°031'44 11° <b>3</b> 46'14		retrograde	2815 Apr 29 20:03	26° <b>る</b> 34'11	0°43'11
evening set	2808 Dec 18 11:17	11 646 14		opposition	2815 Jul 18 18:51		
	2000 1 02 10 22	120 720125	1001110	min. Earth dist.	2815 Jul 18 21:34		29.21012 AU
conjunction	2809 Jan 02 18:23	12°る20'35		direct	2815 Oct 07 02:37	25°る10'43	
minimum elong	2809 Jan 02 18:23	12°る20'35		evening set	2816 Jan 03 05:23	27° <b>る</b> 04'54	
max. Earth dist.	2809 Jan 02 11:36		31.25664 AU		2016 7 10 12 11	270 720120	0020142
morning rise	2809 Jan 18 00:32	12°る54'54		conjunction	2816 Jan 18 12:11	27°る39'20	0°38'42
retrograde	2809 Apr 15 22:16	14°る48'58		minimum elong	2816 Jan 18 12:11	27°る39'20	0°38'42
opposition	2809 Jul 04 13:55	13° <b>る</b> 26'21	1°03'47	max. Earth dist.	2816 Jan 18 10:09		31.20463 AU
min. Earth dist.	2809 Jul 04 20:18		29.25362 AU	morning rise	2816 Feb 02 18:56	28° <b>る</b> 13'47	
direct	2809 Sep 23 05:27	12° <b>る</b> 02'35			2816 Apr 08 07:38	0° <b>≈</b>	
evening set	2809 Dec 20 20:39	13° <b>る</b> 57'03		retrograde	2816 May 01 07:15	0°≈08'47	
		<b>. —</b>			2816 May 24 19:29	30°Rる	
conjunction	2810 Jan 05 03:32	14° <b>る</b> 31'24		opposition	2816 Jul 20 07:51	28° <b>る</b> 45'51	0°39'30
minimum elong	2810 Jan 05 03:32	14° <b>る</b> 31'24	0°58'12	min. Earth dist.	2816 Jul 20 09:02		29.19902 AU
max. Earth dist.	2810 Jan 04 20:42		31.25013 AU	direct	2816 Oct 08 14:28	27° <b>ප්</b> 22'23	
morning rise	2810 Jan 20 09:53	15° <b>る</b> 05'44		evening set	2817 Jan 04 14:56	29° <b>る</b> 16'30	
retrograde	2810 Apr 18 11:18	16° <b>る</b> 59'56					
opposition	2810 Jul 07 02:29	15° <b>る</b> 37'16		conjunction	2817 Jan 19 21:37	29° <b>る</b> 50'56	
min. Earth dist.	2810 Jul 07 07:56		29.24742 AU	minimum elong	2817 Jan 19 21:38	29° <b>る</b> 50'56	0°35'15
direct	2810 Sep 25 15:13	14° <b>る</b> 13'34		max. Earth dist.	2817 Jan 19 19:36	29° <b>る</b> 50'45	31.19294 AU
evening set	2810 Dec 23 05:50	16° <b>る</b> 07'59			2817 Jan 23 21:17	0° <b>≈</b>	
				morning rise	2817 Feb 04 04:38	0° <b>≈</b> 25′25	
conjunction	2811 Jan 07 12:51	16° <b>る</b> 42'22	0°55'08	retrograde	2817 May 03 19:09	2° <b>≈</b> 20'32	
minimum elong	2811 Jan 07 12:51	16° <b>る</b> 42'22	0°55'09	opposition	2817 Jul 22 21:01	0° <b>≈</b> 57'30	0°35'45
max. Earth dist.	2811 Jan 07 07:55	16° <b>る</b> 41'54	31.24407 AU	min. Earth dist.	2817 Jul 22 22:17	0° <b>≈</b> 57'25	29.18686 AU
morning rise	2811 Jan 22 19:06	17° <b>る</b> 16'42			2817 Aug 30 21:11	30°R₹	
retrograde	2811 Apr 20 21:50	19° <b>る</b> 11'02		direct	2817 Oct 11 00:57	29° <b>る</b> 34'02	
opposition	2811 Jul 09 15:13	17° <b>ප්</b> 48'21	0°57'15		2817 Nov 19 19:48	0° <b>≈</b>	
min. Earth dist.	2811 Jul 09 20:10	17° <b>る</b> 48'01	29.24128 AU	evening set	2818 Jan 07 00:22	1° <b>≈</b> 28′04	

agniumation	2010 Ion 22 07:15	290 002121	0021142	hahind aun hagin	2024 Eab 04 11:20	1500012!12	
conjunction	2818 Jan 22 07:15 2818 Jan 22 07:16	2°≈02'31 2°≈02'31	0°31'42 0°31'42	behind sun begin behind sun end	2824 Feb 04 11:20	15°≈12'13	
minimum elong max. Earth dist.	2818 Jan 22 06:57		31.18044 AU	max. Earth dist.	2824 Feb 04 21:54 2824 Feb 04 21:37	15°≈13'10	31.11558 AU
morning rise	2818 Feb 06 14:17	2 ≈02 29 2°≈37'00	31.18044 AU	morning rise	2824 Feb 04 21.37 2824 Feb 20 00:53	15 ≈13 09 15°≈47'21	31.11338 AU
retrograde	2818 May 06 06:23	2 ≈3700 4°≈32'14		retrograde	2824 May 19 07:39	13 ≈4721 17°≈43'26	
opposition	2818 Jul 25 09:53	3°≈09'06	0°31'58	opposition	2824 Aug 07 16:01	17 ≈43 20 16°≈19'55	0°08'23
min. Earth dist.	2818 Jul 25 09:57		29.17409 AU	min. Earth dist.	2824 Aug 07 10:01 2824 Aug 07 10:38		29.11126 AU
direct	2818 Oct 13 13:02	1°≈45'37	29.17409 AU	iiiii. Eartii tiist.	2824 Oct 12 01:09	10 ≈2017 15°R≈	29.11120 AU
evening set	2819 Jan 09 09:54	3°≈39'35		direct	2824 Oct 12 01:09 2824 Oct 26 09:43	13 v∞ 14°≈56'38	
evening set	2019 Jan 09 09.34	3 <b>~</b> 3933		direct	2824 Nov 09 12:23	14 ∞30 38 15°≈	
conjunction	2819 Jan 24 16:41	4°≈14'02	0°28'08	evening set	2825 Jan 21 18:59	15 <b>∞</b> 16° <b>≈</b> 50'24	
minimum elong	2819 Jan 24 16:41	4°≈14'02		evening set	2023 Juli 21 10.37	10 ~3024	
max. Earth dist.	2819 Jan 24 16:13		31.16772 AU	conjunction	2825 Feb 06 02:22	17° <b>≈</b> 24'58	0°06'03
morning rise	2819 Feb 09 00:03	4°≈48'33	31.10//2/10	minimum elong	2825 Feb 06 02:21	17°≈24'58	0°06'03
retrograde	2819 May 08 19:27	6°≈43'54		behind sun begin	2825 Feb 05 20:15	17°≈24'35	0 00 03
opposition	2819 Jul 27 22:52	5°≈20'40	0°28'07	behind sun end	2825 Feb 06 08:27	17 <b>≈</b> 2₹23	
min. Earth dist.	2819 Jul 27 22:01		29.16159 AU	max. Earth dist.	2825 Feb 06 08:41		31.10690 AU
direct	2819 Oct 15 22:49	3°≈57'10	2).1013) AO	morning rise	2825 Feb 21 10:47	17°≈59'39	31.10070 AC
evening set	2820 Jan 11 19:15	5°≈51'05		retrograde	2825 May 21 19:44	17 <b>≈</b> 55′54	
evening set	2020 Jan 11 19.13	J <b>≈</b> 3103		opposition	2825 Aug 10 05:08	19 ≈33'34 18°≈32'21	0°04'22
conjunction	2820 Jan 27 02:12	6°≈25'33	0°24'32	min. Earth dist.	2825 Aug 10 05:08 2825 Aug 09 22:02		29.10240 AU
minimum elong	2820 Jan 27 02:12	6°≈25'33	0°24'31	direct	2825 Oct 28 21:37	17°≈09'07	2).10240 AC
max. Earth dist.	2820 Jan 27 02:12 2820 Jan 27 03:47		31.15544 AU	evening set	2826 Jan 24 04:54	17 <b>≈</b> 09 07 19° <b>≈</b> 02'52	
morning rise	2820 Feb 11 09:33	0 ≈23 42 7°≈00'05	31.13344 AO	evening set	2020 Jan 24 04.34	19 202 32	
retrograde	2820 May 10 06:26	8°≈55'34		conjunction	2826 Feb 08 12:16	19° <b>≈</b> 37'26	0°02'17
opposition	2820 Jul 29 11:54	7°≈32'14	0°24'15	minimum elong	2826 Feb 08 12:16	19°≈37'26	0°02'16
min. Earth dist.	2820 Jul 29 11:34 2820 Jul 29 10:12		29.14970 AU	behind sun begin	2826 Feb 08 05:52	19 ≈3720 19°≈36'52	0 02 10
direct	2820 Oct 17 11:10	6°≈08'46	29.149/0 AU	behind sun end	2826 Feb 08 03:32 2826 Feb 08 18:39	19 ≈30 32 19°≈38'01	
evening set	2821 Jan 13 04:48	8°≈02'38		max. Earth dist.	2826 Feb 08 18:34		31.09780 AU
evening set	2021 Jan 13 04.40	0 ~02 30		morning rise	2826 Feb 23 21:03	20°≈12'10	31.09780 AU
agniumation	2821 Jan 28 11:41	8° <b>≈</b> 37'07	0°20'53	retrograde	2826 May 24 07:46	20 ≈12 10 22°≈08'34	
conjunction minimum elong	2821 Jan 28 11:41 2821 Jan 28 11:41	8°≈37'07	0°20'54	opposition	2826 Aug 12 18:17	22 ≈06 34 20°≈44'58	0°00'20
max. Earth dist.	2821 Jan 28 13:28		31.14417 AU	min. Earth dist.	2826 Aug 12 11:25	20°≈45'26	
morning rise	2821 Feb 12 19:22	9°≈11'40	31.1441/ AU	desc. node	2826 Sep 12 07:37	20 ≈43 20 19°≈58'02	29.09309 AU
retrograde	2821 Feb 12 19.22 2821 May 12 20:25	9 ≈11 40 11°≈07'17		direct	2826 Sep 12 07.37 2826 Oct 31 07:37	19 ≈3802 19°≈21'47	
opposition	2821 Aug 01 00:52	9°≈43'54	0°20'19	evening set	2827 Jan 26 14:47	19 ≈21 47 21°≈15'30	
min. Earth dist.	2821 Jul 31 21:27		29.13899 AU	evening set	2027 Jan 20 14.47	21 ≈1330	
direct	2821 Jul 31 21:27 2821 Oct 19 23:01	9 ≈44 07 8°≈20'27	29.13099 AU	agniumation	2827 Feb 10 22:24	21° <b>≈</b> 50'06	0001126
	2822 Jan 15 14:12	8 ≈2027 10°≈14'17		conjunction minimum elong	2827 Feb 10 22:24 2827 Feb 10 22:26	21°≈50'06	
evening set	2822 Jan 13 14.12	10 2014 17		behind sun begin		21 ≈30 00 21°≈49'31	0 01 30
conjunction	2822 Jan 30 21:16	10° <b>≈</b> 48'47	0°17'13	behind sun begin	2827 Feb 10 16:02 2827 Feb 11 04:50	21 ≈49 31 21°≈50'41	
•	2822 Jan 30 21:16 2822 Jan 30 21:16			max. Earth dist.	2827 Feb 11 04:30 2827 Feb 11 06:15		31.08800 AU
minimum elong max. Earth dist.	2822 Jan 30 21.16 2822 Jan 31 00:47	10°≈48'47			2827 Feb 11 06.13 2827 Feb 26 07:18	21 ≈3049 22°≈24'51	31.08800 AU
	2822 Feb 15 05:03		31.13388 AU	morning rise retrograde			
morning rise retrograde		11°≈23'23		- C	2827 May 26 19:04 2827 Aug 15 07:29	24°≈21'24 22°≈57'45	0002142
Č .	2822 May 15 08:18	13°≈19'09	0017122	opposition min. Earth dist.	Č		
opposition min. Earth dist.	2822 Aug 03 13:57	11°≈55'42	29.12914 AU		2827 Aug 14 23:38 2827 Nov 02 19:12		29.08270 AU
direct	2822 Aug 03 10:23 2822 Oct 22 10:44	11 ≈3337 10°≈32'18	29.12914 AU	direct evening set	2827 Nov 02 19:12 2828 Jan 29 00:49	21°≈34'34 23°≈28'15	
evening set	2822 Oct 22 10.44 2823 Jan 17 23:46	10 ≈32 18 12°≈26'07		evening set	2828 Jan 29 00.49	23 ≈2013	
evening set	2023 Jan 17 23.40	12 ~2007		anniumation	2828 Feb 13 08:26	24°≈02'53	0°05'24
conjunction	2823 Feb 02 06:54	13° <b>≈</b> 00'38	0°13'30	conjunction minimum elong	2828 Feb 13 08:26 2828 Feb 13 08:25	24°≈02'53 24°≈02'53	0°05'24
minimum elong	2823 Feb 02 06:53	13°≈00'38	0°13'31	behind sun begin	2828 Feb 13 08:23 2828 Feb 13 02:14	24 ≈02 33 24°≈02'19	0 03 24
behind sun begin	2823 Feb 02 00:33 2823 Feb 02 03:13	13°≈00'38 13°≈00'18	0 13 31	behind sun begin	2828 Feb 13 02.14 2828 Feb 13 14:36	24 ≈02 19 24°≈03'26	
behind sun end				max. Earth dist.			21 07706 AII
max. Earth dist.	2823 Feb 02 10:34	13°≈00'58	21 12452 ATT		2828 Feb 13 15:42		31.07706 AU
	2823 Feb 02 11:05		31.12452 AU	morning rise	2828 Feb 28 17:42	24°≈37'39	
morning rise	2823 Feb 17 14:56	13°≈35'16 15°≈		retrograde	2828 May 28 08:40	26°≈34'21	0007144
retrograda	2823 Apr 03 21:27	15°≈31'11		opposition min. Earth dist.	2828 Aug 16 20:50	25°≈10'36	
retrograde	2823 May 17 20:11			min. Earth dist.	2828 Aug 16 12:30 2828 Nov 04 04:45	23°≈47'25	29.07123 AU
onnosition	2823 Jul 02 09:06	15°R≈ 14°a>07'42	0012122				
opposition	2823 Aug 06 02:47	14°≈07'42		evening set	2829 Jan 30 10:49	25° <b>≈</b> 41'04	
min. Earth dist.	2823 Aug 05 21:16		29.12002 AU		2020 E 1 14 10 44	26015142	0000100
direct	2823 Oct 24 22:34	12°≈44'21		conjunction	2829 Feb 14 18:44	26°≈15'42	
evening set	2824 Jan 20 09:26	14°≈38'09		minimum elong	2829 Feb 14 18:44	26°≈15'42	0°09'08
	2824 Jan 30 02:50	15° <b>≈</b>		behind sun begin	2829 Feb 14 13:16	26°≈15'12	
	2024 77 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.50	0000:	behind sun end	2829 Feb 15 00:13	26°≈16'11	21.06127
conjunction	2824 Feb 04 16:37	15°≈12'41	0°09'47	max. Earth dist.	2829 Feb 15 03:31		31.06497 AU
minimum elong	2824 Feb 04 16:37	15°≈12'41	0°09'46	morning rise	2829 Mar 02 04:08	26° <b>≈</b> 50'30	

ratra ara da	2920 May 20, 20:22	2000 047!10	min Forth dist	2025 Cam 02 02:02	100 <b>¥</b> 4044 20 00021 ATT
retrograde	2829 May 30 20:23	28°≈47'19 27°≈23'28 -0°11'45	min. Earth dist. direct	2835 Sep 02 03:03 2835 Nov 20 15:23	10° <b>)</b> 40'44 28.99021 AU 9° <b>)</b> 16'34
opposition min. Earth dist.	2829 Aug 19 10:07	27°≈24'03 29.05862 AU		2836 Feb 15 09:24	9 <del>X</del> 10 34 11° <b>X</b> 09'54
direct	2829 Aug 19 01:25 2829 Nov 06 17:23	27 ≈24 03 29.03802 AU 26°≈00'16	evening set	2830 Feb 13 09.24	11 Д09 34
	2830 Feb 01 20:52	20 ≈00 10 27°≈53'50	agniumation	2836 Mar 01 18:43	11° <b>)</b> 44'40 -0°34'47
evening set	2830 Feb 01 20.32	27 ≈33 30	conjunction minimum elong	2836 Mar 01 18:43	11° <del>X</del> 44'40 -0°34'47
agniumation	2020 Eab 17 04:52	2000020120 0012152	max. Earth dist.		11° <del>X</del> 44'40 0 34'47 11° <del>X</del> 46'05 30.98598 AU
conjunction	2830 Feb 17 04:53	28°≈28'29 -0°12'52 28°≈28'29 0°12'53		2836 Mar 02 09:45	12° <del>X</del> 19'40
minimum elong	2830 Feb 17 04:52		morning rise	2836 Mar 17 06:12 2836 Jun 15 12:02	12 <b>X</b> 1940 14° <b>X</b> 17'17
behind sun begin	2830 Feb 17 00:50	28°≈28'07	retrograde		
behind sun end	2830 Feb 17 08:54	28°≈28'50	opposition	2836 Sep 04 05:55	12°\(\frac{1}{12}\) 52'52 -0°39'05
max. Earth dist.	2830 Feb 17 13:26	28°≈29'16 31.05208 AU	min. Earth dist.	2836 Sep 03 14:53	12° <b>米</b> 53′53 28.98235 AU
morning rise	2830 Mar 04 14:43	29°≈03'18	direct	2836 Nov 22 02:59	11° <b>X</b> 29'41
	2830 Apr 01 07:46	0° <b>∀</b>	evening set	2837 Feb 16 19:54	13° <b>米</b> 23′01
retrograde	2830 Jun 02 10:52	1° <b>∺</b> 00'13			
	2830 Aug 07 05:37	30°R≈	conjunction	2837 Mar 04 05:16	13° <b>¥</b> 57'48 -0°38'18
opposition	2830 Aug 21 23:17	29° <b>≈</b> 36'15 -0°15'44	minimum elong	2837 Mar 04 05:16	13° <b>¥</b> 57'48 0°38'17
min. Earth dist.	2830 Aug 21 13:24	29°≈36′55 29.04548 AU	max. Earth dist.	2837 Mar 04 20:00	13° <b>米</b> 59′12 30.97848 AU
direct	2830 Nov 09 05:01	28° <b>≈</b> 13′00	morning rise	2837 Mar 19 17:16	14° <b>)</b> 32′51
	2831 Feb 01 08:01	0° <b>∀</b>	retrograde	2837 Jun 18 02:10	16° <b>∺</b> 30'37
evening set	2831 Feb 04 06:53	0° <b>¥</b> 06′31	opposition	2837 Sep 06 19:02	15° <b>米</b> 06′10 -0°42′49
			min. Earth dist.	2837 Sep 06 03:32	15° <b>米</b> 07′14 28.97516 AU
conjunction	2831 Feb 19 15:06	0° <b>)</b> 41′11 -0°16′36	direct	2837 Nov 24 12:05	13° <b>)</b> 43′02
minimum elong	2831 Feb 19 15:06	0° <b>)</b> 41'11 0°16'35	evening set	2838 Feb 19 06:22	15° <b>¥</b> 36′24
max. Earth dist.	2831 Feb 20 01:02	0° <b>)</b> 42′06 31.03875 AU			
morning rise	2831 Mar 07 01:08	1° <b>)</b> 16′02	conjunction	2838 Mar 06 16:08	16° <b>)</b> 11'13 -0°41'46
retrograde	2831 Jun 04 22:27	3° <b>)</b> 13′02	minimum elong	2838 Mar 06 16:08	16° <b>升</b> 11'13 0°41'47
opposition	2831 Aug 24 12:25	1° <b>)</b> 48′56 -0°19′43	max. Earth dist.	2838 Mar 07 08:26	16° <b>光</b> 12'45 30.97124 AU
min. Earth dist.	2831 Aug 24 02:37	1° <b>¥</b> 49'36 29.03231 AU	morning rise	2838 Mar 22 04:19	16° <b>¥</b> 46'17
direct	2831 Nov 11 16:38	0° <b>)</b> 25′40	retrograde	2838 Jun 20 14:20	18° <b>)</b> 44'13
evening set	2832 Feb 06 16:56	2° <b>ℋ</b> 19'07	opposition	2838 Sep 09 08:12	17° <b>¥</b> 19'45 -0°46'29
8		,,	min. Earth dist.	2838 Sep 08 16:24	17° <b>¥</b> 20'50 28.96784 AU
conjunction	2832 Feb 22 01:19	2° <b>)</b> 53'48 -0°20'18	direct	2838 Nov 26 23:58	15° <b>¥</b> 56'40
minimum elong	2832 Feb 22 01:19	2° <b>∺</b> 53'48 0°20'18	evening set	2839 Feb 21 17:08	17° <b>¥</b> 50′02
max. Earth dist.	2832 Feb 22 11:59	2°\;\;54'48 31.02597 AU	evening sec	2037100 21 17.00	17 7(00 02
morning rise	2832 Mar 08 11:39	3° <b>∺</b> 28'40	conjunction	2839 Mar 09 03:01	18° <b>)</b> € 24'52 -0°45'10
retrograde	2832 Jun 06 11:36	5° <b>¥</b> 25'46	minimum elong	2839 Mar 09 03:00	18°\(\)24'52 0°45'10
opposition	2832 Aug 26 01:31	4° <b>)</b> €01'35 -0°23'40	max. Earth dist.	2839 Mar 09 18:57	18°\(\)24'32 \ 0 43'10 18°\(\)(26'23 \ 30.96376 AU
min. Earth dist.	2832 Aug 25 13:44	4° <b>★</b> 02'23 29.01999 AU	morning rise	2839 Mar 24 15:36	18°\(\frac{1}{2023}\) 30.30370 AC
direct	2832 Nov 13 05:12	2° <b>¥</b> 38'17	retrograde	2839 Jun 23 05:27	20° <b>¥</b> 58′03
	2832 Nov 13 03.12 2833 Feb 08 02:56	4° <b>¥</b> 31'41	•	2839 Sep 11 21:18	19° <b>)</b> 33'34 -0°50'06
evening set	2833 Feb 08 02.30	4 ДЗ141	opposition min. Earth dist.	•	19 ★3334 -0 3006 19°★34'42 28.96011 AU
	2022 E 1 22 11 20	50 10 (100 0000150		2839 Sep 11 04:37	18° ¥ 10'30
conjunction	2833 Feb 23 11:28	5°\(\)06'23 -0°23'58	direct	2839 Nov 29 10:43	
minimum elong	2833 Feb 23 11:28	5°\(\)\(06'23\)\(06'23\)\(07'20\)\(07'2	evening set	2840 Feb 24 03:58	20° <b>∺</b> 03'54
max. Earth dist.	2833 Feb 23 22:57	5° <b>米</b> 07′28 31.01408 AU		2040.14 10 14 00	2001/20146 0040120
morning rise	2833 Mar 10 22:09	5° <b>)</b> (41'17	conjunction	2840 Mar 10 14:09	20°\(\frac{1}{38}\)'46 -0°48'30
retrograde	2833 Jun 09 00:05	7° <b>¥</b> 38'30	minimum elong	2840 Mar 10 14:09	20°\(\frac{1}{3}8'46\) 0°48'31
opposition	2833 Aug 28 14:44	6° ★14'13 -0°27'35	max. Earth dist.	2840 Mar 11 07:00	20°¥40′22 30.95548 AU
min. Earth dist.	2833 Aug 28 02:59	6°¥15′01 29.00881 AU	morning rise	2840 Mar 26 03:01	21° <b>)</b> 13'54
direct	2833 Nov 15 16:59	4° <b>¥</b> 50′56	retrograde	2840 Jun 24 17:59	23° <b>¥</b> 12'07
evening set	2834 Feb 10 13:02	6° <b>∺</b> 44'17	opposition	2840 Sep 13 10:38	21° <b>X</b> 47'34 -0°53'38
		.,	min. Earth dist.	2840 Sep 12 18:28	21° <b>¥</b> 48'41 28.95140 AU
conjunction	2834 Feb 25 21:54	7° <b>∺</b> 19'01 -0°27'37	direct	2840 Nov 30 21:37	20° <b>¥</b> 24'32
minimum elong	2834 Feb 25 21:54	7° <b>∺</b> 19'01 0°27'37	evening set	2841 Feb 25 14:50	22° <b>升</b> 17'55
max. Earth dist.	2834 Feb 26 10:51	7° <b>∺</b> 20'14 31.00356 AU			
morning rise	2834 Mar 13 08:47	7° <b>¥</b> 53'57	conjunction	2841 Mar 13 01:20	22° <b>米</b> 52'49 -0°51'46
retrograde	2834 Jun 11 12:30	9° <b>¥</b> 51'17	minimum elong	2841 Mar 13 01:20	22° <b>升</b> 52'49 0°51'46
opposition	2834 Aug 31 03:36	8° <b>¥</b> 26′56 -0°31′27	max. Earth dist.	2841 Mar 13 18:18	22° <b>)</b> 54′25 30.94630 AU
min. Earth dist.	2834 Aug 30 13:57	8° <b>∺</b> 27'52 28.99890 AU	morning rise	2841 Mar 28 14:35	23° <b>)</b> €27'59
direct	2834 Nov 18 05:23	7° <b>)</b> €03'39	retrograde	2841 Jun 27 08:45	25° <b>∺</b> 26′17
evening set	2835 Feb 12 23:19	8° <b>¥</b> 57'00	opposition	2841 Sep 15 23:48	24° <b>₭</b> 01'42 -0°57'05
			min. Earth dist.	2841 Sep 15 06:25	24° <b>₭</b> 02'53 28.94164 AU
conjunction	2835 Feb 28 08:15	9° <b>)</b> 31'45 -0°31'13	direct	2841 Dec 03 10:34	22° <b>)</b> (38′39
minimum elong	2835 Feb 28 08:15	9° <b>∺</b> 31'45 0°31'12	evening set	2842 Feb 28 01:54	24° <b>)</b> 32′01
max. Earth dist.	2835 Feb 28 21:19	9° <b>∺</b> 32'59 30.99422 AU	-		
morning rise	2835 Mar 15 19:35	10° <b>∺</b> 06'43	conjunction	2842 Mar 15 12:38	25° <b>)</b> €06'56 -0°54'58
retrograde	2835 Jun 14 00:35	12° <b>米</b> 04'12	minimum elong	2842 Mar 15 12:38	25° <b>¥</b> 06'56 0°54'58
opposition	2835 Sep 02 16:46	10° <b>)</b> 39'48 -0°35'18	max. Earth dist.	2842 Mar 16 05:36	25° <b>₭</b> 08'33 30.93595 AU
* *	1				

