retrograde	11100 Jan 07 13:45	11° <b>≏</b> 03'22		min. Earth dist.	11106 Apr 20 10:14	4°M29'23	18.23232 AU
opposition	11100 Mar 25 09:22	9° <b>ഫ</b> 02'58	0°51'38	direct	11106 Jul 04 04:57	2° <b>™</b> 29'04	
min. Earth dist.	11100 Mar 25 06:12	9° <b>ഫ</b> 03'18	18.62091 AU	evening set	11106 Oct 03 16:52	5° <b>M</b> 39′23	
direct	11100 Jun 08 11:18	7° <b>₽</b> 04'26					
evening set	11100 Sep 07 05:20	10° <b>≏</b> 09'16		conjunction	11106 Oct 20 02:11	6° <b>M</b> 37′26	0°58'36
				minimum elong	11106 Oct 20 02:11	6°MJ37′26	0°58'57
conjunction	11100 Sep 23 10:24	11° <b>≏</b> 05'37	0°47'57	max. Earth dist.	11106 Oct 19 22:40	6°M36'55	20.19879 AU
minimum elong	11100 Sep 23 10:24	11° <b>≏</b> 05'37	0°48'00	morning rise	11106 Nov 05 13:42	7°M35'50	
max. Earth dist.	11100 Sep 23 12:23		20.59111 AU	retrograde	11107 Feb 07 21:57	10°M52'05	
morning rise	11100 Oct 09 18:13	12° <b>ഫ</b> 02'22		opposition	11107 Apr 24 22:29	8°M50'01	1°05'31
retrograde	11101 Jan 12 03:28	15° <b>Ω</b> 14'14		min. Earth dist.	11107 Apr 25 01:28		18.16564 AU
opposition	11101 Mar 29 20:11	13° <b>⊆</b> 13'34	0°54'32	direct	11107 Jul 08 17:35	6°M49'13	10.10304710
min. Earth dist.	11101 Mar 29 18:11		18.56060 AU	evening set	11107 Oct 08 09:47	10°M 00'37	
			18.30000 AU	evening set	1110/ Oct 08 09.4/	10 1160037	
direct	11101 Jun 12 20:32	11° <b>Ω</b> 14'43			11107.0 . 24 10.56	100 <b>m</b> 50150	0050110
evening set	11101 Sep 11 17:05	14° <b>≏</b> 20′20		conjunction	11107 Oct 24 19:56	10°M58'59	0°59'18
				minimum elong	11107 Oct 24 19:55	10°M58'59	0°59'40
conjunction	11101 Sep 27 23:02	15° <b>≏</b> 16'57	0°50'25	max. Earth dist.	11107 Oct 24 16:43		20.13234 AU
minimum elong	11101 Sep 27 23:02	15° <b>≏</b> 16'57	0°50'32	morning rise	11107 Nov 10 07:47	11°M57'39	
max. Earth dist.	11101 Sep 28 01:05	15° <b>≏</b> 17'15	20.52931 AU		11108 Jan 19 21:11	15° <b>™</b>	
morning rise	11101 Oct 14 07:22	16° <b>≏</b> 13'58		retrograde	11108 Feb 12 16:05	15° <b>M</b> .14'40	
retrograde	11102 Jan 16 16:47	19° <b>≏</b> 26'30			11108 Mar 07 16:36	15°RM₊	
opposition	11102 Apr 03 07:21	17° <b>≏</b> 25'35	0°57'09	opposition	11108 Apr 28 12:48	13°ML12'28	1°06'08
min. Earth dist.	11102 Apr 03 06:01	17° <b>≏</b> 25'43	18.49750 AU	min. Earth dist.	11108 Apr 28 15:46	13°ML12'09	18.09949 AU
direct	11102 Jun 17 06:46	15° <b>≏</b> 26'26		direct	11108 Jul 12 08:00	11°M11'23	
evening set	11102 Sep 16 05:54	18° <b>≏</b> 32'53		evening set	11108 Oct 12 03:53	14°M23'54	
Č	1			Z .	11108 Oct 22 07:51	15° <b>M</b>	
conjunction	11102 Oct 02 12:25	19° <b>≏</b> 29'46	0°52'38		11100 000 22 07.01	10 110	
minimum elong	11102 Oct 02 12:24	19° <b>≏</b> 29'46	0°52'47	conjunction	11108 Oct 28 14:30	15°M22'34	0°59'39
max. Earth dist.	11102 Oct 02 12:24 11102 Oct 02 12:20		20.46521 AU	minimum elong	11108 Oct 28 14:30	15°M22'34	1°00'04
		20° <b>£</b> 27'02	20.40321 AU	ē			20.06665 AU
morning rise	11102 Oct 18 21:35			max. Earth dist.	11108 Oct 28 09:23		20.00003 AU
retrograde	11103 Jan 21 07:32	23° <b>Ω</b> 40'17	0050100	morning rise	11108 Nov 14 03:00	16°M21'31	
opposition	11103 Apr 07 18:51	21° <b>Ω</b> 39'05	0°59'29	retrograde	11109 Feb 16 10:07	19°M39'20	100 (101
min. Earth dist.	11103 Apr 07 18:47		18.43257 AU	opposition	11109 May 03 04:00	17° <b>™</b> 37'00	1°06'21
direct	11103 Jun 21 17:11	19° <b>≏</b> 39'35		min. Earth dist.	11109 May 03 08:32		18.03427 AU
evening set	11103 Sep 20 19:20	22° <b>≏</b> 46'57		direct	11109 Jul 16 21:34	15°M35'37	
				evening set	11109 Oct 16 22:45	18° <b>™</b> 49'17	
conjunction	11103 Oct 07 02:43	23° <b>≏</b> 44'07	0°54'35				
minimum elong	11103 Oct 07 02:43	23° <b>≙</b> 44'07	0°54'47	conjunction	11109 Nov 02 10:11	19° <b>M</b> 48'15	0°59'39
max. Earth dist.	11103 Oct 07 02:51	23° <b>≏</b> 44'08	20.39948 AU	minimum elong	11109 Nov 02 10:11	19° <b>M</b> 48'15	1°00'07
morning rise	11103 Oct 23 12:19	24° <b>₽</b> 41'39		max. Earth dist.	11109 Nov 02 05:10	19° <b>M</b> 47'30	20.00180 AU
retrograde	11104 Jan 25 21:52	27° <b>≏</b> 55'38		morning rise	11109 Nov 18 23:02	20°M47'30	
opposition	11104 Apr 11 06:54	25° <b>♀</b> 54'11	1°01'30	retrograde	11110 Feb 21 06:39	24°ML06'04	
min. Earth dist.	11104 Apr 11 07:10	25° <b>♀</b> 54'10	18.36626 AU	opposition	11110 May 07 19:43	22°M03'37	1°06'12
direct	11104 Jun 25 04:31	23° <b>≏</b> 54'22		min. Earth dist.	11110 May 08 00:20	22°M03'08	17.96969 AU
evening set	11104 Sep 24 09:36	27° <b>ჲ</b> 02'39		direct	11110 Jul 21 13:32	20°M01'58	
Č	1			evening set	11110 Oct 21 19:00	23°M16'47	
conjunction	11104 Oct 10 17:30	28° <b>ჲ</b> 00'06	0°56'14		. 221 17.00		
minimum elong	11104 Oct 10 17:30	28° <b>♀</b> 00'06	0°56'29	conjunction	11110 Nov 07 06:51	24°M16'03	0°59'19
max. Earth dist.	11104 Oct 10 17:30		20.33279 AU	minimum elong	11110 Nov 07 06:51	24°M16'03	0°59'48
morning rise	11104 Oct 27 03:52	28° <b>♀</b> 57'56	20.33277110	max. Earth dist.	11110 Nov 06 23:46		19.93745 AU
morning rise		0°M				25°M15'35	19.93743 AU
. 1	11104 Nov 14 21:10			morning rise	11110 Nov 23 20:12		
retrograde	11105 Jan 29 13:23	2°M12'39	1002112	retrograde	11111 Feb 26 02:20	28°M34'53	1005120
opposition	11105 Apr 15 19:35	0°M10'58	1°03'12	opposition	11111 May 12 12:14	26°M32'19	1°05'38
min. Earth dist.	11105 Apr 15 21:03		18.29939 AU	min. Earth dist.	11111 May 12 18:47		17.90566 AU
	11105 Apr 20 04:16	30° <b>Ŗ</b> Ω		direct	11111 Jul 26 04:52	24°M30'21	
direct	11105 Jun 29 16:13	28° <b>≙</b> 10'48		evening set	11111 Oct 26 16:03	27° <b>M</b> 46'19	
	11105 Sep 04 10:17	0° <b>M</b>					
evening set	11105 Sep 29 00:41	1°M20'06		conjunction	11111 Nov 12 04:35	28°M45'53	0°58'36
				minimum elong	11111 Nov 12 04:35	28°M45'53	0°59'08
conjunction	11105 Oct 15 09:28	2°M17'51	0°57'34	max. Earth dist.	11111 Nov 11 21:07	28°M44'46	19.87367 AU
minimum elong	11105 Oct 15 09:28	2°M17'51	0°57'51	morning rise	11111 Nov 28 18:12	29°M45'41	
max. Earth dist.	11105 Oct 15 07:57	2°M17'38	20.26573 AU		11111 Dec 02 19:44	0° <b>∡</b> ¹	
morning rise	11105 Oct 31 20:15	3°M15'57		retrograde	11112 Mar 02 00:13	3° <b>х</b> 05′40	
retrograde	11106 Feb 03 05:24	6°M31'26		opposition	11112 May 16 05:25	1° <b>∡</b> 02'59	1°04'40
opposition	11106 Apr 20 08:38	4° <b>™</b> 29'33	1°04'32	min. Earth dist.	11112 May 16 11:56		17.84211 AU
rr · ·	r- =		<del>-</del>			/	