	2042 Mar. 21 02:10	2501/42100	J:4	2848 Dec 18 19:33	8° <b>Υ</b> 17'25
morning rise	2842 Mar 31 02:18	25°\(\frac{4}{4}2'08\)	direct		8 γ 17 23 10° <b>Υ</b> 10'40
retrograde	2842 Jun 29 22:34	27° <b>)</b> (40'32	evening set	2849 Mar 15 07:43	10-1-10-40
opposition	2842 Sep 18 12:53	26°¥15′51 -1°00′27			
min. Earth dist.	2842 Sep 17 20:16	26° <b>升</b> 16′59 28.93099	-	2849 Mar 30 20:46	10° <b>Y</b> 45'45 -1°14'46
direct	2842 Dec 05 22:51	24° <b>¥</b> 52'47	minimum elong	2849 Mar 30 20:46	10° <b>Y</b> 45'45 1°14'45
evening set	2843 Mar 02 12:50	26° <b>)</b> 46′06	max. Earth dist.	2849 Mar 31 18:18	10° <b>Y</b> 47'47 30.87501 AU
			morning rise	2849 Apr 15 13:04	11° <b>Ƴ</b> 21'09
conjunction	2843 Mar 17 23:59	27° <b>)</b> 21'03 -0°58'04	retrograde	2849 Jul 15 15:02	13° <b>Y</b> 20′05
minimum elong	2843 Mar 17 23:59	27°\ 21'03 0°58'04	min. Earth dist.	2849 Oct 03 11:09	11° <b>Ƴ</b> 56'23 28.87327 AU
max. Earth dist.	2843 Mar 18 17:55	27° <b>¥</b> 22'45 30.92510		2849 Oct 04 07:31	11° <b>Υ</b> ′54'59 -1°21'16
morning rise	2843 Apr 02 13:55	27° <b>)</b> 56'17	direct	2849 Dec 21 05:56	10° <b>Υ</b> 31'50
•	2843 Jul 02 11:40	29° <b>¥</b> 54'44			12° <b>Υ</b> 25'06
retrograde			evening set	2850 Mar 17 19:16	12- 1 25 06
min. Earth dist.	2843 Sep 20 07:51	28° <b>¥</b> 31′13 28.92004			
opposition	2843 Sep 21 01:54	28° <b>¥</b> 29'58 -1°03'44	conjunction	2850 Apr 02 08:42	13° <b>Y</b> ′00′13 -1°17′10
direct	2843 Dec 08 12:09	27° <b>)</b> €06'52	minimum elong	2850 Apr 02 08:42	13° <b>Y</b> 00'13 1°17'11
evening set	2844 Mar 03 23:48	29° <b>₭</b> 00'10	max. Earth dist.	2850 Apr 03 06:25	13° <b>Y</b> 02'16 30.87021 AU
			morning rise	2850 Apr 18 01:24	13° <b>Ƴ</b> 35'39
conjunction	2844 Mar 19 11:06	29°\ 35'07 -1°01'06	retrograde	2850 Jul 18 06:02	15° <b>Ƴ</b> 34'39
minimum elong	2844 Mar 19 11:05	29° <b>¥</b> 35'07 1°01'06	opposition	2850 Oct 06 20:11	14° <b>Υ</b> '09'32 -1°23'47
max. Earth dist.	2844 Mar 20 04:51	29°\(\frac{1}{3}36'\)48 30.91420	11	2850 Oct 05 22:43	14° <b>Υ</b> 11'02 28.86862 AU
max. Earth dist.	2844 Mar 30 10:08	29 <b>γ</b> 30 48 30.91420	direct		12° <b>γ</b> '46'25
		* *		2850 Dec 23 18:21	
morning rise	2844 Apr 04 01:33	0° <b>Υ</b> 10'23	evening set	2851 Mar 20 07:01	14° <b>Ƴ</b> 39'43
retrograde	2844 Jul 03 23:52	2° <b>Y</b> 08'55			
opposition	2844 Sep 22 15:04	0° <b>Υ</b> 44'03 -1°06'55	conjunction	2851 Apr 04 20:43	15° <b>Ƴ</b> 14'51 -1°19'28
min. Earth dist.	2844 Sep 21 21:17	0° <b>Υ</b> 45'17 28.90954	AU minimum elong	2851 Apr 04 20:43	15° <b>Ƴ</b> 14'51 1°19'28
	2844 Oct 20 15:33	30° <b>₹</b>	max. Earth dist.	2851 Apr 05 18:26	15° <b>Y</b> 16'55 30.86545 AU
direct	2844 Dec 09 22:59	29° <b>¥</b> 20'55	morning rise	2851 Apr 20 13:51	15° <b>Ƴ</b> 50'19
	2845 Jan 27 05:04	$0^{\circ}\Upsilon$	retrograde	2851 Jul 20 20:05	17° <b>Ƴ</b> 49'24
evening set	2845 Mar 06 10:48	1° <b>Υ</b> 14'11	opposition	2851 Oct 09 09:10	16° <b>Y</b> 24'17 -1°26'10
evening set	2043 Iviai 00 10.40	1   1711	**		16° <b>Υ</b> 25'42 28.86385 AU
	2045 14 21 22 24	1000 40110 100 4102	min. Earth dist.	2851 Oct 08 12:37	
conjunction	2845 Mar 21 22:34	1° <b>Υ</b> 49'10 -1°04'02	direct	2851 Dec 26 05:50	15° <b>℃</b> 01'10
minimum elong	2845 Mar 21 22:34	1° <b>Y</b> '49'10 1°04'01	evening set	2852 Mar 21 18:41	16° <b>Ƴ</b> 54'30
max. Earth dist.	2845 Mar 22 18:02	1° <b>Y</b> 51'01 30.90404	AU		
morning rise	2845 Apr 06 13:14	2° <b>Y</b> 24'27	conjunction	2852 Apr 06 08:53	17° <b>Y</b> 29'40 -1°21'39
retrograde	2845 Jul 06 11:41	4° <b>Υ</b> 23'03	minimum elong	2852 Apr 06 08:53	17° <b>Ƴ</b> 29'40 1°21'39
min. Earth dist.	2845 Sep 24 09:00	2° <b>Υ</b> 59'25 28.89990	AU max. Earth dist.	2852 Apr 07 07:13	17° <b>Υ</b> '31'47 30.86043 AU
opposition	2845 Sep 25 03:53	2° <b>Y</b> 58'07 -1°10'00	morning rise	2852 Apr 22 02:19	18° <b>Ƴ</b> 05'10
direct	2845 Dec 12 11:36	1° <b>Y</b> 34'57	retrograde	2852 Jul 22 10:17	20° <b>Υ</b> '04'19
		3° <b>Υ</b> 28'12	=		18° <b>Υ</b> '39'11 -1°28'26
evening set	2846 Mar 08 22:00	3 1 28 12	opposition	2852 Oct 10 22:01	
			min. Earth dist.	2852 Oct 10 00:29	18° <b>Y</b> 40'40 28.85842 AU
conjunction	2846 Mar 24 09:57	4° <b>Υ</b> 03'12 -1°06'52	direct	2852 Dec 27 18:56	17° <b>Ƴ</b> 16'04
minimum elong	2846 Mar 24 09:57	4° <b>Υ</b> 03'12 1°06'52	evening set	2853 Mar 24 06:48	19° <b>Ƴ</b> 09'25
max. Earth dist.	2846 Mar 25 04:57	4° <b>Υ</b> 05'01 30.89496	AU		
morning rise	2846 Apr 09 01:11	4° <b>Υ</b> 38'31	conjunction	2853 Apr 08 21:14	19° <b>Y</b> 44'37 -1°23'42
retrograde	2846 Jul 09 01:28	6° <b>Ƴ</b> 37'12	minimum elong	2853 Apr 08 21:14	19° <b>Ƴ</b> 44'36 1°23'41
opposition	2846 Sep 27 16:50	5° <b>Υ</b> 12'11 -1°12'59	max. Earth dist.	2853 Apr 09 18:39	19° <b>Ƴ</b> 46'38 30.85445 AU
min. Earth dist.	2846 Sep 26 21:34	5° <b>Υ</b> 13'31 28.89154		2853 Apr 24 15:14	20° <b>Υ</b> 20'09
direct	2846 Dec 14 21:38	3° <b>Υ</b> 49'01	retrograde	2853 Jul 25 00:13	22° <b>Υ</b> 19'20
		5° <b>Υ</b> 42'15	•		20° <b>Υ</b> 54'10 -1°30'34
evening set	2847 Mar 11 09:05	3   42/13	opposition	2853 Oct 13 10:53	
			min. Earth dist.	2853 Oct 12 14:23	20° <b>Y</b> 55'35 28.85200 AU
conjunction	2847 Mar 26 21:29	6° <b>Y</b> 17'17 -1°09'36	direct	2853 Dec 30 06:09	19° <b>Ƴ</b> 31′02
minimum elong	2847 Mar 26 21:28	6° <b>Υ</b> 17'17 1°09'35	evening set	2854 Mar 26 18:48	21° <b>Y</b> 24'23
max. Earth dist.	2847 Mar 27 18:06	6° <b>Ƴ</b> 19'14 30.88709	AU		
morning rise	2847 Apr 11 12:54	6° <b>Y</b> 52'38	conjunction	2854 Apr 11 09:50	21° <b>Y</b> 59'37 -1°25'37
retrograde	2847 Jul 11 12:21	8° <b>Ƴ</b> 51′23	minimum elong	2854 Apr 11 09:50	21° <b>Υ</b> '59'37 1°25'38
min. Earth dist.	2847 Sep 29 09:54	7° <b>Y</b> 27'42 28.88431	-	2854 Apr 12 08:07	22° <b>Υ</b> 01'43 30.84745 AU
opposition	2847 Sep 30 05:42	7° <b>Υ</b> 26'20 -1°15'52	morning rise	2854 Apr 27 04:05	22°Υ35'10
	2847 Dec 17 09:34	6° <b>Υ</b> 03'10	•	2854 Jul 27 13:34	24° <b>Y</b> '34'23
direct			retrograde		
evening set	2848 Mar 12 20:24	7° <b>Ƴ</b> 56'24	opposition	2854 Oct 15 23:37	23° <b>Υ</b> 09'10 -1°32'33
			min. Earth dist.	2854 Oct 15 02:41	23° <b>Y</b> 10'37 28.84446 AU
			direct	2855 Jan 01 19:38	21° <b>Ƴ</b> 46′00
conjunction	2848 Mar 28 09:03	8° <b>Y</b> 31'27 -1°12'14			
conjunction minimum elong	2848 Mar 28 09:03 2848 Mar 28 09:02	8° <b>Υ</b> 31'27 1°12'15	evening set	2855 Mar 29 06:52	23° <b>Υ</b> 39'21
•			evening set		
minimum elong	2848 Mar 28 09:02	8° <b>Υ</b> 31'27 1°12'15	evening set		
minimum elong max. Earth dist. morning rise	2848 Mar 28 09:02 2848 Mar 29 05:27	8° <b>Y</b> 31'27 1°12'15 8° <b>Y</b> 33'23 30.88056	evening set AU conjunction	2855 Mar 29 06:52 2855 Apr 13 22:07	23° <b>Y</b> °39'21
minimum elong max. Earth dist. morning rise retrograde	2848 Mar 28 09:02 2848 Mar 29 05:27 2848 Apr 13 00:59 2848 Jul 13 02:37	8° <b>Y</b> 31'27 1°12'15 8° <b>Y</b> 33'23 30.88056 9° <b>Y</b> 06'49 11° <b>Y</b> 05'40	evening set AU  conjunction minimum elong	2855 Mar 29 06:52 2855 Apr 13 22:07 2855 Apr 13 22:07	23° <b>Y</b> 39'21 24° <b>Y</b> 14'36 -1°27'25 24° <b>Y</b> 14'36 1°27'25
minimum elong max. Earth dist. morning rise	2848 Mar 28 09:02 2848 Mar 29 05:27 2848 Apr 13 00:59	8° <b>Υ</b> 31'27 1°12'15 8° <b>Υ</b> 33'23 30.88056 9° <b>Υ</b> 06'49	evening set  AU  conjunction minimum elong max. Earth dist.	2855 Mar 29 06:52 2855 Apr 13 22:07	23° <b>Y</b> '39'21 24° <b>Y</b> '14'36 -1°27'25

retrograde	2855 Jul 30 03:06	26° <b>Ƴ</b> 49'25		evening set	2862 Apr 13	20-29	9° <b>8</b> 23'35	
opposition	2855 Oct 18 12:22	25°Υ24'08 -1°3		evening sec	2002 Hpi 13		, <b>02</b> 550	
min. Earth dist.	2855 Oct 17 15:45	25°Υ25'34 28.8		conjunction	2862 Apr 29	14:48	9° <b>8</b> 59'02	-1°36'09
direct	2856 Jan 04 06:35	24° <b>Y</b> 00′55		minimum elong	2862 Apr 29		9° <b>8</b> 59'02	
evening set	2856 Mar 30 18:55	25° <b>Ƴ</b> 54'15		max. Earth dist.	2862 Apr 30		10° <b>8</b> 01'10	30.80289 AU
Č				morning rise	2862 May 15	12:42	10° <b>8</b> 34'49	
conjunction	2856 Apr 15 10:43	26° <b>Y</b> 29'31 -1°2	29'05	retrograde	2862 Aug 14	23:46	12° <b>8</b> 34'07	
minimum elong	2856 Apr 15 10:43	26° <b>Y</b> 29'31 1°2	29'06	min. Earth dist.	2862 Nov 02		11° <b>8</b> 10'10	28.80361 AU
max. Earth dist.	2856 Apr 16 09:00	26° <b>Ƴ</b> 31'38 30.8	83141 AU	opposition	2862 Nov 03		11° <b>8</b> 08'41	-1°43'12
morning rise	2856 May 01 05:50	27° <b>Ƴ</b> 05′08		direct	2863 Jan 19	14:55	9° <b>8</b> 45'17	
retrograde	2856 Jul 31 14:11	29° <b>Ƴ</b> 04′23		evening set	2863 Apr 16	08:53	11° <b>8</b> 38'49	
min. Earth dist.	2856 Oct 19 04:16	27° <b>Υ</b> 40'28 28.8	82839 AU					
opposition	2856 Oct 20 00:55	27° <b>Y</b> ′39′02 -1°3	36'07	conjunction	2863 May 02	03:49	12° <b>8</b> 14'18	-1°36'49
direct	2857 Jan 05 18:59	26° <b>Ƴ</b> 15'46		minimum elong	2863 May 02	03:49	12° <b>8</b> 14'18	1°36'49
evening set	2857 Apr 02 07:01	28° <b>Ƴ</b> 09'05		max. Earth dist.	2863 May 03	03:28	12° <b>8</b> 16'32	30.80226 AU
				morning rise	2863 May 18	01:58	12° <b>8</b> 50'07	
conjunction	2857 Apr 17 23:10	28° <b>Y</b> 44′23 -1°3		retrograde	2863 Aug 17		14° <b>8</b> 49'25	
minimum elong	2857 Apr 17 23:10	28° <b>Y</b> 44′23 1°3	30'37	opposition	2863 Nov 05		13° <b>8</b> 24'01	
max. Earth dist.	2857 Apr 18 20:47	28° <b>Y</b> 46′26 30.8	82370 AU	min. Earth dist.	2863 Nov 04			28.80312 AU
morning rise	2857 May 03 18:52	29° <b>Ƴ</b> 20′02		direct	2864 Jan 22		12° <b>8</b> 00'38	
	2857 May 22 17:00	0°8		evening set	2864 Apr 17	21:44	13° <b>8</b> 54'13	
retrograde	2857 Aug 03 04:04	1° <b>8</b> 19'17						
	2857 Oct 18 21:35	30° <b>₹</b> Υ		conjunction	2864 May 03		14° <b>8</b> 29'44	
opposition	2857 Oct 22 13:23	29° <b>Y</b> 53'53 -1°3		minimum elong	2864 May 03		14° <b>8</b> 29'44	
min. Earth dist.	2857 Oct 21 16:11	29° <b>Y</b> 55′21 28.8	82111 AU	max. Earth dist.	2864 May 04		_	30.80187 AU
direct	2858 Jan 08 05:23	28° <b>Ƴ</b> 30'33			2864 May 17		15° <b>8</b>	
	2858 Mar 24 17:04	0°8		morning rise	2864 May 19		15° <b>8</b> 05'35	
evening set	2858 Apr 04 19:13	0° <b>႘</b> 23'54		retrograde	2864 Aug 19		17° <b>8</b> 04'52	
				min. Earth dist.	2864 Nov 06			28.80274 AU
conjunction	2858 Apr 20 11:50	0° <b>8</b> 59'13 -1°3		opposition	2864 Nov 07		15° <b>8</b> 39'30	-1°44'18
minimum elong	2858 Apr 20 11:50	0° <b>8</b> 59'13 1°3.			2864 Dec 01		15°R <b>8</b>	
max. Earth dist.	2858 Apr 21 10:16	1° <b>8</b> 01'21 30.8	816/6 AU	direct	2865 Jan 23		14° <b>8</b> 16'06	
morning rise	2858 May 06 07:51	1° <b>8</b> 34'54		. ,	2865 Mar 15		15° <b>8</b>	
retrograde	2858 Aug 05 15:44 2858 Oct 24 05:05	3° <b>8</b> 34'09 2° <b>8</b> 10'09 28.8		evening set	2865 Apr 20	10:36	16° <b>8</b> 09'44	
min. Earth dist.		2° <b>8</b> 08'42 -1°3		aamiumatian	2965 May 06	06.27	16° <b>8</b> 45'17	1927142
opposition direct	2858 Oct 25 01:44 2859 Jan 10 15:50	0° <b>8</b> 45'20	5903	conjunction minimum elong	2865 May 06 (2865 May 06 )		16° <b>8</b> 45'17	
evening set	2859 Apr 07 07:24	2° <b>8</b> 38'42		max. Earth dist.	2865 May 07			30.80115 AU
evening set	2039 Apr 07 07.24	2 03642		morning rise	2865 May 22		10 <b>8</b> 4727	30.80113 AU
conjunction	2859 Apr 23 00:27	3° <b>8</b> 14'04 -1°3		retrograde	2865 Aug 21		19° <b>8</b> 20'25	
minimum elong	2859 Apr 23 00:27	3° <b>8</b> 14'04 1°3		opposition	2865 Nov 09		17° <b>8</b> 55'03	-1°44'37
max. Earth dist.	2859 Apr 23 22:57	3° <b>8</b> 16'11 30.8		min. Earth dist.	2865 Nov 08			28.80161 AU
morning rise	2859 May 08 20:56	3° <b>8</b> 49'45		direct	2866 Jan 26		16° <b>8</b> 31'39	20.00101710
retrograde	2859 Aug 08 05:53	5° <b>8</b> 49'01		evening set	2866 Apr 22		18° <b>8</b> 25'17	
opposition	2859 Oct 27 14:03	4° <b>8</b> 23'33 -1°4					0	
min. Earth dist.	2859 Oct 26 16:16	4° <b>8</b> 25'05 28.8		conjunction	2866 May 08	19:52	19° <b>8</b> 00'52	-1°37'55
direct	2860 Jan 13 04:13	3° <b>8</b> 00'10		minimum elong	2866 May 08		19° <b>8</b> 00'52	1°37'55
evening set	2860 Apr 08 19:35	4° <b>8</b> 53'34		max. Earth dist.	2866 May 09			30.79967 AU
	•			morning rise	2866 May 24	19:27	19° <b>8</b> 36'46	
conjunction	2860 Apr 24 13:01	5° <b>8</b> 28'57 -1°3	34'22	retrograde	2866 Aug 24	07:07	21° <b>8</b> 35'59	
minimum elong	2860 Apr 24 13:01	5° <b>8</b> 28'57 1°3	34'22	min. Earth dist.	2866 Nov 11	07:20	20° <b>8</b> 12'02	28.79973 AU
max. Earth dist.	2860 Apr 25 11:40	5° <b>8</b> 31'05 30.8	80703 AU	opposition	2866 Nov 12	03:40	20° <b>8</b> 10'37	-1°44'47
morning rise	2860 May 10 09:59	6° <b>8</b> 04'40		direct	2867 Jan 28	15:29	18° <b>8</b> 47'09	
retrograde	2860 Aug 09 19:00	8° <b>と</b> 03'57		evening set	2867 Apr 25	12:39	20° <b>8</b> 40'48	
min. Earth dist.	2860 Oct 28 05:30	6° <b>と</b> 39'57 28.8	80661 AU					
opposition	2860 Oct 29 02:30	6° <b>႘</b> 38′28 -1°4	11'27	conjunction	2867 May 11	09:24	21° <b>8</b> 16'24	-1°38'00
direct	2861 Jan 14 15:11	5° <b>8</b> 15'04		minimum elong	2867 May 11	09:24	21° <b>8</b> 16'24	1°38'00
evening set	2861 Apr 11 07:54	7° <b>8</b> 08'30		max. Earth dist.	2867 May 12			30.79738 AU
				morning rise	2867 May 27		21° <b>8</b> 52'20	
conjunction	2861 Apr 27 01:56	7° <b>8</b> 43'55 -1°3		retrograde	2867 Aug 26		23° <b>8</b> 51'28	
minimum elong	2861 Apr 27 01:56	7° <b>8</b> 43'55 1°3		opposition	2867 Nov 14		22° <b>8</b> 26'05	
max. Earth dist.	2861 Apr 28 01:13	7° <b>8</b> 46'07 30.8		min. Earth dist.	2867 Nov 13			28.79717 AU
morning rise	2861 May 12 23:15	8° <b>8</b> 19'41		direct	2868 Jan 31		21° <b>8</b> 02'33	
retrograde	2861 Aug 12 09:12	10° <b>8</b> 18'57		evening set	2868 Apr 27	01:33	22° <b>8</b> 56'12	
opposition	2861 Oct 31 14:35	8° <b>8</b> 53'30 -1°4			20/03/	22.40	2201 22:	1025.55
min. Earth dist.	2861 Oct 30 16:30	8° <b>8</b> 55'03 28.8	8045 / AU	conjunction	2868 May 12		23° <b>8</b> 31'50	
direct	2862 Jan 17 03:38	7° <b>8</b> 30'06		minimum elong	2868 May 12	ZZ. <b>49</b>	23° <b>8</b> 31'50	1 3/30

may Earth dist	2060 May 12 10:47	23° <b>8</b> 33'48 30.79482 A	AU opposition	2074 Nov. 20, 01.25	8° <b>Ⅱ</b> 11'24 -1°40'20
max. Earth dist.	2868 May 13 19:47		direct	2874 Nov 30 01:35 2875 Feb 15 15:09	6° <b>П</b> 47'34
morning rise	2868 May 28 23:15	24° <b>8</b> 07'47			
retrograde	2868 Aug 28 07:14	26° <b>8</b> 06'50	evening set	2875 May 13 21:30	8° <b>Ⅱ</b> 41′26
min. Earth dist.	2868 Nov 15 08:02	24° <b>8</b> 42'48 28.79456 A		2075 14 20 22 01	00T17U5 1022U5
opposition	2868 Nov 16 03:43	24° <b>8</b> 41'24 -1°44'37	conjunction	2875 May 29 22:01	9° <b>I</b> 17'15 -1°33'15
direct	2869 Feb 01 15:11	23° <b>8</b> 17'48	minimum elong	2875 May 29 22:01	9° <b>П</b> 17'15 1°33'16
evening set	2869 Apr 29 14:40	25° <b>8</b> 11'27	max. Earth dist.	2875 May 30 17:01	9°П19'02 30.80161 AU
	20/03/	2501 44710 6 4027142	morning rise	2875 Jun 15 01:21	9° <b>Ⅱ</b> 53'20
conjunction	2869 May 15 12:21	25° <b>8</b> 47'06 -1°37'42	retrograde	2875 Sep 14 05:07	11° <b>Ⅱ</b> 51'50
minimum elong	2869 May 15 12:21	25° <b>8</b> 47'06 1°37'42	opposition	2875 Dec 02 13:05	10° <b>I</b> 26'34 -1°39'04
max. Earth dist.	2869 May 16 08:59	25° <b>8</b> 49'03 30.79227 A		2875 Dec 01 19:17	10° <b>I</b> 27′50 28.80537 AU
morning rise	2869 May 31 13:14	26° <b>8</b> 23'04	direct	2876 Feb 18 02:11	9° <b>Ⅱ</b> 02'45
retrograde	2869 Aug 30 19:04	28° <b>8</b> 22'02	evening set	2876 May 15 10:52	10° <b>I</b> 56'41
opposition	2869 Nov 18 15:31	26° <b>8</b> 56'35 -1°44'18			_
min. Earth dist.	2869 Nov 17 21:09	26° <b>8</b> 57'52 28.79231 A	,	2876 May 31 11:57	11° <b>Ⅲ</b> 32'32 -1°32'00
direct	2870 Feb 04 01:45	25° <b>8</b> 32'53	minimum elong	2876 May 31 11:57	11° <b>I</b> 32'32 1°32'00
evening set	2870 May 02 03:41	27° <b>8</b> 26'33	max. Earth dist.	2876 Jun 01 07:15	11° <b>I</b> 34'21 30.80727 AU
			morning rise	2876 Jun 16 15:34	12° <b>Ⅱ</b> 08'39
conjunction	2870 May 18 01:57	28° <b>8</b> 02'14 -1°37'20	retrograde	2876 Sep 15 16:39	14° <b>Ⅱ</b> 07'05
minimum elong	2870 May 18 01:57	28° <b>8</b> 02'14 1°37'20	min. Earth dist.	2876 Dec 03 08:08	12° <b>I</b> 43'05 28.81105 AU
max. Earth dist.	2870 May 18 22:43	28° <b>8</b> 04'11 30.79049 A	* *	2876 Dec 04 00:38	12° <b>Ⅱ</b> 41'55 -1°37'38
morning rise	2870 Jun 03 03:10	28° <b>8</b> 38'12	direct	2877 Feb 19 13:29	11° <b>Ⅱ</b> 18′06
	2870 Jul 16 04:23	$\Pi$ $^{\circ}$ 0	evening set	2877 May 18 00:33	13° <b>Ⅱ</b> 12'06
retrograde	2870 Sep 02 08:31	0° <b>Ⅲ</b> 37′04			
	2870 Oct 21 16:27	30° <b>₹8</b>	conjunction	2877 Jun 03 02:04	13° <b>Ⅱ</b> 47′59 -1°30′36
min. Earth dist.	2870 Nov 20 08:00	29° <b>8</b> 12'58 28.79099 A	AU minimum elong	2877 Jun 03 02:04	13° <b>Ⅱ</b> 47′59 1°30′36
opposition	2870 Nov 21 03:12	29° <b>8</b> 11'37 -1°43'49	max. Earth dist.	2877 Jun 03 20:08	13° <b>Ⅱ</b> 49'41 30.81296 AU
direct	2871 Feb 06 14:25	27° <b>8</b> 47'51	morning rise	2877 Jun 19 06:06	14° <b>Ⅱ</b> 24'07
evening set	2871 May 04 16:41	29° <b>8</b> 41'32	retrograde	2877 Sep 18 06:03	16° <b>Ⅱ</b> 22'28
	2871 May 12 23:53	$\Pi^{\circ}0$	opposition	2877 Dec 06 11:57	14° <b>I</b> 57′23 -1°36′04
			min. Earth dist.	2877 Dec 05 19:27	14° <b>Ⅱ</b> 58'33 28.81644 AU
conjunction	2871 May 20 15:16	0° <b>Ⅱ</b> 17'14 -1°36'49	direct	2878 Feb 22 01:09	13° <b>Ⅱ</b> 33'33
minimum elong	2871 May 20 15:16	0° <b>Ⅱ</b> 17'14 1°36'48	evening set	2878 May 20 14:20	15° <b>Ⅱ</b> 27'38
max. Earth dist.	2871 May 21 11:12	0° <b>Ⅱ</b> 19'07 30.78974 Å	AU		
morning rise	2871 Jun 05 17:00	0° <b>Ⅲ</b> 53'14	conjunction	2878 Jun 05 16:15	16° <b>Ⅱ</b> 03'32 -1°29'04
retrograde	2871 Sep 04 21:48	2° <b>Ⅲ</b> 52′01	minimum elong	2878 Jun 05 16:15	16° <b>Ⅱ</b> 03'32 1°29'04
opposition	2871 Nov 23 15:00	1° <b>Ⅱ</b> 26'33 -1°43'11	max. Earth dist.	2878 Jun 06 09:33	16° <b>Ⅱ</b> 05'10 30.81792 AU
min. Earth dist.	2871 Nov 22 20:47	1° <b>Ⅲ</b> 27′50 28.79100 Å	AU morning rise	2878 Jun 21 20:37	16° <b>Ⅱ</b> 39'41
direct	2872 Feb 09 01:55	0° <b>Ⅲ</b> 02'45	retrograde	2878 Sep 20 18:14	18° <b>Ⅱ</b> 37'57
evening set	2872 May 06 05:42	1° <b>Ⅲ</b> 56′27	opposition	2878 Dec 08 23:34	17° <b>Ⅱ</b> 12'55 -1°34'21
			min. Earth dist.	2878 Dec 08 08:49	17° <b>Ⅱ</b> 13'58 28.82099 AU
conjunction	2872 May 22 04:56	2° <b>Ⅲ</b> 32′11 -1°36′09	direct	2879 Feb 24 11:04	15° <b>Ⅱ</b> 49'04
minimum elong	2872 May 22 04:56	2° <b>II</b> 32'11 1°36'09	evening set	2879 May 23 03:52	17° <b>Ⅱ</b> 43'11
max. Earth dist.	2872 May 23 01:44	2° <b>Ⅱ</b> 34'08 30.79051 A			
morning rise	2872 Jun 07 06:56	3° <b>Ⅲ</b> 08′12	conjunction	2879 Jun 08 06:20	18° <b>Ⅱ</b> 19'06 -1°27'24
retrograde	2872 Sep 06 11:21	5° <b>Ⅱ</b> 06'54	minimum elong	2879 Jun 08 06:20	18° <b>Ⅱ</b> 19'06 1°27'24
min. Earth dist.	2872 Nov 24 07:49	3° <b>Ⅱ</b> 42'46 28.79247 A	AU max. Earth dist.	2879 Jun 08 22:57	18° <b>Ⅱ</b> 20'40 30.82214 AU
opposition	2872 Nov 25 02:29	3° <b>Ⅱ</b> 41'27 -1°42'24	morning rise	2879 Jun 24 11:01	18° <b>Ⅱ</b> 55'16
direct	2873 Feb 10 15:29	2° <b>Ⅱ</b> 17'37	retrograde	2879 Sep 23 07:04	20° <b>Ⅱ</b> 53′25
evening set	2873 May 08 18:59	4° <b>Ⅱ</b> 11'22	opposition	2879 Dec 11 10:57	19° <b>Ⅱ</b> 28′26 -1°32′30
			min. Earth dist.	2879 Dec 10 19:58	19° <b>Ⅱ</b> 29'29 28.82468 AU
conjunction	2873 May 24 18:33	4° <b>Ⅱ</b> 47'07 -1°35'20	direct	2880 Feb 26 23:41	18° <b>Ⅱ</b> 04'31
minimum elong	2873 May 24 18:33	4° <b>Ⅱ</b> 47'07 1°35'20	evening set	2880 May 24 17:43	19° <b>Ⅱ</b> 58'40
max. Earth dist.	2873 May 25 14:04	4° <b>Ⅱ</b> 48'57 30.79281 A	ΛU		
morning rise	2873 Jun 09 21:08	5° <b>Ⅲ</b> 23′10	conjunction	2880 Jun 09 20:30	20° <b>Ⅱ</b> 34'37 -1°25'36
retrograde	2873 Sep 09 01:09	7° <b>Ⅲ</b> 21'47	minimum elong	2880 Jun 09 20:30	20° <b>Ⅱ</b> 34'37 1°25'36
opposition	2873 Nov 27 14:07	5° <b>I</b> I56′23 -1°41′26	max. Earth dist.	2880 Jun 10 11:37	20° <b>I</b> 36′02 30.82551 AU
min. Earth dist.	2873 Nov 26 20:01	5° <b>Ⅱ</b> 57'40 28.79557 A	Č	2880 Jun 26 01:37	21° <b>Ⅱ</b> 10'47
direct	2874 Feb 13 02:19	4° <b>Ⅲ</b> 32'32	retrograde	2880 Sep 24 19:20	23° <b>Ⅱ</b> 08'48
evening set	2874 May 11 08:07	6° <b>Ⅱ</b> 26′20	opposition	2880 Dec 12 22:15	21° <b>I</b> I43′50 -1°30′30
			min. Earth dist.	2880 Dec 12 08:57	21° <b>Д</b> 44'46 28.82784 AU
conjunction	2874 May 27 08:17	7° <b>Ⅱ</b> 02'07 -1°34'22	direct	2881 Feb 28 11:19	20° <b>Ⅱ</b> 19'51
minimum elong	2874 May 27 08:18	7° <b>Ⅱ</b> 02'07 1°34'22	evening set	2881 May 27 07:24	22° <b>Ⅱ</b> 14′02
max. Earth dist.	2874 May 28 04:40	7° <b>Ⅱ</b> 04'02 30.79657 A	AU		
morning rise	2874 Jun 12 11:05	7° <b>Ⅱ</b> 38'11	conjunction	2881 Jun 12 10:48	22° <b>Ⅱ</b> 50′00 -1°23′40
retrograde	2874 Sep 11 14:09	9° <b>Ⅱ</b> 36'44	minimum elong	2881 Jun 12 10:48	22°II50'00 1°23'40
min. Earth dist.	2874 Nov 29 07:44	8° <b>Ⅱ</b> 12'40 28.79990 A	AU max. Earth dist.	2881 Jun 13 02:00	22° <b>Ц</b> 51'25 30.82860 AU

morning rise	2881 Jun 28 16:07	23° <b>Ⅱ</b> 26′10	direct	2888 Mar 16 00:05	6° <b>≤</b> 03'20
retrograde	2881 Sep 27 08:00	25° <b>I</b> I24'02	evening set	2888 Jun 12 07:15	7° <b>9</b> 57'44
•	2881 Dec 15 09:25	23° <b>∏</b> 59'05 -1°28'22	•	2000 Juli 12 07.13	/ 93/44
opposition				2000 1 20 12 14	00622140 100740
min. Earth dist.	2881 Dec 14 20:09	24° <b>I</b> 100'01 28.8307	,	2888 Jun 28 13:14	8°533'48 -1°06'49
direct	2882 Mar 03 01:00	22° <b>I</b> I35'02	minimum elong	2888 Jun 28 13:14	8°533'48 1°06'49
evening set	2882 May 29 21:08	24° <b>Ⅱ</b> 29'14	max. Earth dist.	2888 Jun 28 23:59	8°534'49 30.87184 AU
			morning rise	2888 Jul 14 20:24	9° <b>©</b> 10'01
conjunction	2882 Jun 15 00:45	25° <b>I</b> 105'12 -1°21'3'	· ·	2888 Oct 13 00:36	11°506'52
minimum elong	2882 Jun 15 00:45	25° <b>Ⅱ</b> 05'12 1°21'30	11	2888 Dec 30 13:50	9° <b>5</b> 42'17 -1°09'55
max. Earth dist.	2882 Jun 15 14:17	25° <b>I</b> 106'28 30.8317		2888 Dec 30 04:14	9°542'57 28.87708 AU
morning rise	2882 Jul 01 06:31	25° <b>Ⅱ</b> 41'23	direct	2889 Mar 18 12:22	8° <b>©</b> 17'57
retrograde	2882 Sep 29 21:14	27° <b>II</b> 39'06	evening set	2889 Jun 14 21:19	10° <b>©</b> 12'26
opposition	2882 Dec 17 20:33	26° <b>I</b> 14'09 -1°26'0			
min. Earth dist.	2882 Dec 17 08:16	26° <b>Ⅱ</b> 15'02 28.8341	19 AU conjunction	2889 Jul 01 03:29	10°548'31 -1°03'58
direct	2883 Mar 05 12:00	24° <b>Ⅲ</b> 50′02	minimum elong	2889 Jul 01 03:29	10°548'31 1°03'58
evening set	2883 Jun 01 10:43	26° <b>Ⅱ</b> 44'15	max. Earth dist.	2889 Jul 01 12:45	10°9549'23 30.88149 AU
			morning rise	2889 Jul 17 10:52	11°9524'44
conjunction	2883 Jun 17 14:54	27° <b>Ⅲ</b> 20′15 -1°19′20	6 retrograde	2889 Oct 15 12:12	13° <b>©</b> 21'28
minimum elong	2883 Jun 17 14:54	27° <b>Ⅲ</b> 20′15 1°19′20	6 opposition	2890 Jan 02 00:45	11°956'58 -1°06'49
max. Earth dist.	2883 Jun 18 04:59	27° <b>Ⅲ</b> 21'34 30.8354	46 AU min. Earth dist.	2890 Jan 01 16:55	11°957'31 28.88662 AU
morning rise	2883 Jul 03 20:47	27° <b>Ⅱ</b> 56′26	direct	2890 Mar 20 22:53	10°932'38
retrograde	2883 Oct 02 10:11	29° <b>Ⅱ</b> 53'59	evening set	2890 Jun 17 11:11	12° <b>©</b> 27'11
opposition	2883 Dec 20 07:32	28° <b>Ⅲ</b> 29'03 -1°23'43	3		
min. Earth dist.	2883 Dec 19 19:43	28° <b>Ⅲ</b> 29'54 28.8383	33 AU conjunction	2890 Jul 03 17:45	13°503'17 -1°01'01
direct	2884 Mar 07 01:59	27° <b>Ⅲ</b> 04′52	minimum elong	2890 Jul 03 17:45	13°903'17 1°01'01
evening set	2884 Jun 03 00:25	28° <b>Ⅱ</b> 59'06	max. Earth dist.	2890 Jul 04 02:45	13°504'07 30.89073 AU
•			morning rise	2890 Jul 20 01:09	13°939'29
conjunction	2884 Jun 19 04:52	29° <b>Ⅲ</b> 35′07 -1°17′08	_	2890 Oct 18 00:22	15°936'05
minimum elong	2884 Jun 19 04:52	29° <b>Ⅲ</b> 35′07 1°17′08	_	2891 Jan 04 11:33	14°9511'40 -1°03'37
max. Earth dist.	2884 Jun 19 17:18	29° <b>II</b> 36'17 30.8402	**	2891 Jan 04 04:02	14°9512'12 28.89534 AU
	2884 Jun 30 07:55	0°9	direct	2891 Mar 23 11:38	12°547'19
morning rise	2884 Jul 05 11:13	0°511'18	evening set	2891 Jun 20 01:18	14°9541'55
retrograde	2884 Oct 04 00:03	2° <b>©</b> 08'43	- · · · · · · · · · · · · · · · · · · ·		
opposition	2884 Dec 21 18:30	0°543'49 -1°21'1	1 conjunction	2891 Jul 06 07:59	15° <b>©</b> 18'01 -0°57'59
min. Earth dist.	2884 Dec 21 06:47	0°544'38 28.843	,	2891 Jul 06 07:59	15°5018'01 0°58'00
mm. Bartii dist.	2885 Jan 17 20:14	30°RII	max. Earth dist.	2891 Jul 06 14:50	15°S18'39 30.89903 AU
direct	2885 Mar 09 14:16	29° <b>Ⅱ</b> 19'34	morning rise	2891 Jul 22 15:40	15° <b>©</b> 54'13
direct	2885 Apr 28 02:32	0°95	retrograde	2891 Oct 20 13:07	17° <b>©</b> 50'40
evening set	2885 Jun 05 14:07	1°©13'50	opposition	2892 Jan 06 22:20	16°\$26'19 -1°00'19
evening set	2003 Juli 03 14.07	1 31330	min. Earth dist.	2892 Jan 06 16:13	16°\$26'45 28.90321 AU
conjunction	2885 Jun 21 19:02	1° <b>©</b> 49'52 -1°14'4:		2892 Mar 24 22:28	15°901'55
3				2892 Jun 21 15:15	
minimum elong max. Earth dist.	2885 Jun 21 19:02 2885 Jun 22 07:47	1°9549'52 1°14'43 1°951'03 30.8462	· ·	2092 Juli 21 13.13	16°\$56'34
morning rise	2885 Jul 08 01:29	2°\$26'03	conjunction	2892 Jul 07 22:23	17°\$32'40 -0°54'52
retrograde	2885 Oct 06 11:11	4° <b>©</b> 23'18	minimum elong	2892 Jul 07 22:23	17°932'40 -0°54'51
•		2°\$58'27 -1°18'3			
opposition min. Earth dist.	2885 Dec 24 05:23	2°959'12 28.8502		2892 Jul 08 05:10 2892 Jul 24 06:02	17°533'18 30.90641 AU 18°508'52
	2885 Dec 23 18:47	1° <b>9</b> 34'10	· ·		
direct	2886 Mar 12 02:14		retrograde	2892 Oct 22 01:21	20°505'09
evening set	2886 Jun 08 03:50	3°\$28'28	opposition	2893 Jan 08 09:03	18°540'51 -0°56'57
. ,.	2006 1 24 00 02	40004121 101211	min. Earth dist.	2893 Jan 08 03:55	18°5541'13 28.91002 AU
conjunction	2886 Jun 24 09:03	4°504'31 -1°12'12		2893 Mar 27 12:31	17°516'24
minimum elong	2886 Jun 24 09:04	4°504'31 1°12'12	•	2893 Jun 24 05:21	19° <b>©</b> 11'05
max. Earth dist.	2886 Jun 24 20:41	4°505'36 30.8536		2002 X 1 10 12 22	100045110
morning rise	2886 Jul 10 15:50	4°5540'43	conjunction	2893 Jul 10 12:32	19°547'12 -0°51'40
retrograde	2886 Oct 09 00:48	6° <b>©</b> 37'49	minimum elong	2893 Jul 10 12:32	19°547'12 0°51'40
opposition	2886 Dec 26 16:14	5°513'02 -1°15'4'		2893 Jul 10 17:04	19°547'37 30.91299 AU
min. Earth dist.	2886 Dec 26 05:14	5°513'49 28.8583	· ·	2893 Jul 26 20:26	20°523'22
direct	2887 Mar 14 14:01	3°5548'44	retrograde	2893 Oct 24 14:31	22° <b>©</b> 19'30
evening set	2887 Jun 10 17:25	5° <b>©</b> 43'05	opposition	2894 Jan 10 19:35	20°955'14 -0°53'29
			min. Earth dist.	2894 Jan 10 15:00	20°555'33 28.91637 AU
conjunction	2887 Jun 26 23:00	6°519'09 -1°09'3		2894 Mar 30 00:59	19° <b>©</b> 30'42
minimum elong	2887 Jun 26 23:01	6°519'09 1°09'3	· ·	2894 Jun 26 19:13	21° <b>©</b> 25'25
max. Earth dist.	2887 Jun 27 10:25	6°920'13 30.8622			_
morning rise	2887 Jul 13 05:58	6° <b>9</b> 55'21	conjunction	2894 Jul 13 02:44	22°501'32 -0°48'24
retrograde	2887 Oct 11 12:33	8°952'20	minimum elong	2894 Jul 13 02:44	22°501'32 0°48'23
opposition	2887 Dec 29 03:12	7°527'38 -1°12'54		2894 Jul 13 07:16	22°501'58 30.91921 AU
min. Earth dist.	2887 Dec 28 17:47	7° <b>5</b> 28'18 28.8674	43 AU morning rise	2894 Jul 29 10:33	22°537'43

retrograde	2894 Oct 27 01:40	24° <b>©</b> 33'40		evening set	2901 Jul 13 19:17	7° <b>Ω</b> 02'03	
opposition	2895 Jan 13 06:11	24 \$33 40 23°\$09'26 -(	0040150	evening set	2901 Jul 13 19.17	/ <b>86</b> 02 03	
min. Earth dist.	2895 Jan 13 03:01	23°509'20 -0 23°509'39 2		conjunction	2901 Jul 30 03:38	7° <b>Ω</b> 38'09	0022152
direct	2895 Apr 01 13:22	23 <b>3</b> 09 39 2 21° <b>5</b> 44'51	28.92230 AU	minimum elong	2901 Jul 30 03:38 2901 Jul 30 03:38	7° <b>Ω</b> 38'09	
	•			=			30.98515 AU
evening set	2895 Jun 29 08:57	23° <b>©</b> 39'35		max. Earth dist.	2901 Jul 30 03:22	8° <b>Ω</b> 14'12	30.98313 AU
	2005 I.d. 15 16.26	2496515142	0045104	morning rise	2901 Aug 15 11:14		
conjunction	2895 Jul 15 16:36	24°515'42 -(		retrograde	2901 Nov 12 09:23	10° <b>Ω</b> 09'08	0000100
minimum elong	2895 Jul 15 16:36	24°515'42 (		opposition	2902 Jan 29 06:28	8° <b>Ω</b> 45'25	28.99144 AU
max. Earth dist.	2895 Jul 15 19:38	24°515'59 3	60.92566 AU	min. Earth dist.	2902 Jan 29 07:33		28.99144 AU
morning rise	2895 Aug 01 00:37	24°951'51		direct	2902 Apr 17 22:01	7° <b>Ω</b> 20'40	
retrograde	2895 Oct 29 15:06	26°547'38	0046122	evening set	2902 Jul 16 09:10	9° <b>Ω</b> 15'46	
opposition	2896 Jan 15 16:36	25°523'26 -(		. ,.	2002 4 01 17 20	00.051151	0020111
min. Earth dist.	2896 Jan 15 13:19	25°523'40 2	28.92920 AU	conjunction	2902 Aug 01 17:20	9° <b>Ω</b> 51'51	
direct	2896 Apr 03 01:56	23°958'47		minimum elong	2902 Aug 01 17:20	9° <b>Ω</b> 51'51	
evening set	2896 Jun 30 22:47	25° <b>©</b> 53'33		max. Earth dist.	2902 Aug 01 14:55		30.99762 AU
. ,.	2006 1 1 17 06 20	269520141	0041140	morning rise	2902 Aug 18 00:59	10° <b>Ω</b> 27'54	
conjunction	2896 Jul 17 06:38	26°529'41 -(		retrograde	2902 Nov 14 22:11	12° <b>Ω</b> 22'42	0010125
minimum elong	2896 Jul 17 06:39		0°41'39	opposition	2903 Jan 31 16:46	10° <b>Ω</b> 59'05	
max. Earth dist.	2896 Jul 17 09:20	26°\$29'56 3	30.93259 AU	min. Earth dist.	2903 Jan 31 18:20		29.00371 AU
morning rise	2896 Aug 02 14:36	27° <b>©</b> 05'49		direct	2903 Apr 20 09:41	9° <b>Ω</b> 34'18	
retrograde	2896 Oct 31 02:04	29° <b>©</b> 01'26		evening set	2903 Jul 18 22:49	11° <b>Ω</b> 29'28	
opposition	2897 Jan 17 02:58	27° <b>©</b> 37'17 -(					
min. Earth dist.	2897 Jan 17 01:21	27° <b>©</b> 37'24 2	28.93661 AU	conjunction	2903 Aug 04 07:09	12° <b>Ω</b> 05'33	
direct	2897 Apr 05 12:31	26° <b>©</b> 12'35		minimum elong	2903 Aug 04 07:08	12° <b>Ω</b> 05'33	
evening set	2897 Jul 03 12:33	28° <b>©</b> 07'22		max. Earth dist.	2903 Aug 04 04:35		31.00942 AU
		_		morning rise	2903 Aug 20 14:29	12° <b>Ω</b> 41'34	
conjunction	2897 Jul 19 20:34	28° <b>©</b> 43'30 -0		retrograde	2903 Nov 17 09:20	14° <b>Ω</b> 36'14	
minimum elong	2897 Jul 19 20:34		0°38'13	opposition	2904 Feb 03 03:10	13° <b>Ω</b> 12'41	
max. Earth dist.	2897 Jul 19 22:33	28°5643'41 3	30.94063 AU	min. Earth dist.	2904 Feb 03 06:26		29.01500 AU
morning rise	2897 Aug 05 04:32	29°©19'38		direct	2904 Apr 21 22:01	11° <b>Ω</b> 47'54	
	2897 Aug 24 17:01	0°Ω		evening set	2904 Jul 20 12:44	13° <b>Ω</b> 43′05	
retrograde	2897 Nov 02 13:06	1° <b>Ω</b> 15′04				_	
	2898 Jan 14 05:54	30° <b>₹</b> 5		conjunction	2904 Aug 05 20:54	14° <b>Ω</b> 19'09	
opposition	2898 Jan 19 13:17	29° <b>©</b> 50'59 -(		minimum elong	2904 Aug 05 20:54	14° <b>Ω</b> 19'09	0°12'44
min. Earth dist.	2898 Jan 19 11:11	29° <b>©</b> 51'08 2	28.94520 AU	behind sun begin	2904 Aug 05 16:53	14° <b>Ω</b> 18'47	
direct	2898 Apr 08 01:06	28° <b>©</b> 26'14		behind sun end	2904 Aug 06 00:56	14° <b>Ω</b> 19'30	
	2898 Jun 26 03:48	$0 {\circ} \Omega$		max. Earth dist.	2904 Aug 05 16:19		31.02027 AU
evening set	2898 Jul 06 02:11	0° <b>Ω</b> 21'04		morning rise	2904 Aug 22 04:12	14° <b>Ω</b> 55'08	
		_			2904 Aug 24 10:20	15° <b>Ω</b>	
conjunction	2898 Jul 22 10:12	0° <b>Ω</b> 57'11 -(		retrograde	2904 Nov 18 22:45	16° <b>Ω</b> 49'38	
minimum elong	2898 Jul 22 10:12	0° <b>Ω</b> 57'11 (		opposition	2905 Feb 04 13:20	15° <b>Ω</b> 26′09	
max. Earth dist.	2898 Jul 22 11:14	0° <b>Ω</b> 57'17 3	30.94988 AU	min. Earth dist.	2905 Feb 04 16:47		29.02531 AU
morning rise	2898 Aug 07 18:09	1° <b>Ω</b> 33'19			2905 Feb 20 06:05	15°R <b>Ω</b>	
retrograde	2898 Nov 04 23:36	3° <b>Ω</b> 28'37		direct	2905 Apr 24 11:27	14° <b>Ω</b> 01'19	
opposition	2899 Jan 21 23:43	2° <b>Ω</b> 04'36 -0			2905 Jun 24 18:21	15° <b>Ω</b>	
min. Earth dist.	2899 Jan 21 22:52	2° <b>Ω</b> 04'39 2	28.95524 AU	evening set	2905 Jul 23 02:32	15° <b>Ω</b> 56'33	
direct	2899 Apr 10 11:01	0° <b>Ω</b> 39'50				_	
evening set	2899 Jul 08 15:47	2° <b>Ω</b> 34'43		conjunction	2905 Aug 08 10:42	16° <b>Ω</b> 32'36	
				minimum elong	2905 Aug 08 10:42	16° <b>Ω</b> 32'36	0°09'01
conjunction	2899 Jul 25 00:02	3° <b>Ω</b> 10′50 -0		behind sun begin	2905 Aug 08 05:06	16° <b>£</b> 32′06	
minimum elong	2899 Jul 25 00:02	3° <b>Ω</b> 10′50 (		behind sun end	2905 Aug 08 16:17	16° <b>Ω</b> 33'05	
max. Earth dist.	2899 Jul 25 01:08	3° <b>Ω</b> 10′56 3	30.96068 AU	max. Earth dist.	2905 Aug 08 05:31		31.03005 AU
morning rise	2899 Aug 10 07:52	3° <b>Ω</b> 46'56		morning rise	2905 Aug 24 17:40	17° <b>Ω</b> 08'33	
retrograde	2899 Nov 07 10:47	5° <b>Ω</b> 42'06		retrograde	2905 Nov 21 09:13	19° <b>Ω</b> 02'54	
opposition	2900 Jan 24 09:53	4° <b>Ω</b> 18'11 -0		opposition	2906 Feb 06 23:43	17° <b>Ω</b> 39'27	
min. Earth dist.	2900 Jan 24 09:02	4° <b>Ω</b> 18'14 2	28.96657 AU	min. Earth dist.	2906 Feb 07 05:05		29.03473 AU
direct	2900 Apr 12 22:28	2° <b>Ω</b> 53'24		direct	2906 Apr 26 23:11	16° <b>Ω</b> 14'35	
evening set	2900 Jul 11 05:36	4° <b>Ω</b> 48'22		evening set	2906 Jul 25 16:03	18° <b>Ω</b> 09'49	
conjunction	2900 Jul 27 13:47	5° <b>Ω</b> 24'28 -0		conjunction	2906 Aug 11 00:07	18° <b>Ω</b> 45'50	
minimum elong	2900 Jul 27 13:47	5° <b>Ω</b> 24'28 (		minimum elong	2906 Aug 11 00:07	18° <b>Ω</b> 45'50	0°05'16
max. Earth dist.	2900 Jul 27 13:14	5° <b>Ω</b> 24'25 3	30.97261 AU	behind sun begin	2906 Aug 10 17:44	18° <b>Ω</b> 45'16	
morning rise	2900 Aug 12 21:41	6° <b>Ω</b> 00'33		behind sun end	2906 Aug 11 06:29	18° <b>Ω</b> 46'24	
retrograde	2900 Nov 09 22:21	7° <b>Ω</b> 55'36		max. Earth dist.	2906 Aug 10 17:51		31.03923 AU
opposition	2901 Jan 26 20:13	6° <b>Ω</b> 31'47 -0		morning rise	2906 Aug 27 06:56	19° <b>Ω</b> 21'45	
min. Earth dist.	2901 Jan 26 20:24	6° <b>Ω</b> 31'46 2	28.97893 AU	retrograde	2906 Nov 23 20:24	21° <b>Ω</b> 15'56	
direct	2901 Apr 15 08:47	5° <b>Ω</b> 07'01		opposition	2907 Feb 09 09:51	19° <b>Ω</b> 52'32	-0°03'34