direct	11112 Jun 10 21:47 11112 Jul 29 22:22 11112 Sep 15 16:42	30°RM 29°M00'41 0°×7'		conjunction minimum elong max. Earth dist.	11118 Dec 15 08:54 11118 Dec 15 08:55 11118 Dec 14 20:04	1°る01'00 1°る01'00 0°る59'00	0°43'33 0°44'12 19.47712 AU
evening set	11112 Sep 13 10:42 11112 Oct 30 13:58	2° <b>×</b> 17'45		morning rise retrograde	11118 Dec 14 20:04 11118 Dec 31 23:32 11119 Apr 04 12:36	2°පි02'18 5°පි25'45	17.47/12 AO
conjunction	11112 Nov 16 02:55	3° <b>∡</b> 17'37	0°57'32	opposition	11119 Jun 17 22:44	3° <b>⋜</b> 22'04	0°46'42
minimum elong	11112 Nov 16 02:55	3° <b>∡</b> 17'37	0°58'04	min. Earth dist.	11119 Jun 18 10:08	3° <b>る</b> 20'49	17.45592 AU
max. Earth dist.	11112 Nov 15 17:38	3° <b>∡</b> 16′12	19.81041 AU	direct	11119 Aug 31 21:35	1° <b>る</b> 17'19	
morning rise	11112 Dec 02 16:55	4° <b>∡</b> 17'40		evening set	11119 Dec 03 20:39	4° <b>る</b> 41'21	
retrograde	11113 Mar 06 21:11	7° <b>∡</b> ³38'19					
opposition	11113 May 20 23:26	5° <b>∡</b> ³35'27	1°03'18	conjunction	11119 Dec 20 11:45	5° <b>る</b> 42'52	0°40'04
min. Earth dist.	11113 May 21 07:51	5° <b>∡</b> ³34'33	17.77936 AU	minimum elong	11119 Dec 20 11:45	5° <b>る</b> 42'52	0°40'43
direct	11113 Aug 03 15:42	3° <b>∡</b> ³32'48		max. Earth dist.	11119 Dec 19 22:00	5° <b>る</b> 40'44	19.43576 AU
evening set	11113 Nov 04 12:48	6° <b>∡</b> ¹50'58		morning rise	11120 Jan 06 02:24	6° <b>る</b> 44'19	
				retrograde	11120 Apr 08 13:01	10° <b>る</b> 08'05	
conjunction	11113 Nov 21 02:20	7° <b>∡</b> 751'07	0°56'05	opposition	11120 Jun 21 20:30	8° <b>る</b> 04'21	0°42'40
minimum elong	11113 Nov 21 02:20	7° <b>∡</b> ¹51'07	0°56'40	min. Earth dist.	11120 Jun 22 07:17		17.41736 AU
max. Earth dist.	11113 Nov 20 16:28	7° <b>∡</b> ¹49'36	19.74830 AU	direct	11120 Sep 04 21:50	5° <b>る</b> 59'21	
morning rise	11113 Dec 07 16:35	8° <b>∡</b> ¹51'25		evening set	11120 Dec 07 23:47	9° <b>る</b> 24'14	
retrograde	11114 Mar 11 19:42	12° <b>∡</b> 12'38				<del></del>	
opposition	11114 May 25 17:46	10° <b>∡</b> ¹09'37		conjunction	11120 Dec 24 15:05	10° <b>♂</b> 25'54	0°36'17
min. Earth dist.	11114 May 26 02:04		17.71793 AU	minimum elong	11120 Dec 24 15:05	10° <b>る</b> 25'54	0°36'56
direct	11114 Aug 08 11:18	8° <b>∡</b> 06'35		max. Earth dist.	11120 Dec 24 02:15		19.40000 AU
evening set	11114 Nov 09 12:32	11° <b>∡</b> ¹25'49		morning rise	11121 Jan 10 05:25	11°る27'28	
		100 70/114	005415	retrograde	11121 Apr 13 12:57	14°る51'30	0020110
conjunction	11114 Nov 26 02:27	12° 🗷 26'14	0°54'17	opposition	11121 Jun 26 18:53	12° <b>ろ</b> 47'48	0°38'19
minimum elong	11114 Nov 26 02:27	12° 🗷 26'14	0°54'53	min. Earth dist.	11121 Jun 27 06:08		17.38444 AU
max. Earth dist.	11114 Nov 25 15:16	12° <b>x</b> 24'32	19.68774 AU	direct	11121 Sep 09 21:05	10°る42'37 14°る08'17	
morning rise	11114 Dec 12 16:55	13° <b>x</b> 26'47		evening set	11121 Dec 13 03:42	14 008 17	
retrograde opposition	11115 Mar 16 17:02 11115 May 30 12:57	16° <b>х</b> 48'32 14° <b>х</b> 45'21	0°59'20	conjunction	11121 Dec 29 18:49	15° <b>る</b> 10'05	0°32'16
min. Earth dist.	11115 May 30 12.57 11115 May 30 22:58		17.65852 AU	minimum elong	11121 Dec 29 18:49	15° <b>る</b> 10'05	0°32'55
direct	11115 May 30 22:38 11115 Aug 13 06:20	12° <b>х</b> 41'57	17.03632 AU	max. Earth dist.	11121 Dec 29 18:49 11121 Dec 29 04:53		19.37010 AU
evening set	11115 Aug 13 00:20 11115 Nov 14 12:47	16° × 02'12		morning rise	11121 Dec 29 04:33	15 <b>3</b> 07 33	19.57010 AU
evening set	11113 NOV 14 12.47	10 × 02 12		retrograde	11122 Jan 13 03:04 11122 Apr 18 14:05	10 <b>3</b> 1143	
conjunction	11115 Dec 01 03:05	17° <b>∡</b> '02'53	0°52'07	opposition	11122 Apr 18 14:03 11122 Jul 01 17:32	17°る32'22	0°33'42
minimum elong	11115 Dec 01 03:05	17° ×7'02'53	0°52'44	min. Earth dist.	11122 Jul 02 04:33		17.35743 AU
max. Earth dist.	11115 Nov 30 15:18	17° <b>×</b> 7'01'04		direct	11122 Sep 14 22:01	15° <b>る</b> 27'03	17.507.5110
morning rise	11115 Dec 17 17:44	18° <b>₹</b> '03'38	19.02909110	evening set	11122 Dec 18 07:54	18° <b>る</b> 53'27	
retrograde	11116 Mar 20 16:05	21° <b>∡</b> ¹25'54		<i>3</i>			
opposition	11116 Jun 03 08:33	19° <b>∡</b> ¹22'32	0°56'44	conjunction	11123 Jan 03 23:03	19° <b>る</b> 55'21	0°28'00
min. Earth dist.	11116 Jun 03 18:10	19° <b>∡</b> ′21'30	17.60192 AU	minimum elong	11123 Jan 03 23:03	19° <b>る</b> 55'21	0°28'37
direct	11116 Aug 17 03:56	17° <b>∡</b> 18'46		max. Earth dist.	11123 Jan 03 10:17	19° <b>る</b> 53'22	19.34586 AU
evening set	11116 Nov 18 13:50	20° <b>∡</b> ¹40'01		morning rise	11123 Jan 20 12:47	20° <b>る</b> 57'06	
				retrograde	11123 Apr 23 15:28	24° <b>る</b> 21'31	
conjunction	11116 Dec 05 04:28	21° <b>∡</b> ¹40'56	0°49'36	opposition	11123 Jul 06 16:50	22° <b>る</b> 17'59	0°28'51
minimum elong	11116 Dec 05 04:28	21° <b>∡</b> ¹40'56	0°50'14	min. Earth dist.	11123 Jul 07 04:03	22° <b>る</b> 16'45	17.33586 AU
max. Earth dist.	11116 Dec 04 16:12	21° <b>₹</b> ³39'03	19.57471 AU	direct	11123 Sep 19 22:36	20° <b>る</b> 12'35	
morning rise	11116 Dec 21 19:09	22° <b>∡</b> ¹41'54		evening set	11123 Dec 23 12:27	23° <b>る</b> 39'37	
retrograde	11117 Mar 25 14:04	26° <b>х</b> 04′36					
opposition	11117 Jun 08 04:47	24° <b>∡</b> ¹01'06	0°53'46	conjunction	11124 Jan 09 03:12	24° <b>る</b> 41'35	0°23'33
min. Earth dist.	11117 Jun 08 15:45		17.54885 AU	minimum elong	11124 Jan 09 03:13	24° <b>ろ</b> 41'35	0°24'10
direct	11117 Aug 22 00:34	21° <b>∡</b> ¹56'58		max. Earth dist.	11124 Jan 08 13:18		19.32700 AU
evening set	11117 Nov 23 15:31	25° <b>∡</b> 19'12		morning rise	11124 Jan 25 16:41	25° <b>ප්</b> 43'23	
				retrograde	11124 Apr 27 17:04	29° <b>る</b> 07'55	
conjunction	11117 Dec 10 06:23	26° ₹ 20′20	0°46'44	opposition	11124 Jul 10 16:33	27° <b>る</b> 04'29	0°23'46
minimum elong	11117 Dec 10 06:23	26° ₹ 20′20	0°47'23	min. Earth dist.	11124 Jul 11 03:53		17.31960 AU
max. Earth dist.	11117 Dec 09 17:18		19.52374 AU	direct	11124 Sep 23 23:35	24°る58'59	
morning rise	11117 Dec 26 21:13	27° <b>メ</b> 21'29 0° <b>る</b>		evening set	11124 Dec 27 17:14	28° <b>පි</b> 26'34	
retrogrado	11118 Feb 17 14:39	0°る 0°る44'35		conjunction	11125 Ion 12 07-52	29° <b>る</b> 28'36	0°18'55
retrograde	11118 Mar 30 13:43 11118 May 11 06:07	0° <b>℃</b> 44°35		conjunction minimum elong	11125 Jan 13 07:53 11125 Jan 13 07:53	29° <b>る</b> 28'36 29° <b>る</b> 28'36	
opposition	11118 May 11 06:07 11118 Jun 13 01:27	30° <b>₹</b> ×¹ 28° <b>₹</b> ¹40'58	0°50'25	max. Earth dist.	11125 Jan 13 07:53 11125 Jan 12 19:01		19.31315 AU
min. Earth dist.	11118 Jun 13 01:27 11118 Jun 13 11:56	28° <b>₹</b> '40'58 28° <b>₹</b> '39'49		max. Darui uist.	11125 Jan 12 19:01 11125 Jan 21 16:13	29° <b>⊙</b> 26′33	17.31313 AU
direct	11118 Juli 13 11.36 11118 Aug 26 23:37	26° <b>₹</b> 36'30	17.30001 AU	morning rise	11125 Jan 29 20:44	0 ≈ 0°≈30'24	
evening set	11118 Aug 20 23:37 11118 Nov 28 17:48	29° <b>х</b> 59'40		retrograde	11125 May 02 19:28	3°≈54'57	
Tronning Set	11118 Nov 28 17:48	29 <b>ス</b> 3940		opposition	11125 Jul 15 16:30	1°≈51'37	0°18'31
	11101101 20 20.03	, <u> </u>		opposition.	11120 041 10 10.50	1.4.0101	3 1001

min. Earth dist.	11125 Jul 16 03:43	1° <b>≈</b> 50'24	17.30808 AU	direct	11130 Oct 23 15:10	23° <b>≈</b> 42'29	
	11125 Sep 06 03:38	30°₹ <b>⋜</b>		evening set	11131 Jan 26 21:16	27° <b>≈</b> 11'00	
direct	11125 Sep 29 01:32	29° <b>る</b> 46'03					
	11125 Oct 21 18:15	0° <b>≈</b>		conjunction	11131 Feb 12 08:35	28°≈12'38	
evening set	11126 Jan 01 22:22	3° <b>≈</b> 14'04		minimum elong	11131 Feb 12 08:34	28°≈12'38	0°10'13
agnismation	11126 Jan 18 12:31	4°≈16'07	0°14'09	behind sun begin behind sun end	11131 Feb 12 03:15 11131 Feb 12 13:54	28°≈11'49 28°≈13'27	
conjunction minimum elong	11126 Jan 18 12:31	4 ≈1607 4°≈16'07	0°14'43	max. Earth dist.	11131 Feb 12 13.34 11131 Feb 11 20:37		19.33075 AU
behind sun begin	11126 Jan 18 09:55	4°≈15'43	0 1443	morning rise	11131 Feb 11 20:37 11131 Feb 28 17:24	28 ≈1040 29°≈13'55	19.55075 AO
behind sun end	11126 Jan 18 15:07	4°≈16'31		morning rise	11131 Mar 13 13:55	0° <b>∀</b>	
max. Earth dist.	11126 Jan 17 22:31	4°≈13'55	19.30399 AU	retrograde	11131 May 31 22:16	2° <b>)</b> €37'00	
morning rise	11126 Feb 04 00:57	5°≈17'55		opposition	11131 Aug 13 19:58	0° <b>)</b> 34′09	-0°14'24
retrograde	11126 May 07 20:22	8° <b>≈</b> 42'24		min. Earth dist.	11131 Aug 14 05:19	0° <b>)</b> 33′08	17.34064 AU
opposition	11126 Jul 20 16:55	6° <b>≈</b> 39'10	0°13'08		11131 Aug 27 01:57	30° <b>R</b> ≈	
min. Earth dist.	11126 Jul 21 04:34		17.30132 AU	direct	11131 Oct 28 20:25	28° <b>≈</b> 28'22	
direct	11126 Oct 04 02:30	4°≈33'31			11131 Dec 27 23:21	0° <b>)</b> {	
evening set	11127 Jan 07 03:17	8° <b>≈</b> 01'52		evening set	11132 Feb 01 00:33	1° <b>¥</b> 56'37	
conjunction	11127 Ion 22 17:06	9° <b>≈</b> 03'54	0°09'17	agnismation	11132 Feb 17 11:09	2° <b>)</b> 58'06	0015125
minimum elong	11127 Jan 23 17:06 11127 Jan 23 17:06	9°≈03'54 9°≈03'54	0°09'17 0°09'50	conjunction minimum elong	11132 Feb 17 11:09 11132 Feb 17 11:08	2° <del>H</del> 58'06	
behind sun begin	11127 Jan 23 11:38	9°≈03'03	0 09 30	behind sun begin	11132 Feb 17 11:08 11132 Feb 17 08:52	2° <b>H</b> 57'45	0 13 04
behind sun end	11127 Jan 23 22:34	9° <b>≈</b> 04'44		behind sun end	11132 Feb 17 13:25	2°\f37'13	
max. Earth dist.	11127 Jan 23 04:03		19.29952 AU	max. Earth dist.	11132 Feb 17 00:22	_ /(==-	19.35190 AU
morning rise	11127 Feb 09 04:48	10° <b>≈</b> 05'38		morning rise	11132 Mar 04 19:04	3° <b>¥</b> 59′12	
retrograde	11127 May 12 22:39	13° <b>≈</b> 30′00		retrograde	11132 Jun 04 20:02	7° <b>)</b> €21'49	
opposition	11127 Jul 25 17:25	11° <b>≈</b> 26′51	0°07'39	opposition	11132 Aug 17 20:32	5° <b>₩</b> 19'04	-0°19'44
min. Earth dist.	11127 Jul 26 04:25	11° <b>≈</b> 25'38	17.29910 AU	min. Earth dist.	11132 Aug 18 06:07		17.36476 AU
direct	11127 Oct 09 06:15	9° <b>≈</b> 21′09		direct	11132 Nov 01 22:12	3° <b>¥</b> 13′20	
evening set	11128 Jan 12 08:15	12° <b>≈</b> 49'42		evening set	11133 Feb 05 03:30	6° <b>)</b> (41′16	
conjunction	11128 Jan 28 21:25	13° <b>≈</b> 51'40	0°04'22	conjunction	11133 Feb 21 13:12	7° <b>)</b> 42′33	0°20'07
minimum elong	11128 Jan 28 21:26	13°≈51'41	0°04'52	minimum elong	11133 Feb 21 13:12 11133 Feb 21 13:12	7° <del>X</del> 42'33	
behind sun begin	11128 Jan 28 14:52	13°≈50'40	0 0132	max. Earth dist.	11133 Feb 21 02:54		19.37903 AU
behind sun end	11128 Jan 29 04:00	13° <b>≈</b> 52'41		morning rise	11133 Mar 09 20:22	8° <b>)</b> 43′27	
max. Earth dist.	11128 Jan 28 07:51	13° <b>≈</b> 49'33	19.29973 AU	retrograde	11133 Jun 09 19:58	12° <b>)</b> €05'33	
morning rise	11128 Feb 14 08:32	14° <b>≈</b> 53′21		opposition	11133 Aug 22 20:37	10° <b>米</b> 02′56	-0°24'54
	11128 Feb 16 04:00	15° <b>≈</b>		min. Earth dist.	11133 Aug 23 04:20	10° <b>)</b> €02'06	17.39486 AU
retrograde	11128 May 16 22:00	18° <b>≈</b> 17′30		direct	11133 Nov 07 01:59	7° <b>¥</b> 57'18	
opposition	11128 Jul 29 18:06	16° <b>≈</b> 14′25		evening set	11134 Feb 10 05:49	11° <b>¥</b> 24'50	
min. Earth dist.	11128 Jul 30 05:39		17.30183 AU				
T' ·	11128 Aug 29 03:43	15°R≈		conjunction	11134 Feb 26 14:46	12° <b>)</b> € 25'54	
direct	11128 Oct 13 07:53 11128 Nov 26 15:22	14°≈08'40 15°≈		minimum elong max. Earth dist.	11134 Feb 26 14:46 11134 Feb 26 06:15	12° <b>¥</b> 25'54	0°24°25 19.41208 AU
desc. node	11128 Nov 26 15:22 11128 Dec 13 05:22	15°≈42'37		max. Earth dist.	11134 Feb 26 06:13 11134 Mar 14 20:52	12° <b>★</b> 24'35 13° <b>¥</b> 26'35	19.41208 AU
evening set	11129 Jan 16 12:50	17°≈37'19		retrograde	11134 Jun 14 17:47	16° <b>X</b> 48'09	
		-, -, -, -,		opposition	11134 Aug 27 20:50	14° <b>)</b> (45'43	-0°29'53
conjunction	11129 Feb 02 01:35	18° <b>≈</b> 39'13	-0°00'41	min. Earth dist.	11134 Aug 28 04:30		17.43091 AU
minimum elong	11129 Feb 02 01:33	18° <b>≈</b> 39'13	0°00'12	direct	11134 Nov 12 03:05	12° <b>)</b> 40′15	
behind sun begin	11129 Feb 01 18:54	18° <b>≈</b> 38'12		evening set	11135 Feb 15 07:25	16° <b>∺</b> 07'18	
behind sun end	11129 Feb 02 08:13	18° <b>≈</b> 40′14					
max. Earth dist.	11129 Feb 01 12:46		19.30496 AU	conjunction	11135 Mar 03 15:21	17° <b>∺</b> 08'08	
morning rise	11129 Feb 18 11:56	19° <b>≈</b> 40'47		minimum elong	11135 Mar 03 15:21	17° <b>∺</b> 08'08	0°28'50
retrograde	11129 May 21 23:21	23°≈04'39	000010	max. Earth dist.	11135 Mar 03 07:08		19.45110 AU
opposition	11129 Aug 03 18:44	21°≈01'38		morning rise	11135 Mar 19 20:42	18° <b>¥</b> 08'35	
min. Earth dist. direct	11129 Aug 04 05:11 11129 Oct 18 12:58	21°≈00′30 18°≈55′52	17.30945 AU	retrograde opposition	11135 Jun 19 16:54 11135 Sep 01 20:38	21° <b>)</b> 29'35 19° <b>)</b> 27'22	0024120
evening set	11129 Oct 18 12.38 11130 Jan 21 17:18	18 ≈33 32 22°≈24'29		min. Earth dist.	11135 Sep 01 20:38 11135 Sep 02 02:20		17.47266 AU
0.0mmg 50t	21 1/.10	•		direct	11135 Sep 02 02:20 11135 Nov 17 05:24	17° <b>∺</b> 22'08	1,,200 AU
conjunction	11130 Feb 07 05:20	23° <b>≈</b> 26'17	-0°05'42	evening set	11136 Feb 20 08:19	20° <b>)</b> (48'38	
minimum elong	11130 Feb 07 05:19	23° <b>≈</b> 26'17		Č			
behind sun begin	11130 Feb 06 22:49	23° <b>≈</b> 25′17		conjunction	11136 Mar 07 15:31	21° <b>)</b> 49′14	-0°33'12
behind sun end	11130 Feb 07 11:50	23° <b>≈</b> 27'16		minimum elong	11136 Mar 07 15:30	21° <b>¥</b> 49′13	
max. Earth dist.	11130 Feb 06 16:43	23° <b>≈</b> 24'19	19.31512 AU	max. Earth dist.	11136 Mar 07 09:25		19.49543 AU
morning rise	11130 Feb 23 14:54	24° <b>≈</b> 27'43		morning rise	11136 Mar 23 19:47	22° <b>)</b> (49'25	
retrograde	11130 May 26 21:35	27°≈51'13	00001	retrograde	11136 Jun 23 14:07	26° <b>)</b> €09'49	000000
opposition	11130 Aug 08 19:25	25°≈48'17		opposition	11136 Sep 05 20:09	24° <b>)</b> €07'52	
min. Earth dist.	11130 Aug 09 06:24	23 ≈4 / 05	17.32230 AU	min. Earth dist.	11136 Sep 06 01:47	24° <b>大</b> 0/16	17.51938 AU