Second column	min. Earth dist.	2007 Fab. 00, 15:04	19° <b>Ω</b> 52'10 29.043€	SI AII	2912 Jun 22 06:41	0° <b>m</b>	
opening set         by Nat 2 (2014)         Cargination         Conjunction         Conjunction         Cargination		2907 Feb 09 15:04					
1		_		evening set	2912 Aug 08 00.19	1 11/2312	
copience         907 Aug 13 1333         907 Seys 10 30 90         907 130 13 10 50         907 130 10 30 90         907 Aug 13 10 50         907 20 50 13 10 50         907 20 10 13 10 50         907 20 10 13 10 50         907 20 10 10 10 10 10 10 10 10 10 10 10 10 10	evening set	2707 Jul 20 05.40	20 6622 30	conjunction	2912 Aug 24 07:23	2°m01'05	0°17'16
Mathematical   Math	conjunction	2907 Aug 13 13:35	20°Ω58'50 -0°01'29	•	•	-	
Debind sum begin   2007 Aug 13 e6.59   2074.8815   2007.8815   2007.8481   2007.3491   2007.3491   2007.3891   2007.3891   2007.3891   2007.3891   2007.3491   2007.3491   2007.3491   2007.3491   2007.3491   2007.3491   2007.3491   2007.3491   2007.3491   2007.3491   2008.3491   3007.3591   2008.3491   3007.3591   2008.3491   3	,	•		•	•		
Debut and war and wa	•	•			•	~	
max. Earth dist.         2907 Aug 12 0.007         CPU 25/18 01         21/93 44 02         21 12 2.0         219 7070 80         2007 3.0         2007 3.0         2007 3.0         2007 3.0         2007 3.0         2007 3.0         2007 3.0         2008 3.0         10 100 41         21/92 76         rine fair dist         2918 Aug 10 10 13.9         270 75 74         2007 75 70         cerving sed         2913 Aug 12 0.11 3.9         3789 774         2007 75 70         cerving sed         2913 Aug 12 0.11 3.9         3789 774         2007 75 70         2007 75 70         cerving sed         2913 Aug 25 0.019         4781 223         0.000 75 70         2007 75 70         2	•	•		· ·	•	-	
momentage   2907 Aug   29 2019   21/2444   circe   2913 Aug   20 27.64   2790028   20 1078 AU   circerograde   2907 Aug   20 650   23 21/2578   circer   2913 Aug   20 1339   379373   circer   2915 Aug   20 1339   379373   circer   2916 Aug   20 139   379373   circer   2916 Aug   20 19   379373   circer   2916 Aug   20 19   379373   circer   2913 Aug   20 19   4791273   circer   2916 Aug		•		_		-	0°20'22
Personance   2907 Nov   20 06.50   27/2884   direct   2913 Aug   12 08.15   1942   5 0 000 000 000 000 000 000 000 000 0	morning rise	•	21° <b>Ω</b> 34'44	= =	2913 Feb 22 07:46	3° Mp 06'28	29.10787 AU
Pope	•	•	23° <b>Ω</b> 28'44	direct	2913 May 12 08:15	1° m/42'05	
	asc. node	2908 Jan 01 09:43	23° <b>Ω</b> 07′26	evening set	2913 Aug 10 13:39	3° <b>m</b> 37'34	
	opposition	2908 Feb 11 19:58	22° <b>Ω</b> 05'22 0°00'2	7			
Powering set   1908   29   1908   22   23   23   23   23   23   23   2	min. Earth dist.	2908 Feb 12 02:46	22° <b>Ω</b> 04'53 29.0524	41 AU conjunction	2913 Aug 26 20:19	4° Mp 13'25	0°20'56
Conjunction	direct	2908 Apr 30 22:34	20° <b>Ω</b> 40′22	minimum elong	2913 Aug 26 20:19	4° Mp 13′25	0°20'56
	evening set	2908 Jul 29 19:08	22° <b>Ω</b> 35'37	max. Earth dist.	2913 Aug 26 09:03	4° Mp 12′23	31.11473 AU
Positional mone   2008 Aug   1 0 3.01   23°Q1/101   min. Earth dist.   2914 Feb   24 0824   57°B   1928   921216 AU     Positional mean   2908 Aug   15 0937   23°Q1/211   direct   2914 Aug   13 02:44   57°B   1928   921216 AU     Positional max   2908 Aug   16 1922   23°Q1/215   30°C478     Positional mean   2908 Aug   16 1922   23°Q1/215   50°C478     Positional mean   2909 Feb   10 1225   24°Q1/179   50°C478     Positional mean   2909 Feb   10 1225   24°Q1/179   50°C478     Positional mean   2909 Feb   10 1225   24°Q1/179   50°C478     Positional mean   2909 Aug   10 1037   22°C3/255   60°C478     Positional mean   2909 Aug   10 1037   22°C3/255   60°C478     Positional mean   2909 Aug   11 1608   23°Q1/240   00°007   direct   2914 Aug   29 0911   60°B, 25'90   02°475     Positional mean   2909 Aug   11 1608   23°Q1/240   00°007   direct   2914 Aug   29 1014   00°B, 25'90   02°475     Positional mean   2909 Aug   11 1608   23°Q1/240   00°007   direct   2914 Aug   29 1014   00°B, 25'90   02°475     Positional mean   2909 Aug   11 1608   23°Q1/240   00°007   direct   2915 Feb   20°164   00°B, 20°47     Positional mean   2909 Aug   11 1608   23°Q1/243   00°007   direct   2915 Feb   20°164   00°B, 20°47     Positional mean   2909 Aug   11 1608   23°Q1/243   00°007   direct   2915 Aug   10°B, 20°47   00°B, 20°47     Positional mean   2909 Aug   11 1608   23°Q1/243   00°C07   direct   2915 Aug   10°B, 20°47   00°B, 20°47     Positional mean   2909 Aug   10°C59   23°Q1/243   00°C07   direct   2915 Aug   10°B, 20°47   00°B, 20°47     Positional mean   2909 Aug   10°C59   23°Q1/243   00°C07   direct   2915 Aug   10°B, 20°C3   00°B, 20°C3   00°B				morning rise	2913 Sep 12 01:00	4° <b>™</b> 49'05	
Debind sun negan   2008 Aug   14 20:26   23°-\$\(Cal 110"\)   10	conjunction	2908 Aug 15 03:03	23° <b>Ω</b> 11'36 0°02'23	3 retrograde	2913 Dec 09 00:17	6° Mp 42′24	
Debind sum end   2008 Aug 15 09:37   23°A[1271]   cmax. Earth dist.   2008 Aug 14 19:22   23°A[1075   st.05687 AU   cevering set   2914 Aug 13 02:44   5°R] 50°C   cretograde   2908 Nov 27 16:58   25°A[4718   conjunction   2914 Aug 29 09:11   6°R] 25°C   0°P475   cmin. Earth dist.   2909 Feb 13 12:56   24°A[178   conjunction   2914 Aug 29 09:11   6°R] 25°C   0°P475   cmin. Earth dist.   2909 Feb 13 12:56   24°A[178   cmax. Earth dist.   2914 Aug 29 09:11   6°R] 25°C   0°P475   cevering set   2909 Aug 10 08:36   24°A[478   cmax. Earth dist.   2914 Aug 29 09:11   6°R] 25°C   0°P475   cevering set   2909 Aug 17 16:08   25°A[2419   cmax. Earth dist.   2914 Aug 28 1214   6°R] 2478   13124 AU   direct   2909 Aug 17 16:08   25°A[2419   cmorphism   2915 Feb 26 18:40   7°R] 3170   791354 AU   2709   cmorphism   2909 Aug 17 16:08   25°A[2419   cmorphism   2915 Aug 15 16:01   6°R] 25°C   2704   cmorphism   2916 Aug 17 16:08   25°A[2419   cmorphism   2915 Aug 15 16:01   6°R] 25°C   2704   cmorphism   2916 Aug 17 16:08   25°A[2419   cmorphism   2915 Aug 15 16:01   6°R] 25°C   2704   cmorphism   2916 Aug 18 16:01   6°R] 25°C   2704   cmorphism   2916 Aug 18 16:01   6°R] 25°C   2704   cmorphism   2915 Aug 18 16:01   6°R] 25°C   2704   cmorphism   2915 Aug 18 16:02   8°R] 35°C   2704   cmorphism   2916 Aug 18 16:01   6°R] 25°C   2704   cmorphism   2915 Aug 18 16:02   8°R] 35°C   2704   cmorphism   2915 Aug 18 16:02   8°R] 35°C   2704   cmorphism   2916 Aug 18 16:01   6°R] 35°C   2704   cmorphism   2915 Aug 18 16:02   8°R] 35°C   2704   cmorphism   2916 Aug 18 16:02   8°R] 35°C   2704   cmorphism   2915 Aug 18 16:02   8°R] 35°C   2704   cmorphism   2916 Aug 18 16:02   8°R] 35°C   2704   cmorphism   2915 Aug 18 14°C   2916 Aug 1	minimum elong	2908 Aug 15 03:01	23° <b>Ω</b> 11'36 0°02'24	4 opposition	2914 Feb 24 08:24	5° Mp 19′28	0°24'17
morning rise   2008 Aug 14 19:22   23°4,0175   31.0568 7 AU   conjunction   2914 Aug 13 02:44   5°m,5001   70°m,5001   70°m	behind sun begin	2908 Aug 14 20:26	23° <b>Ω</b> 11′01	min. Earth dist.	2914 Feb 24 17:36	5° <b>™</b> 18'49	29.12168 AU
morning rise   2908 Aug 31 09:148   23°47278	behind sun end	2908 Aug 15 09:37	23° <b>Ω</b> 12′11	direct	2914 May 14 21:13	3° Mp 54′28	
Performance   2008 No.w   27   16.58   25.04   17.58   0.0428   17.58   0.0428   17.58   0.0428   17.58   0.0428   17.58   0.0428   17.58   0.0428   17.58   0.0428   17.58   0.0428   17.58   0.0428   17.58   0.0428   17.58   0.0428   17.58   0.0428   0.	max. Earth dist.	2908 Aug 14 19:22	23° <b>Ω</b> 10'55 31.0568	87 AU evening set	2914 Aug 13 02:44	5° <b>m</b> 50'01	
Poposition   2009 Feb 13 6.0c.0   24/21/78   200614 AU   max. Earth dist.   2914 Aug 28 21-14   6°mg.25%   31-284 AU   40'rect   2909 May 03 10.37   22°4/32°52°6   morning rise   2914 Aug 28 21-147   7°mp.12°9   7°mp.12	morning rise	2908 Aug 31 09:18					
mine Earth dist.         2909 Feb 13 12.56         24/Q1729         29.06144 AU         max. Earth dist.         2914 Nep 14 13.21         6° 79248         11.284 1 AU           direct         2909 May 01 0.363         22°4287812         rectograde         2914 Nep 14 13.21         7° 700129         20°2809           conjunction         2909 Aug 17 16.08         25°42409         0°008         mine Earth dist.         2915 Feb 2 16.84         7° 793107         29.13524 AU           behind sun begin         2909 Aug 17 16.08         25°42409         0°0070         direct         2915 Aug 15 16.01         7° 793107         29.13524 AU           behind sun begin         2909 Aug 17 09.53         25°42249         0°0070         evening set         2915 Aug 15 16.01         8° 70231         29.13524 AU           max. Earth dist.         2909 Aug 17 06.59         25°42249         0°007         minime melong         2915 Aug 15 16.03         8° 79321         0°2811           mincifight         2909 Aug 17 06.59         25°42249         0°008         minime melong         2910 Feb 15 16.08         25°42398         0°0328         minime melong         2910 Feb 15 16.08         26°43023         0°0328         minime melong         2910 Feb 2 13-40         0°243         0°243         0°28058         0°28058         0°29518 <td>•</td> <td>2908 Nov 27 16:58</td> <td></td> <td>•</td> <td>2914 Aug 29 09:11</td> <td></td> <td></td>	•	2908 Nov 27 16:58		•	2914 Aug 29 09:11		
direct   2909 May 03 10.37   22°4 Graph   22°4 Graph   2914 Nept 14 13.21   17°4 more   11°4 more	opposition	2909 Feb 13 06:02	• • • • • • •		2914 Aug 29 09:11	6° Mp 25′50	0°24'35
evening set         2909 Aug 01 08:36         24°QA8'12         errorgande         2915 Feb 26 18:40         7°m31'54         0°28'09 20'0 20'0 20'0 20'0 20'0 20'0 20'0 2	min. Earth dist.				•		31.12841 AU
conjunction         UP 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		•		_	•	-	
Conjunction   2909 Aug 17   16.08   25°Q24'09   0°06'08   min. Earth dist.   2915 Feb 27 05-40   5° 0° 13107   29.13524 AU minimum clong   2909 Aug 17 09-53   25°Q24'03   25°Q24'13   25°Q24'14	evening set	2909 Aug 01 08:36	24° <b>Ω</b> 48'12				
Definition   2909 Aug   17   16.08   25° Ω24'09   0°06'07   cerning set   2915 Aug   15   16.01   8° β0'233   cerning set   2909 Sept   22:11   25° Ω25'95   minimum elong   2915 Aug   31   22.08   8° β0'821   0°28'11   morning rise   2909 Nov   30 0.307   27° £35'41   max. Earth dist.   2915 Aug   31   22.08   8° β0'8321   0°28'11   morning rise   2910 Feb   15   16.08   26° £30'23   0°08'28   morning rise   2915 Sep   17   01:59   9° β1'338   min. Earth dist.   2910 Aug   0° 210   290 Feb   2014   20° £0'20'31   20° £0'32   20			_	= =			
behind sun end         2909 Aug 17 09:53         25°Q2435         evening set         2915 Aug 15 16:01         8°m0233         - Central Section of the		· ·					29.13524 AU
Debind sun end   2909 Aug 17 22:23   25°Q2442   25°Q2219   31.06620 AU max. Earth dist.   2909 Aug 17 06:59   25°Q2219   31.06620 AU minimum elong   2915 Aug 31 22:08   8°¶ 38°21   0°28'11   1°26'12   1°	•				•		
Max. Earth dist.   2909 Aug   17 06:59   25°Q23'19   31.06620 AU   conjunction   2915 Aug 31   22:08   8°Pg 38'21   0°28'11   morning rise   2909 Sep 02   22:11   25°Q25'15   minimum clong   2916 Aug 31   20:08   8°Pg 38'21   0°28'11   max. Earth dist.   2915 Aug 31   20:38   8°Pg 38'21   0°28'11   max. Earth dist.   2916 Aug 31   20:39   8°Pg 38'21   31.14160 AU   opposition   2910 Feb 15 16:08   26°Q30'23   0°08'28   morning rise   2915 Sep 17 01:59   9°Pg 13'58   vertically   2910 Aug 05 21:39   25°Q05'18   2907133 AU   retrograde   2915 Dec 13   22:14   11°Pg 0°70   conjunction   2910 Aug 20 05:29   27°Q073'3   0°09'51   min. Earth dist.   2916 Feb 29 15:40   9°Pg 44'23   0°31'59   vertically   2910 Aug 20 05:29   27°Q36'31   0°09'52   vertically   2910 Aug 20 05:29   2010 Aug 20 05:29   0°09'51   0°09'52   0°09'51   0°09'52   0°09'51   0°09'52   0°09'51   0°09'52   0°09'51   0°09'52   0°09'51   0°09'52   0°09'51   0°09'52   0°09'51   0°09'52   0°09'51   0°09'52   0°09'51   0°09'51   0°09'52   0°09'51	_	•		evening set	2915 Aug 15 16:01	8° Щ 02'33	
morning rise   2909 Sep 02   22:11   25° Q59'58   minimum elong   2915 Aug 31   22:08   8° m38'21   3'.14160 AU opposition   2916 Feb 15 16:08   26° Q30'23   0°08'28   morning rise   2915 Aug 31   02:39   8° m37'12   31.14160 AU opposition   2910 Feb 15 16:348   26° Q30'23   0°08'28   morning rise   2915 Dec 13   22:14   11° m07'05		•		20.444	2015 4 21 22 00	00 7 20101	0020111
Petrograde   2909 Nov 30 03:07   27°		Č		,	•		
opposition         2910 Feb 15 16:08         26°Q30'23         0°08'28         morning rise         2915 Sep 17 01:59         9°№13'58         Head of Control of Cont	Č	•		· ·	•		
min. Earth dist.         2910 Feb 15 23:49         26°Ω29'S1         29.07133 AU         retrograde opposition opposition         2915 Feb 2 9 04:43         9° \$\$\p\$44'23         0°31'S9           evening set         2910 Aug 03 21:49         27°Ω00'36         min. Earth dist.         2916 Feb 2 9 15:40         9° \$\$\p\$43'37         29.14790 AU           conjunction         2910 Aug 20 05:20         27°Ω36'32         0°09'S1         evening set         2916 Aug 17 05:21         10° \$\$\p\$15'05         7° \$\$\tag{14790 AU           behind sun begin         2910 Aug 20 05:20         27°Ω36'31         0°09'S2         2916 Sep 02 11:06         10° \$\$\p\$55'33         0°31'45           behind sun begin         2910 Aug 19 20:45         27°Ω36'35         0°09'S2         10° \$\$\p\$55'33         0°31'45           max. Earth dist.         2910 Aug 19 20:45         27°Ω36'35         31.07659 AU         max. Earth dist.         2916 Sep 02 11:06         10° \$\$\p\$55'33         0°31'45           max. Earth dist.         2910 Nov 14 00:29         0° \$\$\p\$0         max. Earth dist.         2916 Sep 02 11:06         10° \$\$\p\$45'33         1.135'59 AU           retrograde         2910 Dec 21 06:38         30° \$\tal{2}\$         opposition         2916 Dec 15 09:20         13° \$\$\p\$19'50           opposition         2911 Feb 18 01:22         28° \$\tal{2}\$<	•				•		31.14100 AU
crect   2910 May 05   21:08   25° \$\bar{\text{QD5}\$18}   27° \$\bar{\text{QD03}\$6}   27° \$\text	* *			Č			
Pevening set   2910 Aug 03 21:49   27° Ω0036   min. Earth dist. direct   2916 Feb 29 15:40   9° m/43'37   29.14790 AU   20 conjunction   2910 Aug 20 05:20   27° Ω36'32   0°09'51   evening set   2916 Aug 17 05:21   10° m/15'07     10° m				C			0°21'50
conjunction         2910 Aug 20 05:09         27° β3632         0°09′51         evening set         2916 Aug 17 05:21         10° № 15°07         10° № 15°07           minimum elong         2910 Aug 20 05:19         27° β3633         0°09′52         evening set         2916 Aug 17 05:21         10° № 15°07         verning set         2916 Sep 02 11:06         10° № 50′53         0°31′45           behind sun begin         2910 Aug 19 24:00         27° β36′03         conjunction         2916 Sep 02 11:06         10° № 50′53         0°31′45           max. Earth dist.         2910 Aug 19 24:05         27° β35′45         31.07659 AU         max. Earth dist.         2916 Sep 02 11:06         10° № 50′53         0°31′45           morning rise         2910 Nov 14 00:29         2°° β26°12°18         morning rise         2916 Sep 18 14:29         11° № 26′27         11° № 26′27         11° № 26′27         11° № 36′51         30° № 18° № 19°30         11° № 37°3         11° № 37°3         11° № 37°3         11° № 37°3         11° № 55′59         29.15938 AU         10° № 18° № 18° № 19°20         11° № 55′59         29.15938 AU         11° № 56′51         0°35′46         11° № 56′51         0°35′46         11° № 56′51         0°35′46         11° № 36′51         0°35′46         11° № 36′51         0°35′46         11° № 30°17         11° № 30°17         11° №		,		**		~	
conjunction minimum elong minimum elong behind sun begin behind sun begin behind sun begin wax. Earth dist.         2910 Aug 20 05:19 27°Ω36'31 0°09'52         conjunction o"952         2916 Sep 02 11:06 10° m50'53 0°31'45         0°31'45 0°31'45           max. Earth dist.         2910 Aug 19 24:00 27°Ω36'03 27°Ω37'00 minimum elong 2916 Sep 02 11:06 2910 Sep 03 11:06 10° m50'53 0°31'45         0°31'45 0°31'45	evening set	2910 Aug 03 21.49	27 000 30				29.14/90 AO
minimum elong         2910 Aug 20 05:19         27° Ω3631         0°09′52         conjunction         2916 Sep 02 11:06         10° №50′53         0°31′45           behind sun end         2910 Aug 19 20:40         27° Ω3700         mainimum elong         2916 Sep 02 11:06         10° №50′53         0°31′45           max. Earth dist.         2910 Aug 19 20:45         27° Ω35′45         31.07659 AU         max. Earth dist.         2916 Sep 02 11:06         10° №9′37         31.15359 AU           morning rise         2910 Nov 14 00:29         0° №         retrograde         2916 Sep 18 14:29         11° №6751         0°35′46           retrograde         2910 Dec 02 12:44         0° №0′55′3         opposition         2917 Mar 02 15:03         11° №55′59         29.15938 AU           opposition         2911 Feb 18 02:12         28° Ω42′05         29.08231 AU         evening set         2917 Mar 02 15:03         11° №55′59         29.15938 AU           direct         2911 May 08 09:30         27° £17134         evening set         2911 May 08 09:30         27° £17134         evening set         2917 Mar 02 15:03         13° №03′22         0°35′16           conjunction         2911 Aug 22 18:14         29° £184′3         0°13′34         max. Earth dist.         2917 Sep 04 23:54         13° №03′22         0°35′16	conjunction	2910 Aug 20 05:20	27°Ω36'32 0°09'5		•	~	
Dehind sun begin   2910 Aug 19 24:00   27°\O36'03   27	,	Č		•	2710 Hug 17 03.21	10 11/13 07	
Debnind sun end   2910 Aug 20 10:38   27° Ω37′00   minimum elong   2916 Sep 02 11:06   10° tp 50′53   0°31′45   max. Earth dist.   2910 Aug 19 20:45   27° Ω35′45   31.07659 AU   morning rise   2916 Sep 01 21:19   10° tp 49′37   31.15359 AU   morning rise   2910 Nov 14 00:29   0° tp   retrograde   2910 Dec 02 12:44   0° tp 05′53   0°	C	-			2916 Sep. 02. 11:06	10° m 50'53	0°31'45
max. Earth dist.         2910 Aug 19 20:45         27° Ω35'45         31.07659 AU         max. Earth dist.         2916 Sep 01 21:19         10° m/49'37         31.15359 AU           morning rise         2910 Sep 05 10:55         28° Ω12'18         morning rise         2916 Sep 18 14:29         11° m/26'27           retrograde         2910 Doc 02 10:44         0° m/55'3         opposition         2917 Mar 02 15:03         11° m/56'51         0°35'46           opposition         2911 Feb 18 02:12         28° Ω42'40         0°12'27         direct         2917 Mar 03 03:38         11° m/56'51         29:15938 AU           direct         2911 May 08 09:30         27° Ω1'734         evening set         2917 Aug 19 18:26         12° m/27'37         10° m/31'55           evening set         2911 Aug 21 18:14         29° Ω48'48         0°13'34         evening set         2917 Sep 04 23:54         13° m/03'22         0°35'16           onjunction         2911 Aug 22 18:14         29° Ω48'48         0°13'34         max. Earth dist.         2917 Sep 04 23:54         13° m/03'22         0°35'16           minimum elong         2911 Aug 22 18:14         29° Ω48'48         0°13'33         morning rise         2917 Sep 04 23:54         13° m/03'22         0°35'16           behind sun begin         2911 Aug 22 18:14	•	=		·	•		
morning rise   2910 Sep 05 10:55   28°\Omega 12'18   morning rise   2916 Sep 18 14:29   11°\Omega 26'27   morning rise   2910 Nov 14 00:29   0°\Omega   retrograde   2910 Dec 15 09:20   13°\Omega 1910 Dec 21 06:38   30°\Omega \Omega   min. Earth dist.   2917 Mar 02 15:03   11°\Omega 55'5   29.15938 AU     opposition   2911 Feb 18 02:12   28°\Omega 24'40   0°12'27   direct   2917 May 21 07:59   10°\Omega 31'55     min. Earth dist.   2911 Feb 18 10:24   28°\Omega 24'05   29.08231 AU   evening set   2917 Aug 19 18:26   12°\Omega 27'37     evening set   2911 Aug 06 11:05   29°\Omega 11'55   29.08231 AU   evening set   2917 Sep 04 23:54   13°\Omega 09'22   0°35'16     evening set   2911 Aug 22 18:14   29°\Omega 48'48   0°13'33   morning rise   2917 Sep 04 23:54   13°\Omega 09'23   31.16438 AU     minimum elong   2911 Aug 22 18:14   29°\Omega 48'48   0°13'33   morning rise   2917 Sep 04 09:43   13°\Omega 09'30   31.16438 AU     behind sun end   2911 Aug 22 14:45   29°\Omega 48'48   0°13'33   morning rise   2917 Sep 21 02:46   13°\Omega 38'53     behind sun end   2911 Aug 22 14:45   29°\Omega 49'07   morning rise   2918 Mar 05 01:19   14°\Omega 09'15   0°39'30     max. Earth dist.   2911 Aug 22 19:10   0°\Omega 09'\Omega 49'33   = evening set   2918 Mar 05 01:19   14°\Omega 09'15   0°39'30     morning rise   2911 Aug 27 19:10   0°\Omega 09'\Omega 49'33   = evening set   2918 May 23 0:10   12°\Omega 49'15   0°39'30     morning rise   2911 Sep 07 23:42   0°\Omega 49'33   = evening set   2918 May 23 0:10   12°\Omega 49'15   0°38'43     opposition   2912 Feb 20 12:15   0°\Omega 54'18   29.09463 AU   minimum elong   2918 Sep 07 12:33   15°\Omega 15'4   0°38'44     opposition   2912 Mar 26 0:17   30°\Omega 49'15   31.07389 AU   minimum elong   2918 Sep 07 12:32   15°\Omega 15'4   0°38'4		•		•	•	-•	
Petrograde   2910 Nov 14 00:29   0° m   retrograde   2916 Dec 15 09:20   13° m 19'30   retrograde   2910 Dec 21 12:44   0° m 05'53   opposition   2917 Mar 02 15:03   11° m 56'51   0° 35'46   opposition   2911 Mar 02 16:03   30'8 M   min. Earth dist.   2917 Mar 03 03:38   11° m 55'59   29.15938 AU   opposition   2911 Feb 18 10:24   28° Q 42'40   0°12'27   direct   2917 May 21 07:59   10° m 31'55   opposition   2911 May 08 09:30   27° Q 17'34   opposition   2911 Aug 06 11:05   29° Q 12'54   opposition   2917 Sep 04 23:54   13° m 03'22   0°35'16   opposition   2911 Aug 22 18:14   29° Q 48'48   0°13'34   max. Earth dist.   2917 Sep 04 09:43   13° m 03'22   0°35'15   opposition   2911 Aug 22 18:14   29° Q 48'48   0°13'33   morning rise   2917 Sep 04 09:43   13° m 03'22   0°35'15   opposition   2911 Aug 22 18:44   29° Q 48'48   0°13'33   morning rise   2917 Sep 04 09:43   13° m 03'8   31'6438 AU   opposition   2918 Mar 05 01:19   14° m 09'15   0°39'30   opposition   2918 Mar 05 01:19   14° m 09'15   0°39'30   opposition   2918 Mar 05 01:19   14° m 09'15   0°39'30   opposition   2918 Mar 05 01:19   14° m 09'15   0°39'30   opposition   2918 Mar 05 01:19   14° m 09'15   0°39'30   opposition   2918 Mar 05 01:19   14° m 09'15   0°39'30   opposition   2918 Mar 05 01:19   14° m 09'15   0°39'30   opposition   2918 Mar 05 01:19   14° m 09'15   0°39'30   opposition   2918 Mar 05 01:19   14° m 09'15   0°39'30   opposition   2918 Mar 05 01:19   14° m 09'15   0°39'30   opposition   2918 Mar 05 01:19   14° m 09'15   0°39'30   opposition   2918 Mar 05 01:19   14° m 09'15   0°39'30   opposition   2918 Mar 05 01:19   14° m 09'15   0°39'30   opposition   0° m 0°	morning rise	•			•		
2910 Dec 21 06:38   30°RΩ   min. Earth dist.   2917 Mar 03 03:38   11° m/55'59   29.15938 AU opposition   2911 Feb 18 02:12   28°Ω42'40   0°12'27   direct   2917 May 21 07:59   10° m/31'55   direct   2911 May 08 09:30   27°Ω17'34   evening set   2911 Aug 06 11:05   29°Ω12'54   conjunction   2917 Sep 04 23:54   13° m/03'22   0°35'16   minimum elong   2911 Aug 22 18:14   29°Ω48'48   0°13'34   max. Earth dist.   2917 Sep 04 09:43   13° m/03'22   0°35'15   2911 Aug 22 18:14   29°Ω48'48   0°13'33   morning rise   2917 Sep 21 02:46   13° m/38'53   2918 Mar 05 01:19   14° m/09'15   0°39'30   14° m/0	Č	•		•	-	-	
opposition         2911 Feb 18 02:12         28° Ω42'40         0°12'27         direct         2917 May 21 07:59         10° 1931'55         Less (12° 1977'34)           min. Earth dist.         2911 May 08 09:30         27° Ω17'34         evening set         2917 Sep 04 23:54         13° 1903'22         0°35'16           evening set         2911 Aug 06 11:05         29° Ω12'54         conjunction         2917 Sep 04 23:54         13° 1903'22         0°35'16           conjunction         2911 Aug 22 18:14         29° Ω48'48         0°13'34         max. Earth dist.         2917 Sep 04 23:54         13° 1902'03         31.16438 AU           minimum elong         2911 Aug 22 18:14         29° Ω48'48         0°13'33         morning rise         2917 Sep 04 09:43         13° 1902'03         31.16438 AU           behind sun begin         2911 Aug 22 14:45         29° Ω48'30         retrograde         2917 Dec 17 19:11         15° 19:15         0°39'30           max. Earth dist.         2911 Aug 22 08:01         29° Ω49'07         opposition         2918 Mar 05 01:19         14° 19'09'15         0°39'30           max. Earth dist.         2911 Aug 22 08:01         29° Ω47'52         31.08826 AU         min. Earth dist.         2918 Mar 05 01:19         14° 19'09'15         0°39'30           retrograde         2911 Dec 05 00	retrograde	2910 Dec 02 12:44	0° m 05'53	opposition	2917 Mar 02 15:03	11° m 56'51	0°35'46
min. Earth dist.         2911 Feb 18 10:24         28° Ω42'05         29.08231 AU         evening set         2917 Aug 19 18:26         12° m/ 27'37         Levening set         2911 May 08 09:30         27° Ω17'34         evening set         2911 Aug 06 11:05         29° Ω12'54         conjunction         2917 Sep 04 23:54         13° m/ 03'22         0°35'16         minimum elong         2917 Sep 04 23:54         13° m/ 03'22         0°35'15         conjunction         2911 Aug 22 18:14         29° Ω48'48         0°13'34         max. Earth dist.         2917 Sep 04 09:43         13° m/ 03'22         0°35'15           conjunction         2911 Aug 22 18:14         29° Ω48'48         0°13'33         morning rise         2917 Sep 04 09:43         13° m/ 03'22         0°35'15           behind sun begin         2911 Aug 22 18:14         29° Ω48'48         0°13'33         morning rise         2917 Sep 04 09:43         13° m/ 03'22         0°30'30           behind sun end         2911 Aug 22 18:14         29° Ω48'48         0°13'33         retrograde         2917 Dec 17 19:11         15° m/ 31'50         0°39'30           max. Earth dist.         2911 Aug 22 08:01         29° Ω49'07         opposition         2918 Mar 05 01:19         14° m/ 09'09'15         0°39'30           morning rise         2911 Aug 27 19:10         0° m/ 24'33         evening set<		2910 Dec 21 06:38	30° <b>₽</b> Ω	min. Earth dist.	2917 Mar 03 03:38	11° <b>m</b> 55'59	29.15938 AU
direct   2911 May 08 09:30   27° Ω17'34	opposition	2911 Feb 18 02:12	28° <b>Ω</b> 42'40 0°12'2	7 direct	2917 May 21 07:59	10° <b>m</b> 31'55	
conjunction   2911 Aug 06 11:05   29° Ω12'54   conjunction   2917 Sep 04 23:54   13° № 03'22   0°35'16   minimum elong   2917 Sep 04 23:54   13° № 03'22   0°35'15	min. Earth dist.	2911 Feb 18 10:24	28° <b>Ω</b> 42'05 29.0823	31 AU evening set	2917 Aug 19 18:26	12° <b>m</b> 27'37	
minimum elong   2911 Aug 22 18:14   29° Ω48'48   0°13'34   max. Earth dist.   2917 Sep 04 09:43   13° № 02'03   31.16438 AU morning rise   2917 Sep 21 02:46   13° № 38'53   15° № 31'50   2918 Mar 05 01:19   14° № 09'15   0°39'30   2911 Aug 22 18:44   29° Ω48'48   0°13'33   2918 Mar 05 01:19   14° № 09'15   0°39'30   2918 Mar 05 01:19   14° № 09'15   0°39'30   2918 Mar 05 01:19   14° № 08'21   29.16948 AU min. Earth dist.   2918 Mar 05 14:13   14° № 08'21   29.16948 AU min. Earth dist.   2918 Mar 05 01:19   12° № 44'19   2918 Mar 05 01:19   14° № 10° 10° 10° 10° 10° 10° 10° 10° 10° 10°	direct	2911 May 08 09:30	27° <b>Ω</b> 17'34				
conjunction         2911 Aug 22 18:14         29° Ω48'48         0°13'34         max. Earth dist.         2917 Sep 04 09:43         13° № 02'03         31.16438 AU           minimum elong         2911 Aug 22 18:14         29° Ω48'48         0°13'33         morning rise         2917 Sep 21 02:46         13° № 38'53         13° № 38'53         13° № 31'50         13° № 31'50         13° № 31'50         15° № 31'50         15° № 31'50         15° № 31'50         15° № 31'50         15° № 31'50         15° № 31'50         14° № 09'15         0°39'30         14° № 09'15         0°39'30         14° № 09'15         0°39'30         14° № 09'15         0°39'30         14° № 08'21         29.16948 AU         14° № 08'21         29.16948 AU         14° № 08'21         29.16948 AU         12° № 44'19         12° № 44'19         12° № 44'19         12° № 44'19         12° № 44'19         12° № 44'19         12° № 44'19         12° № 44'19         12° № 44'19         12° № 44'19         12° № 44'19         12° № 44'19         12° № 10° № 10°         12° № 10° № 10°         12° № 10° № 10°         12° № 10° № 10°         12° № 10° № 10°         12° № 10° № 10°         12° № 10°         12° № 10°         12° № 10°         12° № 10°         12° № 10°         12° № 10°         12° № 10°         12° № 10°         12° № 10°         12° № 10°         12° № 10°         12° № 10°	evening set	2911 Aug 06 11:05	29° <b>Ω</b> 12′54	conjunction	2917 Sep 04 23:54	13° Mp 03′22	0°35'16
minimum elong   2911 Aug 22 18:14   29° Ω48'48   0°13'33   morning rise   2917 Sep 21 02:46   13° № 38'53     behind sun begin   2911 Aug 22 14:45   29° Ω48'30   retrograde   2917 Dec 17 19:11   15° № 31'50     behind sun end   2911 Aug 22 21:44   29° Ω49'07   opposition   2918 Mar 05 01:19   14° № 09'15   0°39'30     max. Earth dist.   2911 Aug 22 08:01   29° Ω47'52   31.08826 AU   min. Earth dist.   2918 Mar 05 14:13   14° № 08'21   29.16948 AU     2911 Aug 27 19:10   0° №   direct   2918 May 23 20:10   12° № 44'19     morning rise   2911 Sep 07 23:42   0° № 24'33   evening set   2918 Aug 22 07:34   14° № 40'02     retrograde   2911 Dec 05 00:40   2° № 18'02     opposition   2912 Feb 20 12:15   0° № 54'53 0°16'25   conjunction   2918 Sep 07 12:33   15° № 15'44 0°38'43     min. Earth dist.   2912 Feb 20 20:23   0° № 54'18   29.09463 AU   minimum elong   2918 Sep 07 12:32   15° № 15'44 0°38'44     2912 Mar 26 20:17   30° № Ω   max. Earth dist.   2918 Sep 06 20:36   15° № 14'15   31.17389 AU				minimum elong	2917 Sep 04 23:54	13° Mp 03′22	0°35'15
behind sun begin behind sun begin behind sun end 2911 Aug 22 21:44 29° Ω 49'07 opposition 2918 Mar 05 01:19 14° № 09'15 0°39'30 max. Earth dist. 2911 Aug 22 08:01 29° Ω 47'52 31.08826 AU min. Earth dist. 2918 Mar 05 14:13 14° № 08'21 29.16948 AU 2911 Aug 27 19:10 0° № direct 2918 May 23 20:10 12° № 44'19 morning rise 2911 Sep 07 23:42 0° № 24'33 evening set 2918 Aug 22 07:34 14° № 40'02 retrograde 2911 Dec 05 00:40 2° № 18'02 opposition 2912 Feb 20 12:15 0° № 54'53 0°16'25 conjunction 2918 Sep 07 12:33 15° № 15'44 0°38'43 min. Earth dist. 2912 Feb 20 20:23 0° № 54'18 29.09463 AU minimum elong 2918 Sep 07 12:32 15° № 15'44 0°38'44 2912 Mar 26 20:17 30° № Ω max. Earth dist. 2918 Sep 06 20:36 15° № 14'15 31.17389 AU	conjunction	2911 Aug 22 18:14	29°N48'48 0°13'34	4 max. Earth dist.	2917 Sep 04 09:43	13°Mp02'03	31.16438 AU
behind sun end 2911 Aug 22 21:44 29° Ω49'07 opposition 2918 Mar 05 01:19 14° 1009'15 0°39'30 max. Earth dist. 2911 Aug 22 08:01 29° Ω47'52 31.08826 AU min. Earth dist. 2918 Mar 05 14:13 14° 1008'21 29.16948 AU direct 2918 May 23 20:10 12° 1004'19 evening rise 2911 Sep 07 23:42 0° 100 12° 100 12° 100 12° 1004'19 evening set 2918 Aug 22 07:34 14° 1000 12° 100 100 100 100 100 100 100 100 100 10	minimum elong	2911 Aug 22 18:14		3 morning rise	2917 Sep 21 02:46	13° <b>m</b> 38'53	
max. Earth dist.       2911 Aug 22 08:01 29° Ω47'52 31.08826 AU 2918 Mar 05 14:13 2918 Mar 05 14:13 14° № 08'21 29.16948 AU 2911 Aug 27 19:10 0° № direct 2918 May 23 20:10 12° № 44'19       2916948 AU 2918 May 23 20:10 12° № 44'19         morning rise retrograde       2911 Dec 05 00:40 20° № 24'33 20° № 24'33 2918 Aug 22 07:34 2918 Aug 20	-	-					
direct   2918 May 23   20:10   12° 10/44'19     morning rise   2911 Sep   07   23:42   0° 10/24'33   evening set   2918 Aug   22   07:34   14° 10/40'02   retrograde   2911 Dec   05   00:40   2° 10/18'02     opposition   2912 Feb   20   12:15   0° 10/54'53   0°16'25   conjunction   2918 Sep   07   12:33   15° 10/15'44   0°38'43   min. Earth dist.   2912 Feb   20   20:23   0° 10/54'18   29.09463 AU   minimum elong   2918 Sep   07   12:32   15° 10/15'44   0°38'44   2912 Mar   26   20:17   30° R. \( \overline{\Omega} \)   max. Earth dist.   2918 Sep   06   20:36   15° 10/14'15   31.17389 AU	behind sun end	=				14° <b>m</b> 09'15	0°39'30
morning rise         2911 Sep 07 23:42         0° tp 24'33         evening set         2918 Aug 22 07:34         14° tp 40'02           retrograde         2911 Dec 05 00:40         2° tp 18'02         5 to 12:15         0° tp 54'53         0° 16'25         conjunction         2918 Sep 07 12:33         15° tp 15'44         0°38'43           min. Earth dist.         2912 Feb 20 20:23         0° tp 54'18         29.09463 AU         minimum elong         2918 Sep 07 12:32         15° tp 15'44         0°38'44           2912 Mar 26 20:17         30° κ.Ω         max. Earth dist.         2918 Sep 06 20:36         15° tp 14'15         31.17389 AU	max. Earth dist.	•					29.16948 AU
retrograde 2911 Dec 05 00:40 2° 10 18'02 opposition 2912 Feb 20 12:15 0° 10 54'18 29.09463 AU minimum elong 2918 Sep 07 12:33 15° 10 15'44 0°38'44 2912 Mar 26 20:17 30° R. \( \overline{\Omega} \) 29.09463 AU max. Earth dist. 2918 Sep 06 20:36 15° 10 14'15 31.17389 AU		•	••		•	12° <b>m</b> 44'19	
opposition       2912 Feb       20       12:15       0° mp 54'53       0° 16'25       conjunction       2918 Sep       07       12:33       15° mp 15'44       0°38'43         min. Earth dist.       2912 Feb       20       20:23       0° mp 54'18       29.09463 AU       minimum elong       2918 Sep       07       12:32       15° mp 15'44       0°38'44         2912 Mar       26       20:17       30° RΩ       max. Earth dist.       2918 Sep       06       20:36       15° mp 14'15       31.17389 AU	•	=		evening set	2918 Aug 22 07:34	14° <b>m</b> 40'02	
min. Earth dist. 2912 Feb 20 20:23 0° 10/54'18 29.09463 AU minimum elong 2918 Sep 07 12:32 15° 10/15'44 0°38'44 2912 Mar 26 20:17 30° RΩ max. Earth dist. 2918 Sep 06 20:36 15° 10/14'15 31.17389 AU	•		•	_			
2912 Mar 26 20:17 30°RΩ max. Earth dist. 2918 Sep 06 20:36 15° Mp 14'15 31.17389 AU	* *		••	·	•		
	mın. Earth dist.			•	•		
airect 2912 May 09 20:26 29°8 629′48 morning rise 2918 Sep 23 15:03 15°顶51′13	T' .				-	-	31.17389 AU
	unect	2912 IVIAY U9 20:26	47 <b>66</b> 4748	morning rise	2910 Sep 23 15:03	15 JUST 13	

2931 Oct 22 19:58

2932 Jan 17 16:21

morning rise

retrograde

14°**♀**19'06

16°**♀**11'04

2925 Jun 08 07:28

2925 Sep 06 23:58

direct

evening set

28° m 05'40

0°**£**01'27

opposition	2932 Apr 04 01:23	14° <b>≏</b> 49'03	1023103	minimum elong	2938 Oct 22 05:07	28° <b>≏</b> 58'21	1°29'49
min. Earth dist.	2932 Apr 04 01:25 2932 Apr 04 20:55		29.29088 AU	morning rise	2938 Oct 22 05:07 2938 Nov 06 20:59	28 <b>≅</b> 3821 29° <b>£</b> 33'00	1 29 49
direct	2932 Apr 04 20:55 2932 Jun 23 15:51	13° <b>£</b> 24'06	29.29088 AU	morning risc	2938 Nov 19 15:59	29 <b>=</b> 33 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
evening set	2932 Sep 22 13:23	15° <b>£</b> 20'01		retrograde	2939 Feb 01 13:00	1°M24'48	
evening set	2932 Sep 22 13.23	13 == 2001		opposition	2939 Apr 20 03:24	0°M02'55	1927/40
agniumation	2932 Oct 08 11:50	15° <b>≏</b> 55'10	1°18'53	min. Earth dist.	1		29.32879 AU
conjunction				min. Earth dist.	2939 Apr 20 23:14		29.32879 AU
minimum elong	2932 Oct 08 11:50	15° <b>£</b> 55'10		1:	2939 Apr 21 21:44	30°R <b>Ω</b>	
max. Earth dist.	2932 Oct 07 13:43		31.29231 AU	direct	2939 Jul 10 01:10	28° <b>£</b> 38'04	
morning rise	2932 Oct 24 06:47	16° <b>£</b> 30'03			2939 Sep 22 14:27	0°M	
retrograde	2933 Jan 19 01:52	18° <b>Ω</b> 21'59	1005100	evening set	2939 Oct 08 21:12	0°M33'57	
opposition	2933 Apr 06 12:00	16° <b>£</b> 59'57			2020 0 . 24 15 56	1000 00151	1001110
min. Earth dist.	2933 Apr 07 08:55		29.29521 AU	conjunction	2939 Oct 24 15:56	1°M08'51	1°31'12
direct	2933 Jun 26 03:09	15° <b>Ω</b> 34'59		minimum elong	2939 Oct 24 15:56	1°M08'51	1°31'11
evening set	2933 Sep 25 01:02	17° <b>≏</b> 30'53		max. Earth dist.	2939 Oct 23 18:23		31.33132 AU
				morning rise	2939 Nov 09 07:05	1°M43'28	
conjunction	2933 Oct 10 22:54	18° <b>Ω</b> 05'59	1°21'00	retrograde	2940 Feb 03 21:10	3°M35'17	
minimum elong	2933 Oct 10 22:53	18° <b>Ω</b> 05'59	1°21'00	opposition	2940 Apr 21 14:12	2°M13'27	
max. Earth dist.	2933 Oct 10 00:31		31.29643 AU	min. Earth dist.	2940 Apr 22 11:06		29.33571 AU
morning rise	2933 Oct 26 17:23	18° <b>≏</b> 40'49		direct	2940 Jul 11 12:27	0° <b>M</b> 48'40	
retrograde	2934 Jan 21 12:28	20° <b>£</b> 32'42		evening set	2940 Oct 10 08:30	2°M44'33	
opposition	2934 Apr 08 22:28	19° <b>≏</b> 10'40		max. Earth dist.	2940 Oct 25 04:08	3° <b>™</b> 17'19	31.33795 AU
min. Earth dist.	2934 Apr 09 18:37		29.29920 AU				
direct	2934 Jun 28 16:40	17° <b>≏</b> 45'41		conjunction	2940 Oct 26 02:33	3° <b>™</b> 19'24	1°32'27
evening set	2934 Sep 27 12:38	19° <b>≏</b> 41'34		minimum elong	2940 Oct 26 02:33	3° <b>™</b> 19'24	1°32'27
max. Earth dist.	2934 Oct 12 11:15	20° <b>≏</b> 14'32	31.30040 AU	morning rise	2940 Nov 10 17:20	3°M53'59	
				retrograde	2941 Feb 05 08:12	5° <b>™</b> 45'50	
conjunction	2934 Oct 13 09:57	20° <b>≙</b> 16'38	1°23'01	opposition	2941 Apr 24 01:04	4° <b>™</b> 24'01	1°39'21
minimum elong	2934 Oct 13 09:57	20° <b>≙</b> 16'38	1°23'01	min. Earth dist.	2941 Apr 24 21:09	4°M22'39	29.34188 AU
morning rise	2934 Oct 29 03:53	20° <b>£</b> 51'26		direct	2941 Jul 13 23:51	2°M59'17	
retrograde	2935 Jan 23 23:28	22° <b>≏</b> 43'16		evening set	2941 Oct 12 19:31	4°M55'10	
opposition	2935 Apr 11 08:55	21° <b>≏</b> 21'14	1°29'40				
min. Earth dist.	2935 Apr 12 05:47	21° <b>≏</b> 19'47	29.30354 AU	conjunction	2941 Oct 28 13:07	5°M29'59	1°33'34
direct	2935 Jul 01 04:24	19° <b>≙</b> 56'14		minimum elong	2941 Oct 28 13:07	5°M29'59	1°33'34
evening set	2935 Sep 30 00:05	21° <b>≏</b> 52'06		max. Earth dist.	2941 Oct 27 15:02	5°M27'56	31.34347 AU
				morning rise	2941 Nov 13 03:16	6°M04'32	
conjunction	2935 Oct 15 20:57	22° <b>≏</b> 27'08	1°24'54	retrograde	2942 Feb 07 17:59	7°M56'24	
minimum elong	2935 Oct 15 20:57	22° <b>≏</b> 27'08	1°24'53	opposition	2942 Apr 26 12:08	6°M34'37	1°40'28
max. Earth dist.	2935 Oct 14 22:54	22° <b>≏</b> 25'05	31.30503 AU	min. Earth dist.	2942 Apr 27 09:27	6°M33′09	29.34689 AU
morning rise	2935 Oct 31 14:18	23° <b>≙</b> 01'53		direct	2942 Jul 16 10:08	5° <b>™</b> 09'54	
retrograde	2936 Jan 26 08:17	24° <b>£</b> 53'41		evening set	2942 Oct 15 06:39	7°M05'46	
opposition	2936 Apr 12 19:29	23° <b>≙</b> 31'40	1°31'37				
min. Earth dist.	2936 Apr 13 15:53	23° <b>₽</b> 30'15	29.30852 AU	conjunction	2942 Oct 30 23:43	7°M40'33	1°34'33
direct	2936 Jul 02 17:31	22° <b>₽</b> 06'41		minimum elong	2942 Oct 30 23:43	7°M40'33	1°34'33
evening set	2936 Oct 01 11:32	24° <b>₽</b> 02'33		max. Earth dist.	2942 Oct 30 01:25	7°M38'28	31.34783 AU
max. Earth dist.	2936 Oct 16 08:56	24° <b>£</b> 35'25	31.31049 AU	morning rise	2942 Nov 15 13:26	8°M15'04	
				retrograde	2943 Feb 10 04:48	10°M06'56	
conjunction	2936 Oct 17 07:42	24° <b>₽</b> 37'32	1°26'40	opposition	2943 Apr 28 22:58	8°M45'09	1°41'27
minimum elong	2936 Oct 17 07:42	24° <b>£</b> 37'32	1°26'40	min. Earth dist.	2943 Apr 29 19:37	8°M43'44	29.35048 AU
morning rise	2936 Nov 02 00:35	25° <b>≙</b> 12'15		direct	2943 Jul 18 23:48	7° <b>M</b> 20'27	
retrograde	2937 Jan 27 17:50	27° <b>₽</b> 04'02		evening set	2943 Oct 17 17:46	9° <b>™</b> 16'18	
opposition	2937 Apr 15 06:06	25° <b>£</b> 42'03	1°33'26	max. Earth dist.	2943 Nov 01 11:24	9° <b>™</b> 48'55	31.35068 AU
min. Earth dist.	2937 Apr 16 02:21	25° <b>≏</b> 40'39	29.31461 AU				
direct	2937 Jul 05 03:55	24° <b>£</b> 17'06		conjunction	2943 Nov 02 10:18	9°M51'03	1°35'24
evening set	2937 Oct 03 22:47	26° <b>£</b> 12'58		minimum elong	2943 Nov 02 10:18	9°M51'03	1°35'24
				morning rise	2943 Nov 17 23:32	10°M25'32	
conjunction	2937 Oct 19 18:34	26° <b>£</b> 47'56	1°28'18	retrograde	2944 Feb 12 16:13	12° <b>M</b> 17'24	
minimum elong	2937 Oct 19 18:34	26° <b>Ω</b> 47'56		opposition	2944 Apr 30 10:05	10°M55'36	1°42'18
max. Earth dist.	2937 Oct 18 21:05		31.31703 AU	min. Earth dist.	2944 May 01 07:30		29.35277 AU
morning rise	2937 Nov 04 10:46	27° <b>Ω</b> 22'36		direct	2944 Jul 20 11:38	9°M30'55	
retrograde	2938 Jan 30 01:58	29° <b>£</b> 14'23		evening set	2944 Oct 19 04:36	11°M26'43	
opposition	2938 Apr 17 16:47	27° <b>£</b> 52'27	1°35'07	<i>5</i>			
min. Earth dist.	2938 Apr 18 13:17		29.32149 AU	conjunction	2944 Nov 03 20:43	12°M01'26	1°36'08
direct	2938 Jul 07 15:16	26° <b>£</b> 27'33		minimum elong	2944 Nov 03 20:43	12°M01'26	1°36'08
evening set	2938 Oct 06 10:00	28° <b>£</b> 23'25		max. Earth dist.	2944 Nov 02 22:26		31.35233 AU
max. Earth dist.	2938 Oct 21 06:41		31.32420 AU	morning rise	2944 Nov 19 09:24	12°M35'53	
				retrograde	2945 Feb 14 01:07	14°M27'45	
conjunction	2938 Oct 22 05:07	28° <b>≏</b> 58'21	1°29'49	opposition	2945 May 02 21:13	13°M05'56	1°42'59
				- F F	, <b></b>		