direct	11136 Nov 21 05:53	22° <b>₩</b> 02'55		minimum alana	11143 Apr 09 17:45	23° <b>Y</b> 56'49	0054146
direct				minimum elong	•	23° <b>Y</b> 56'41	
evening set	11137 Feb 24 08:42	25° <b>¥</b> 28'47		max. Earth dist.	11143 Apr 09 16:53		19.89513 AU
				morning rise	11143 Apr 25 16:17	24° <b>Y</b> 55′01	
conjunction	11137 Mar 12 14:49	26° <b>∺</b> 29'06		retrograde	11143 Jul 26 05:24	28° <b>Y</b> 10′33	
minimum elong	11137 Mar 12 14:49	26° <b>∺</b> 29'06	0°37'00	opposition	11143 Oct 09 05:53	26° <b>Ƴ</b> 10′09	
max. Earth dist.	11137 Mar 12 08:38	26° <b>∺</b> 28′09	19.54440 AU	min. Earth dist.	11143 Oct 09 05:40	26° <b>Y</b> 10′10	17.92690 AU
morning rise	11137 Mar 28 18:23	27° <b>∺</b> 29′03		direct	11143 Dec 25 03:58	24° <b>Ƴ</b> 07'18	
	11137 May 16 22:44	$0$ ° $\Upsilon$		evening set	11144 Mar 28 11:01	27° <b>Y</b> 26′53	
retrograde	11137 Jun 28 12:12	0° <b>Ƴ</b> 48'50					
	11137 Aug 11 08:57	30° <b>₹</b>		conjunction	11144 Apr 13 11:05	28° <b>Y</b> 25′05	-0°56'19
opposition	11137 Sep 10 19:21	28° <b>¥</b> 47′08	-0°43'22	minimum elong	11144 Apr 13 11:04	28° <b>Y</b> 25′05	0°56'34
min. Earth dist.	11137 Sep 10 23:27	28°¥46'42	17.57035 AU	max. Earth dist.	11144 Apr 13 11:55	28° <b>Y</b> 25'13	
direct	11137 Nov 26 07:05	26° <del>) (</del> 42'27	17.57055710	morning rise	11144 Apr 29 08:50	29° <b>Y</b> 22'59	17.70071710
direct	11137 Nov 20 07:05 11138 Feb 27 05:36	20 <b>γ</b> (42 2 / 0° <b>γ</b>		morning risc	11144 May 09 22:35	0° <b>8</b>	
. ,		0° <b>Υ</b> 07'39		1	•		
evening set	11138 Mar 01 08:11	0 10/39		retrograde	11144 Jul 29 21:03	2° <b>8</b> 37'43	100010
				opposition	11144 Oct 13 01:24	0° <b>8</b> 37'29	
conjunction	11138 Mar 17 13:31	1° <b>Ƴ</b> 07'41		min. Earth dist.	11144 Oct 12 23:58	_	17.99087 AU
minimum elong	11138 Mar 17 13:31	1° <b>Ƴ</b> 07'41	0°40'44		11144 Oct 28 06:30	30° <b>₹Ƴ</b>	
max. Earth dist.	11138 Mar 17 09:25	1° <b>Y</b> 07'03	19.59708 AU	direct	11144 Dec 29 02:04	28° <b>Ƴ</b> 34'55	
morning rise	11138 Apr 02 15:58	2° <b>Y</b> 07'21			11145 Feb 25 20:33	$8^{\circ}$ 0	
retrograde	11138 Jul 03 08:33	5° <b>Y</b> 26′29		evening set	11145 Apr 02 04:07	1° <b>8</b> 53'23	
opposition	11138 Sep 15 18:20	3° <b>Y</b> 25'03	-0°47'17	Č	1		
min. Earth dist.	11138 Sep 15 22:11		17.62463 AU	conjunction	11145 Apr 18 03:18	2° <b>8</b> 51'16	-0°57'44
direct	11138 Dec 01 07:24	1° <b>Υ</b> 20'42	17.02403710	minimum elong	11145 Apr 18 03:17	2° <b>8</b> 51'16	
				_	-		
evening set	11139 Mar 06 07:03	4° <b>Ƴ</b> 45'06		max. Earth dist.	11145 Apr 18 04:31	_	20.02319 AU
		••		morning rise	11145 May 04 00:29	3° <b>8</b> 48'53	
conjunction	11139 Mar 22 11:17	5° <b>Ƴ</b> 44'51		retrograde	11145 Aug 03 12:00	7° <b>8</b> 02'50	
minimum elong	11139 Mar 22 11:16	5° <b>Ƴ</b> 44'51	0°44'09	opposition	11145 Oct 17 20:31	5° <b>8</b> 02'44	-1°04'47
max. Earth dist.	11139 Mar 22 06:56	5° <b>Ƴ</b> 44'10	19.65286 AU	min. Earth dist.	11145 Oct 17 18:33	5° <b>8</b> 02'57	18.05603 AU
morning rise	11139 Apr 07 13:01	6° <b>Ƴ</b> 44'13		direct	11146 Jan 02 21:27	3° <b>8</b> 00'27	
retrograde	11139 Jul 08 05:08	10° <b>Ƴ</b> 02'42		evening set	11146 Apr 06 20:00	6° <b>8</b> 17'49	
opposition	11139 Sep 20 16:50	8° <b>Y</b> 01'29	-0°50'52	·	•		
min. Earth dist.	11139 Sep 20 19:27		17.68180 AU	conjunction	11146 Apr 22 18:30	7° <b>8</b> 15'23	-0°58'47
direct	11139 Dec 06 07:35	5° <b>Υ</b> '57'27	17.00100110	minimum elong	11146 Apr 22 18:30	7° <b>8</b> 15'23	
evening set	11140 Mar 10 04:47	9° <b>Υ</b> 21'00		max. Earth dist.	11146 Apr 22 21:30	_	20.08891 AU
evening set	11140 Mai 10 04.47	9 12100			•	8° <b>8</b> 12'41	20.08891 AU
	1114034 26 00 17	100000000	0047114	morning rise	11146 May 08 15:01		
conjunction	11140 Mar 26 08:17	10° <b>Y</b> 20′27		retrograde	11146 Aug 08 02:50	11° <b>8</b> 25'53	
minimum elong	11140 Mar 26 08:17		0°47'18	opposition	11146 Oct 22 14:53	9° <b>8</b> 25'57	
max. Earth dist.	11140 Mar 26 05:54		19.71111 AU	min. Earth dist.	11146 Oct 22 11:08	_	18.12231 AU
morning rise	11140 Apr 11 09:02	11° <b>Ƴ</b> 19'32		direct	11147 Jan 07 17:54	7° <b>8</b> 23'58	
retrograde	11140 Jul 12 00:17	14° <b>Ƴ</b> 37'18		evening set	11147 Apr 11 11:04	10° <b>8</b> 40'13	
opposition	11140 Sep 24 14:56	12° <b>Y</b> 36'20	-0°54'07				
min. Earth dist.	11140 Sep 24 17:04	12° <b>Ƴ</b> 36′07	17.74096 AU	conjunction	11147 Apr 27 08:48	11° <b>8</b> 37'29	-0°59'30
direct	11140 Dec 10 07:31	10° <b>Ƴ</b> 32'37		minimum elong	11147 Apr 27 08:47	11° <b>8</b> 37'29	0°59'53
evening set	11141 Mar 15 01:58	13° <b>Y</b> ′55'15		max. Earth dist.	11147 Apr 27 12:36		20.15578 AU
e venning see	111111111111111111111111111111111111111	15 , 55 15		morning rise	11147 May 13 04:49	12° <b>8</b> 34'31	20.100,0110
conjunction	11141 Mar 31 04:24	14° <b>Ƴ</b> 54'24	0°50'00	morning rise	11147 Jul 01 04:02	15° <b>8</b>	
	11141 Mar 31 04:24	14° <b>Υ</b> 54'24		ratra ara da		15° <b>8</b> 46'58	
minimum elong				retrograde	11147 Aug 12 16:19		
max. Earth dist.	11141 Mar 31 01:43		19.77113 AU		11147 Sep 25 19:20	15°R <b>8</b>	
morning rise	11141 Apr 16 04:27	15° <b>Y</b> 53'11		opposition	11147 Oct 27 08:35	13° <b>8</b> 47'13	
retrograde	11141 Jul 16 19:07	19° <b>Ƴ</b> 10'14		min. Earth dist.	11147 Oct 27 04:24		18.18986 AU
opposition	11141 Sep 29 12:24	17° <b>Ƴ</b> 09'28	-0°57'01	direct	11148 Jan 12 10:25	11° <b>8</b> 45'33	
min. Earth dist.	11141 Sep 29 13:42	17° <b>Ƴ</b> 09'20	17.80182 AU		11148 Apr 14 20:18	15° <b>8</b>	
direct	11141 Dec 15 06:46	15° <b>Y</b> 06′03		evening set	11148 Apr 15 01:04	15° <b>8</b> 00'42	
evening set	11142 Mar 19 22:00	18° <b>Ƴ</b> 27'44					
-				conjunction	11148 Apr 30 22:16	15° <b>8</b> 57'40	-0°59'51
conjunction	11142 Apr 04 23:42	19° <b>Ƴ</b> 26'34	-0°52'27	minimum elong	11148 Apr 30 22:15	15° <b>8</b> 57'40	
minimum elong	11142 Apr 04 23:42	19° <b>Υ</b> 26'34		max. Earth dist.	11148 May 01 03:30		20.22379 AU
· ·	_		19.83260 AU		,	15 <b>8</b> 54'26	20.22319 AU
max. Earth dist.	11142 Apr 04 22:48		17.03200 AU	morning rise	11148 May 16 17:48	_	
morning rise	11142 Apr 20 22:50	20° <b>Y</b> 25′03		retrograde	11148 Aug 16 06:46	20° <b>8</b> 06'10	100 (17.0
retrograde	11142 Jul 21 12:28	23° <b>Y</b> 41'20		opposition	11148 Oct 31 01:33	18° <b>8</b> 06'37	
opposition	11142 Oct 04 09:27	21° <b>Y</b> 40'47		min. Earth dist.	11148 Oct 30 19:32		18.25803 AU
min. Earth dist.	11142 Oct 04 09:52		17.86379 AU	direct	11149 Jan 16 05:04	16° <b>8</b> 05'20	
direct	11142 Dec 20 06:16	19° <b>Ƴ</b> 37'40		evening set	11149 Apr 19 14:18	19° <b>8</b> 19'23	
evening set	11143 Mar 24 17:02	22° <b>Y</b> ′58'18					
-				conjunction	11149 May 05 10:51	20° <b>8</b> 16'05	-0°59'52
conjunction	11143 Apr 09 17:46	23° <b>Y</b> ′56'49	-0°54'33	minimum elong	11149 May 05 10:51	20° <b>8</b> 16'05	
3	r			8			

E	11140 M 05 16.50	200 17100 2	00 2020C ATT	i. David diet	11155 N 20 22-07	170₩2010€	10 (0054 ATT
max. Earth dist.	11149 May 05 16:58	20° <b>8</b> 17'00 2	20.29206 AU	min. Earth dist.	11155 Nov 30 23:07		18.69854 AU
morning rise	11149 May 21 05:58	21° <b>8</b> 12'35		direct	11156 Feb 16 09:17	15° <b>Ⅱ</b> 38'14	
retrograde	11149 Aug 20 19:10	24° <b>8</b> 23'38		evening set	11156 May 18 13:41	18° <b>Ⅱ</b> 45'14	
opposition	11149 Nov 04 18:01	22° <b>8</b> 24'18 -1				_	
min. Earth dist.	11149 Nov 04 11:55	22° <b>8</b> 24'55 1	8.32634 AU	conjunction	11156 Jun 03 07:44	19° <b>∏</b> 40'17	
direct	11150 Jan 20 19:56	20° <b>8</b> 23'23		minimum elong	11156 Jun 03 07:44	19° <b>Ⅱ</b> 40'17	0°51'51
evening set	11150 Apr 24 02:40	23° <b>8</b> 36'22		max. Earth dist.	11156 Jun 03 17:48	19° <b>Ⅱ</b> 41'45	20.72410 AU
				morning rise	11156 Jun 19 01:38	20° <b>Ⅱ</b> 35′19	
conjunction	11150 May 09 22:43	24° <b>8</b> 32'47 -0	0°59'33	retrograde	11156 Sep 19 03:15	23° <b>Ⅱ</b> 42'20	
minimum elong	11150 May 09 22:43	24° <b>8</b> 32'47	1°00'03	opposition	11156 Dec 04 20:49	21° <b>Ⅱ</b> 44′04	-0°55'29
max. Earth dist.	11150 May 10 05:55	24° <b>8</b> 33'51 2	20.36019 AU	min. Earth dist.	11156 Dec 04 10:05	21° <b>Ⅱ</b> 45′09	18.74899 AU
morning rise	11150 May 25 17:28	25° <b>8</b> 29'02		direct	11157 Feb 19 21:49	19° <b>∏</b> 45′22	
retrograde	11150 Aug 25 08:53	28° <b>8</b> 39'26		evening set	11157 May 22 21:07	22° <b>I</b>  51'28	
opposition	11150 Nov 09 09:50	26° <b>8</b> 40'18 -1	1°05'46	Z .	,		
min. Earth dist.	11150 Nov 09 01:56	26° <b>8</b> 41'07 1		conjunction	11157 Jun 07 15:03	23° <b>II</b> 46'20	-0°48'52
direct	11151 Jan 25 12:54	24° <b>8</b> 39'47	0.0,0,0,0,110	minimum elong	11157 Jun 07 15:03	23° <b>I</b> I46'20	
evening set	11151 Apr 28 14:10	27° <b>8</b> 51'42		max. Earth dist.	11157 Jun 08 01:50		20.77257 AU
evening set	11131 Apr 20 14.10	27 031 42		morning rise	11157 Jun 23 08:56	24° <b>II</b> 41'13	20.77237 AO
:	11151 M 14 00-44	28° <b>8</b> 47'51 -(	0050154	_		24 <b>H</b> 41 13 27° <b>H</b> 47'47	
conjunction	11151 May 14 09:44			retrograde	11157 Sep 23 10:54		0050144
minimum elong	11151 May 14 09:44		0°59'26	opposition	11157 Dec 09 08:46	25° <b>Ⅱ</b> 49'33	
max. Earth dist.	11151 May 14 17:47	28° <b>8</b> 49'03 2	20.42721 AU	min. Earth dist.	11157 Dec 08 22:42		18.79563 AU
morning rise	11151 May 30 04:12	29° <b>8</b> 43'52		direct	11158 Feb 24 08:45	23° <b>Ⅱ</b> 51′02	
	11151 Jun 03 19:58	$\Pi$ $^{\circ}0$		evening set	11158 May 27 03:59	26° <b>Ⅱ</b> 56'16	
retrograde	11151 Aug 29 20:36	2° <b>Ⅱ</b> 53'39					
opposition	11151 Nov 14 01:11	0° <b>Ⅱ</b> 54'43 -1	1°04'51	conjunction	11158 Jun 11 21:49	27° <b>Ⅱ</b> 50'58	-0°46'17
min. Earth dist.	11151 Nov 13 17:33	0° <b>I</b> 55'30 1	8.46031 AU	minimum elong	11158 Jun 11 21:49	27° <b>Ⅲ</b> 50′59	0°46'57
	11151 Dec 07 06:48	30° <b>₹</b> 8		max. Earth dist.	11158 Jun 12 08:40	27° <b>I</b> 52'33	20.81756 AU
direct	11152 Jan 30 02:43	28° <b>8</b> 54'33		morning rise	11158 Jun 27 15:53	28° <b>Ⅱ</b> 45'43	
	11152 Mar 21 19:03	0°П		· ·	11158 Jul 20 17:33	0°9	
evening set	11152 May 02 01:02	2° <b>∏</b> 05'27		retrograde	11158 Sep 27 21:13	1° <b>©</b> 51'51	
evening sec	11132 May 02 01.02	2 40327		retrograde	11158 Dec 11 04:25	30°RⅡ	
conjunction	11152 May 17 20:12	3° <b>П</b> 01'21 -(	0°57'57	opposition	11158 Dec 11 04:25	29° <b>I</b> 53'38	0040144
	•		0°58'31				18.83895 AU
minimum elong	11152 May 17 20:12			min. Earth dist.	11158 Dec 13 08:23		18.83893 AU
max. Earth dist.	11152 May 18 04:50	3° <b>П</b> 02'38 2	20.49258 AU	direct	11159 Feb 28 19:57	27° <b>I</b> 55'17	
morning rise	11152 Jun 02 14:26	3° <b>∏</b> 57′09			11159 May 13 02:14	0ංම	
retrograde	11152 Sep 02 08:58	7° <b>Ⅱ</b> 06'18		evening set	11159 May 31 10:09	0° <b>©</b> 59'43	
opposition	11152 Nov 17 15:40	5° <b>Ⅱ</b> 07'34 -1					
min. Earth dist.	11152 Nov 17 06:29	5° <b>Ⅱ</b> 08'30 1	8.52448 AU	conjunction	11159 Jun 16 04:01	1° <b>©</b> 54'17	-0°43'28
direct	11153 Feb 02 18:17	3° <b>Ⅱ</b> 07'46		minimum elong	11159 Jun 16 04:01	1° <b>©</b> 54'17	0°44'08
evening set	11153 May 06 11:15	6° <b>Ⅱ</b> 17'39		max. Earth dist.	11159 Jun 16 15:51	1° <b>©</b> 56'00	20.85924 AU
				morning rise	11159 Jul 01 22:12	2°548'54	
conjunction	11153 May 22 06:02	7° <b>Ⅱ</b> 13'19 -(	0°56'42	retrograde	11159 Oct 02 03:55	5° <b>©</b> 54'40	
minimum elong	11153 May 22 06:02	7° <b>Ⅱ</b> 13'19 (	0°57'17	opposition	11159 Dec 18 06:42	3°956'28	-0°46'30
max. Earth dist.	11153 May 22 15:22	7° <b>Ⅱ</b> 14'42 2	20.55540 AU	min. Earth dist.	11159 Dec 17 19:41	3°957'34	18.87919 AU
morning rise	11153 Jun 07 00:03	8° <b>Ⅱ</b> 08'54		direct	11160 Mar 04 05:04	1° <b>©</b> 58'19	
retrograde	11153 Sep 06 19:43	11° <b>Ⅱ</b> 17′29		evening set	11160 Jun 03 15:57	5°502'00	
opposition	11153 Nov 22 05:57	9° <b>Д</b> 18'55 -1	1°02'02	evening sec	11100 3411 03 13.37	3 -02 00	
min. Earth dist.	11153 Nov 21 21:17	9° <b>П</b> 19'48 1		conjunction	11160 Jun 19 09:47	5°956'26	-0°40'28
direct	11154 Feb 07 07:11	7° <b>П</b> 19'26	18.38390 AU	minimum elong	11160 Jun 19 09:47	5°956'26	
				max. Earth dist.			
evening set	11154 May 10 20:38	10° <b>Ⅱ</b> 28′20			11160 Jun 19 21:39		20.89808 AU
	1115131 26 15 06	110 110 110	0055100	morning rise	11160 Jul 05 04:13	6°950'57	
conjunction	11154 May 26 15:06	11° <b>Ⅲ</b> 23'46 -(		retrograde	11160 Oct 05 13:29	9° <b>©</b> 56'24	
minimum elong	11154 May 26 15:06	11° <b>Ⅱ</b> 23'46 (		opposition	11160 Dec 21 16:47	7° <b>9</b> 58'13	
max. Earth dist.	11154 May 27 00:41	11° <b>Ⅱ</b> 25'11 2	20.61532 AU	min. Earth dist.	11160 Dec 21 04:17		18.91656 AU
morning rise	11154 Jun 11 09:02	12° <b>Ⅱ</b> 19'09		direct	11161 Mar 08 15:14	6° <b>ॐ</b> 00'15	
retrograde	11154 Sep 11 07:13	15° <b>Ⅱ</b> 27'12		evening set	11161 Jun 07 21:19	9° <b>©</b> 03'17	
opposition	11154 Nov 26 19:30	13° <b>Ⅱ</b> 28'46 -1	1°00'09				
min. Earth dist.	11154 Nov 26 09:22	13° <b>Ⅲ</b> 29'48 1	8.64411 AU	conjunction	11161 Jun 23 15:15	9° <b>©</b> 57'36	-0°37'15
direct	11155 Feb 11 21:18	11° <b>Ⅱ</b> 29'35		minimum elong	11161 Jun 23 15:15	9° <b>9</b> 57'36	0°37'54
evening set	11155 May 15 05:29	14° <b>Ⅲ</b> 37'31		max. Earth dist.	11161 Jun 24 04:08		20.93396 AU
	10 00.27			morning rise	11161 Jul 09 09:51	10°952'02	
conjunction	11155 May 30 23:43	15° <b>Ⅱ</b> 32'46 -(	0°53'10	retrograde	11161 Oct 09 19:48	13°957'14	
	•	15 <b>П</b> 3246 -0		opposition	11161 Oct 09 19.48 11161 Dec 26 02:43	13 \$37 14 11°\$59'06	0.30,33
minimum elong	11155 May 30 23:43						
max. Earth dist.	11155 May 31 09:54	15° <b>Ⅱ</b> 34'15 2	w.6/139 AU	min. Earth dist.	11161 Dec 25 14:44		18.95099 AU
morning rise	11155 Jun 15 17:33	16° <b>Ⅱ</b> 27'58		direct	11162 Mar 12 22:46	10°501'20	
retrograde	11155 Sep 15 16:22	19° <b>∏</b> 35′29		evening set	11162 Jun 12 02:13	13° <b>©</b> 03'45	
opposition	11155 Dec 01 08:29	17° <b>Ⅱ</b> 37'09 -0	0°57'57				

11168 Jul 21 00:50

minimum elong

7°**Ω**51'13 0°11'33

max. Earth dist.