min. Earth dist.	2945 May 03 18:23	13°M.04'29	29.35377 AU	conjunction	2951 Nov 19 18:35	27° <b>M</b> .11'31	1°37'19
direct	2945 Jul 23 01:09	11° <b>M</b> .41'15	2).33311 AO	minimum elong	2951 Nov 19 18:35	27°M11'31	1°37'19
evening set	2945 Oct 21 15:28	13°ML37'00		max. Earth dist.	2951 Nov 18 22:47		31.36143 AU
max. Earth dist.	2945 Nov 05 07:49		31.35294 AU	morning rise	2951 Dec 05 04:29	27°M45'49	
				retrograde	2952 Feb 29 21:53	29°M37'56	
conjunction	2945 Nov 06 06:57	14° <b>M</b> L11'41	1°36'42	opposition	2952 May 18 03:39	28°M16'08	1°43'45
minimum elong	2945 Nov 06 06:57	14° <b>M</b> .11'41	1°36'43	min. Earth dist.	2952 May 18 22:10	28°M14'52	29.36370 AU
morning rise	2945 Nov 21 19:19	14°ML46'06		direct	2952 Aug 07 07:34	26°M51'42	
	2945 Nov 28 06:20	15° <b>M</b> ₊		evening set	2952 Nov 05 15:56	28° <b>M</b> 47'17	
retrograde	2946 Feb 16 11:15	16°ML37'58		max. Earth dist.	2952 Nov 20 08:22	29°M19'56	31.36379 AU
opposition	2946 May 05 08:14	15°ML16'07	1°43'33				
min. Earth dist.	2946 May 06 05:19	15°ML14'40	29.35418 AU	conjunction	2952 Nov 21 04:18	29°M21'48	1°36'55
	2946 May 15 05:30	15°RM		minimum elong	2952 Nov 21 04:18	29°M21'48	1°36'56
direct	2946 Jul 25 12:11	13°M51'25		morning rise	2952 Dec 06 13:52	29°M56'05	
	2946 Oct 01 00:28	15° <b>M</b> ₊			2952 Dec 08 09:01	0° <b>∡</b> ¹	
evening set	2946 Oct 24 01:56	15°M47'07		retrograde	2953 Mar 03 10:17	1° <b>≯</b> 48'18	
				opposition	2953 May 20 15:17	0° <b>≯</b> 26'30	1°43'15
conjunction	2946 Nov 08 17:08	16°M21'46	1°37'09	min. Earth dist.	2953 May 21 10:06	0° <b>≯</b> 25'14	29.36580 AU
minimum elong	2946 Nov 08 17:08	16°M21'46	1°37'10		2953 Jun 06 04:11	30°₽ <b>M</b> J	
max. Earth dist.	2946 Nov 07 19:21	16°MJ19'44	31.35312 AU	direct	2953 Aug 09 18:39	29°M02'09	
morning rise	2946 Nov 24 04:57	16°M56'09			2953 Oct 10 06:39	0°⊀	
retrograde	2947 Feb 18 19:21	18°M48'01		evening set	2953 Nov 08 02:06	0° <b>∡</b> 757'44	
opposition	2947 May 07 19:24	17°M26'08	1°43'57				
min. Earth dist.	2947 May 08 16:41	17°M24'41	29.35425 AU	conjunction	2953 Nov 23 14:10	1° <b>₹</b> 32'13	1°36'23
direct	2947 Jul 28 00:45	16°M01'26		minimum elong	2953 Nov 23 14:10	1° <b>х³</b> 32′13	1°36'23
evening set	2947 Oct 26 12:33	17°M57'05		max. Earth dist.	2953 Nov 22 19:14	1° <b>х³</b> 30′27	31.36542 AU
max. Earth dist.	2947 Nov 10 04:39	18°M29'37	31.35335 AU	morning rise	2953 Dec 08 23:19	2° <b>≯</b> 06'30	
				retrograde	2954 Mar 05 19:46	3° <b>∡</b> 58'47	
conjunction	2947 Nov 11 03:05	18°MJ31'42		opposition	2954 May 23 02:51	2° <b>≯</b> 37'01	1°42'37
minimum elong	2947 Nov 11 03:05	18°M31'42	1°37'27	min. Earth dist.	2954 May 23 21:19		29.36676 AU
morning rise	2947 Nov 26 14:37	19°M06'05		direct	2954 Aug 12 07:23	1° <b>≯</b> 12'44	
retrograde	2948 Feb 21 05:54	20°M57'57		evening set	2954 Nov 10 12:22	3° <b>∡</b> *08'17	
opposition	2948 May 09 06:27	19°M36'03	1°44'12				
min. Earth dist.	2948 May 10 02:33		29.35480 AU	conjunction	2954 Nov 25 23:55	3° <b>₹</b> 42'46	1°35'43
direct	2948 Jul 29 11:26	18°M11'21		minimum elong	2954 Nov 25 23:55	3° <b>х</b> 42'46	1°35'44
evening set	2948 Oct 27 22:55	20°M06'58		max. Earth dist.	2954 Nov 25 04:08		31.36573 AU
	204037 12 12 07	2007 41124	1005100	morning rise	2954 Dec 11 08:53	4° <b>√</b> 17'02	
conjunction	2948 Nov 12 13:07	20°M41'34	1°37'38	retrograde	2955 Mar 08 07:00	6° <b>₹</b> 09'23	1041150
minimum elong	2948 Nov 12 13:07	20°M41'34		opposition	2955 May 25 14:33	4° 🖈 47'37	
max. Earth dist.	2948 Nov 11 16:05		31.35421 AU	min. Earth dist.	2955 May 26 08:48		29.36638 AU
morning rise	2948 Nov 28 00:04	21°M15'55		direct	2955 Aug 14 18:44 2955 Nov 12 22:29	3°×23'22	
retrograde	2949 Feb 22 14:00	23°M07'50	1944!10	evening set	2955 NOV 12 22:29	5° <b>⊀</b> 18'54	
opposition min. Earth dist.	2949 May 11 17:48 2949 May 12 14:17	21°M45'56	29.35613 AU	conjunction	2955 Nov 28 09:48	5° <b>₹</b> 53'22	1024155
direct	2949 Jul 31 22:29	20°M21'17	29.33013 AU	minimum elong	2955 Nov 28 09:48	5° <b>₹</b> 53'22	
evening set	2949 Oct 30 09:11	20 ML 16'52		max. Earth dist.	2955 Nov 27 15:15		31.36449 AU
evening set	2949 Oct 30 09.11	22 1161032		morning rise	2955 Dec 13 18:17	6° <b>₹</b> 27'36	31.30449 AU
conjunction	2949 Nov 14 22:50	22°M51'26	1°37'40	retrograde	2956 Mar 09 16:05	8°×27'30'01	
minimum elong	2949 Nov 14 22:50	22°M51'26	1°37'40	opposition	2956 May 27 02:23	6° <b>≯</b> 58'15	1°40'54
max. Earth dist.	2949 Nov 14 01:42		31.35610 AU	min. Earth dist.	2956 May 27 02:28		29.36427 AU
morning rise	2949 Nov 30 09:32	23°M25'46	31.33010710	direct	2956 Aug 16 08:03	5° <b>×</b> <sup>7</sup> 34'02	29.30127110
retrograde	2950 Feb 25 00:43	25°MJ17'44		evening set	2956 Nov 14 08:42	7° <b>×</b> <sup>7</sup> 29'30	
opposition	2950 May 14 04:59	23°M55'51	1°44'17			, , =, =,	
min. Earth dist.	2950 May 14 23:58		29.35835 AU	conjunction	2956 Nov 29 19:30	8° <b>∡</b> ¹03'57	1°33'59
direct	2950 Aug 03 09:09	22°MJ31'16	27.50050110	minimum elong	2956 Nov 29 19:30	8° <b>х</b> 03'57	
evening set	2950 Nov 01 19:26	24°M26'51		max. Earth dist.	2956 Nov 29 00:08		31.36172 AU
Ü				morning rise	2956 Dec 15 03:52	8° <b>≯</b> 38'11	
conjunction	2950 Nov 17 08:44	25°ML01'24	1°37'34	retrograde	2957 Mar 12 03:13	10° <b>∡</b> ³30'39	
minimum elong	2950 Nov 17 08:44	25°ML01'24		opposition	2957 May 29 14:11	9° <b>∡</b> 08'50	1°39'50
max. Earth dist.	2950 Nov 16 12:25		31.35859 AU	min. Earth dist.	2957 May 30 07:43		29.36075 AU
morning rise	2950 Dec 02 18:58	25°M35'43		direct	2957 Aug 18 19:29	7° <b>∡</b> ¹44'37	
retrograde	2951 Feb 27 10:44	27°M27'45		evening set	2957 Nov 16 18:31	9° <b>∡</b> ¹40'01	
opposition	2951 May 16 16:14	26°M05'55	1°44'05	max. Earth dist.	2957 Dec 01 10:52		31.35748 AU
min. Earth dist.	2951 May 17 11:54		29.36108 AU				
direct	2951 Aug 05 18:27	24°M41'24		conjunction	2957 Dec 02 05:09	10° <b>∡</b> 14'27	1°32'55
evening set	2951 Nov 04 05:43	26°M36'59		minimum elong	2957 Dec 02 05:09	10° <b>∡</b> 14'27	1°32'55
				morning rise	2957 Dec 17 13:08	10° <b>∡</b> ¹48'41	

retrograde	2958 Mar 14 10:54	12° <b>√</b> 41'12	minimum elong	2964 Dec 16 22:46	25° <b>≮</b> ¹25'31 1°21'53
opposition	2958 Jun 01 02:06	11° 🖈 19'20 1°38'38	max. Earth dist.	2964 Dec 16 09:41	25° <b>₹</b> 24'17 31.32634 AU
min. Earth dist.	2958 Jun 01 02:00 2958 Jun 01 20:19	11° ₹ 18'05 29.35590 AU	morning rise	2965 Jan 01 05:25	25° ₹ 59'43
direct	2958 Aug 21 07:06	9° <b>\$</b> 755'06	retrograde	2965 Mar 29 13:05	27° <b>₹</b> 52'46
evening set	2958 Nov 19 04:28	11° <b>₹</b> 150′25	opposition	2965 Jun 16 13:50	26° ₹30'37 1°26'23
evening sec	2,501101 17 01.20	11 7 30 23	min. Earth dist.	2965 Jun 17 03:06	26° <b>₹</b> 29'43 29.32532 AU
conjunction	2958 Dec 04 14:41	12° <b>∡</b> 124'50 1°31'43	direct	2965 Sep 05 15:28	25° ₹ 06'36
minimum elong	2958 Dec 04 14:41	12° <b>⊀</b> 24'50 1°31'43	evening set	2965 Dec 03 23:38	27° <b>⋌</b> 101'33
max. Earth dist.	2958 Dec 03 20:17	12° <b>₹</b> 23'06 31.35229 AU			_,
morning rise	2958 Dec 19 22:33	12° <b>₹</b> 159'03	conjunction	2965 Dec 19 07:55	27° <b>∡</b> '35'54 1°19'48
retrograde	2959 Mar 16 20:58	14° <b>∡</b> 751'36	minimum elong	2965 Dec 19 07:55	27° <b>∡</b> 135′54 1°19′48
opposition	2959 Jun 03 13:44	13° <b>∡</b> 29'40 1°37'17	max. Earth dist.	2965 Dec 18 18:32	27° <b>∡</b> 734'39 31.32282 AU
min. Earth dist.	2959 Jun 04 06:32	13° <b>∡</b> 28'31 29.35032 AU	morning rise	2966 Jan 03 14:39	28° <b>⋌</b> 10'07
direct	2959 Aug 23 18:13	12° <b>₹</b> 05'25	. 8	2966 Mar 17 24:00	0°ප
evening set	2959 Nov 21 14:17	14° <b>∡</b> ′00′39	retrograde	2966 Apr 01 00:52	0° <b>る</b> 03'17
max. Earth dist.	2959 Dec 06 06:36	14° <b>∡</b> ³33'24 31.34657 AU		2966 Apr 15 02:57	30°R <b>.✓</b>
			opposition	2966 Jun 19 02:00	28° <b>∡</b> '41'08 1°24'06
conjunction	2959 Dec 07 00:12	14° <b>∡</b> ³35′03 1°30′24	min. Earth dist.	2966 Jun 19 13:55	28° <b>∡</b> 140'20 29.32139 AU
minimum elong	2959 Dec 07 00:12	14° <b>∡</b> ³35′03 1°30′24	direct	2966 Sep 08 02:37	27° <b>√</b> 17'11
morning rise	2959 Dec 22 07:47	15° <b>₹</b> 09'16	evening set	2966 Dec 06 09:10	29° <b>∡</b> 12'06
retrograde	2960 Mar 18 06:48	17° <b>∡</b> 101'52			
opposition	2960 Jun 05 01:45	15° <b>∡</b> 39'51 1°35'48	conjunction	2966 Dec 21 17:23	29° <b>∡</b> 146'27 1°17'37
min. Earth dist.	2960 Jun 05 18:55	15° <b>∡</b> 38'41 29.34471 AU	minimum elong	2966 Dec 21 17:23	29° <b>∡</b> ¹46'27 1°17'37
direct	2960 Aug 25 04:09	14° <b>∡</b> 15'36	max. Earth dist.	2966 Dec 21 05:07	29° <b>₹</b> 45'18 31.31834 AU
evening set	2960 Nov 22 23:52	16° <b>∡</b> 10'45		2966 Dec 27 17:28	0°ප
			morning rise	2967 Jan 05 23:51	0° <b>ප</b> 20'41
conjunction	2960 Dec 08 09:29	16° <b>∡</b> ¹45′08 1°28′57	retrograde	2967 Apr 03 09:44	2° <b>る</b> 13'58
minimum elong	2960 Dec 08 09:29	16° <b>∡</b> ¹45′08 1°28′57	opposition	2967 Jun 21 14:20	0°る51'47 1°21'42
max. Earth dist.	2960 Dec 07 16:59	16° <b>⊀</b> 43'35 31.34123 AU	min. Earth dist.	2967 Jun 22 02:48	0°る50'57 29.31633 AU
morning rise	2960 Dec 23 16:51	17° <b>∡</b> 19′20		2967 Jul 26 00:13	30°R <b>✓</b>
retrograde	2961 Mar 20 17:15	19° <b>⊀</b> 12'00	direct	2967 Sep 10 14:05	29° <b>∡</b> 127′54
opposition	2961 Jun 07 13:41	17° <b>∡</b> ¹49'55 1°34'11		2967 Oct 25 09:05	0°ප
min. Earth dist.	2961 Jun 08 05:09	17° <b>∡</b> ′48'53 29.33961 AU	evening set	2967 Dec 08 18:51	1° <b>る</b> 22'47
direct	2961 Aug 27 17:08	16° <b>∡</b> ¹25'41			
evening set	2961 Nov 25 09:33	18° <b>∡</b> ¹20'47	conjunction	2967 Dec 24 02:46	1°る57'08 1°15'19
			minimum elong	2967 Dec 24 02:46	1°る57'08 1°15'19
conjunction	2961 Dec 10 18:49	18° <b>₹</b> 55'09 1°27'22	max. Earth dist.	2967 Dec 23 14:34	1°る55'59 31.31276 AU
minimum elong	2961 Dec 10 18:49	18° <b>∡</b> 55′09 1°27′22	morning rise	2968 Jan 08 09:14	2° <b>る</b> 31'22
max. Earth dist.	2961 Dec 10 02:31	18° <b>≯</b> 53'37 31.33656 AU	retrograde	2968 Apr 04 20:44	4° <b>る</b> 24'46
morning rise	2961 Dec 26 02:03	19° <b>∡</b> 29'21	opposition	2968 Jun 23 02:44	3° <b>る</b> 02'34 1°19'12
retrograde	2962 Mar 23 05:17	21° <b>≯</b> 22'05	min. Earth dist.	2968 Jun 23 13:42	3° <b>る</b> 01'50 29.30997 AU
opposition	2962 Jun 10 01:33	19° <b>≯</b> 59'58 1°32'26	direct	2968 Sep 12 01:16	1° <b>る</b> 38'43
min. Earth dist.	2962 Jun 10 16:43	19° <b>∡</b> 58′56 29.33545 AU	evening set	2968 Dec 10 04:21	3° <b>る</b> 33'32
direct	2962 Aug 30 03:08	18° <b>∡</b> 35'45			_
evening set	2962 Nov 27 19:03	20° <b>∡</b> 130'48	conjunction	2968 Dec 25 12:06	4°る07'54 1°12'55
			minimum elong	2968 Dec 25 12:06	4° <b>る</b> 07'54 1°12'55
conjunction	2962 Dec 13 04:12	21° <b>×</b> 05'10 1°25'40	max. Earth dist.	2968 Dec 25 00:24	4°る06'48 31.30566 AU
minimum elong	2962 Dec 13 04:12	21° 🗷 05'10 1°25'40	morning rise	2969 Jan 09 18:28	4°る42'09
max. Earth dist.	2962 Dec 12 13:32	21° 🗷 03'47 31.33281 AU	retrograde	2969 Apr 07 07:22	6°る35'40
morning rise	2962 Dec 28 11:10	21° 🖈 39'22	opposition	2969 Jun 25 15:22	5°る13'25 1°16'34
retrograde	2963 Mar 25 14:57	23° 🗷 32'12	min. Earth dist.	2969 Jun 26 02:55	5°る12'38 29.30218 AU
opposition	2963 Jun 12 13:32	22° \$\frac{7}{2}10'03	direct	2969 Sep 14 11:14	3°₹49'35
min. Earth dist.	2963 Jun 13 03:44	22° 🗷 09'06 29.33185 AU	evening set	2969 Dec 12 13:53	5° <b>る</b> 44'21
direct	2963 Sep 01 15:30	20° 🖈 45'54		20(0 D 27 21-24	€0 <b>3</b> 10142 1010125
evening set	2963 Nov 30 04:38	22° <b>₹</b> 40'55	conjunction	2969 Dec 27 21:34 2969 Dec 27 21:34	6°중18'42 1°10'25 6°중18'42 1°10'25
conjunction	2963 Dec 15 13:22	23° <b>₹</b> 15'16 1°23'50	minimum elong max. Earth dist.	2969 Dec 27 21:34 2969 Dec 27 10:44	6°る1842 1°1025 6°る17'41 31.29727 AU
minimum elong	2963 Dec 15 13:22 2963 Dec 15 13:22	23°×15'16 1°23'50 23°×15'16 1°23'50	max. Earth dist.	2970 Jan 12 03:52	6°る52'58
max. Earth dist.	2963 Dec 15 13:22 2963 Dec 14 22:29	23° <b>⊀</b> 13′52 31.32951 AU	retrograde	2970 Jan 12 03:32 2970 Apr 09 18:11	8° <b>石</b> 46'35
morning rise	2963 Dec 14 22.29 2963 Dec 30 20:19	23° <b>⊀</b> 1332 31.32931 AU 23° <b>⊀</b> 149'29	opposition	2970 Apr 09 18.11 2970 Jun 28 03:39	8 84633 7° <b>8</b> 24'16 1°13'51
retrograde	2964 Mar 27 03:02	25° <b>⊀</b> 142′25	min. Earth dist.	2970 Jun 28 03:59 2970 Jun 28 13:51	7°る2416 1 1331 7°る23'35 29.29301 AU
opposition	2964 Jun 14 01:36	23 <b>x</b> 42 23 24° <b>x</b> 20'16 1°28'32	direct	2970 Sep 16 23:51	6°る00'26
min. Earth dist.	2964 Jun 14 14:57	24° 🖈 19'22 29.32868 AU	evening set	2970 Sep 10 23:31 2970 Dec 14 23:25	7°る55'08
direct	2964 Sep 03 02:38	22° \$\sqrt{56'11}	Croning set	27,0 200 17 23.23	, 333 00
evening set	2964 Dec 01 14:07	24° <b>₹</b> 51'10	conjunction	2970 Dec 30 06:52	8° <b>ට</b> 29'30 1°07'48
3, 45 500	-/ U/ UI 1T.U/		2011/411/41011		5 -2 50 1 0/ 40
			minimum elong	2970 Dec. 30, 06:53	8°る29'30 1°07'49
conjunction	2964 Dec 16 22:46	25° <b>₹</b> 25'31 1°21'53	minimum elong max. Earth dist.	2970 Dec 30 06:53 2970 Dec 29 19:51	8°る29'30 1°07'49 8°る28'27 31.28761 AU

	2071 1 14 12 16	0070246		2070 1 12 22 10	220744151 0047105
morning rise	2971 Jan 14 13:16	9° <b>る</b> 03'46	conjunction	2978 Jan 13 23:10	23° <b>3</b> 44'51 0°47'05
retrograde	2971 Apr 12 06:41	10° <b>ろ</b> 57'29	minimum elong	2978 Jan 13 23:11	23° <b>ප්</b> 44'51 0°47'05
opposition	2971 Jun 30 16:11	9° <b>る</b> 35'04 1°11'01	max. Earth dist.	2978 Jan 13 19:11	23° <b>る</b> 44'29 31.22893 AU
min. Earth dist.	2971 Jul 01 02:17	9°る34'23 29.28299	AU morning rise	2978 Jan 29 05:46	24°る19'14
direct	2971 Sep 19 09:38	8° <b>ප</b> 11'14	retrograde	2978 Apr 27 11:45	26° <b>る</b> 13'48
evening set	2971 Dec 17 08:40	10° <b>る</b> 05'52	opposition	2978 Jul 16 08:18	24°る51'00 0°48'33
			min. Earth dist.	2978 Jul 16 12:01	24°る50'45 29.22584 AU
conjunction	2972 Jan 01 16:07	10°る40'13 1°05'07	direct	2978 Oct 04 19:07	23° <b>る</b> 27'25
minimum elong	2972 Jan 01 16:07	10°る40'13 1°05'06	evening set	2979 Jan 01 01:42	25° <b>る</b> 21'41
max. Earth dist.	2972 Jan 01 06:49	10°る39'21 31.27738	•	2575 3411 01 01.12	25 321 11
morning rise	2972 Jan 16 22:21	10 <b>3</b> 3721 31.27730	conjunction	2979 Jan 16 08:37	25°る56'05 0°43'48
•		11 81430 13° <b>8</b> 08'18	•		25° <b>ප්</b> 56'05 0°43'48
retrograde	2972 Apr 13 16:30		minimum elong	2979 Jan 16 08:37	
opposition	2972 Jul 02 04:44	11°る45'48 1°08'05	max. Earth dist.	2979 Jan 16 05:53	25°පි55'50 31.22222 AU
min. Earth dist.	2972 Jul 02 13:45	11°る45'12 29.27261	AU morning rise	2979 Jan 31 15:13	26° <b>ろ</b> 30'30
direct	2972 Sep 20 22:02	10° <b>る</b> 21'58	retrograde	2979 Apr 29 22:33	28° <b>る</b> 25'11
evening set	2972 Dec 18 18:03	12° <b>る</b> 16'31	opposition	2979 Jul 18 21:06	27°る02'22 0°45'00
			min. Earth dist.	2979 Jul 18 23:18	27°る02'13 29.21871 AU
conjunction	2973 Jan 03 01:13	12°る50'52 1°02'19	direct	2979 Oct 07 06:59	25° <b>る</b> 38'50
minimum elong	2973 Jan 03 01:13	12°る50'52 1°02'19	evening set	2980 Jan 03 11:11	27° <b>⋜</b> 33'04
max. Earth dist.	2973 Jan 02 15:52	12° <b>る</b> 49'59 31.26724	•		
morning rise	2973 Jan 18 07:37	13°る25'10	conjunction	2980 Jan 18 17:55	28° <b>る</b> 07'29 0°40'27
retrograde	2973 Apr 16 05:17	15° <b>る</b> 19'04	minimum elong	2980 Jan 18 17:56	28°る07'29 0°40'27
- C			Č		· · · · · · · · · · · · · · · · · · ·
opposition	2973 Jul 04 17:13	13°る56'29 1°05'03	max. Earth dist.	2980 Jan 18 15:03	28°る07'12 31.21469 AU
min. Earth dist.	2973 Jul 05 01:05	13° <b>る</b> 55'57 29.26286	AU morning rise	2980 Feb 03 00:44	28° <b>る</b> 41'54
direct	2973 Sep 23 09:27	12° <b>る</b> 32'39		2980 Mar 14 20:38	0° <b>≈</b>
evening set	2973 Dec 21 03:10	14° <b>る</b> 27'08	retrograde	2980 May 01 11:15	0°≈36'45
				2980 Jun 20 05:56	30°₹ <b>⋜</b>
conjunction	2974 Jan 05 10:25	15°る01'30 0°59'26	opposition	2980 Jul 20 10:07	29°る13'53 0°41'24
minimum elong	2974 Jan 05 10:25	15°る01'30 0°59'26	min. Earth dist.	2980 Jul 20 12:10	29°る13'45 29.21076 AU
max. Earth dist.	2974 Jan 05 03:10	15° <b>る</b> 00'49 31.25787	'AU direct	2980 Oct 08 16:04	27° <b>る</b> 50'24
morning rise	2974 Jan 20 16:41	15° <b>る</b> 35'48	evening set	2981 Jan 04 20:39	29° <b>♂</b> 44'34
retrograde	2974 Apr 18 16:01	17° <b>る</b> 29'49	**************************************	2981 Jan 11 18:20	0° <b>≈</b>
opposition	2974 Jul 07 05:47	16°る07'09 1°01'56		27013411 11 10.20	
11			ATT	2001 I 20 02-22	0°≈19'00 0°37'02
min. Earth dist.	2974 Jul 07 13:07	16° <b>궁</b> 06'40 29.25391	,	2981 Jan 20 03:33	
direct	2974 Sep 25 22:31	14° <b>る</b> 43'21	minimum elong	2981 Jan 20 03:34	0°≈19'00 0°37'03
evening set	2974 Dec 23 12:30	16° <b>る</b> 37'47	max. Earth dist.	2981 Jan 20 02:13	0°≈18′52 31.20616 AU
			morning rise	2981 Feb 04 10:20	0°≈53'26
conjunction	2975 Jan 07 19:30	17°る12'09 0°56'28	retrograde	2981 May 03 22:13	2°≈48'26
minimum elong	2975 Jan 07 19:30	17° <b>ට</b> 12'09 0°56'28	opposition	2981 Jul 22 23:02	1°≈25'30 0°37'43
max. Earth dist.	2975 Jan 07 12:25	17°る11'29 31.24954	AU min. Earth dist.	2981 Jul 23 00:18	1°≈25'25 29.20152 AU
morning rise	2975 Jan 23 01:56	17° <b>る</b> 46'28	direct	2981 Oct 11 04:20	0°≈02'02
retrograde	2975 Apr 21 03:55	19° <b>ろ</b> 40'36	evening set	2982 Jan 07 06:18	1°≈56'09
opposition	2975 Jul 09 18:12	18°る17'54 0°58'43	Č		
min. Earth dist.	2975 Jul 09 23:38	18°る17'32 29.24604	AU conjunction	2982 Jan 22 13:05	2°≈30'35 0°33'35
direct	2975 Sep 28 09:30	16°る54'08	minimum elong	2982 Jan 22 13:05	2°≈30'35 0°33'35
evening set	2975 Dec 25 21:44	18°る48'32	max. Earth dist.	2982 Jan 22 11:13	2°≈30'25 31.19633 AU
evening set	29/3 Dec 23 21.44	16 046 32			
	2076 1 10 04 45	100=20054 005005	morning rise	2982 Feb 06 20:11	3°≈05'03
conjunction	2976 Jan 10 04:45	19°る22'54 0°53'25	retrograde	2982 May 06 11:57	5°≈00'10
minimum elong	2976 Jan 10 04:45	19°る22'54 0°53'25	opposition	2982 Jul 25 12:00	3°≈37'09 0°34'00
max. Earth dist.	2976 Jan 09 23:15	19° <b>ප්</b> 22'23 31.24212		2982 Jul 25 12:35	3°≈37′07 29.19102 AU
morning rise	2976 Jan 25 11:07	19° <b>る</b> 57'14	direct	2982 Oct 13 15:17	2°≈13'41
retrograde	2976 Apr 22 13:17	21° <b>る</b> 51'30	evening set	2983 Jan 09 15:46	4°≈07'45
opposition	2976 Jul 11 06:58	20°る28'46 0°55'24			
min. Earth dist.	2976 Jul 11 12:19	20°る28'25 29.23899	AU conjunction	2983 Jan 24 22:43	4°≈42'12 0°30'04
direct	2976 Sep 29 21:29	19° <b>る</b> 05'04	minimum elong	2983 Jan 24 22:43	4°≈42'12 0°30'04
evening set	2976 Dec 27 06:55	20° <b>る</b> 59'25	max. Earth dist.	2983 Jan 24 22:26	4°≈42'10 31.18514 AU
<i>5</i>			morning rise	2983 Feb 09 05:47	5°≈16'41
conjunction	2977 Jan 11 13:52	21°る33'48 0°50'17	retrograde	2983 May 08 23:16	7°≈11'54
minimum elong	2977 Jan 11 13:52 2977 Jan 11 13:52	21°る33'48 0°50'17 21°る33'48 0°50'17	opposition	2983 Jul 28 01:01	7 ≈11 34 5°≈48'48 0°30'13
-			**		
max. Earth dist.	2977 Jan 11 09:08	21° <b>궁</b> 33'21 31.23548		2983 Jul 28 01:29	5°≈48'46 29.17924 AU
morning rise	2977 Jan 26 20:22	22° <b>る</b> 08'09	direct	2983 Oct 16 04:01	4°≈25'20
retrograde		24° <b>る</b> 02'34	evening set	2984 Jan 12 01:21	6°≈19'19
	2977 Apr 25 00:56				
opposition	2977 Jul 13 19:36	22°る39'48 0°52'01			
opposition min. Earth dist.	•	22° <b>ට</b> 39'48 0°52'01 22° <b>ට</b> 39'34 29.23241	AU conjunction	2984 Jan 27 08:13	6°≈53'46 0°26'31
• •	2977 Jul 13 19:36	22°る39'48 0°52'01	AU conjunction minimum elong	2984 Jan 27 08:13 2984 Jan 27 08:13	6°≈53'46 0°26'31 6°≈53'46 0°26'31
min. Earth dist.	2977 Jul 13 19:36 2977 Jul 13 23:01	22° <b>ට</b> 39'48 0°52'01 22° <b>ට</b> 39'34 29.23241	•		
min. Earth dist. direct	2977 Jul 13 19:36 2977 Jul 13 23:01 2977 Oct 02 09:10	22°539'48 0°52'01 22°539'34 29.2324 21°516'09	minimum elong	2984 Jan 27 08:13	6°≈53'46 0°26'31