11173 Aug 10 13:23

27° **Ω**43'09 21.03080 AU

,			J	<i>( ),</i>		, 1	J
morning rise	11173 Aug 26 02:28	28° <b>Ω</b> 36′12		opposition	11180 Mar 09 07:04	23° <b>m</b> )49'42	0°38'24
C	11173 Sep 21 22:30	0° mp		min. Earth dist.	11180 Mar 09 00:15		18.82576 AU
retrograde	11173 Nov 27 14:50	1° mp 41'57		direct	11180 May 23 15:11	21° m) 52'02	
C	11174 Feb 06 05:32	30°R <b>Ω</b>		evening set	11180 Aug 22 01:55	24° m/54'12	
opposition	11174 Feb 13 06:21	29° <b>Ω</b> 43'05	0°12'59	-		•	
min. Earth dist.	11174 Feb 12 20:30	29° <b>Ω</b> 44'04	19.02021 AU	conjunction	11180 Sep 07 04:09	25° <b>m</b> 49'37	0°36'26
direct	11174 Apr 30 04:43	27° <b>Ω</b> 45'55		minimum elong	11180 Sep 07 04:09	25° <b>m</b> 49'37	0°36'19
	11174 Jul 15 07:44	0° <b>m</b> )		max. Earth dist.	11180 Sep 07 10:37	25° <b>m</b> 50'32	20.80352 AU
evening set	11174 Jul 29 09:15	0° Mp 45'42		morning rise	11180 Sep 23 09:12	26° Mp 45'26	
				retrograde	11180 Dec 26 13:51	29° <b>m</b> 54'41	
conjunction	11174 Aug 14 07:47	1° <b>m</b> )40'07	0°13'49	opposition	11181 Mar 13 16:18	27° <b>m</b> 54'55	0°42'10
minimum elong	11174 Aug 14 07:47	1° <b>m</b> )40'07	0°13'27	min. Earth dist.	11181 Mar 13 10:10	27° <b>m</b> 55'32	18.78025 AU
behind sun begin	11174 Aug 14 04:03	1° <b>m</b> 39'36		direct	11181 May 27 23:00	25° <b>m</b> 57'05	
behind sun end	11174 Aug 14 11:32	1° Mp 40'38		evening set	11181 Aug 26 10:50	28° <b>m</b> 59'52	
max. Earth dist.	11174 Aug 14 18:04	1°Mp41'34	21.00870 AU				
morning rise	11174 Aug 30 08:52	2° <b>m</b> 34'53		conjunction	11181 Sep 11 13:52	29° <b>m</b> 55'30	0°39'44
retrograde	11174 Dec 02 00:13	5° <b>m</b> 40'58		minimum elong	11181 Sep 11 13:52	29° <b>m</b> 55'30	0°39'40
opposition	11175 Feb 17 13:51	3° <b>m</b> )41'57	0°17'28	max. Earth dist.	11181 Sep 11 20:07	29° <b>m</b> 56'24	20.75571 AU
min. Earth dist.	11175 Feb 17 03:48	3° <b>m</b> 42'58	18.99642 AU		11181 Sep 12 20:57	0∘ <b>ত</b>	
direct	11175 May 04 10:05	1° Mp 44'42		morning rise	11181 Sep 27 19:28	0° <b>ہ</b> 51'32	
evening set	11175 Aug 02 14:44	4° <b>m</b> 44'43		retrograde	11181 Dec 31 01:10	4° <b>₽</b> 01′26	
				opposition	11182 Mar 18 01:57	2° <b>ഫ</b> 01'28	0°45'44
conjunction	11175 Aug 18 13:56	5° <b>m</b> 39'15	0°17'50	min. Earth dist.	11182 Mar 17 21:01	2° <b>ഫ</b> 01'59	18.73022 AU
minimum elong	11175 Aug 18 13:56	5° <b>m</b> 39'15	0°17'31	direct	11182 Jun 01 05:58	0° <b>ჲ</b> 03'27	
max. Earth dist.	11175 Aug 19 00:29	5° <b>m</b> 40'45	20.98311 AU	evening set	11182 Aug 30 20:41	3° <b>ഫ</b> 06'53	
morning rise	11175 Sep 03 15:33	6° Mp 34′09					
retrograde	11175 Dec 06 07:59	9° <b>m</b> 40'38		conjunction	11182 Sep 16 00:19	4° <b>₽</b> 02'44	0°42'51
opposition	11176 Feb 21 21:40	7° <b>m</b> 41'29	0°21'53	minimum elong	11182 Sep 16 00:18	4° <b>ഫ</b> 02'44	0°42'50
min. Earth dist.	11176 Feb 21 12:29	7° <b>m</b> 42'25	18.96914 AU	max. Earth dist.	11182 Sep 16 04:27	4° <b>₽</b> 03'20	20.70363 AU
direct	11176 May 07 15:42	5° <b>m</b> 44'10		morning rise	11182 Oct 02 06:45	4° <b>₽</b> 59'00	
evening set	11176 Aug 05 20:34	8° <b>m</b> 44'28		retrograde	11183 Jan 04 14:22	8° <b>₾</b> 09'32	
				opposition	11183 Mar 22 11:46	6° <b>ഫ</b> 09'21	0°49'05
conjunction	11176 Aug 21 20:16	9° <b>m</b> 39'08	0°21'47	min. Earth dist.	11183 Mar 22 07:50	6° <b>ჲ</b> 09'46	18.67609 AU
minimum elong	11176 Aug 21 20:16	9° <b>m</b> 39'08	0°21'29	direct	11183 Jun 05 14:50	4° <b>₽</b> 11'04	
max. Earth dist.	11176 Aug 22 05:42	9° <b>m</b> 40'29	20.95426 AU	evening set	11183 Sep 04 07:04	7° <b>≏</b> 15'12	
morning rise	11176 Sep 06 22:38	10° <b>m</b> 34'11					
retrograde	11176 Dec 09 18:24	13° <b>m</b> 41'09		conjunction	11183 Sep 20 11:31	8° <b>ट</b> 11'18	
opposition	11177 Feb 25 05:38	11° <b>m</b> )41'52		minimum elong	11183 Sep 20 11:31	8° <b>ट</b> 11'18	
min. Earth dist.	11177 Feb 24 20:22		18.93863 AU	max. Earth dist.	11183 Sep 20 15:28		20.64750 AU
direct	11177 May 11 21:20	9° <b>m</b> ) 44'28		morning rise	11183 Oct 06 18:28	9° <b>≏</b> 07'48	
evening set	11177 Aug 10 02:56	12° <b>m</b> ) 45'08		retrograde	11184 Jan 09 02:43	12° <b>≏</b> 18'59	
				opposition	11184 Mar 25 22:04	10° <b>≏</b> 18'33	0°52'13
conjunction	11177 Aug 26 03:20	13° <b>m</b> 39'58	0°25'38	min. Earth dist.	11184 Mar 25 19:09	10° <b>≏</b> 18'51	18.61819 AU
minimum elong	11177 Aug 26 03:19	13° <b>m</b> 39'58	0°25'23	direct	11184 Jun 08 23:38	8° <b>≏</b> 20'00	
max. Earth dist.	11177 Aug 26 13:00		20.92201 AU	evening set	11184 Sep 07 18:04	11° <b>≏</b> 24'50	
morning rise	11177 Sep 11 06:15	14° Mp 35'12			111040 00 00 00	100 0 0 1111	00.4010.7
retrograde	11177 Dec 14 03:11	17° Mp 42'40	0020124	conjunction	11184 Sep 23 23:06	12° <b>£</b> 21'11	0°48'27
opposition	11178 Mar 01 13:52	15° Mp 43'16	0°30'24	minimum elong	11184 Sep 23 23:05	12° <b>£</b> 21'11	0°48'32
min. Earth dist.	11178 Mar 01 05:32		18.90467 AU	max. Earth dist.	11184 Sep 24 01:08		20.58818 AU
direct	11178 May 16 02:56	13° m 45'49		morning rise	11184 Oct 10 06:53	13° <b>£</b> 17'56	
evening set	11178 Aug 14 09:54	16° Mp 46'54		retrograde	11185 Jan 12 16:00	16° <b>£</b> 29'48	0055105
	11170 4 20 10 50	170m 41154	0000100	opposition	11185 Mar 30 08:48	14° <b>£</b> 29'05	0°55'05
conjunction	11178 Aug 30 10:52	17° Mp 41'54	0°29'22	min. Earth dist.	11185 Mar 30 06:47		18.55757 AU
minimum elong	11178 Aug 30 10:52	17° Mp 41'54	0°29'09	direct	11185 Jun 13 09:04	12° <b>2</b> 30'13	
max. Earth dist.	11178 Aug 30 19:08		20.88641 AU	evening set	11185 Sep 12 05:50	15° <b>≏</b> 35'50	
morning rise	11178 Sep 15 14:37	18° Mp 37'19			11105 0 20 11 42	1.60.0 22127	0050154
retrograde	11178 Dec 18 15:02	21° Mp 45'21	0024120	conjunction	11185 Sep 28 11:43	16° <b>♀</b> 32'27	0°50'54
opposition	11179 Mar 05 22:19	19° Mp 45'51	0°34'29	minimum elong	11185 Sep 28 11:42	16° <b>♀</b> 32'27	0°51'01
min. Earth dist.	11179 Mar 05 14:19	19° Mp 46'39	18.86723 AU	max. Earth dist.	11185 Sep 28 13:51		20.52633 AU
direct	11179 May 20 09:24	17° Mp 48'17		morning rise	11185 Oct 14 19:59	17° <b>Ω</b> 29'27	
evening set	11179 Aug 18 17:32	20° <b>m</b> 49'53		retrograde	11186 Jan 17 05:43	20° <b>Ω</b> 41'59	0057140
				opposition	11186 Apr 03 19:48	18° <b>≏</b> 41'01	0°57'40
	11170 0 00 10 15	010m 450	0022150			100 0 41100	
conjunction	11179 Sep 03 19:12	21° Mp 45'06	0°32'58	min. Earth dist.	11186 Apr 03 18:30		18.49475 AU
minimum elong	11179 Sep 03 19:12	21° Mp 45'05	0°32'49	min. Earth dist. direct	11186 Apr 03 18:30 11186 Jun 17 19:32	16° <b>≏</b> 41'49	
minimum elong max. Earth dist.	11179 Sep 03 19:12 11179 Sep 04 03:27	21° Mp 45'05 21° Mp 46'17		min. Earth dist.	11186 Apr 03 18:30		
minimum elong	11179 Sep 03 19:12	21° Mp 45'05	0°32'49	min. Earth dist. direct	11186 Apr 03 18:30 11186 Jun 17 19:32	16° <b>≏</b> 41'49	18.49475 AU

minimum elong	11186 Oct 03 00:56	20° <b>₽</b> 45'09	0°53'16	max. Earth dist.	11192 Oct 28 21:49	16°M36'35	20.07228 AU
max. Earth dist.	11186 Oct 03 01:07		20.46277 AU	morning rise	11192 Nov 14 15:14	17°M36'16	
morning rise	11186 Oct 19 10:02	21° <b>≏</b> 42'25		retrograde	11193 Feb 16 22:43	20°M54'01	
retrograde	11187 Jan 21 19:18	24° <b>₽</b> 55'39		opposition	11193 May 03 16:27	18°M51'43	1°06'36
opposition	11187 Apr 08 07:20	22° <b>≏</b> 54'25	0°59'58	min. Earth dist.	11193 May 03 20:51	18° <b>M</b> 51'15	18.04018 AU
min. Earth dist.	11187 Apr 08 07:01	22° <b>≏</b> 54'27	18.43058 AU	direct	11193 Jul 17 09:59	16°M50'24	
direct	11187 Jun 22 05:39	20° <b>ჲ</b> 54'53		evening set	11193 Oct 17 11:20	$20^{\circ}$ ML $04'00$	
evening set	11187 Sep 21 07:46	24° <b>ഫ</b> 02'13					
				conjunction	11193 Nov 02 22:40	21°M02'57	0°59'51
conjunction	11187 Oct 07 15:04	24° <b>≏</b> 59'23	0°54'59	minimum elong	11193 Nov 02 22:40	21°M02'57	1°00'20
minimum elong	11187 Oct 07 15:03	24° <b>≏</b> 59'23	0°55'13	max. Earth dist.	11193 Nov 02 17:39		20.00779 AU
max. Earth dist.	11187 Oct 07 15:29		20.39796 AU	morning rise	11193 Nov 19 11:25	22°M02'10	
morning rise	11187 Oct 24 00:34	25° <b>Ω</b> 56'55		retrograde	11194 Feb 21 19:02	25°M20'40	
retrograde	11188 Jan 26 10:18	29° <b>₽</b> 10'52	1001157	opposition	11194 May 08 08:09	23°M18'16	1°06'24
opposition	11188 Apr 11 19:19	27° <b>♀</b> 09'24	1°01'57	min. Earth dist.	11194 May 08 12:49		17.97563 AU
min. Earth dist. direct	11188 Apr 11 19:24 11188 Jun 25 17:32	27° <b>2</b> 09′23 25° <b>2</b> 09′32	18.36540 AU	direct evening set	11194 Jul 22 02:12 11194 Oct 22 07:37	21°M16'39 24°M31'23	
evening set	11188 Sun 23 17:32 11188 Sep 24 22:03	23 <b>⊆</b> 09 32 28° <b>⊆</b> 17'49		evening set	11194 Oct 22 07.37	24 11631 23	
evening set	11100 Sep 24 22.03	20 == 1 / 49		conjunction	11194 Nov 07 19:23	25°M30'38	0°59'28
conjunction	11188 Oct 11 05:53	29° <b>₽</b> 15'15	0°56'36	minimum elong	11194 Nov 07 19:22	25°M30'38	0°59'59
minimum elong	11188 Oct 11 05:53	29° <b>₽</b> 15'15	0°56'52	max. Earth dist.	11194 Nov 07 12:03		19.94318 AU
max. Earth dist.	11188 Oct 11 04:23		20.33262 AU	morning rise	11194 Nov 24 08:40	26°M30'08	
	11188 Oct 23 22:05	0° <b>M</b> .		retrograde	11195 Feb 26 14:20	29° <b>M</b> 49'22	
morning rise	11188 Oct 27 16:10	0°M13'03		opposition	11195 May 13 00:49	27°M46'49	1°05'47
retrograde	11189 Jan 30 01:04	3°M27'46		min. Earth dist.	11195 May 13 07:24	27° <b>M</b> 46'07	17.91107 AU
opposition	11189 Apr 16 07:55	1°M26'03	1°03'35	direct	11195 Jul 26 17:31	25°M44'52	
min. Earth dist.	11189 Apr 16 09:01	1°M25'56	18.30003 AU	evening set	11195 Oct 27 04:30	29°M00'44	
	11189 May 24 08:56	30° <b>₹</b> Ω					
direct	11189 Jun 30 04:35	29° <b>≏</b> 25'52		conjunction	11195 Nov 12 16:57	0° <b>∡</b> ¹00'17	0°58'43
_	11189 Aug 05 08:13	0° <b>M</b> ₊		minimum elong	11195 Nov 12 16:57	0° <b>∡</b> 00'17	0°59'15
evening set	11189 Sep 29 13:02	2°M35'08		max. Earth dist.	11195 Nov 12 09:22		19.87865 AU
	11100 0 4 15 21 45	20 <b>M</b> 22152	0057155		11195 Nov 12 15:04	0° <b>∕</b> <sup>7</sup>	
conjunction minimum elong	11189 Oct 15 21:45	3°M32'52 3°M32'52	0°57'55	morning rise	11195 Nov 29 06:29	1° <b>х</b> <sup>7</sup> 00'03 4° <b>х</b> <sup>7</sup> 19'58	
max. Earth dist.	11189 Oct 15 21:45 11189 Oct 15 20:35		20.26715 AU	retrograde opposition	11196 Mar 02 12:27 11196 May 16 18:01	2° <b>x</b> <sup>1</sup> 17'16	1°04'47
morning rise	11189 Nov 01 08:28	4°M30'57	20.20/13 AU	min. Earth dist.	11196 May 17 00:37		17.84665 AU
retrograde	11190 Feb 03 17:38	7°M46'24		direct	11196 Jul 30 11:56	0° <b>₹</b> 14'59	17.04003 AC
opposition	11190 Apr 20 21:04	5°M44'31	1°04'54	evening set	11196 Oct 31 02:29	3° <b>∡</b> '31'57	
min. Earth dist.	11190 Apr 20 22:23		18.23455 AU				
direct	11190 Jul 04 17:39	3°M44'02		conjunction	11196 Nov 16 15:21	4° <b>∡</b> ³31'47	0°57'36
evening set	11190 Oct 04 05:15	6° <b>M</b> 54'19		minimum elong	11196 Nov 16 15:21	4° <b>∡</b> ³31'47	0°58'11
				max. Earth dist.	11196 Nov 16 05:50	4° <b>∡</b> ³30′21	19.81456 AU
conjunction	11190 Oct 20 14:29	7°M52'21	0°58'54	morning rise	11196 Dec 03 05:18	5° <b>х</b> ³31'49	
minimum elong	11190 Oct 20 14:29	7°M52'21	0°59'15	retrograde	11197 Mar 07 08:25	8° <b>∡</b> 52′23	
max. Earth dist.	11190 Oct 20 11:17		20.20184 AU	opposition	11197 May 21 11:53	6° <b>∡</b> 749'31	1°03'22
morning rise	11190 Nov 06 01:55	8° <b>M</b> 50'43		min. Earth dist.	11197 May 21 20:23		17.78312 AU
retrograde	11191 Feb 08 10:06	12°M06'55		direct	11197 Aug 04 04:27	4° <b>∡</b> ¹46'51	
opposition	11191 Apr 25 10:47	10°M04'52		evening set	11197 Nov 05 01:09	8° <b>∡</b> ¹04'56	
min. Earth dist.	11191 Apr 25 13:24		18.16946 AU	. ,.	1110731 21 14 20	00 705103	0056100
direct evening set	11191 Jul 09 05:52	8°M04'06		conjunction minimum elong	11197 Nov 21 14:39 11197 Nov 21 14:39	9° <b>₹</b> 05'03 9° <b>₹</b> 05'03	0°56'08 0°56'43
evening set	11191 Oct 08 22:13	11° <b>M</b> .15'28		max. Earth dist.	11197 Nov 21 14.39 11197 Nov 21 04:47		19.75175 AU
conjunction	11191 Oct 25 08:17	12° <b>M</b> .13'48	0°59'34	morning rise	11197 Nov 21 04:47 11197 Dec 08 04:51	10° <b>∡</b> 05′20	19.73173 AU
minimum elong	11191 Oct 25 08:17	12°M13'48	0°59'58	retrograde	11198 Mar 12 08:08	13°× 26'30	
max. Earth dist.	11191 Oct 25 05:23		20.13690 AU	opposition	11198 May 26 06:15	11°×723'28	1°01'32
morning rise	11191 Nov 10 20:04	13°ML12'27		min. Earth dist.	11198 May 26 14:34	11° <b>x</b> 23'23'34	17.72110 AU
Č	11191 Dec 14 15:28	15° <b>M</b> ₊		direct	11198 Aug 09 00:33	9° <b>∡</b> ¹20'26	
retrograde	11192 Feb 13 04:33	16° <b>™</b> 29'26		evening set	11198 Nov 10 00:45	12° <b>₹</b> ³39'35	
	11192 Apr 16 00:32	15°RM₊		-			
opposition	11192 Apr 29 01:13	14° <b>M</b> 27'15	1°06'24	conjunction	11198 Nov 26 14:35	13° <b>∡</b> ³39′59	0°54'17
min. Earth dist.	11192 Apr 29 03:58	14°M26'58	18.10465 AU	minimum elong	11198 Nov 26 14:35	13° <b>∡</b> ³39'59	0°54'54
direct	11192 Jul 12 20:12	12°M26'13		max. Earth dist.	11198 Nov 26 03:22		19.69073 AU
	11192 Oct 01 08:57	15°M₁		morning rise	11198 Dec 13 05:00	14° <b>×</b> <sup>7</sup> 40'31	
evening set				retrograde	11199 Mar 17 04:45	18° <b>∡</b> ′02'13	
	11192 Oct 12 16:15	15° <b>M</b> 38'41		•			00.50:10
			0050153	opposition	11199 May 31 01:17	15° <b>∡</b> 59′02	
conjunction minimum elong	11192 Oct 12 16:15 11192 Oct 29 02:47 11192 Oct 29 02:47	16°M37'20 16°M37'20	0°59'53 1°00'19	•		15° <b>∡</b> 59′02	0°59'18 17.66140 AU

evening set	11199 Nov 15 00:57	17° <b>∡</b> 15'50		max. Earth dist.	11205 Dec 29 17:03 11206 Jan 15 20:58	16°පි22'30 17°පි26'18	19.37624 AU
conjunction	11199 Dec 01 15:12	18° <b>∡</b> 16'30	0°52'04	retrograde	11206 Apr 19 02:49	20°る50'37	
minimum elong	11199 Dec 01 15:12	18° <b>₹</b> 16'30	0°52'43	opposition	11206 Jul 02 05:57	18° <b>る</b> 47'05	0°33'22
max. Earth dist.	11199 Dec 01 03:37	18° × 10'30		min. Earth dist.	11206 Jul 02 16:55		17.36348 AU
morning rise	11199 Dec 18 05:48	19° <b>×</b> 17'15	17.03230710	direct	11206 Sep 15 10:05	16° <b>る</b> 41'54	17.505 10 710
retrograde	11200 Mar 21 04:58	22° <b>×</b> <sup>7</sup> 39'28		evening set	11206 Dec 18 19:51	20° <b>ろ</b> 08'19	
opposition	11200 Jun 03 20:48	20° <b>×</b> <sup>7</sup> 36'08	0°56'40	ovening sec	11200 200 10 15.01	20 00017	
min. Earth dist.	11200 Jun 04 06:18		17.60486 AU	conjunction	11207 Jan 04 10:57	21° <b>る</b> 10'12	0°27'41
direct	11200 Aug 17 16:10	18° <b>∡</b> 32'23	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	minimum elong	11207 Jan 04 10:57		0°28'21
evening set	11200 Nov 19 01:48	21° <b>х</b> 53'36		max. Earth dist.	11207 Jan 03 22:14		19.35165 AU
<i>3</i> - 1 - 1				morning rise	11207 Jan 21 00:39	22° <b>る</b> 11'57	
conjunction	11200 Dec 05 16:23	22° <b>₹</b> ′54'30	0°49'30	retrograde	11207 Apr 24 03:58	25° <b>පි</b> 36'25	
minimum elong	11200 Dec 05 16:23	22° <b>х</b> 54'30	0°50'09	opposition	11207 Jul 07 05:20	23° <b>る</b> 32'59	0°28'28
max. Earth dist.	11200 Dec 05 04:14	22° <b>₹</b> '52'38		min. Earth dist.	11207 Jul 07 16:45		17.34128 AU
morning rise	11200 Dec 22 07:03	23° <b>₹</b> ¹55'28		direct	11207 Sep 20 10:31	21° <b>る</b> 27'40	
retrograde	11201 Mar 26 02:11	27° <b>∡</b> 18'09		evening set	11207 Dec 24 00:38	24° <b>පි</b> 54'41	
opposition	11201 Jun 08 17:03	25° <b>√</b> 14'41	0°53'39	8-11			
min. Earth dist.	11201 Jun 09 03:55	25° <b>х</b> 13'30	17.55209 AU	conjunction	11208 Jan 09 15:21	25° <b>る</b> 56'39	0°23'11
direct	11201 Aug 22 12:00	23° <b>x</b> <sup>7</sup> 10'35		minimum elong	11208 Jan 09 15:21	25° <b>る</b> 56'39	0°23'49
evening set	11201 Nov 24 03:26	26° <b>х</b> 32′48		max. Earth dist.	11208 Jan 09 01:18	25°₹54'28	19.33189 AU
<i>3</i> - 1 - 1				morning rise	11208 Jan 26 04:49	26° <b>る</b> 58'27	
conjunction	11201 Dec 10 18:16	27° <b>∡</b> ³33'55	0°46'36		11208 Mar 30 08:44	0° <b>≈</b>	
minimum elong	11201 Dec 10 18:16	27° <b>∡</b> ³33'55	0°47'16	retrograde	11208 Apr 28 05:49	0° <b>≈</b> 23'00	
max. Earth dist.	11201 Dec 10 05:32		19.52722 AU		11208 May 27 11:57	30°Rる	
morning rise	11201 Dec 27 09:02	28° <b>₹</b> ³35'04		opposition	11208 Jul 11 05:03	28° <b>ろ</b> 19'36	0°23'21
	11202 Jan 21 07:55	0°ਰ		min. Earth dist.	11208 Jul 11 16:31		17.32391 AU
retrograde	11202 Mar 31 02:42	1° <b>ප</b> 58'10		direct	11208 Sep 24 12:10	26° <b>ප</b> 14'10	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	11202 Jun 11 12:09	30°R <i>X</i> <sup>7</sup>		evening set	11208 Dec 28 05:26	29° <b>ප්</b> 41'42	
opposition	11202 Jun 13 13:36	29° <b>х</b> 54'36	0°50'15	8-11	11209 Jan 02 04:15	0° <b>≈</b>	
min. Earth dist.	11202 Jun 13 23:51	29° <b>x</b> <sup>7</sup> 53'29	17.50383 AU			* -	
direct	11202 Aug 27 11:22	27° <b>×</b> 750'13		conjunction	11209 Jan 13 20:04	0° <b>≈</b> 43'43	0°18'31
	11202 Nov 07 22:48	0°ਰ		minimum elong	11209 Jan 13 20:05	0° <b>≈</b> 43'43	0°19'08
evening set	11202 Nov 29 05:41	1°る13'22		max. Earth dist.	11209 Jan 13 07:00	0° <b>≈</b> 41'41	19.31673 AU
				morning rise	11209 Jan 30 08:55	1° <b>≈</b> 45'31	
conjunction	11202 Dec 15 20:44	2°₹14'42	0°43'23	retrograde	11209 May 03 07:35	5°≈10'03	
minimum elong	11202 Dec 15 20:44	2° <b>ප</b> 14'42	0°44'02	opposition	11209 Jul 16 05:10	3°≈06'45	0°18'04
max. Earth dist.	11202 Dec 15 08:09	2° <b>ප</b> 12'45	19.48133 AU	min. Earth dist.	11209 Jul 16 16:40	3° <b>≈</b> 05'29	17.31092 AU
morning rise	11203 Jan 01 11:21	3° <b>ට</b> 16'00		direct	11209 Sep 29 13:44	1° <b>≈</b> 01'11	
retrograde	11203 Apr 05 00:40	6° <b>ට</b> 39'29		evening set	11210 Jan 02 10:37	4° <b>≈</b> 29'08	
opposition	11203 Jun 18 11:00	4° <b>る</b> 35'52	0°46'30	max. Earth dist.	11210 Jan 18 10:25		19.30606 AU
min. Earth dist.	11203 Jun 18 22:12		17.46057 AU				
direct	11203 Sep 01 09:06	2° <b>ට</b> 31'13		conjunction	11210 Jan 19 00:43	5° <b>≈</b> 31'10	0°13'44
evening set	11203 Dec 04 08:20	5°₹55'15		minimum elong	11210 Jan 19 00:43	5° <b>≈</b> 31'10	0°14'18
Č				behind sun begin	11210 Jan 18 21:42	5° <b>≈</b> 30'42	
conjunction	11203 Dec 20 23:26	6° <b>ප</b> 56'46	0°39'51	behind sun end	11210 Jan 19 03:44	5° <b>≈</b> 31'38	
minimum elong	11203 Dec 20 23:26	6° <b>ප</b> 56'46	0°40'31	morning rise	11210 Feb 04 13:09	6° <b>≈</b> 32'57	
max. Earth dist.	11203 Dec 20 10:10	6° <b>る</b> 54'42	19.44085 AU	retrograde	11210 May 08 08:42	9° <b>≈</b> 57'25	
morning rise	11204 Jan 06 14:04	7° <b>る</b> 58'13		opposition	11210 Jul 21 05:29	7° <b>≈</b> 54'08	0°12'39
retrograde	11204 Apr 09 01:32	11° <b>ට</b> 22'02		min. Earth dist.	11210 Jul 21 17:17	7° <b>≈</b> 52'51	17.30264 AU
opposition	11204 Jun 22 08:48	9° <b>ට</b> 18'24	0°42'25	direct	11210 Oct 04 16:10	5° <b>≈</b> 48'28	
min. Earth dist.	11204 Jun 22 19:19	9° <b>ට</b> 17'15	17.42281 AU	evening set	11211 Jan 07 15:34	9° <b>≈</b> 16'44	
direct	11204 Sep 05 09:36	7° <b>る</b> 13'32					
evening set	11204 Dec 08 11:39	10° <b>る</b> 38'26		conjunction	11211 Jan 24 05:23	10° <b>≈</b> 18'45	0°08'50
-				minimum elong	11211 Jan 24 05:23	10° <b>≈</b> 18'45	0°09'22
conjunction	11204 Dec 25 02:55	11° <b>පි</b> 40'06	0°36'03	behind sun begin	11211 Jan 23 23:46	10° <b>≈</b> 17'53	
minimum elong	11204 Dec 25 02:55	11° <b>පි</b> 40'06	0°36'43	behind sun end	11211 Jan 24 11:00	10° <b>≈</b> 19'37	
max. Earth dist.	11204 Dec 24 14:23	11° <b>⋜</b> 38′09	19.40581 AU	max. Earth dist.	11211 Jan 23 16:09	10° <b>≈</b> 16'41	19.30017 AU
morning rise	11205 Jan 10 17:14	12° <b>පි</b> 41'40		morning rise	11211 Feb 09 17:05	11° <b>≈</b> 20′29	
retrograde	11205 Apr 14 01:12	16° <b>පි</b> 05'46		retrograde	11211 May 13 10:06	14° <b>≈</b> 44'47	
opposition	11205 Jun 27 07:08	14° <b>පි</b> 02'10	0°38'02	opposition	11211 Jul 26 06:01	12° <b>≈</b> 41'35	0°07'08
min. Earth dist.	11205 Jun 27 18:23		17.39047 AU	min. Earth dist.	11211 Jul 26 17:13		17.29910 AU
direct	11205 Sep 10 08:57	11°る57'09		direct	11211 Oct 09 18:49	10° <b>≈</b> 35'50	
evening set	11205 Dec 13 15:38	15° <b>る</b> 22'50		evening set	11212 Jan 12 20:23	14° <b>≈</b> 04'17	
J		•		J	11212 Jan 27 17:53	15° <b>≈</b>	
conjunction	11205 Dec 30 06:44	16° <b>පි</b> 24'37	0°31'59				
minimum elong	11205 Dec 30 06:44	16° <b>පි</b> 24'37		conjunction	11212 Jan 29 09:35	15° <b>≈</b> 06'15	0°03'53
5							

max. Earth dist.