retrograde	2984 May 10 12:02	9° <b>≈</b> 23'36		behind sun begin	2990 Feb 08 11:37	20° <b>≈</b> 03'26	
opposition	2984 Jul 29 14:01	8°≈00'24	0°26'24	behind sun end	2990 Feb 09 00:09	20°≈04'34	
min. Earth dist.	2984 Jul 29 12:50	8°≈00'29		max. Earth dist.	2990 Feb 09 00:25		31.11114 AU
direct	2984 Oct 17 15:26	6°≈36'55	29.10700110	morning rise	2990 Feb 24 02:20	20°≈38'40	31.11111111
evening set	2985 Jan 13 10:42	8°≈30'50		retrograde	2990 May 24 09:05	22° <b>≈</b> 34'52	
8				opposition	2990 Aug 12 20:05	21° <b>≈</b> 11'18	0°02'49
conjunction	2985 Jan 28 17:42	9° <b>≈</b> 05'18	0°22'56	min. Earth dist.	2990 Aug 12 13:21	21° <b>≈</b> 11'46	29.10702 AU
minimum elong	2985 Jan 28 17:42	9° <b>≈</b> 05'18	0°22'56	direct	2990 Oct 31 10:43	19° <b>≈</b> 48′03	
max. Earth dist.	2985 Jan 28 18:48	9° <b>≈</b> 05'24	31.16087 AU	evening set	2991 Jan 26 20:12	21° <b>≈</b> 41'46	
morning rise	2985 Feb 13 01:11	9° <b>≈</b> 39'50					
retrograde	2985 May 12 22:31	11° <b>≈</b> 35'16		conjunction	2991 Feb 11 03:37	22°≈16′20	0°00'49
opposition	2985 Aug 01 03:07	10° <b>≈</b> 11'57	0°22'32	minimum elong	2991 Feb 11 03:36	22° <b>≈</b> 16′20	0°00'48
min. Earth dist.	2985 Aug 01 01:55	10° <b>≈</b> 12′02	29.15494 AU	behind sun begin	2991 Feb 10 21:13	22° <b>≈</b> 15'45	
direct	2985 Oct 20 03:59	8° <b>≈</b> 48′29		behind sun end	2991 Feb 11 09:59	22° <b>≈</b> 16'55	
evening set	2986 Jan 15 20:14	10° <b>≈</b> 42'19		max. Earth dist.	2991 Feb 11 09:57	22°≈16'54	31.10291 AU
				morning rise	2991 Feb 26 12:26	22° <b>≈</b> 51′02	
conjunction	2986 Jan 31 03:16	11° <b>≈</b> 16'48	0°19'18	desc. node	2991 Apr 29 01:15	24° <b>≈</b> 34'38	
minimum elong	2986 Jan 31 03:16	11° <b>≈</b> 16'48	0°19'18	retrograde	2991 May 26 23:34	24° <b>≈</b> 47'25	
max. Earth dist.	2986 Jan 31 05:16		31.14913 AU	opposition	2991 Aug 15 09:16	23° <b>≈</b> 23'49	
morning rise	2986 Feb 15 10:57	11°≈51'22		min. Earth dist.	2991 Aug 15 01:41		29.09874 AU
retrograde	2986 May 15 10:43	13°≈46'55		direct	2991 Nov 02 20:52	22°≈00'37	
opposition	2986 Aug 03 15:52	12°≈23'31	0°18'39	evening set	2992 Jan 29 06:03	23° <b>≈</b> 54′20	
min. Earth dist.	2986 Aug 03 12:36		29.14357 AU		2002 E 1 12 12 12	2.40 20155	0002102
direct	2986 Oct 22 16:13	11°≈00'03		conjunction	2992 Feb 13 13:42	24°≈28'55	
evening set	2987 Jan 18 05:48	12°≈53'52		minimum elong	2992 Feb 13 13:42	24°≈28'55	0°03′02
agniumation	2987 Feb 02 12:51	13° <b>≈</b> 28'22	0°15'39	behind sun begin behind sun end	2992 Feb 13 07:19 2992 Feb 13 20:04	24°≈28'21 24°≈29'30	
conjunction minimum elong	2987 Feb 02 12:51 2987 Feb 02 12:51	13 ≈28 22 13°≈28'22		max. Earth dist.	2992 Feb 13 20:04 2992 Feb 13 21:42		31.09435 AU
behind sun begin	2987 Feb 02 12:31 2987 Feb 02 11:04	13 ≈28 22 13°≈28'12	0 13 40	morning rise	2992 Feb 28 22:36	24 ≈29 40 25°≈03'39	31.09433 AU
behind sun end	2987 Feb 02 11:04 2987 Feb 02 14:37	13°≈28'31		retrograde	2992 May 28 11:58	27°≈00'12	
max. Earth dist.	2987 Feb 02 15:38		31.13819 AU	opposition	2992 Aug 16 22:34	25°≈36'34	-0°05'11
morning rise	2987 Feb 17 20:45	14°≈02'57	31.13017710	min. Earth dist.	2992 Aug 16 14:53		29.08986 AU
morning 115¢	2987 Mar 17 20:30	15° <b>≈</b>		direct	2992 Nov 04 08:30	24°≈13'25	29.00900110
retrograde	2987 May 17 21:45	15° <b>≈</b> 58'39		evening set	2993 Jan 30 16:02	26°≈07'06	
	2987 Jul 21 17:16	15°R≈					
opposition	2987 Aug 06 04:58	14° <b>≈</b> 35'11	0°14'43	conjunction	2993 Feb 14 23:44	26° <b>≈</b> 41'43	-0°06'45
min. Earth dist.	2987 Aug 06 01:39	14° <b>≈</b> 35'25	29.13322 AU	minimum elong	2993 Feb 14 23:44	26° <b>≈</b> 41'43	0°06'45
direct	2987 Oct 25 02:34	13° <b>≈</b> 11'46		behind sun begin	2993 Feb 14 17:45	26° <b>≈</b> 41'10	
	2988 Jan 18 03:00	15° <b>≈</b>		behind sun end	2993 Feb 15 05:44	26° <b>≈</b> 42'16	
evening set	2988 Jan 20 15:11	15° <b>≈</b> 05'32		max. Earth dist.	2993 Feb 15 07:37	26° <b>≈</b> 42'27	31.08510 AU
				morning rise	2993 Mar 02 09:01	27° <b>≈</b> 16′29	
conjunction	2988 Feb 04 22:24	15° <b>≈</b> 40′02	0°11'59	retrograde	2993 May 31 01:59	29° <b>≈</b> 13'11	
minimum elong	2988 Feb 04 22:25	15° <b>≈</b> 40′02	0°11'59	opposition	2993 Aug 19 11:49	27° <b>≈</b> 49′29	-0°09'10
behind sun begin	2988 Feb 04 17:56	15° <b>≈</b> 39'38		min. Earth dist.	2993 Aug 19 02:50	27° <b>≈</b> 50′06	29.08006 AU
behind sun end	2988 Feb 05 02:53	15° <b>≈</b> 40′26		direct	2993 Nov 06 19:30	26° <b>≈</b> 26′22	
max. Earth dist.	2988 Feb 05 02:57		31.12841 AU	evening set	2994 Feb 02 02:12	28° <b>≈</b> 20′02	
morning rise	2988 Feb 20 06:25	16°≈14'39					
retrograde	2988 May 19 08:38	18°≈10'31	0010145	conjunction	2994 Feb 17 10:05	28°≈54'40	
opposition	2988 Aug 07 17:59	16°≈47'00		minimum elong	2994 Feb 17 10:04	28°≈54'40	0°10'28
min. Earth dist.	2988 Aug 07 12:44		29.12383 AU	behind sun begin	2994 Feb 17 05:00	28°≈54'13	
direct	2988 Oct 26 14:22 2989 Jan 22 00:51	15°≈23'38 17°≈17'22		behind sun end max. Earth dist.	2994 Feb 17 15:08	28°≈55'08	21 07/52 ATT
evening set	2989 Jan 22 00.31	1/ 22		morning rise	2994 Feb 17 18:41 2994 Mar 04 19:32	28 ≈33 28 29°≈29'28	31.07453 AU
conjunction	2989 Feb 06 08:02	17° <b>≈</b> 51'54	0°08'17	morning rise	2994 Mar 19 01:07	29 <b>≈</b> 29 28	
minimum elong	2989 Feb 06 08:02 2989 Feb 06 08:02	17 ≈51 54 17°≈51'54		retrograde	2994 Jun 02 14:21	0 X 1° <b>¥</b> 26'18	
behind sun begin	2989 Feb 06 02:22	17 ≈51'34 17°≈51'23	0 00 10	opposition	2994 Aug 22 01:04	0° <b>)</b> 02'32	-0°13'09
behind sun end	2989 Feb 06 13:42	17°≈52'25		min. Earth dist.	2994 Aug 21 16:35		29.06887 AU
max. Earth dist.	2989 Feb 06 12:40		31.11946 AU	mm. Barar alou.	2994 Aug 23 14:17	30°R≈	29.00007110
morning rise	2989 Feb 21 16:25	18°≈26'33		direct	2994 Nov 09 08:33	28°≈39'25	
retrograde	2989 May 21 21:31	20°≈22'35			2995 Jan 20 00:43	0° <b>∀</b>	
opposition	2989 Aug 10 07:01	18°≈59'02	0°06'48	evening set	2995 Feb 04 12:22	0° <b>)</b> 33′03	
min. Earth dist.	2989 Aug 10 01:22		29.11531 AU	S	· ·		
direct	2989 Oct 28 22:52	17° <b>≈</b> 35'43		conjunction	2995 Feb 19 20:25	1° <b>)</b> 07'42	-0°14'10
evening set	2990 Jan 24 10:24	19° <b>≈</b> 29'26		minimum elong	2995 Feb 19 20:26	1° <b>)</b> €07'42	0°14'10
				behind sun begin	2995 Feb 19 17:11	1° <b>)</b> €07'24	
conjunction	2990 Feb 08 17:53	20° <b>≈</b> 04'00	0°04'35	behind sun end	2995 Feb 19 23:40	1° <b>∺</b> 08'00	
minimum elong	2990 Feb 08 17:53	20° <b>≈</b> 04'00	0°04'35	max. Earth dist.	2995 Feb 20 05:29	1° <b>∺</b> 08'33	31.06277 AU

	2005 14 07 06 00	101/ 40/01		2002 14 07 21 11	1601/20107 0020116
morning rise	2995 Mar 07 06:09	1° <b>)</b> 42'31	conjunction	3002 Mar 07 21:11	16° <b>¥</b> 38′07 -0°39′16
retrograde	2995 Jun 05 04:22	3° <b>∺</b> 39′28	minimum elong	3002 Mar 07 21:11	16° <b>⅓</b> 38′07 0°39′16
opposition	2995 Aug 24 14:18	2° <b>升</b> 15'36 -0°17'06	max. Earth dist.	3002 Mar 08 11:39	16° <b>₭</b> 39'29 30.97968 AU
min. Earth dist.	2995 Aug 24 04:15	2° <b>₭</b> 16'17 29.05644 A	.U morning rise	3002 Mar 23 09:06	17° <b>光</b> 13′08
direct	2995 Nov 11 21:40	0° <b>¥</b> 52′28	retrograde	3002 Jun 21 17:58	19° <b>升</b> 10′52
evening set	2996 Feb 06 22:27	2° <b>)</b> (46′03	opposition	3002 Sep 10 10:10	17° <b>升</b> 46′23 -0°43′49
			min. Earth dist.	3002 Sep 09 18:42	17° <b>米</b> 47′27 28.97561 AU
conjunction	2996 Feb 22 06:37	3° <b>∺</b> 20'43 -0°17'51	direct	3002 Nov 28 03:34	16° <b>¥</b> 23'12
minimum elong	2996 Feb 22 06:37	3° <b>¥</b> 20'43 0°17'51	evening set	3003 Feb 22 22:13	18° <b>升</b> 16'32
max. Earth dist.	2996 Feb 22 15:56	3° <b>¥</b> 21'35 31.04981 A	.U		
morning rise	2996 Mar 08 16:42	3° <b>)</b> 55'34	conjunction	3003 Mar 10 07:55	18° <b>¥</b> 51'21 -0°42'40
retrograde	2996 Jun 06 15:24	5° <b>¥</b> 52'37	minimum elong	3003 Mar 10 07:54	18° <b>)</b> 51'21 0°42'40
opposition	2996 Aug 26 03:42	4° <b>)</b> €28'38 -0°21'02	max. Earth dist.	3003 Mar 10 23:26	18° <b>¥</b> 52'49 30.97114 AU
min. Earth dist.	2996 Aug 25 18:06	4° <b>¥</b> 29'17 29.04319 A		3003 Mar 25 20:07	19° <b>¥</b> 26′24
	2996 Nov 13 08:54	3° <b>₭</b> 05'29	_	3003 Jun 24 07:16	21° <b>)</b> (24'17
direct			retrograde		
evening set	2997 Feb 08 08:33	4° <b>米</b> 58′59	opposition	3003 Sep 12 23:26	19° <b>¥</b> 59'46 -0°47'26
			min. Earth dist.	3003 Sep 12 08:11	20° <b>₭</b> 00'48 28.96736 AU
conjunction	2997 Feb 23 17:02	5° <b>∺</b> 33'40 -0°21'31	direct	3003 Nov 30 15:41	18° <b>¥</b> 36'38
minimum elong	2997 Feb 23 17:02	5° <b>)</b> 33'40 0°21'31	evening set	3004 Feb 25 08:42	20° <b>升</b> 29'58
max. Earth dist.	2997 Feb 24 03:48	5° <b>)</b> 34'40 31.03639 A	.U		
morning rise	2997 Mar 11 03:19	6° <b>∺</b> 08'33	conjunction	3004 Mar 11 18:42	21° <b>升</b> 04'48 -0°46'01
retrograde	2997 Jun 09 02:25	8° <b>)</b> €05'40	minimum elong	3004 Mar 11 18:41	21° <b>升</b> 04'48 0°46'01
opposition	2997 Aug 28 16:40	6° <b>¥</b> 41'35 -0°24'57	max. Earth dist.	3004 Mar 12 10:57	21° <b>¥</b> 06′20 30.96306 AU
min. Earth dist.	2997 Aug 28 05:33	6°¥42'20 29.02974 A	.U morning rise	3004 Mar 27 07:13	21° <b>¥</b> 39'53
direct	2997 Nov 15 21:45	5° <b>¥</b> 18′23	retrograde	3004 Jun 25 22:06	23° <b>)</b> 37′54
evening set	2998 Feb 10 18:46	7° <b>∺</b> 11'49	opposition	3004 Sep 14 12:33	22°\dagger 13'22 -0°50'58
evening set	2998100 10 18.40	/ /(1149	min. Earth dist.	*	22° <del>X</del> 13'22 -0 30'38 22° <del>X</del> 14'31 28.95926 AU
. ,.	2000 F 1 26 02 10	70 1 4 (122 002 5100		3004 Sep 13 19:47	
conjunction	2998 Feb 26 03:18	7°\(\frac{1}{46}\)'32 -0°25'09	direct	3004 Dec 02 04:09	20° <b>¥</b> 50'16
minimum elong	2998 Feb 26 03:17	7° <b>¥</b> 46'32 0°25'09	evening set	3005 Feb 26 19:35	22° <b>∺</b> 43'37
max. Earth dist.	2998 Feb 26 13:53	7° <b>光</b> 47′32 31.02308 A			
morning rise	2998 Mar 13 14:01	8° <b>∺</b> 21′26	conjunction	3005 Mar 14 05:43	23° <b>米</b> 18′29 -0°49′18
retrograde	2998 Jun 11 15:01	10° <b>升</b> 18'40	minimum elong	3005 Mar 14 05:43	23° <b>)</b> 18′29 0°49′17
opposition	2998 Aug 31 05:51	8° <b>)</b> 54′28 -0°28′49	max. Earth dist.	3005 Mar 14 22:03	23° <b>₭</b> 20'02 30.95471 AU
min. Earth dist.	2998 Aug 30 18:28	8° <b>¥</b> 55'14 29.01685 A	.U morning rise	3005 Mar 29 18:40	23° <b>¥</b> 53'37
direct	2998 Nov 18 07:40	7° <b>)</b> 31'14	retrograde	3005 Jun 28 10:36	25° <b>ℋ</b> 51'46
evening set	2999 Feb 13 04:49	9° <b>∺</b> 24'37	min. Earth dist.	3005 Sep 16 09:40	24° <b>升</b> 28'18 28.95077 AU
· ·			opposition	3005 Sep 17 01:41	24° <b>₩</b> 27'12 -0°54'26
conjunction	2999 Feb 28 13:40	9° <b>)</b> 59'20 -0°28'44	direct	3005 Dec 04 14:59	23° <b>)</b> €04'08
minimum elong	2999 Feb 28 13:40	9° <b>)</b> 59'20 0°28'44	evening set	3006 Mar 01 06:27	24° <b>)</b> (57'30
max. Earth dist.	2999 Mar 01 02:14	10° <b>)</b> €00'32 31.01053 A	•	3000 11141 01 00.27	21 7(37 30
morning rise	2999 Mar 16 00:30	10° <b>X</b> 34'16	conjunction	3006 Mar 16 17:00	25° <b>)</b> 32′23 -0°52′30
•			v		
retrograde	2999 Jun 14 02:02	12° <b>X</b> 31'37	minimum elong	3006 Mar 16 17:00	25°\(\frac{1}{32}\)23 0°52'30
opposition	2999 Sep 02 18:57	11° <b>米</b> 07′19 -0°32′38	max. Earth dist.	3006 Mar 17 10:23	25°\(\frac{1}{3}\) 30.94581 AU
min. Earth dist.	2999 Sep 02 06:18	11° <b>米</b> 08′11 29.00481 A	Č	3006 Apr 01 06:10	26° <b>∺</b> 07'33
direct	2999 Nov 20 20:09	9° <b>)</b> 44′05	retrograde	3006 Jun 30 23:31	28° <b>∺</b> 05'49
evening set	3000 Feb 15 15:07	11° <b>¥</b> 37′26	opposition	3006 Sep 19 14:49	26° <b>)</b> 41'13 -0°57'50
			min. Earth dist.	3006 Sep 18 21:40	26° <b>光</b> 42′23 28.94137 AU
conjunction	3000 Mar 03 00:02	12° <b>米</b> 12′10 -0°32′18	direct	3006 Dec 07 04:03	25° <b>∺</b> 18′09
minimum elong	3000 Mar 03 00:02	12° <b>米</b> 12′10 0°32′18	evening set	3007 Mar 03 17:28	27° <b>∺</b> 11'31
max. Earth dist.	3000 Mar 03 12:31	12° <b>米</b> 13′21 30.99912 A	.U		
morning rise	3000 Mar 18 11:21	12° <b>¥</b> 47'08	conjunction	3007 Mar 19 04:07	27° <b>)</b> 46'26 -0°55'38
retrograde	3000 Jun 16 15:36	14° <b>)</b> 44'36	minimum elong	3007 Mar 19 04:07	27° <b>¥</b> 46′26 0°55′38
opposition	3000 Sep 05 08:04	13° <b>)</b> 20′13 -0°36′25	max. Earth dist.	3007 Mar 19 20:47	27° <b>₭</b> 48'01 30.93585 AU
min. Earth dist.	3000 Sep 03 00:01	13° <b>∺</b> 21'09 28.99411 A		3007 Apr 03 17:47	28°\(\frac{1}{2}1'38\)
direct	3000 Sep 04 18.20 3000 Nov 23 05:48	11° <b>X</b> 56'59	norning risc	-	0° <b>γ</b>
				3007 May 29 07:50	
evening set	3001 Feb 18 01:18	13° <b>¥</b> 50′19	retrograde	3007 Jul 03 13:12	0° <b>Υ</b> 20'01
		4.401/4.500		3007 Aug 08 12:38	30° <b>R</b> ₩
conjunction	3001 Mar 05 10:36	14° <b>米</b> 25′04 -0°35′48	min. Earth dist.	3007 Sep 21 11:20	28°¥56'30 28.93101 AU
minimum elong	3001 Mar 05 10:36	14° <b>¥</b> 25′04 0°35′48	opposition	3007 Sep 22 04:08	28° <b>¥</b> 55′21 -1°01′08
max. Earth dist.	3001 Mar 06 00:55	14° <b> ★</b> 26′26 30.98888 A	.U direct	3007 Dec 09 14:30	27° <b>)</b> 32′17
morning rise	3001 Mar 20 22:07	15° <b>米</b> 00'04	evening set	3008 Mar 05 04:27	29° <b>¥</b> 25'37
retrograde	3001 Jun 19 03:30	16° <b>)</b> 57′40			
opposition	3001 Sep 07 21:13	15° <b>)</b> 33'13 -0°40'09	conjunction	3008 Mar 20 15:35	0° <b>Υ</b> '00'34 -0°58'40
min. Earth dist.	=	15° <b>)</b> 34'11 28.98438 A		3008 Mar 20 15:35	0° <b>Υ</b> '00'34 0°58'40
	3001 360 07 07.12				
unect	3001 Sep 07 07:12 3001 Nov 25 16:53				$_0$ $\circ$ $oldsymbol{\gamma}$
direct evening set	3001 Nov 25 16:53	14° <b>∺</b> 10′01		3008 Mar 20 09:37	
evening set	•		max. Earth dist.		0°Υ 0°Υ02'16 30.92500 AU 0°Υ35'48

ratragrada	3008 Jul 05 00:28	2° <b>Ƴ</b> 34'16		conjunction	3015 Apr 06 00:07	15° <b>Ƴ</b> 39'32	1017110
retrograde opposition	3008 Sep 23 17:12	1°Υ09'31 -	1004'21	minimum elong	3015 Apr 06 00:07	$15^{\circ}$ <b>Y</b> $39'32$	
min. Earth dist.	3008 Sep 23 17:12 3008 Sep 22 23:44		28.91977 AU	max. Earth dist.	3015 Apr 06 00:07		30.86186 AU
mm. Lattii dist.	3008 Nov 12 09:05	30°R <b></b> ₩	20.71777710	morning rise	3015 Apr 21 16:42	16° <b>Υ</b> 14'58	30.00100710
direct	3008 Dec 11 03:21	29° <b>)</b> 46'26		retrograde	3015 Jul 21 22:21	18°Υ13'56	
	3009 Jan 08 04:16	0°Υ		opposition	3015 Oct 10 11:12	16° <b>Y</b> 48'46	-1°23'53
evening set	3009 Mar 07 15:34	1° <b>Y</b> 39'44		min. Earth dist.	3015 Oct 09 13:51		28.86027 AU
				direct	3015 Dec 27 11:44	15° <b>Y</b> 25'35	
conjunction	3009 Mar 23 02:53	2° <b>Y</b> 14'42 -	-1°01'38	evening set	3016 Mar 22 22:20	17° <b>Y</b> 18'52	
minimum elong	3009 Mar 23 02:52	2° <b>Y</b> 14'42		Ü			
max. Earth dist.	3009 Mar 23 20:13	2° <b>Y</b> 16'20 3	30.91359 AU	conjunction	3016 Apr 07 12:00	17° <b>Ƴ</b> 54'01	-1°19'32
morning rise	3009 Apr 07 17:19	2° <b>Y</b> 49'57		minimum elong	3016 Apr 07 12:00	17° <b>Ƴ</b> 54'01	1°19'32
retrograde	3009 Jul 07 13:36	4° <b>Y</b> 48'30		max. Earth dist.	3016 Apr 08 09:27	17° <b>Y</b> 56'03	30.85736 AU
opposition	3009 Sep 26 06:15	3° <b>Y</b> 23'39 -	-1°07'27	morning rise	3016 Apr 23 05:10	18° <b>Ƴ</b> 29'29	
min. Earth dist.	3009 Sep 25 12:26	3° <b>Y</b> ′24'53 2	28.90836 AU	retrograde	3016 Jul 23 12:35	20° <b>Y</b> 28'32	
direct	3009 Dec 13 13:23	2° <b>Y</b> ′00'31		min. Earth dist.	3016 Oct 11 03:08	19° <b>Ƴ</b> 04'48	28.85616 AU
evening set	3010 Mar 10 02:35	3° <b>Y</b> 53'49		opposition	3016 Oct 12 00:01	19° <b>Ƴ</b> 03'21	-1°26'13
				direct	3016 Dec 28 22:33	17° <b>Ƴ</b> 40'11	
conjunction	3010 Mar 25 14:19	4° <b>Y</b> 28'48 -	-1°04'30	evening set	3017 Mar 25 10:00	19° <b>Y</b> 33'30	
minimum elong	3010 Mar 25 14:18	4° <b>Y</b> 28'48	1°04'30				
max. Earth dist.	3010 Mar 26 09:08	4° <b>Y</b> 30'35 3	30.90214 AU	conjunction	3017 Apr 10 00:13	20° <b>Y</b> 08'41	-1°21'39
morning rise	3010 Apr 10 04:58	5° <b>Ƴ</b> 04'05		minimum elong	3017 Apr 10 00:13	20° <b>Y</b> 08'41	1°21'40
retrograde	3010 Jul 10 01:05	7° <b>Y</b> ′02'42		max. Earth dist.	3017 Apr 10 22:56	20° <b>Y</b> 10′50	30.85331 AU
opposition	3010 Sep 28 19:09	5° <b>Ƴ</b> 37'45 -	-1°10'28	morning rise	3017 Apr 25 17:38	20° <b>Ƴ</b> 44'11	
min. Earth dist.	3010 Sep 28 01:13	5° <b>Υ</b> 39'00 2	28.89722 AU	retrograde	3017 Jul 26 00:35	22° <b>Y</b> 43'18	
direct	3010 Dec 16 00:22	4° <b>Υ</b> 14'35		opposition	3017 Oct 14 12:45	21° <b>Y</b> 18'07	-1°28'24
evening set	3011 Mar 12 13:44	6° <b>Ƴ</b> 07'51		min. Earth dist.	3017 Oct 13 15:24	21° <b>Y</b> 19'36	28.85206 AU
				direct	3017 Dec 31 11:08	19° <b>Ƴ</b> 54'58	
conjunction	3011 Mar 28 01:42	6° <b>Ƴ</b> 42'51 -	-1°07'16	evening set	3018 Mar 27 21:59	21° <b>Y</b> 48'19	
minimum elong	3011 Mar 28 01:42	6° <b>Ƴ</b> 42'51	1°07'16				
max. Earth dist.	3011 Mar 28 20:31		30.89151 AU	conjunction	3018 Apr 12 12:23	22° <b>Y</b> 23'31	
morning rise	3011 Apr 12 16:49	7° <b>Ƴ</b> 18'10		minimum elong	3018 Apr 12 12:23	22° <b>Y</b> 23'31	1°23'38
retrograde	3011 Jul 12 15:19	9° <b>Ƴ</b> 16'51		max. Earth dist.	3018 Apr 13 10:06		30.84904 AU
opposition	3011 Oct 01 08:03	7° <b>Y</b> 51'50 -		morning rise	3018 Apr 28 06:20	22° <b>Y</b> 59'03	
min. Earth dist.	3011 Sep 30 12:50		28.88722 AU	retrograde	3018 Jul 28 14:28	24° <b>Y</b> 58'13	
direct	3011 Dec 18 11:21	6° <b>Y</b> 28'38		min. Earth dist.	3018 Oct 16 04:18		28.84760 AU
evening set	3012 Mar 14 00:49	8° <b>Ƴ</b> 21'54		opposition	3018 Oct 17 01:33	23° <b>Y</b> 33′02	-1°30'28
		••		direct	3019 Jan 02 21:36	22° <b>Y</b> 09'53	
conjunction	3012 Mar 29 13:07	8° <b>Y</b> 56'55 -		evening set	3019 Mar 30 09:59	24° <b>Y</b> 03'15	
minimum elong	3012 Mar 29 13:07		1°09'56				
max. Earth dist.	3012 Mar 30 08:55		30.88198 AU	conjunction	3019 Apr 15 00:54	24°Υ38'29	
morning rise	3012 Apr 14 04:36	9° <b>Ƴ</b> 32'16		minimum elong	3019 Apr 15 00:54	24° <b>Y</b> 38'29	
retrograde	3012 Jul 14 04:18	11° <b>Υ</b> 31'01	101711	max. Earth dist.	3019 Apr 15 23:30		30.84408 AU
opposition	3012 Oct 02 20:59	10° <b>Υ</b> 05'56 -		morning rise	3019 Apr 30 19:08	25°Υ14'03	
min. Earth dist.	3012 Oct 02 01:59	10° <b>Υ</b> 07'15 2	28.87845 AU	retrograde	3019 Jul 31 02:44	27°Υ13'16	1022122
direct	3012 Dec 19 23:21	8° <b>Ƴ</b> 42'43 10° <b>Ƴ</b> 35'58		opposition	3019 Oct 19 14:24	25° <b>Y</b> 48′03	
evening set	3013 Mar 16 12:03	10- 1 35 38		min. Earth dist.	3019 Oct 18 17:35	25° γ 49′30 24° <b>Υ</b> 24'53	28.84221 AU
conjunction	3013 Apr 01 00:45	11° <b>Υ</b> 11'02 -	-1°12'30	direct evening set	3020 Jan 05 09:05 3020 Mar 31 22:04	24°Υ24'53 26°Υ18'16	
minimum elong	3013 Apr 01 00:45	11° <b>γ</b> 11'02 -		evening set	3020 IVIAI 31 22.U4	20   1810	
max. Earth dist.	3013 Apr 01 00:45 3013 Apr 01 21:13	11° <b>γ</b> 11'01 11° <b>γ</b> 12'58 3		conjunction	3020 Apr 16 13:22	26° <b>Ƴ</b> 53'31	-1°27'14
morning rise	3013 Apr 16 16:36	11 γ 12 38 3 11° <b>Υ</b> 46'24	50.01570 AU	minimum elong	3020 Apr 16 13:22	26° <b>Υ</b> 53'31	
retrograde	3013 Jul 16 18:40	13° <b>Υ</b> 45'13		max. Earth dist.	3020 Apr 17 11:09		30.83830 AU
opposition	3013 Jul 10 18:40 3013 Oct 05 09:34	12° <b>Υ</b> 20'05 -	1018'52	morning rise	3020 May 02 08:08	27° <b>Υ</b> 29'06	30.03030 AC
min. Earth dist.	3013 Oct 03 09.34 3013 Oct 04 13:00	$12^{\circ}$ <b>Y</b> 20'03 - $12^{\circ}$ <b>Y</b> 21'31 2		retrograde	3020 May 02 08.08 3020 Aug 01 16:37	27 <b>γ</b> 29 06 29° <b>γ</b> 28'21	
direct	3013 Dec 22 11:14	10° <b>Υ</b> 56'52	20.07114 AC	min. Earth dist.	3020 Aug 01 10:57 3020 Oct 20 05:53		28.83597 AU
evening set	3014 Mar 18 23:28	10 γ 50 52 12° <b>γ</b> 50'08		opposition	3020 Oct 20 03:33 3020 Oct 21 03:10	28° <b>Υ</b> 03'06	
J. Ching Set	501 1 Mai 10 25.20	12 1 20 00		direct	3020 Oct 21 03:10 3021 Jan 06 20:27	26° <b>Υ</b> 39'53	1 5 7 10
conjunction	3014 Apr 03 12:25	13° <b>Y</b> ′25'13 -	-1°14'58	evening set	3021 Apr 03 10:16	28° <b>Y</b> 33'16	
minimum elong	3014 Apr 03 12:24	13° <b>Υ</b> 25'13		5 <b>5</b> 5 <b>5 5</b>	5-1-1-pr 05 10.10		
max. Earth dist.	3014 Apr 04 09:03	$13^{\circ}$ <b>Y</b> 27'10 3		conjunction	3021 Apr 19 02:00	29° <b>Y</b> 08'32	-1°28'50
morning rise	3014 Apr 19 04:43	14° <b>Υ</b> '00'37		minimum elong	3021 Apr 19 02:00	29° <b>Υ</b> 08'32	
retrograde	3014 Jul 19 07:55	15° <b>Y</b> 59'31		max. Earth dist.	3021 Apr 19 24:00		30.83158 AU
opposition	3014 Oct 07 22:27	14° <b>Υ</b> '34'22 -	-1°21'27	morning rise	3021 May 04 21:10	29° <b>Υ</b> 44'09	
min. Earth dist.	3014 Oct 07 02:24	14° <b>Υ</b> 35'45 2			3021 May 12 03:24	0°8	
direct	3014 Dec 24 22:13	13° <b>Υ</b> 11'09		retrograde	3021 Aug 04 04:44	1° <b>8</b> 43'25	
evening set	3015 Mar 21 10:40	15° <b>Υ</b> '04'25		opposition	3021 Oct 23 15:45	0°818'06	-1°35'48
<i>5</i>				11			-