morning rise

11217 Feb 21 15:10

11217 Mar 10 08:22

8°**)** 54'16 19.37802 AU

9° **X** 56'44

min. Earth dist.

direct

11223 Sep 21 08:12

11223 Dec 06 19:43

9°Υ16'23 17.67880 AU

7°Υ12'38

evening set	11224 Mar 10 17:05	10° <b>Ƴ</b> 36'13		max. Earth dist.	11230 Apr 23 10:01 11230 May 09 03:11	8° <b>8</b> 29'44 9° <b>8</b> 26'33	20.08249 AU
conjunction	11224 Mar 26 20:37	11° <b>Y</b> ′35'42	0°47'44	retrograde	11230 May 09 03.11 11230 Aug 08 15:04	12° <b>8</b> 39'44	
minimum elong	11224 Mar 26 20:37	11° <b>γ</b> 35'42		opposition	11230 Aug 08 13:04 11230 Oct 23 03:00	12 <b>8</b> 39'41	-1°06'04
max. Earth dist.	11224 Mar 26 17:54		19.70736 AU	min. Earth dist.	11230 Oct 22 23:03	_	18.11648 AU
morning rise	11224 Mar 20 17:34 11224 Apr 11 21:24	12° <b>Υ</b> 34'48	17.70750710	direct	11231 Jan 08 05:49	8° <b>8</b> 37'37	10.11040710
retrograde	11224 Jul 12 12:57	15° <b>Υ</b> '52'37		evening set	11231 Apr 11 23:04	11° <b>8</b> 53'52	
opposition	11224 Sep 25 03:21	13° <b>Y</b> 51'37	-0°54'40	evening set	11231 Apr 11 23.04	11 033 32	
min. Earth dist.	11224 Sep 25 05:53		17.73649 AU	conjunction	11231 Apr 27 20:52	12° <b>8</b> 51'09	-0°59'45
direct	11224 Dec 10 19:50	11° <b>Y</b> '47'51	17.750.5110	minimum elong	11231 Apr 27 20:52	• • • • • • • • • • • • • • • • • • • •	
evening set	11225 Mar 15 14:15	15° <b>Y</b> 10'31		max. Earth dist.	11231 Apr 28 00:52	_	20.15057 AU
8				morning rise	11231 May 13 16:59	13° <b>8</b> 48'11	
conjunction	11225 Mar 31 16:44	16° <b>Ƴ</b> 09'40	-0°50'29	S	11231 Jun 04 01:54	15° <b>8</b>	
minimum elong	11225 Mar 31 16:44	16° <b>Y</b> ′09'40	0°50'36	retrograde	11231 Aug 13 04:40	17° <b>8</b> 00'40	
max. Earth dist.	11225 Mar 31 13:43	16° <b>Y</b> ′09'12	19.76596 AU	opposition	11231 Oct 27 20:44	15° <b>8</b> 00'50	-1°06'35
morning rise	11225 Apr 16 16:51	17° <b>Y</b> ′08′28		min. Earth dist.	11231 Oct 27 16:13	15° <b>8</b> 01'18	18.18518 AU
retrograde	11225 Jul 17 07:12	20° <b>Y</b> °25'32			11231 Oct 28 04:47	15° <b>₹</b> 8	
opposition	11225 Sep 30 00:53	18° <b>Y</b> ′24'42	-0°57'32	direct	11232 Jan 12 23:04	12° <b>8</b> 59'08	
min. Earth dist.	11225 Sep 30 02:23	18° <b>Y</b> ′24'33	17.79596 AU		11232 Mar 24 06:42	15° <b>8</b>	
direct	11225 Dec 15 19:21	16° <b>Ƴ</b> 21'12		evening set	11232 Apr 15 13:11	16° <b>8</b> 14'18	
evening set	11226 Mar 20 10:09	19° <b>Y</b> '42'51		•	•		
				conjunction	11232 May 01 10:27	17° <b>8</b> 11'18	-1°00'04
conjunction	11226 Apr 05 11:55	20° <b>Y</b> ′41′42	-0°52'54	minimum elong	11232 May 01 10:27	17° <b>8</b> 11'18	1°00'31
minimum elong	11226 Apr 05 11:54	20° <b>Y</b> ′41′42	0°53'05	max. Earth dist.	11232 May 01 15:59	17° <b>8</b> 12'08	20.21964 AU
max. Earth dist.	11226 Apr 05 10:52	20° <b>Y</b> 41'33	19.82614 AU	morning rise	11232 May 17 06:01	18° <b>8</b> 08'04	
morning rise	11226 Apr 21 11:05	21° <b>Y</b> '40'12		retrograde	11232 Aug 16 19:02	21° <b>8</b> 19'50	
retrograde	11226 Jul 22 00:47	24° <b>Y</b> 56'30		opposition	11232 Oct 31 13:39	19° <b>8</b> 20'16	-1°06'44
opposition	11226 Oct 04 21:51	22° <b>Y</b> ′55'49	-1°00'01	min. Earth dist.	11232 Oct 31 07:29	19° <b>8</b> 20'54	18.25432 AU
min. Earth dist.	11226 Oct 04 22:34	22° <b>Y</b> ′55'44	17.85681 AU	direct	11233 Jan 16 17:15	17° <b>8</b> 18'58	
direct	11226 Dec 20 18:57	20° <b>Y</b> ′52'35		evening set	11233 Apr 20 02:34	20° <b>8</b> 33'05	
evening set	11227 Mar 25 05:15	24° <b>Y</b> 13'11					
				conjunction	11233 May 05 23:10	21° <b>8</b> 29'47	-1°00'03
conjunction	11227 Apr 10 06:01	25° <b>Y</b> 11'42		minimum elong	11233 May 05 23:10	21° <b>8</b> 29'47	1°00'33
minimum elong	11227 Apr 10 06:00	25° <b>Y</b> 11'42		max. Earth dist.	11233 May 06 05:19	21° <b>8</b> 30'43	20.28878 AU
max. Earth dist.	11227 Apr 10 05:01		19.88777 AU	morning rise	11233 May 21 18:21	22° <b>8</b> 26'19	
morning rise	11227 Apr 26 04:36	26° <b>Y</b> ′09'55		retrograde	11233 Aug 21 07:37	25° <b>8</b> 37'25	
retrograde	11227 Jul 26 16:49	29° <b>Y</b> 25′25		opposition	11233 Nov 05 06:16	23° <b>8</b> 38'05	
opposition	11227 Oct 09 18:03	27° <b>Y</b> °24'52		min. Earth dist.	11233 Nov 04 23:57		18.32337 AU
min. Earth dist.	11227 Oct 09 17:55		17.91932 AU	direct	11234 Jan 21 08:37	21° <b>8</b> 37'11	
direct	11227 Dec 25 16:26	25° <b>Y</b> 21′52		evening set	11234 Apr 24 14:54	24° <b>8</b> 50'14	
evening set	11228 Mar 28 23:06	28° <b>Y</b> 41'24					
				conjunction	11234 May 10 11:02	25° <b>8</b> 46'41	
conjunction	11228 Apr 13 23:14	29° <b>Y</b> ′39′37		minimum elong	11234 May 10 11:02	25° <b>8</b> 46'41	1°00'13
minimum elong	11228 Apr 13 23:14	29° <b>Y</b> ′39'37		max. Earth dist.	11234 May 10 18:24		20.35747 AU
max. Earth dist.	11228 Apr 14 00:15		19.95102 AU	morning rise	11234 May 26 05:50	26° <b>8</b> 42'57	
	11228 Apr 19 12:40	0° <b>8</b>		retrograde	11234 Aug 25 21:22	29° <b>8</b> 53'25	
morning rise	11228 Apr 29 21:02	0° <b>8</b> 37'31		opposition	11234 Nov 09 22:10	27° <b>8</b> 54'19	
retrograde	11228 Jul 30 09:08	3° <b>8</b> 52'13	1002150	min. Earth dist.	11234 Nov 09 14:14		18.39143 AU
opposition	11228 Oct 13 13:39	1° <b>8</b> 51'49		direct	11235 Jan 26 01:29	25° <b>8</b> 53'49	
min. Earth dist.	11228 Oct 13 12:16	_	17.98329 AU	evening set	11235 Apr 29 02:41	29° <b>8</b> 05'50	
r.	11228 Dec 08 18:09	30°₹ <b>Υ</b>			11225 14 14 22 17	00 <b>T</b> 02101	0050101
direct	11228 Dec 29 14:30	29° <b>Y</b> 49'06		conjunction	11235 May 14 22:17	0° <b>Ⅱ</b> 02'01	
	11229 Jan 19 02:44	0°8		minimum elong	11235 May 14 22:17	0° <b>Ⅱ</b> 02'01 0° <b>Ⅱ</b>	0 3934
evening set	11229 Apr 02 16:09	3° <b>8</b> 07'32		may Earth dist	11235 May 14 08:48		20.42474 AU
agnismation	11220 Apr. 10 15:20	40¥05126	0050104	max. Earth dist.	11235 May 15 06:12	0° <b>Д</b> 03 11	20.42474 AU
conjunction	11229 Apr 18 15:20	4° <b>8</b> 05'26 4° <b>8</b> 05'25		morning rise	11235 May 30 16:48	0°Щ58'03 4°Щ07'54	
minimum elong max. Earth dist.	11229 Apr 18 15:20 11229 Apr 18 16:46		20.01583 AU	retrograde opposition	11235 Aug 30 08:43 11235 Nov 14 13:26	2° <b>П</b> 09'01	1004'50
max. Earth dist.	11229 Apr 18 16:46 11229 May 04 12:34	5° <b>8</b> 03'02	20.01303 AU	min. Earth dist.	11235 Nov 14 13:26 11235 Nov 14 05:50		18.45789 AU
retrograde	11229 May 04 12:34 11229 Aug 03 23:45	8° <b>8</b> 16'58		direct	11236 Jan 30 14:55	2° <b>П</b> 0948 0° <b>П</b> 08'53	10. <del>1</del> 3/07 AU
opposition	11229 Aug 03 23:43 11229 Oct 18 08:40	6° <b>8</b> 16'44	-1°05'09	evening set	11236 Jan 30 14:55 11236 May 02 13:40	0°Щ0853 3°Щ19'53	
min. Earth dist.	11229 Oct 18 06:40 11229 Oct 18 06:25		18.04909 AU	evening set	11230 Iviay 02 13.40	J 11733	
direct	11229 Oct 18 00:23 11230 Jan 03 09:47	4° <b>8</b> 14'18	10.07707 AU	conjunction	11236 May 18 08:53	4° <b>Ⅱ</b> 15'49	-0°58'02
evening set	11230 Apr 07 08:05	7° <b>8</b> 31'39		minimum elong	11236 May 18 08:53	4° <b>Ⅱ</b> 15'49	
Johning Sot	11230 11pi 07 00.03	, 03139		max. Earth dist.	11236 May 18 17:28		20.49011 AU
conjunction	11230 Apr 23 06:39	8° <b>8</b> 29'14	-0°59'05	morning rise	11236 Jun 03 03:09	5° <b>Ⅱ</b> 11'38	20/011710
minimum elong	11230 Apr 23 06:39	8° <b>8</b> 29'14		retrograde	11236 Sep 02 22:00	8° <b>Ⅲ</b> 20'52	
Ciong	11250 11p1 25 00.57	0 02717	3 23 20	- va o Brade	1.230 Sep 02 22.00	0 11000	