min. Earth dist.	3021 Oct 22 19:26	0∘⊁10/31	28.82905 AU	conjunction	3028 May 04 19:13	14° <b>8</b> 53'21	1°36'08
iiiii. Eartii dist.	3021 Oct 22 19:20 3021 Nov 03 13:20	0 <b>C</b> 1931 30°R <b>Υ</b>	28.82903 AU	minimum elong	3028 May 04 19:13	14° <b>8</b> 53'21	
direct	3022 Jan 09 08:02	28° <b>Y</b> ′54'50		max. Earth dist.	3028 May 05 18:43	_	30.80179 AU
uncet	3022 Mar 13 16:08	0°8		max. Earth dist.	3028 May 07 17:30	15° <b>8</b>	30.00177710
evening set	3022 Apr 05 22:25	0° <b>8</b> 48'13		morning rise	3028 May 20 17:23	15° <b>8</b> 29'10	
evening sec	3022 ripi 03 22.23	0 0 10 15		retrograde	3028 Aug 20 04:17	17° <b>8</b> 28'26	
conjunction	3022 Apr 21 14:37	1° <b>8</b> 23'31	-1°30'18	min. Earth dist.	3028 Nov 07 09:05	_	28.80284 AU
minimum elong	3022 Apr 21 14:37	1° <b>8</b> 23'31		opposition	3028 Nov 08 06:18	16° <b>8</b> 03'02	
max. Earth dist.	3022 Apr 22 12:39	1° <b>8</b> 25'36	30.82466 AU	11	3028 Dec 20 16:02	15° <b>R</b> 8	
morning rise	3022 May 07 10:11	1° <b>8</b> 59'09		direct	3029 Jan 24 19:29	14° <b>8</b> 39'39	
retrograde	3022 Aug 06 18:54	3° <b>8</b> 58'24			3029 Feb 28 04:26	15° <b>8</b>	
min. Earth dist.	3022 Oct 25 06:52	2° <b>8</b> 34'31	28.82219 AU	evening set	3029 Apr 21 13:06	16° <b>8</b> 33'12	
opposition	3022 Oct 26 04:15	2° <b>8</b> 33'02	-1°37'18	_	-		
direct	3023 Jan 11 20:02	1° <b>8</b> 09'43		conjunction	3029 May 07 08:22	17° <b>8</b> 08'43	-1°36'36
evening set	3023 Apr 08 10:32	3° <b>8</b> 03'05		minimum elong	3029 May 07 08:22	17° <b>8</b> 08'43	1°36'36
				max. Earth dist.	3029 May 08 07:00	17° <b>8</b> 10'52	30.80191 AU
conjunction	3023 Apr 24 03:03	3° <b>8</b> 38'25	-1°31'38	morning rise	3029 May 23 07:04	17° <b>8</b> 44'35	
minimum elong	3023 Apr 24 03:03	3° <b>8</b> 38'25	1°31'38	retrograde	3029 Aug 22 17:42	19° <b>8</b> 43'50	
max. Earth dist.	3023 Apr 25 00:57	3° <b>8</b> 40'29	30.81795 AU	opposition	3029 Nov 10 18:21	18° <b>8</b> 18'29	-1°43'29
morning rise	3023 May 09 23:08	4° <b>8</b> 14'05		min. Earth dist.	3029 Nov 09 20:52	_	28.80315 AU
retrograde	3023 Aug 09 08:10	6° <b>8</b> 13'21		direct	3030 Jan 27 06:26	16° <b>8</b> 55'06	
opposition	3023 Oct 28 16:52	4° <b>8</b> 47'55		evening set	3030 Apr 24 01:56	18° <b>8</b> 48'44	
min. Earth dist.	3023 Oct 27 20:23		28.81594 AU				
direct	3024 Jan 14 07:29	3° <b>8</b> 24'34		conjunction	3030 May 09 21:41	19° <b>8</b> 24'16	
evening set	3024 Apr 09 22:44	5° <b>8</b> 17'56		minimum elong	3030 May 09 21:41	19° <b>8</b> 24'16	
				max. Earth dist.	3030 May 10 20:30	_	30.80214 AU
conjunction	3024 Apr 25 15:50	5° <b>8</b> 53'18		morning rise	3030 May 25 20:44	20° <b>8</b> 00'09	
minimum elong	3024 Apr 25 15:50	5° <b>8</b> 53'18		retrograde	3030 Aug 25 05:36	21° <b>8</b> 59'25	
max. Earth dist.	3024 Apr 26 14:41		30.81219 AU	min. Earth dist.	3030 Nov 12 10:19		28.80328 AU
morning rise	3024 May 11 12:14	6° <b>8</b> 29'00		opposition	3030 Nov 13 06:37	20° <b>8</b> 34'06	-1°43'44
retrograde	3024 Aug 10 22:47	8° <b>8</b> 28'14	20.01072 444	direct	3031 Jan 29 17:06	19° <b>8</b> 10'43	
min. Earth dist.	3024 Oct 29 07:36	_	28.81072 AU	evening set	3031 Apr 26 14:48	21° <b>8</b> 04'23	
opposition	3024 Oct 30 05:05	7° <b>8</b> 02'47	-1°39′50		2021 M 12 11 04	210 420150	1027104
direct	3025 Jan 15 21:11	5° <b>と</b> 39'23 7° <b>と</b> 32'47		conjunction	3031 May 12 11:04 3031 May 12 11:04	21° <b>8</b> 39'58 21° <b>8</b> 39'58	
evening set	3025 Apr 12 11:09	/ 0324/		minimum elong max. Earth dist.	,	• • • • • •	30.80208 AU
conjunction	3025 Apr 28 04:32	8° <b>8</b> 08'11	1033153	morning rise	3031 May 13 09:19 3031 May 28 10:34	21° <b>8</b> 42'04	30.80208 AU
minimum elong	3025 Apr 28 04:32	8° <b>8</b> 08'11		retrograde	3031 May 28 10:34 3031 Aug 27 20:06	24° <b>8</b> 15'07	
max. Earth dist.	3025 Apr 28 04:32 3025 Apr 29 02:37	_	30.80755 AU	opposition	3031 Aug 27 20:00 3031 Nov 15 18:47	22° <b>8</b> 49'49	-1°43'50
morning rise	3025 Apr 27 02:37 3025 May 14 01:32	8° <b>8</b> 43'55	30.60733 AO	min. Earth dist.	3031 Nov 14 22:00		28.80278 AU
retrograde	3025 Aug 13 12:40	10° <b>8</b> 43'09		direct	3032 Feb 01 04:18	21° <b>8</b> 26'25	20.00270710
opposition	3025 Nov 01 17:30	9° <b>8</b> 17'41	-1°40'53	evening set	3032 Apr 28 04:01	23° <b>8</b> 20'08	
min. Earth dist.	3025 Oct 31 20:35		28.80685 AU	evening sec	3032 ripi 20 01.01	23 02000	
direct	3026 Jan 18 08:23	7° <b>8</b> 54'16	20.00000 110	conjunction	3032 May 14 00:41	23° <b>8</b> 55'44	-1°37'05
evening set	3026 Apr 14 23:22	9° <b>8</b> 47'42		minimum elong	3032 May 14 00:41	23° <b>8</b> 55'44	
S	1			max. Earth dist.	3032 May 14 22:03		30.80103 AU
conjunction	3026 Apr 30 17:21	10° <b>8</b> 23'07	-1°34'46	morning rise	3032 May 30 00:40	24° <b>8</b> 31'40	
minimum elong	3026 Apr 30 17:21	10° <b>8</b> 23'07	1°34'46	retrograde	3032 Aug 29 08:42	26° <b>8</b> 30'52	
max. Earth dist.	3026 May 01 16:41	10° <b>8</b> 25'19	30.80429 AU	min. Earth dist.	3032 Nov 16 11:46	25° <b>8</b> 06'55	28.80126 AU
morning rise	3026 May 16 14:35	10° <b>8</b> 58'53		opposition	3032 Nov 17 06:56	25° <b>8</b> 05'34	-1°43'46
retrograde	3026 Aug 16 01:14	12° <b>8</b> 58'07		direct	3033 Feb 02 16:02	23° <b>8</b> 42'06	
min. Earth dist.	3026 Nov 03 08:10	11° <b>8</b> 34'10	28.80425 AU	evening set	3033 Apr 30 17:08	25° <b>8</b> 35'50	
opposition	3026 Nov 04 05:45	11° <b>8</b> 32'39	-1°41'46				
direct	3027 Jan 20 21:09	10° <b>8</b> 09'15		conjunction	3033 May 16 14:26	26° <b>8</b> 11'28	-1°36'57
evening set	3027 Apr 17 11:52	12° <b>8</b> 02'43		minimum elong	3033 May 16 14:26	26° <b>8</b> 11'28	1°36'57
				max. Earth dist.	3033 May 17 11:50		30.79912 AU
conjunction	3027 May 03 06:10	12° <b>8</b> 38'10		morning rise	3033 Jun 01 14:46	26° <b>8</b> 47'25	
minimum elong	3027 May 03 06:10	12° <b>8</b> 38'10		retrograde	3033 Aug 31 22:45	28° <b>8</b> 46'32	
max. Earth dist.	3027 May 04 04:34		30.80246 AU	opposition	3033 Nov 19 18:57	27° <b>8</b> 21'13	
morning rise	3027 May 19 04:00	13° <b>8</b> 13'57		min. Earth dist.	3033 Nov 18 23:25		28.79886 AU
_	3027 Jul 21 03:28	15° <b>8</b>		direct	3034 Feb 05 05:52	25° <b>8</b> 57'42	
retrograde	3027 Aug 18 15:53	15° <b>8</b> 13'12		evening set	3034 May 03 06:16	27° <b>8</b> 51'26	
***	3027 Sep 16 09:36	15°R <b>8</b>	1040/20		202434 10 02 72	200	1027140
opposition	3027 Nov 06 18:02	13° <b>8</b> 47'46		conjunction	3034 May 19 03:53	28° <b>8</b> 27'06	
min. Earth dist.	3027 Nov 05 20:28		28.80312 AU	minimum elong	3034 May 19 03:53	28° <b>8</b> 27'06	
direct	3028 Jan 23 07:55	12° <b>8</b> 24'21		max. Earth dist.	3034 May 19 23:57		30.79646 AU
evening set	3028 Apr 19 00:19	14° <b>8</b> 17'52		morning rise	3034 Jun 04 04:46	29° <b>8</b> 03'04	

	3034 Jul 02 03:34	$\Pi^{\circ}\Omega$		evening set	3041 May 19 02:46	13° <b>Ⅲ</b> 37'14	
retrograde	3034 Sep 03 12:07	1° <b>Ⅱ</b> 02'06		-	-		
	3034 Nov 08 08:04	30° <b>₹</b> 8		conjunction	3041 Jun 04 03:47	14° <b>Ⅱ</b> 13′05	-1°30'38
opposition	3034 Nov 22 07:00	29° <b>8</b> 36'45 -1°4	3'10	minimum elong	3041 Jun 04 03:47	14° <b>Ⅱ</b> 13'05	1°30'39
min. Earth dist.	3034 Nov 21 12:39	29° <b>8</b> 38'02 28.7	79615 AU	max. Earth dist.	3041 Jun 04 22:15	14° <b>Ⅱ</b> 14'49	30.79935 AU
direct	3035 Feb 07 17:22	28° <b>8</b> 13'08		morning rise	3041 Jun 20 07:28	14° <b>Ⅱ</b> 49'11	
	3035 May 02 15:58	$\Pi^{\circ}0$		retrograde	3041 Sep 19 06:15	16° <b>Ⅱ</b> 47'34	
evening set	3035 May 05 19:19	0°Ⅱ06′52		opposition	3041 Dec 07 16:15	15° <b>Ⅱ</b> 22'20	-1°36'09
				min. Earth dist.	3041 Dec 06 24:00		28.80274 AU
conjunction	3035 May 21 17:36	0° <b>Ⅱ</b> 42'34 -1°3	6'14	direct	3042 Feb 23 03:53	13° <b>Ⅱ</b> 58′26	
minimum elong	3035 May 21 17:36	0° <b>Ⅱ</b> 42'34 1°3		evening set	3042 May 21 16:03	15° <b>Ⅱ</b> 52'25	
max. Earth dist.	3035 May 22 14:20	0° <b>Ⅱ</b> 44'31 30.7	9380 AU				
morning rise	3035 Jun 06 18:45	1°Ⅱ18′33		conjunction	3042 Jun 06 17:38	16° <b>Ⅱ</b> 28'17	
retrograde	3035 Sep 06 01:21	3° <b>Ⅱ</b> 17′28		minimum elong	3042 Jun 06 17:38	16° <b>Ⅱ</b> 28'17	
opposition	3035 Nov 24 18:45	1° <b>Ⅱ</b> 52'05 -1°42	2'37	max. Earth dist.	3042 Jun 07 12:12		30.80450 AU
min. Earth dist.	3035 Nov 24 00:15	1° <b>Ⅱ</b> 53'23 28.7	9360 AU	morning rise	3042 Jun 22 21:35	17° <b>Ⅱ</b> 04'25	
direct	3036 Feb 10 06:56	0° <b>Ⅱ</b> 28′24		retrograde	3042 Sep 21 19:44	19° <b>Ⅱ</b> 02'44	
evening set	3036 May 07 08:33	2° <b>Ⅲ</b> 22′08		min. Earth dist.	3042 Dec 09 11:04		28.80795 AU
				opposition	3042 Dec 10 03:39	17° <b>Ⅱ</b> 37'35	-1°34'33
conjunction	3036 May 23 07:09	2° <b>Ⅱ</b> 57'51 -1°3:		direct	3043 Feb 25 16:32	16° <b>Ⅱ</b> 13'40	
minimum elong	3036 May 23 07:09	2° <b>Ⅱ</b> 57'51 1°3:	5'39	evening set	3043 May 24 05:47	18° <b>Ⅱ</b> 07'44	
max. Earth dist.	3036 May 24 02:28	2° <b>Ⅱ</b> 59'40 30.7	9162 AU				
morning rise	3036 Jun 08 08:55	3° <b>Ⅲ</b> 33'52		conjunction	3043 Jun 09 07:39	18° <b>Ⅱ</b> 43'38	-1°27'37
retrograde	3036 Sep 07 16:09	5° <b>Ⅲ</b> 32'41		minimum elong	3043 Jun 09 07:39	18° <b>Ⅱ</b> 43'38	
opposition	3036 Nov 26 06:32	4° <b>Ⅱ</b> 07'16 -1°4	1'56	max. Earth dist.	3043 Jun 10 00:43		30.80970 AU
min. Earth dist.	3036 Nov 25 12:26	4° <b>Ⅱ</b> 08'32 28.7	9187 AU	morning rise	3043 Jun 25 12:06	19° <b>Ⅱ</b> 19'47	
direct	3037 Feb 11 19:08	2° <b>Ⅱ</b> 43'30		retrograde	3043 Sep 24 09:08	21° <b>Ⅱ</b> 18′02	
evening set	3037 May 09 21:41	4° <b>Ⅲ</b> 37'15		opposition	3043 Dec 12 15:07	19° <b>Ⅱ</b> 52'57	
				min. Earth dist.	3043 Dec 12 00:06		28.81305 AU
conjunction	3037 May 25 20:53	5° <b>Ⅱ</b> 13'00 -1°3		direct	3044 Feb 28 03:07	18° <b>Ⅱ</b> 29'02	
minimum elong	3037 May 25 20:53	5° <b>Ⅱ</b> 13'00 1°3		evening set	3044 May 25 19:27	20° <b>Ⅱ</b> 23'10	
max. Earth dist.	3037 May 26 17:01	5° <b>Ⅱ</b> 14'53 30.7	79031 AU				
morning rise	3037 Jun 10 22:53	5° <b>Ⅱ</b> 49'01		conjunction	3044 Jun 10 21:57	20° <b>∏</b> 59'05	
retrograde	3037 Sep 10 03:34	7° <b>Ⅱ</b> 47'44		minimum elong	3044 Jun 10 21:57	20° <b>∏</b> 59'06	
opposition	3037 Nov 28 18:06	6° <b>Ⅱ</b> 22'19 -1°4		max. Earth dist.	3044 Jun 11 15:05		30.81449 AU
min. Earth dist.	3037 Nov 28 00:27	6° <b>Ⅱ</b> 23'34 28.7	79114 AU	morning rise	3044 Jun 27 02:35	21° <b>Ⅱ</b> 35'15	
direct	3038 Feb 14 07:43	4° <b>Ⅱ</b> 58'30		retrograde	3044 Sep 25 22:42	23° <b>Ⅱ</b> 33'24	
evening set	3038 May 12 10:54	6° <b>Ⅱ</b> 52'16		min. Earth dist.	3044 Dec 13 11:45		28.81732 AU
		_		opposition	3044 Dec 14 02:29	22° <b>I</b> 08'23	-1°30'53
conjunction	3038 May 28 10:29	7° <b>Ⅲ</b> 28'01 -1°3₄		direct	3045 Mar 01 16:38	20° <b>∏</b> 44′26	
minimum elong	3038 May 28 10:29	7° <b>Ⅲ</b> 28'01 1°34		evening set	3045 May 28 09:18	22° <b>∏</b> 38'37	
max. Earth dist.	3038 May 29 05:36	7° <b>Ⅱ</b> 29'49 30.7	79040 AU			🗨	
morning rise	3038 Jun 13 13:00	8° <b>Ⅲ</b> 04'04		conjunction	3045 Jun 13 12:03	23° <b>Ⅱ</b> 14'34	
retrograde	3038 Sep 12 17:10	10° <b>Ⅲ</b> 02'41		minimum elong	3045 Jun 13 12:03	23° <b>Ⅱ</b> 14'34	
min. Earth dist.	3038 Nov 30 11:41	8° <b>Д</b> 38'33 28.7		max. Earth dist.	3045 Jun 14 03:03		30.81840 AU
opposition	3038 Dec 01 05:42	8° <b>Ⅲ</b> 37'17 -1°40	0'05	morning rise	3045 Jun 29 17:09	23° <b>∏</b> 50'44	
direct	3039 Feb 16 19:05	7° <b>Ⅱ</b> 13'25		retrograde	3045 Sep 28 13:30	25° <b>Ⅱ</b> 48'46	1000151
evening set	3039 May 14 23:59	9° <b>Ⅱ</b> 07'12		opposition	3045 Dec 16 13:49	24° <b>Ⅱ</b> 23'47	
	2020 14 21 00 06	00T 42100 102	210.5	min. Earth dist.	3045 Dec 16 00:02		28.82087 AU
conjunction	3039 May 31 00:06	9°II43'00 -1°33		direct	3046 Mar 04 05:09	22° <b>∏</b> 59'47	
minimum elong	3039 May 31 00:06	9°II43'00 1°33		evening set	3046 May 30 22:59	24° <b>∏</b> 54'00	
max. Earth dist.	3039 May 31 19:39	9° <b>Ⅱ</b> 44'50 30.7 10° <b>Ⅱ</b> 19'04	9193 AU		2046 I 16 02-10	250T20150	1922107
morning rise	3039 Jun 16 02:58			conjunction	3046 Jun 16 02:19	25° <b>Ⅱ</b> 29'59	
retrograde	3039 Sep 15 04:49	12° <b>I</b> 17'36	0157	minimum elong	3046 Jun 16 02:19	25° <b>Ⅱ</b> 29'59	
opposition	3039 Dec 03 17:21	10° <b>I</b> 52'14 -1°38		max. Earth dist.	3046 Jun 16 17:33		30.82164 AU
min. Earth dist.	3039 Dec 03 00:18	10°II53'26 28.7	79426 AU	morning rise	3046 Jul 02 07:34	26° <b>Ⅱ</b> 06'10	
direct	3040 Feb 19 05:57	9° <b>Ⅱ</b> 28′20		retrograde	3046 Oct 01 01:03	28° <b>∏</b> 04'04	1926142
evening set	3040 May 16 13:17	11° <b>Ⅱ</b> 22'11		opposition	3046 Dec 19 01:04	26° <b>∏</b> 39'06	
ooming -ti	2040 Jun 01 12 55	110Πεοιρο 100	1155	min. Earth dist.	3046 Dec 18 12:14		28.82380 AU
conjunction	3040 Jun 01 13:55	11°II58'00 -1°3		direct	3047 Mar 06 18:05	25° <b>Ⅱ</b> 15'03	
minimum elong	3040 Jun 01 13:55	11° <b>II</b> 58'00 1°3		evening set	3047 Jun 02 12:39	27° <b>Ⅱ</b> 09'17	
max. Earth dist.	3040 Jun 02 08:55	11°II59'47 30.7	730/ AU	aoniumsti	2047 June 19 17 19	270T 4511 C	1920102
morning rise	3040 Jun 17 17:12	12° <b>Ⅲ</b> 34'05		conjunction	3047 Jun 18 16:19	27° <b>Ⅱ</b> 45'16	
retrograde	3040 Sep 16 18:34	14° <b>II</b> 32'32	70700 ATT	minimum elong	3047 Jun 18 16:20	27° <b>Ⅱ</b> 45'16	
min. Earth dist.	3040 Dec 04 10:59	13° <b>I</b> 108'29 28.7		max. Earth dist.	3047 Jun 19 05:53		30.82463 AU
opposition	3040 Dec 05 04:41	13° <b>I</b> 107′14 -1°3′	131	morning rise	3047 Jul 04 22:05	28°Ⅲ21'28 0°©	
direct	3041 Feb 20 17:00	11° <b>Ⅱ</b> 43'19			3047 Aug 30 08:43	υ <b>ະ</b> υ	

	2047 0-4 02 15:00	096510112	J: 4	2054 Mar. 22, 02-27	10005000
retrograde	3047 Oct 03 15:08	0°©19'12	direct	3054 Mar 22 03:37	10°958'00
	3047 Nov 07 03:30	30°RⅡ 28°Ⅱ54'16 -1°24'24	evening set	3054 Jun 18 12:40	12° <b>©</b> 52'29
opposition	3047 Dec 21 12:11		IIi	2054 I-1 04 19.47	1296220125 1902117
min. Earth dist.	3047 Dec 20 23:35	28°II55'09 28.82675 A	,	3054 Jul 04 18:47	13°528'35 -1°02'17
direct	3048 Mar 08 06:15 3048 Jun 04 02:26	27° <b>Ⅱ</b> 30′08 29° <b>Ⅱ</b> 24′23	minimum elong	3054 Jul 04 18:47	13°\$28'35 1°02'17 13°\$29'27 30.86929 AU
evening set	3048 Jun 04 02:26	29°H2423	max. Earth dist. morning rise	3054 Jul 05 04:07	13°929'27' 30.86929 AU 14°904'47
agnismation	2049 Jun 20 06:24	0.0000025 1017/50	Č	3054 Jul 21 02:12 3054 Oct 19 03:47	14°90447 16°901'32
conjunction	3048 Jun 20 06:34 3048 Jun 20 06:34	0°\$00'25 -1°17'50 0°\$00'25 1°17'49	retrograde opposition	3055 Jan 05 16:14	14°936'58 -1°05'01
minimum elong	3048 Jun 20 00:34 3048 Jun 20 02:12	0°90023 11749 0°9	min. Earth dist.		
max. Earth dist.	3048 Jun 20 02:12 3048 Jun 20 20:07	0°901'41 30.82765 A		3055 Jan 05 07:35 3055 Mar 24 15:14	14°937'34 28.87502 AU 13°912'34
	3048 Jul 06 12:30	0°936'37		3055 Jun 21 02:27	15° <b>©</b> 07'07
morning rise			evening set	3033 Jun 21 02:27	13-90/0/
retrograde	3048 Oct 05 02:54	2°534'11		2055 1 1 07 00 02	150542114 0050120
opposition	3048 Dec 22 23:12	1°509'16 -1°21'59	conjunction	3055 Jul 07 09:02	15°543'14 -0°59'20
min. Earth dist.	3048 Dec 22 12:01	1°510'03 28.83000 A	Ü	3055 Jul 07 09:03	15°5043'14 0°59'20
t' .	3049 Feb 08 18:54	30°RII	max. Earth dist.	3055 Jul 07 18:37	15°5544'07 30.87997 AU
direct	3049 Mar 10 17:51	29° <b>Ⅱ</b> 45'04	morning rise	3055 Jul 23 16:27	16°5519'26
	3049 Apr 09 07:26	0.2	retrograde	3055 Oct 21 15:39	18°5016'03
evening set	3049 Jun 06 16:09	1° <b>5</b> 39'20	opposition	3056 Jan 08 03:02	16°951'35 -1°01'49
			min. Earth dist.	3056 Jan 07 19:31	16°952'07 28.88554 AU
conjunction	3049 Jun 22 20:39	2°515'22 -1°15'31	direct	3056 Mar 26 03:40	15° <b>©</b> 27'11
minimum elong	3049 Jun 22 20:40	2° <b>©</b> 15'22 1°15'31	evening set	3056 Jun 22 16:36	17° <b>©</b> 21'48
max. Earth dist.	3049 Jun 23 09:12	2°516'33 30.83140 A			
morning rise	3049 Jul 09 02:55	2° <b>9</b> 51'35	conjunction	3056 Jul 08 23:18	17°957'55 -0°56'18
retrograde	3049 Oct 07 15:40	4°549'00	minimum elong	3056 Jul 08 23:18	17° <b>©</b> 57'55 0°56'17
opposition	3049 Dec 25 10:07	3°524'06 -1°19'27	max. Earth dist.	3056 Jul 09 06:47	17°\$58'36 30.89035 AU
min. Earth dist.	3049 Dec 24 22:27	3°524'56 28.83417 A	U morning rise	3056 Jul 25 06:59	18° <b>©</b> 34'07
direct	3050 Mar 13 05:35	1° <b>9</b> 59'50	retrograde	3056 Oct 23 06:06	20°930'35
evening set	3050 Jun 09 05:43	3° <b>9</b> 54'08	opposition	3057 Jan 09 13:42	19° <b>5</b> 06'13 -0°58'31
			min. Earth dist.	3057 Jan 09 06:42	19°506'43 28.89557 AU
conjunction	3050 Jun 25 10:32	4°930'10 -1°13'05	direct	3057 Mar 28 16:05	17°9541'47
minimum elong	3050 Jun 25 10:33	4°530'10 1°13'04	evening set	3057 Jun 25 06:38	19° <b>5</b> 36'28
max. Earth dist.	3050 Jun 25 22:35	4°931'18 30.83610 A	U		
morning rise	3050 Jul 11 17:03	5° <b>5</b> 06'23	conjunction	3057 Jul 11 13:40	20°512'36 -0°53'10
retrograde	3050 Oct 10 01:46	7° <b>5</b> 03'40	minimum elong	3057 Jul 11 13:40	20°512'36 0°53'11
opposition	3050 Dec 27 21:08	5°538'47 -1°16'47	max. Earth dist.	3057 Jul 11 20:49	20°513'16 30.89988 AU
min. Earth dist.	3050 Dec 27 10:52	5°539'31 28.83956 A	U morning rise	3057 Jul 27 21:19	20°5548'48
direct	3051 Mar 15 16:33	4°9514'28	retrograde	3057 Oct 25 17:57	22°9545'07
evening set	3051 Jun 11 19:21	6° <b>≤</b> 08'47	opposition	3058 Jan 12 00:35	21°520'48 -0°55'08
			min. Earth dist.	3058 Jan 11 19:20	21°521'11 28.90461 AU
conjunction	3051 Jun 28 00:39	6°544'51 -1°10'33	direct	3058 Mar 31 04:17	19° <b>9</b> 56'22
minimum elong	3051 Jun 28 00:39	6°544'51 1°10'33	evening set	3058 Jun 27 20:30	21°951'04
max. Earth dist.	3051 Jun 28 12:36	6°545'58 30.84230 A	•		
morning rise	3051 Jul 14 07:20	7° <b>5</b> 21'03	conjunction	3058 Jul 14 03:45	22°527'12 -0°49'58
retrograde	3051 Oct 12 14:12	9° <b>5</b> 18'11	minimum elong	3058 Jul 14 03:45	22°527'12 0°49'58
opposition	3051 Dec 30 07:50	7°953'22 -1°14'01	max. Earth dist.	3058 Jul 14 09:15	22°527'42 30.90859 AU
min. Earth dist.	3051 Dec 29 21:08	7°954'08 28.84642 A	U morning rise	3058 Jul 30 11:36	23°503'24
direct	3052 Mar 17 04:21	6°\$29'00	retrograde	3058 Oct 28 06:52	24°959'33
evening set	3052 Jun 13 09:10	8°\$23'22	opposition	3059 Jan 14 11:16	23°\$35'18 -0°51'40
Č			min. Earth dist.	3059 Jan 14 06:00	23°\$35'41 28.91280 AU
conjunction	3052 Jun 29 14:41	8°\$59'26 -1°07'54	direct	3059 Apr 02 16:51	22°\$10'48
minimum elong	3052 Jun 29 14:41	8°\$59'26 1°07'54	evening set	3059 Jun 30 10:32	24°\$05'32
max. Earth dist.	3052 Jun 30 01:24	9°\$00'26 30.84994 A	=		
morning rise	3052 Jul 15 21:43	9° <b>©</b> 35'39	conjunction	3059 Jul 16 17:59	24°5541'40 -0°46'42
retrograde	3052 Oct 14 02:04	11° <b>©</b> 32'38	minimum elong	3059 Jul 16 17:59	24°\$41'40 0°46'43
opposition	3052 Dec 31 18:45	10°507'53 -1°11'07	max. Earth dist.	3059 Jul 16 22:29	24°5642'05 30.91639 AU
min. Earth dist.	3052 Dec 31 10:45	10°508'34 28.85483 A		3059 Aug 02 01:53	25°\$17'52
direct	3053 Mar 19 14:19	8°\$43'29	retrograde	3059 Aug 02 01:33 3059 Oct 30 17:23	27° <b>©</b> 13'51
evening set	3053 Jun 15 22:48	10° <b>©</b> 37'55	opposition	3060 Jan 16 21:53	25°549'39 -0°48'08
evening set	5055 Jun 15 22.40	10 -01133	min. Earth dist.	3060 Jan 16 21.33 3060 Jan 16 18:33	25°S49'53 28.92035 AU
conjunction	3053 Jul 02 04:47	11°©13'59 -1°05'08	direct		23°9349'33 28.92033 AU 24°925'05
conjunction				3060 Apr 04 03:50	
minimum elong	3053 Jul 02 04:47	11°513'59 1°05'09	evening set	3060 Jul 02 00:29	26°©19'51
max. Earth dist.	3053 Jul 02 15:54	11°S15'02 30.85907 A		2060 1-1 10 00 12	260655150 0042122
morning rise	3053 Jul 18 11:50	11°950'12	conjunction	3060 Jul 18 08:12	26°\$55'59 -0°43'22
retrograde	3053 Oct 16 14:04	13°5547'04	minimum elong	3060 Jul 18 08:12	26°S55'59 0°43'22
opposition	3054 Jan 03 05:28	12°S22'24 -1°08'07	max. Earth dist.	3060 Jul 18 11:55	26°S56'20 30.92386 AU
min. Earth dist.	3054 Jan 02 20:01	12°523'04 28.86444 A	U morning rise	3060 Aug 03 16:07	27° <b>9</b> 32'10

retrograde	3060 Nov 01 05:36	29° <b>©</b> 27'59		evening set	3067 Jul 19 00:50	11° <b>Ω</b> 56'36	
opposition	3061 Jan 18 08:22	29 <b>3</b> 27 39 28° <b>3</b> 03'49	0044122	evening set	3007 Jul 19 00.30	11 863030	
min. Earth dist.	3061 Jan 18 05:01		28.92763 AU	conjunction	3067 Aug 04 09:04	12°Ω32'42 -	0010124
direct	3061 Apr 06 15:54	26°939'12	28.92703 AU		•	$12^{\circ} \Omega 32^{\circ} 42^{\circ} - 12^{\circ} \Omega 32^{\circ} 42^{\circ}$	
				minimum elong	3067 Aug 04 09:04	$12^{\circ} \Omega 32'32$	
evening set	3061 Jul 04 14:22	28° <b>©</b> 34'00		max. Earth dist.	3067 Aug 04 07:13	• • • •	30.99363 AU
	2061 7 1 20 22 05	20001010	0020150	morning rise	3067 Aug 20 16:41	13° <b>Ω</b> 08'45	
conjunction	3061 Jul 20 22:05	29°5510'08			3067 Nov 03 02:59	15° <b>Ω</b>	
minimum elong	3061 Jul 20 22:05	29°5510'08	0°39'58	retrograde	3067 Nov 17 16:06	15° <b>Ω</b> 03'34	
max. Earth dist.	3061 Jul 21 00:24		30.93117 AU		3067 Dec 02 03:54	15°R <b>Ω</b>	
morning rise	3061 Aug 06 06:04	29° <b>©</b> 46'17		opposition	3068 Feb 03 08:48	13° <b>Ω</b> 39'57 -	
	3061 Aug 12 15:28	$0$ $^{\circ}\Omega$		min. Earth dist.	3068 Feb 03 09:57	13° <b>Ω</b> 39'52 2	28.99998 AU
retrograde	3061 Nov 03 16:07	1° <b>Ω</b> 41'57		direct	3068 Apr 22 03:59	12° <b>Ω</b> 15'12	
opposition	3062 Jan 20 18:53	0° <b>Ω</b> 17'50		evening set	3068 Jul 20 14:45	14° <b>Ω</b> 10′23	
min. Earth dist.	3062 Jan 20 17:00	0° <b>Ω</b> 17'58	28.93518 AU				
	3062 Jan 31 08:22	30° <b>₹</b> 5		conjunction	3068 Aug 05 22:58	14° <b>Ω</b> 46'28 -	-0°14'52
direct	3062 Apr 09 01:59	28° <b>©</b> 53'09		minimum elong	3068 Aug 05 22:58	14° <b>Ω</b> 46'28	0°14'52
	3062 Jun 13 14:51	$0^{\circ}\Omega$		behind sun begin	3068 Aug 05 20:42	14° <b>Ω</b> 46'16	
evening set	3062 Jul 07 04:04	0° <b>Ω</b> 47'58		behind sun end	3068 Aug 06 01:13	14° <b>Ω</b> 46'40	
				max. Earth dist.	3068 Aug 05 20:17	14° <b>Ω</b> 46'14 3	31.00618 AU
conjunction	3062 Jul 23 12:04	1° <b>Ω</b> 24'06	-0°36'31		3068 Aug 12 00:56	15° <b>Ω</b>	
minimum elong	3062 Jul 23 12:04	1° <b>Ω</b> 24'06	0°36'30	morning rise	3068 Aug 22 06:20	15° <b>Ω</b> 22'30	
max. Earth dist.	3062 Jul 23 14:32	1° <b>Ω</b> 24'19	30.93904 AU	retrograde	3068 Nov 19 03:16	17° <b>Ω</b> 17'12	
morning rise	3062 Aug 08 19:56	2° <b>Ω</b> 00'14		opposition	3069 Feb 04 19:16	15° <b>Ω</b> 53'40 -	-0°13'53
retrograde	3062 Nov 06 02:48	3° <b>Ω</b> 55'44		min. Earth dist.	3069 Feb 04 22:22	15° <b>Ω</b> 53'27 2	29.01228 AU
opposition	3063 Jan 23 05:12	2° <b>Ω</b> 31'40	-0°37'09		3069 Mar 11 02:59	15°R <b>ℳ</b>	
min. Earth dist.	3063 Jan 23 03:29	2° <b>Ω</b> 31'47	28.94334 AU	direct	3069 Apr 24 14:53	14° <b>Ω</b> 28'56	
direct	3063 Apr 11 15:11	1° <b>Ω</b> 06'56			3069 Jun 07 08:41	15° <b>Ω</b>	
evening set	3063 Jul 09 17:54	3° <b>Ω</b> 01'48		evening set	3069 Jul 23 04:29	16° <b>Ω</b> 24'10	
				_			
conjunction	3063 Jul 26 01:53	3° <b>Ω</b> 37'55	-0°33'00	conjunction	3069 Aug 08 12:40	17° <b>Ω</b> 00'14 -	-0°11'10
minimum elong	3063 Jul 26 01:53	3° <b>Ω</b> 37'55	0°33'00	minimum elong	3069 Aug 08 12:40	17° <b>Ω</b> 00'14	0°11'10
max. Earth dist.	3063 Jul 26 02:31	3° <b>Ω</b> 37'59	30.94771 AU	behind sun begin	3069 Aug 08 07:50	16° <b>Ω</b> 59'49	
morning rise	3063 Aug 11 09:54	4° <b>Ω</b> 14'02		behind sun end	3069 Aug 08 17:29	17° <b>Ω</b> 00'40	
retrograde	3063 Nov 08 15:09	6° <b>Ω</b> 09'23		max. Earth dist.	3069 Aug 08 09:00	16° <b>Ω</b> 59'55 3	31.01807 AU
opposition	3064 Jan 25 15:36	4° <b>Ω</b> 45'23	-0°33'23	morning rise	3069 Aug 24 19:50	17° <b>Ω</b> 36′14	
min. Earth dist.	3064 Jan 25 14:32	4° <b>Ω</b> 45'27	28.95260 AU	retrograde	3069 Nov 21 15:48	19° <b>Ω</b> 30'48	
direct	3064 Apr 13 02:34	3° <b>£</b> 20′36		opposition	3070 Feb 07 05:36	18° <b>Ω</b> 07'22 -	-0°09'55
evening set	3064 Jul 11 07:37	5° <b>Ω</b> 15'31		min. Earth dist.	3070 Feb 07 08:48	18° <b>Ω</b> 07'08	29.02358 AU
C				direct	3070 Apr 27 03:04	16° <b>Ω</b> 42'36	
conjunction	3064 Jul 27 15:50	5° <b>Ω</b> 51'38	-0°29'27	evening set	3070 Jul 25 18:22	18° <b>Ω</b> 37'52	
minimum elong	3064 Jul 27 15:50	5° <b>Ω</b> 51'38		<i>8</i>			
max. Earth dist.	3064 Jul 27 16:54		30.95751 AU	conjunction	3070 Aug 11 02:24	19° <b>Ω</b> 13'56 -	-0°07'27
morning rise	3064 Aug 12 23:35	6° <b>Ω</b> 27'44		minimum elong	3070 Aug 11 02:23	19° <b>Ω</b> 13'56	
retrograde	3064 Nov 10 02:00	8° <b>Ω</b> 22'56		behind sun begin	3070 Aug 10 20:23	19° <b>Ω</b> 13'24	
opposition	3065 Jan 27 01:55	6°Ω59'00	-0°29'34	behind sun end	3070 Aug 11 08:23	19° <b>Ω</b> 14'28	
min. Earth dist.	3065 Jan 27 01:38		28.96296 AU	max. Earth dist.	3070 Aug 10 21:04	19° <b>Ω</b> 13'28	31 02879 AU
direct	3065 Apr 15 14:30	5° <b>Ω</b> 34'13		morning rise	3070 Aug 27 09:25	19° <b>Ω</b> 49'54	
evening set	3065 Jul 13 21:26	7° <b>Ω</b> 29'12		retrograde	3070 Nov 24 01:30	21° <b>Ω</b> 44'20	
		, 00=> ==		opposition	3071 Feb 09 15:56	20° <b>Ω</b> 20'57 -	-0°05'55
conjunction	3065 Jul 30 05:33	8° <b>Ω</b> 05'18	-0°25'52	min. Earth dist.	3071 Feb 09 20:53	20°Ω20'36	
minimum elong	3065 Jul 30 05:33	8° <b>Ω</b> 05'18		direct	3071 Apr 29 13:24	18° <b>Ω</b> 56'08	
max. Earth dist.	3065 Jul 30 04:56		30.96863 AU	evening set	3071 Jul 28 08:05	20° <b>Ω</b> 51'26	
morning rise	3065 Aug 15 13:24	8° <b>Ω</b> 41'23	30.90003710	evening sec	3071341 20 00.03	20 003120	
retrograde	3065 Nov 12 15:55	10° <b>Ω</b> 36'27		conjunction	3071 Aug 13 16:11	21° <b>Ω</b> 27'28 -	.0°03'44
opposition	3066 Jan 29 12:15	9° <b>Ω</b> 12'37	-0°25'42	minimum elong	3071 Aug 13 16:11	21° <b>Ω</b> 27'28	
min. Earth dist.	3066 Jan 29 11:58		28.97468 AU	behind sun begin	3071 Aug 13 10:11 3071 Aug 13 09:39	21° <b>Ω</b> 26'53	0 03 44
direct	3066 Apr 18 03:07	7° <b>Ω</b> 47'50	20.77400 AC	behind sun end	3071 Aug 13 07:37 3071 Aug 13 22:43	21° <b>Ω</b> 28'03	
evening set	3066 Jul 16 10:59	9° <b>Ω</b> 42'52		max. Earth dist.	3071 Aug 13 22:43 3071 Aug 13 10:31	$21^{\circ}\Omega 26'58$	31 03852 ATT
evening set	5000 Jul 10 10.59	) OLHA 34		morning rise	3071 Aug 13 10.31 3071 Aug 29 22:55	$21^{\circ}02038$ $22^{\circ}03'25$	51.05054 AU
conjunction	3066 Aug 01 19:16	10° <b>Ω</b> 18'58	-0°22'14	retrograde	3071 Aug 29 22:33 3071 Nov 26 11:17	22 <b>δ l</b> 03 23 23° <b>Ω</b> 57'40	
minimum elong	3066 Aug 01 19:16	10 <b>δ</b> 218 38 10° <b>Ω</b> 18'58		opposition	3071 Nov 26 11.17 3072 Feb 12 02:13	$23^{\circ} \Omega 3/40$ $22^{\circ} \Omega 34'20$ -	-0°01'56
max. Earth dist.	-		30.98081 AU	min. Earth dist.	3072 Feb 12 02:13 3072 Feb 12 07:44	$22^{\circ} \Omega 34 20 = 22^{\circ} \Omega 33'57 = 22^{$	
	3066 Aug 18 02:53	10° <b>Ω</b> 55'02	50.70001 AU			$21^{\circ} \Omega 09'29$	∠1.∪ <del>1</del> ∠71 AU
morning rise	3066 Aug 18 02:53 3066 Nov 15 03:15	10° <b>∂</b> ℓ33'02 12° <b>Ω</b> 49'59		direct	3072 May 01 02:26 3072 Jul 29 21:54	21° <b>δ (</b> 09′29 23° <b>Ω</b> 04'47	
retrograde			0°21!47	evening set			
opposition	3067 Jan 31 22:39	11° <b>Ω</b> 26'15		asc. node	3072 Aug 08 00:49	23° <b>Ω</b> 24'48	
min. Earth dist.	3067 Jan 31 23:53		28.98719 AU	agniumation	2072 Ava 15 05:42	220 1 40140	000005
direct	3067 Apr 20 15:29	10° <b>Ω</b> 01'30		conjunction	3072 Aug 15 05:43	23° <b>Ω</b> 40'48	0°00'05

minimum elong	3072 Aug 15 05:42	23° <b>Ω</b> 40'48	0°00'05	opposition	3078 Feb 24 15:08	5° <b>m</b> 49'50	0°21'45
behind sun begin	3072 Aug 14 23:29	23°Ω40'15	0 00 03	min. Earth dist.	3078 Feb 25 00:49		29.09830 AU
behind sun end	3072 Aug 15 11:55	23°Ω41'21		direct	3078 May 15 02:29	4° m) 24'44	27.07030710
max. Earth dist.	3072 Aug 14 21:54		31.04725 AU	evening set	3078 Aug 13 05:46	6° m 20'10	
morning rise	3072 Aug 31 12:18	24°Ω16'43			20101-108		
retrograde	3072 Nov 27 22:31	26°Ω10'49		conjunction	3078 Aug 29 12:28	6° m 56'01	0°22'12
opposition	3073 Feb 13 12:26	24° <b>Ω</b> 47'30	0°02'03	minimum elong	3078 Aug 29 12:28	6° m 56'01	0°22'12
min. Earth dist.	3073 Feb 13 18:52	24° <b>Ω</b> 47'03	29.05146 AU	max. Earth dist.	3078 Aug 29 01:32		31.10432 AU
direct	3073 May 03 13:06	23° <b>Ω</b> 22'34		morning rise	3078 Sep 14 17:04	7° m/31'42	
evening set	3073 Aug 01 11:24	25° <b>Ω</b> 17'54		retrograde	3078 Dec 11 16:44	9° m 24'59	
				opposition	3079 Feb 27 01:02	8° mp 01'58	0°25'36
conjunction	3073 Aug 17 19:14	25° <b>Ω</b> 53'53	0°03'52	min. Earth dist.	3079 Feb 27 10:24	8° <b>m</b> 01'18	29.11069 AU
minimum elong	3073 Aug 17 19:15	25° <b>Ω</b> 53'53	0°03'52	direct	3079 May 17 14:44	6° M 36′52	
behind sun begin	3073 Aug 17 12:43	25° <b>Ω</b> 53'19		evening set	3079 Aug 15 19:01	8° m 32'23	
behind sun end	3073 Aug 18 01:46	25° <b>Ω</b> 54'28					
max. Earth dist.	3073 Aug 17 11:38	25° <b>Ω</b> 53'12	31.05550 AU	conjunction	3079 Sep 01 01:22	9° <b>m</b> 08'12	0°25'48
morning rise	3073 Sep 03 01:24	26° <b>Ω</b> 29'46		minimum elong	3079 Sep 01 01:22	9° <b>™</b> 08'12	0°25'48
retrograde	3073 Nov 30 08:12	28° <b>Ω</b> 23'42		max. Earth dist.	3079 Aug 31 13:25	9° <b>m</b> 07'06	31.11707 AU
opposition	3074 Feb 15 22:39	27° <b>Ω</b> 00′25	0°06'02	morning rise	3079 Sep 17 05:37	9° <b>m</b> 43'51	
min. Earth dist.	3074 Feb 16 06:08		29.05960 AU	retrograde	3079 Dec 14 02:33	11° <b>m</b> 37'04	
direct	3074 May 06 01:13	25° <b>Ω</b> 35'26		opposition	3080 Feb 29 11:12	10° <b>m</b> 14'09	
evening set	3074 Aug 04 00:50	27° <b>Ω</b> 30'45		min. Earth dist.	3080 Feb 29 21:53	10° <b>m</b> 13'24	29.12375 AU
				direct	3080 May 19 00:45	8° Mp 49'06	
conjunction	3074 Aug 20 08:22	28° <b>Ω</b> 06'42		evening set	3080 Aug 17 08:09	10° <b>m</b> 44'40	
minimum elong	3074 Aug 20 08:21	28° <b>Ω</b> 06'42	0°07'35				
behind sun begin	3074 Aug 20 02:23	28° <b>Ω</b> 06'11		conjunction	3080 Sep 02 14:16	11° <b>m</b> )20'28	0°29'21
behind sun end	3074 Aug 20 14:19	28° <b>Ω</b> 07'14		minimum elong	3080 Sep 02 14:16	11°M)20'28	0°29'21
max. Earth dist.	3074 Aug 19 22:55		31.06373 AU	max. Earth dist.	3080 Sep 02 02:25		31.13011 AU
morning rise	3074 Sep 05 14:26	28° <b>Ω</b> 42'33		morning rise	3080 Sep 18 17:59	11° <b>TQ</b> 56'05	
_	3074 Oct 16 19:31	0° <b>m</b> )		retrograde	3080 Dec 15 12:07	13° <b>m</b> 49'12	
retrograde	3074 Dec 02 20:22	0° mp 36'20		opposition	3081 Mar 02 21:21	12° TD 26'24	0°33'12
	3075 Jan 19 20:20	30°R€		min. Earth dist.	3081 Mar 03 08:25		29.13660 AU
opposition	3075 Feb 18 08:44	29° <b>Ω</b> 13'04		direct	3081 May 21 12:51	11° Mp 01'23	
min. Earth dist.	3075 Feb 18 16:19		29.06799 AU	evening set	3081 Aug 19 21:25	12° <b>m</b> 57'01	
direct	3075 May 08 14:05	27° <b>Ω</b> 48'00			2001 G 05 02 02	1207-20140	0022151
evening set	3075 Aug 06 14:12	29° <b>Ω</b> 43'21		conjunction	3081 Sep 05 03:03	13° M) 32'48	0°32'51
	3075 Aug 14 04:58	0° <b>m</b> )		minimum elong max. Earth dist.	3081 Sep 05 03:02	13° M) 32'48	0°32'52
agniumation	2075 Aug 22 21:40	0° <b>m</b> 19'17	0011115		3081 Sep 04 13:19	13° m) 08'22	31.14268 AU
conjunction minimum elong	3075 Aug 22 21:40 3075 Aug 22 21:40	0°Mp1917		morning rise retrograde	3081 Sep 21 06:27 3081 Dec 17 23:25	14 11/08 22 16° My 01'26	
behind sun begin	3075 Aug 22 21:40 3075 Aug 22 16:53	0°Mp18'52	0 11 13	opposition	3081 Dec 17 23.23 3082 Mar 05 07:32	14° mp 38'43	0°36'56
behind sun end	3075 Aug 23 02:27	0° mg 1832		min. Earth dist.	3082 Mar 05 07:32 3082 Mar 05 19:20	14° m) 37'53	
max. Earth dist.	3075 Aug 22 12:32	-	31.07228 AU	direct	3082 May 23 22:25	13° m) 13'43	29.14692 AU
morning rise	3075 Sep 08 03:16	0° Mp 55'04	31.07220 AC	evening set	3082 Aug 22 10:24	15° m) 09'24	
retrograde	3075 Dec 05 06:15	2° m/48'43		evening sec	3002 Hug 22 10.21	15 110 0 2 1	
opposition	3076 Feb 20 18:51	1° m) 25'28	0°13'56	conjunction	3082 Sep 07 15:53	15° <b>m</b> 45'09	0°36'19
min. Earth dist.	3076 Feb 21 03:51		29.07694 AU	minimum elong	3082 Sep 07 15:52	15° m/ 45'09	0°36'19
direct	3076 May 10 02:33	0° m) 00'22		max. Earth dist.	3082 Sep 07 02:17		31.15440 AU
evening set	3076 Aug 08 03:33	1° m) 55'45		morning rise	3082 Sep 23 18:42	16° <b>m</b> 20'41	
Č	C	•		retrograde	3082 Dec 20 08:45	18° <b>m</b> ) 13'40	
conjunction	3076 Aug 24 10:42	2°m/31'38	0°14'56	opposition	3083 Mar 07 17:50	16° <b>m</b> 51'01	0°40'36
minimum elong	3076 Aug 24 10:42	2°m/31'38	0°14'55	min. Earth dist.	3083 Mar 08 06:52	16° <b>m</b> 50'07	29.16003 AU
behind sun begin	3076 Aug 24 08:29	2°My31'27		direct	3083 May 26 10:03	15° Mp 26'02	
behind sun end	3076 Aug 24 12:55	2°m/31'50		evening set	3083 Aug 24 23:39	17° Mp 21'46	
max. Earth dist.	3076 Aug 24 00:21	2° Mp 30'42	31.08177 AU				
morning rise	3076 Sep 09 16:05	3° <b>™</b> 07'24		conjunction	3083 Sep 10 04:35	17° <b>m</b> 57'28	0°39'43
retrograde	3076 Dec 06 18:21	5° Mp 00'54		minimum elong	3083 Sep 10 04:35	17° <b>m</b> 57'28	0°39'43
opposition	3077 Feb 22 04:54	3° Mp 37'42	0°17'51	max. Earth dist.	3083 Sep 09 12:56	17° <b>m</b> 56'01	31.16493 AU
min. Earth dist.	3077 Feb 22 13:17	3° Mp 37'07	29.08699 AU	morning rise	3083 Sep 26 07:06	18° <b>m</b> 32'58	
direct	3077 May 12 15:17	2° Mp 12'35		retrograde	3083 Dec 22 20:31	20° <b>m</b> 25'51	
evening set	3077 Aug 10 16:37	4° <b>™</b> 07'59		opposition	3084 Mar 09 03:57	19° <b>m</b> 03'15	0°44'12
				min. Earth dist.	3084 Mar 09 17:12		29.17004 AU
conjunction	3077 Aug 26 23:33	4° Mp 43'51	0°18'35	direct	3084 May 27 22:38	17° <b>m</b> 38'15	
minimum elong	3077 Aug 26 23:33	4° m/43'51		evening set	3084 Aug 26 12:39	19° <b>m</b> 34'01	
max. Earth dist.	3077 Aug 26 13:04	=	31.09235 AU	_			
morning rise	3077 Sep 12 04:29	5° m 19'34		conjunction	3084 Sep 11 17:20	20° m 09'41	0°43'04
retrograde	3077 Dec 09 04:57	7° <b>m</b> ) 12'58		minimum elong	3084 Sep 11 17:20	20° Mp 09'41	0°43'03

max. Earth dist.	2004 C 11 01.40	200 m 0011 5 2	01 17420 ATT	i. Dardh diad	2001 Mar 25 10:44	49 0 22157	20 22242 ATT
	3084 Sep 11 01:48	20° Mp 08'15 3	51.17430 AU	min. Earth dist.	3091 Mar 25 19:44		29.23242 AU
morning rise	3084 Sep 27 19:12	20° Mp 45'08		direct	3091 Jun 13 10:07	2° <b>£</b> 58'59	
retrograde	3084 Dec 24 06:03	22° m/37'56	0045144	evening set	3091 Sep 12 04:21	4° <b>£</b> 54'47	21 22550 111
opposition	3085 Mar 11 14:19	•	0°47'44	max. Earth dist.	3091 Sep 27 11:45	5° <del>11</del> 28'29	31.23758 AU
min. Earth dist.	3085 Mar 12 05:11	21° Mp 14'20 2	29.17896 AU				
direct	3085 May 30 10:46	19° <b>m</b> 50'21		conjunction	3091 Sep 28 05:57	5° <b>≏</b> 30'10	
evening set	3085 Aug 29 01:27	21°Mp46'07		minimum elong	3091 Sep 28 05:57	5° <b>≏</b> 30'10	1°04'22
				morning rise	3091 Oct 14 04:13	6° <b>ഫ</b> 05'18	
conjunction	3085 Sep 14 05:38	22° Mp 21'44	0°46'20	retrograde	3092 Jan 09 04:30	7° <b>≏</b> 57'29	
minimum elong	3085 Sep 14 05:37	22° Mp 21'44	0°46'20	opposition	3092 Mar 26 13:36	6° <b>≙</b> 35'11	1°10'11
max. Earth dist.	3085 Sep 13 12:43	22° Mp 20'11 3	31.18285 AU	min. Earth dist.	3092 Mar 27 06:46	6° <b>₽</b> 33'59	29.24392 AU
morning rise	3085 Sep 30 07:10	22° <b>m</b> 57'09		direct	3092 Jun 14 21:41	5° <b>≏</b> 10'08	
retrograde	3085 Dec 26 17:47	24° <b>m</b> 49'50		evening set	3092 Sep 13 16:42	7° <b>≙</b> 05'57	
opposition	3086 Mar 14 00:27	23°Mp27'18	0°51'12				
min. Earth dist.	3086 Mar 14 14:56	23° m) 26'18 2	29.18718 AU	conjunction	3092 Sep 29 17:38	7° <b>≏</b> 41'18	1°07'04
direct	3086 Jun 01 23:39	22° m 02'15		minimum elong	3092 Sep 29 17:38	7° <b>≏</b> 41'18	1°07'04
evening set	3086 Aug 31 14:12	23° m 58'01		max. Earth dist.	3092 Sep 28 22:03		31.24928 AU
e renning see	500011 <b>u</b> g 51 12	23		morning rise	3092 Oct 15 15:32	8° <b>≏</b> 16'24	31.2.920110
conjunction	3086 Sep 16 18:02	24° mp 33'37	0°49'32	retrograde	3093 Jan 10 15:30	10° <b>⊆</b> 08'32	
•	3086 Sep 16 18:02	•	0°49'32	opposition	3093 Jan 10 13:30 3093 Mar 28 23:56	8° <b>Ω</b> 46'19	1012101
minimum elong	1	•		**			
max. Earth dist.	3086 Sep 16 00:48	24° m/32'01 3	31.190/5 AU	min. Earth dist.	3093 Mar 29 16:46		29.25567 AU
morning rise	3086 Oct 02 19:00	25° m 08'58		direct	3093 Jun 17 08:41	7° <b>Ω</b> 21'18	
retrograde	3086 Dec 29 04:21	27° <b>m</b> 01'33		evening set	3093 Sep 16 04:43	9° <b>≏</b> 17'10	
opposition	3087 Mar 16 10:35	25° mp 39'02	0°54'35	max. Earth dist.	3093 Oct 01 10:17	9° <b>ჲ</b> 50'43	31.26071 AU
min. Earth dist.	3087 Mar 17 02:37	25° m 37'55 2	29.19507 AU				
direct	3087 Jun 04 11:51	24° Mp 13'57		conjunction	3093 Oct 02 05:17	9° <b>ჲ</b> 52'29	1°09'40
evening set	3087 Sep 03 02:53	26° Mp 09'43		minimum elong	3093 Oct 02 05:17	9° <b>م</b> 52'29	1°09'40
				morning rise	3093 Oct 18 02:29	10° <b>≏</b> 27'32	
conjunction	3087 Sep 19 06:17	26° mp 45'16	0°52'40	retrograde	3094 Jan 13 00:50	12° <b>₽</b> 19'39	
minimum elong	3087 Sep 19 06:17	26° m 45'16	0°52'40	opposition	3094 Mar 31 10:26	10° <b>≏</b> 57'30	1°15'45
max. Earth dist.	3087 Sep 18 12:34	26° m 43'37 3	31.19866 AU	min. Earth dist.	3094 Apr 01 04:44	10° <b>≏</b> 56'13	29.26679 AU
morning rise	3087 Oct 05 06:47	27° m) 20'34		direct	3094 Jun 19 19:32	9° <b>₽</b> 32'32	
retrograde	3087 Dec 31 15:30	29° m 13'02		evening set	3094 Sep 18 17:00	11° <b>≏</b> 28'25	
opposition	3088 Mar 17 20:43	-	0°57'53	evening sec	3031 Вер 10 17.00	11 —2025	
min. Earth dist.	3088 Mar 18 12:21	27° mp 49'27 2		conjunction	3094 Oct 04 16:57	12° <b>≏</b> 03'41	1°12'10
		•	29.20300 AU				1°12'09
direct	3088 Jun 06 01:33	26° Mp 25'25		minimum elong	3094 Oct 04 16:56	12° <b>Ω</b> 03'41	
evening set	3088 Sep 04 15:24	28° Mp 21'11		max. Earth dist.	3094 Oct 03 20:43		31.27135 AU
				morning rise	3094 Oct 20 13:43	12° <b>△</b> 38'42	
conjunction	3088 Sep 20 18:16	28° Mp 56'41 (		retrograde	3095 Jan 15 12:24	14° <b>≏</b> 30'47	
minimum elong	3088 Sep 20 18:16	•	0°55'43	opposition	3095 Apr 02 20:44	13° <b>≏</b> 08'42	1°18'21
max. Earth dist.	3088 Sep 19 23:51	28° <b>m</b> 54'59 3	31.20684 AU	min. Earth dist.	3095 Apr 03 14:37	13° <b>≏</b> 07'27	29.27684 AU
morning rise	3088 Oct 06 18:14	29° <b>m</b> 31'57		direct	3095 Jun 22 08:02	11° <b>≏</b> 43'45	
	3088 Oct 20 02:57	0∘ <b>ত</b>		evening set	3095 Sep 21 05:14	13° <b>≏</b> 39'41	
retrograde	3089 Jan 02 00:32	1° <b>£</b> 24′20		max. Earth dist.	3095 Oct 06 08:07	14° <b>≙</b> 13′00	31.28062 AU
opposition	3089 Mar 20 06:58	0° <b>ഫ</b> 01'51	1°01'06				
min. Earth dist.	3089 Mar 20 23:26	0° <b>≏</b> 00'42 2	29.21180 AU	conjunction	3095 Oct 07 04:42	14° <b>≏</b> 14'54	1°14'34
	3089 Mar 21 09:28	30°R M⊅		minimum elong	3095 Oct 07 04:42	14° <b>≏</b> 14'54	1°14'34
direct	3089 Jun 08 12:10	28° m/36'43		morning rise	3095 Oct 23 00:49	14° <b>≏</b> 49'52	
	3089 Aug 22 13:30	0∘ <del>⊽</del>		retrograde	3096 Jan 17 23:09	16° <b>≏</b> 41'56	
evening set	3089 Sep 07 03:44	0° <b>£</b> 32′29		opposition	3096 Apr 04 07:24	15° <b>≏</b> 19'53	1°20'51
e renning see	5005 Sep 07 05	0 —322		min. Earth dist.	3096 Apr 05 02:47		29.28553 AU
conjunction	3089 Sep 23 06:15	1° <b>≏</b> 07'56 (	0058141	direct	3096 Jun 23 20:04	13° <b>⊆</b> 54'58	27.20333710
minimum elong	3089 Sep 23 06:15	1° <b>⊆</b> 07'56 (		evening set	3096 Sep 22 17:16	15° <b>⊆</b> 50'54	
•				evening set	3090 Sep 22 17.10	13 == 30 34	
max. Earth dist.	3089 Sep 22 12:26	1° <b>2</b> 06'18 3	31.21604 AU		20060 - 00 1611	1.00.00.00.0	1016151
morning rise	3089 Oct 09 05:37	1° <b>≙</b> 43'09		conjunction	3096 Oct 08 16:11	16° <b>Ω</b> 26'05	
retrograde	3090 Jan 04 09:29	3° <b>£</b> 35′26		minimum elong	3096 Oct 08 16:11	16° <b>≏</b> 26′05	
opposition	3090 Mar 22 17:08		1°04'13	max. Earth dist.	3096 Oct 07 19:06		31.28857 AU
min. Earth dist.	3090 Mar 23 09:29	2° <b>≙</b> 11'52 2	29.22152 AU	morning rise	3096 Oct 24 11:46	17° <b>≏</b> 01'00	
direct	3090 Jun 11 00:32	0° <b>≏</b> 47'53		retrograde	3097 Jan 19 10:05	18° <b>≏</b> 53'01	
evening set	3090 Sep 09 16:06	2° <b>£</b> 43'39		opposition	3097 Apr 06 17:58	17° <b>≏</b> 31'00	1°23'14
				min. Earth dist.	3097 Apr 07 13:05	17° <b>≏</b> 29'41	29.29271 AU
conjunction	3090 Sep 25 18:02	3° <b>£</b> 19′05	1°01'34	direct	3097 Jun 26 09:53	16° <b>≏</b> 06'06	
minimum elong	3090 Sep 25 18:02		1°01'34	evening set	3097 Sep 25 05:19	18° <b>≏</b> 02'02	
max. Earth dist.	3090 Sep 24 23:01	3° <b>₽</b> 17'19 3		max. Earth dist.	3097 Oct 10 05:37		31.29504 AU
morning rise	3090 Oct 11 17:01	3° <b>₽</b> 54'15		dist.	333. 340 10 00.51		
retrograde	3091 Jan 06 20:13	5° <b>-</b> 246′28		conjunction	3097 Oct 11 03:39	18° <b>≏</b> 37'11	1°19'01
opposition	3091 Jan 06 20:13 3091 Mar 25 03:20		1°07'15	minimum elong	3097 Oct 11 03:39 3097 Oct 11 03:39	18° <b>£</b> 3711	
оррознион	3071 IVIAI 23 U3.20	T == 24 00	1 0/13	minimum ciong	3077 001 11 03.39	10 == 3 / 11	1 1/02

morning rise	3097 Oct	26	22:42	19° <b>≏</b> 12'04	
retrograde	3098 Jan	21	19:45	21° <b>≏</b> 04'02	
opposition	3098 Apr	09	04:30	19° <b>≏</b> 42'02	1°25'30
min. Earth dist.	3098 Apr	10	00:40	19° <b>≏</b> 40'38	29.29872 AU
direct	3098 Jun	28	20:41	18° <b>≏</b> 17′08	
evening set	3098 Sep	27	17:07	20° <b>₽</b> 13′02	
conjunction	3098 Oct	13	15:04	20° <b>≏</b> 48′09	1°21'05
minimum elong	3098 Oct	13	15:04	20° <b>≏</b> 48′09	1°21'05
max. Earth dist.	3098 Oct	12	17:25	20° <b>≏</b> 46′09	31.30045 AU
morning rise	3098 Oct	29	09:31	21° <b>≏</b> 22'59	
retrograde	3099 Jan	24	04:39	23° <b>≏</b> 14'54	
opposition	3099 Apr	11	15:05	21° <b>≏</b> 52'55	1°27'38
min. Earth dist.	3099 Apr	12	11:27	21° <b>≏</b> 51'31	29.30357 AU
direct	3099 Jul	01	09:51	20° <b>≏</b> 28′01	
evening set	3099 Sep	30	04:57	22° <b>≏</b> 23'54	
max. Earth dist.	3099 Oct	15	03:17	22° <b>≏</b> 56'51	31.30495 AU
conjunction	3099 Oct	16	02:13	22° <b>≏</b> 58'59	1°23'01
minimum elong	3099 Oct	16	02:12	22° <b>≏</b> 58'59	1°23'02
morning rise	3099 Oct	31	20:13	23° <b>≙</b> 33'47	
retrograde	3100 Jan	26	15:07	25° <b>≏</b> 25'39	
opposition	3100 Apr	14	01:37	24° <b>₽</b> 03'40	1°29'39
min. Earth dist.	3100 Apr			24° <b>≏</b> 02'15	29.30797 AU
direct	•		20:08	22° <b>≏</b> 38'44	
evening set	3100 Oct	02	16:27	24° <b>₽</b> 34'37	
S					
conjunction	3100 Oct	18	13:21	25° <b>≏</b> 09'39	1°24'50
minimum elong	3100 Oct	18	13:20	25° <b>≏</b> 09'39	1°24'50
max. Earth dist.	3100 Oct	17	15:25	25° <b>₽</b> 07'36	31.30922 AU
morning rise	3100 Nov	03	06:39	25° <b>≏</b> 44'24	
retrograde	3101 Jan	28	22:47	27° <b>£</b> 36'14	
opposition	3101 Apr	16	12:19	26° <b>£</b> 14'15	1°31'32
min. Earth dist.	3101 Apr			26° <b>₽</b> 12'49	29.31235 AU
direct	1		08:11	24° <b>£</b> 49'19	
evening set	3101 Oct	05	03:50	26° <b>£</b> 45'10	
max. Earth dist.	3101 Oct	20	01:11	27° <b>≏</b> 18'02	31.31385 AU
		-			
conjunction	3101 Oct	21	00:02	27° <b>≏</b> 20'10	1°26'32
minimum elong	3101 Oct		00:02	27° <b>⊆</b> 20'10	1°26'33
morning rise	3101 Nov			27° <b>⊆</b> 54'53	- =000
morning 1150	5101 110V	33	17.00	2, -5-33	