opposition	11236 Nov 18 04:08	6° <b>Ⅲ</b> 22'11	-1°03'41	conjunction	11243 Jun 16 16:39	3° <b>5</b> 09'45	-0°43'17
min. Earth dist.	11236 Nov 17 19:05		18.52192 AU	minimum elong	11243 Jun 16 16:40	3°909'45	
direct	11237 Feb 03 06:39	4° <b>Ⅲ</b> 22'24		max. Earth dist.	11243 Jun 17 04:42	3°ഇ11'30	20.85780 AU
evening set	11237 May 06 23:56	7° <b>Ⅱ</b> 32'24		morning rise	11243 Jul 02 10:52	4°9504'23	
				retrograde	11243 Oct 02 16:52	7° <b>©</b> 10′08	
conjunction	11237 May 22 18:44	8° <b>Ⅲ</b> 28′05	-0°56'44	opposition	11243 Dec 18 18:58	5° <b>©</b> 11'56	-0°46'15
minimum elong	11237 May 22 18:44	8° <b>Ⅲ</b> 28′05	0°57'20	min. Earth dist.	11243 Dec 18 07:46	5° <b>©</b> 13'03	18.87850 AU
max. Earth dist.	11237 May 23 03:47	8° <b>Ⅲ</b> 29′26	20.55265 AU	direct	11244 Mar 04 17:31	3°513'46	
morning rise	11237 Jun 07 12:48	9°Ⅲ23'42		evening set	11244 Jun 04 04:35	6°917'30	
retrograde	11237 Sep 07 08:01	12° <b>Ⅲ</b> 32′22					
opposition	11237 Nov 22 18:28	10° <b>Ⅲ</b> 33'51	-1°02'03	conjunction	11244 Jun 19 22:29	7°911'56	-0°40'13
min. Earth dist.	11237 Nov 22 09:56	10° <b>Ⅱ</b> 34'43	18.58301 AU	minimum elong	11244 Jun 19 22:29	7° <b>©</b> 11'56	0°40'54
direct	11238 Feb 07 18:52	8° <b>Ⅱ</b> 34'23		max. Earth dist.	11244 Jun 20 10:42		20.89815 AU
evening set	11238 May 11 09:28	11° <b>Ⅱ</b> 43′23		morning rise	11244 Jul 05 16:56	8° <b>5</b> 06'27	
				retrograde	11244 Oct 06 01:37	11°911'54	
conjunction	11238 May 27 04:00	12° <b>Ⅱ</b> 38'51		opposition	11244 Dec 22 05:10	9° <b>©</b> 13'45	
minimum elong	11238 May 27 04:00	12° <b>Ⅲ</b> 38'51		min. Earth dist.	11244 Dec 21 16:24	9° <b>©</b> 15'01	18.91734 AU
max. Earth dist.	11238 May 27 13:24		20.61213 AU	direct	11245 Mar 09 03:27	7°915'47	
morning rise	11238 Jun 11 21:57	13° <b>Ⅲ</b> 34'15		evening set	11245 Jun 08 09:53	10°ഇ18'51	
retrograde	11238 Sep 11 20:19	16° <b>Ⅱ</b> 42'22					
opposition	11238 Nov 27 07:58	14° <b>Ⅱ</b> 43'57		conjunction	11245 Jun 24 03:52	11° <b>©</b> 13'10	
min. Earth dist.	11238 Nov 26 22:02		18.64069 AU	minimum elong	11245 Jun 24 03:52	11° <b>©</b> 13'10	
direct	11239 Feb 12 09:40	12° <b>∐</b> 44'46		max. Earth dist.	11245 Jun 24 16:54		20.93542 AU
evening set	11239 May 15 18:15	15° <b>Ⅱ</b> 52'47		morning rise	11245 Jul 09 22:30	12° <b>©</b> 07'36	
		_		retrograde	11245 Oct 10 08:35	15° <b>©</b> 12'47	
conjunction	11239 May 31 12:34	16° <b>∐</b> 48′03		opposition	11245 Dec 26 15:11	13° <b>©</b> 14'41	
minimum elong	11239 May 31 12:34	16° <b>∐</b> 48′03	0°53'55	min. Earth dist.	11245 Dec 26 03:00		18.95306 AU
max. Earth dist.	11239 May 31 22:26		20.66795 AU	direct	11246 Mar 13 11:24	11° <b>©</b> 16'57	
morning rise	11239 Jun 16 06:29	17° <b>Ⅱ</b> 43'17		evening set	11246 Jun 12 14:58	14° <b>©</b> 19'23	
retrograde	11239 Sep 16 05:20	20° <b>Ⅱ</b> 50'51					
opposition	11239 Dec 01 21:02	18° <b>Ⅱ</b> 52'31		conjunction	11246 Jun 28 09:03	15° <b>©</b> 13'37	
min. Earth dist.	11239 Dec 01 11:49		18.69471 AU	minimum elong	11246 Jun 28 09:04	15°913'37	
direct	11240 Feb 16 20:40	16° <b>Ⅱ</b> 53'34		max. Earth dist.	11246 Jun 28 22:05		20.96955 AU
evening set	11240 May 19 02:22	20° <b>Ⅱ</b> 00′38		morning rise	11246 Jul 14 04:04	16°907'58	
	11240 1 02 20 20	200 T 5 5142	0051100	retrograde	11246 Oct 14 17:23	19°512'58	10.00525 ATT
conjunction	11240 Jun 03 20:30	20° <b>Ⅱ</b> 55'42		min. Earth dist.	11246 Dec 30 11:05		18.98535 AU
minimum elong	11240 Jun 03 20:30	20° <b>Ⅱ</b> 55'42	0°51'48 20.72021 AU	opposition	11246 Dec 31 00:31	17°9514'55	-0°35′13
max. Earth dist.	11240 Jun 04 06:35 11240 Jun 19 14:26	20°Щ5/11 21°Щ50'45	20.72021 AU	direct	11247 Mar 17 19:53	15° <b>©</b> 17'23 18° <b>©</b> 19'17	
morning rise		21°Щ30'43 24°Щ57'47		evening set	11247 Jun 16 19:49	18-201911/	
retrograde opposition	11240 Sep 19 15:45 11240 Dec 05 09:15	24 <b>II</b> 3747 22° <b>II</b> 59'31	0055122	conjunction	11247 Jul 02 14:06	19° <b>©</b> 13'26	0020101
min. Earth dist.	11240 Dec 03 09:13		18.74514 AU	minimum elong	11247 Jul 02 14:06	19 \$313 20 19 \$313'26	
direct	11240 Dec 04 22:30 11241 Feb 20 10:39	23 <b>H</b> 00 33	16.74314 AU	max. Earth dist.	11247 Jul 02 14:00 11247 Jul 03 03:41		20.99987 AU
evening set	11241 May 23 09:48	24° <b>I</b> 106'55		morning rise	11247 Jul 18 09:24	20°907'44	20.99987 AU
evening set	11241 Way 25 07.40	24 100 33		retrograde	11247 Oct 18 23:59	23°912'34	
conjunction	11241 Jun 08 03:48	25° <b>Ⅲ</b> 01'48	-0°48'45	opposition	11247 Oct 16 25:59 11248 Jan 04 09:48	21°914'35	-0°31'12
minimum elong	11241 Jun 08 03:48	25° <b>I</b> I01'48		min. Earth dist.	11248 Jan 03 21:15		19.01366 AU
max. Earth dist.	11241 Jun 08 14:37		20.76896 AU	direct	11248 Mar 21 02:47	19°917'15	17.01300710
morning rise	11241 Jun 23 21:45	25° <b>I</b> I56'41		evening set	11248 Jun 20 00:28	22°9518'40	
retrograde	11241 Sep 24 00:08	29° <b>Ⅲ</b> 03'16		844			
opposition	11241 Dec 09 21:11	27° <b>I</b> 105'00	-0°52'35	conjunction	11248 Jul 05 18:54	23°9512'46	-0°26'20
min. Earth dist.	11241 Dec 09 11:04		18.79242 AU	minimum elong	11248 Jul 05 18:55	23°9512'46	
direct	11242 Feb 24 20:33	25° <b>Ⅱ</b> 06'27		max. Earth dist.	11248 Jul 06 08:11		21.02611 AU
evening set	11242 May 27 16:29	28° <b>Ⅱ</b> 11'43		morning rise	11248 Jul 21 14:36	24°907'01	
				retrograde	11248 Oct 22 09:03	27°911'46	
conjunction	11242 Jun 12 10:24	29° <b>Ⅱ</b> 06'26	-0°46'07	opposition	11249 Jan 07 18:41	25° <b>©</b> 13'49	-0°27'02
minimum elong	11242 Jun 12 10:24	29° <b>Ⅱ</b> 06'26		min. Earth dist.	11249 Jan 07 05:11		19.03760 AU
max. Earth dist.	11242 Jun 12 21:37		20.81483 AU	direct	11249 Mar 25 10:39	23°916'40	_
	11242 Jun 27 20:12	0°9		evening set	11249 Jun 24 05:04	26°9517'40	
morning rise	11242 Jun 28 04:30	0° <b>ട്</b> 01'11		C			
retrograde	11242 Sep 28 09:20	3° <b>5</b> 07'19		conjunction	11249 Jul 09 23:46	27° <b>©</b> 11'43	-0°22'31
opposition	11242 Dec 14 08:20	1° <b>©</b> 09'05	-0°49'32	minimum elong	11249 Jul 09 23:46	27° <b>©</b> 11'43	
min. Earth dist.	11242 Dec 13 20:35		18.83684 AU	max. Earth dist.	11249 Jul 10 13:25		21.04762 AU
	11243 Jan 13 23:15	30°R∏		morning rise	11249 Jul 25 19:48	28° <b>©</b> 05'57	
direct	11243 Mar 01 08:39	29° <b>Ⅱ</b> 10'43		-	11249 Sep 02 00:08	$0^{\circ}\Omega$	
	11243 Apr 15 01:29	0ಂಣ		retrograde	11249 Oct 26 15:19	1° <b>Ω</b> 10'40	
evening set	11243 May 31 22:46	2° <b>©</b> 15'11			11249 Dec 22 19:14	30° <b>₹</b> 5	
-	-						

annagition	11250 Ion 12 02:21	29° <b>©</b> 12'44	0922145	aaniumatian	11255 Aug 02 04:52	21° <b>Ω</b> 00'59	0002100
opposition	11250 Jan 12 03:31			conjunction	11255 Aug 03 04:53		
min. Earth dist.	11250 Jan 11 15:09		19.05667 AU	minimum elong	11255 Aug 03 04:52	21°Ω00'59	0°01'32
direct	11250 Mar 29 16:51	27° <b>©</b> 15'43		behind sun begin	11255 Aug 02 22:17	21°Ω00'04	
	11250 Jun 23 11:36	$0^{\circ}\Omega$		behind sun end	11255 Aug 03 11:28	21° <b>Ω</b> 01'54	
evening set	11250 Jun 28 09:33	0° <b>Ω</b> 16′22		max. Earth dist.	11255 Aug 03 16:32		21.06435 AU
		_		morning rise	11255 Aug 19 04:00	21° <b>Ω</b> 55'26	
conjunction	11250 Jul 14 04:31	1° <b>Ω</b> 10′23		retrograde	11255 Nov 20 12:05	25° <b>Ω</b> 00′38	
minimum elong	11250 Jul 14 04:31	1° <b>Ω</b> 10′23		opposition	11256 Feb 06 03:45	23° <b>Ω</b> 02′07	
max. Earth dist.	11250 Jul 14 17:32	1° <b>Ω</b> 12'15	21.06415 AU	min. Earth dist.	11256 Feb 05 17:23	23° <b>Ω</b> 03'10	19.05795 AU
morning rise	11250 Jul 30 01:04	2° <b>Ω</b> 04'37		direct	11256 Apr 22 06:28	21° <b>Ω</b> 05′08	
retrograde	11250 Oct 31 00:33	5° <b>Ω</b> 09'19		evening set	11256 Jul 21 12:23	24° <b>Ω</b> 04'46	
opposition	11251 Jan 16 11:59	3° <b>Ω</b> 11′23	-0°18'22				
min. Earth dist.	11251 Jan 15 23:02	3° <b>Ω</b> 12'41	19.07042 AU	conjunction	11256 Aug 06 09:50	24° <b>Ω</b> 58'59	0°06'11
direct	11251 Apr 03 00:16	1° <b>Ω</b> 14'28		minimum elong	11256 Aug 06 09:50	24° <b>Ω</b> 58'59	0°05'44
evening set	11251 Jul 02 14:06	4° <b>Ω</b> 14'49		behind sun begin	11256 Aug 06 03:31	24° <b>Ω</b> 58′06	
•				behind sun end	11256 Aug 06 16:09	24° <b>Ω</b> 59'52	
conjunction	11251 Jul 18 09:25	5° <b>Ω</b> 08'50	-0°14'36	max. Earth dist.	11256 Aug 06 20:50	25° <b>Ω</b> 00'32	21.05054 AU
minimum elong	11251 Jul 18 09:25	5° <b>Ω</b> 08'50	0°15'11	morning rise	11256 Aug 22 09:37	25° <b>Ω</b> 53'31	
behind sun begin	11251 Jul 18 07:06	5°Ω08'31		retrograde	11256 Nov 23 20:33	28°Ω58'59	
behind sun end	11251 Jul 18 11:45	5° <b>Ω</b> 09'10		opposition	11257 Feb 09 11:21	27° <b>Ω</b> 00'19	0°09'02
max. Earth dist.	11251 Jul 18 22:26		21.07496 AU	min. Earth dist.	11257 Feb 09 00:23		19.04231 AU
morning rise	11251 Aug 03 06:21	6°Ω03'05	21.07470 AO	direct	11257 Apr 26 12:37	25°Ω03'15	17.04231 AC
-	_	9° <b>Ω</b> 07'49			11257 Apr 26 12.37 11257 Jul 25 17:13	$28^{\circ}\Omega 02'58$	
retrograde	11251 Nov 04 06:26		0012152	evening set	1125/Jul 25 1/:15	28-860258	
opposition	11252 Jan 20 20:17	7° <b>Ω</b> 09'50			11057 4 10 15 12	200 0 5711 6	0010110
min. Earth dist.	11252 Jan 20 08:41		19.07836 AU	conjunction	11257 Aug 10 15:13	28° <b>Ω</b> 57'16	
direct	11252 Apr 06 06:13	5° <b>Ω</b> 12'59		minimum elong	11257 Aug 10 15:13	28° <b>Ω</b> 57'16	0°09'54
evening set	11252 Jul 05 18:37	8° <b>Ω</b> 13'04		behind sun begin	11257 Aug 10 09:51	28° <b>Ω</b> 56'31	
		_		behind sun end	11257 Aug 10 20:36	28° <b>Ω</b> 58'01	
conjunction	11252 Jul 21 14:17	9° <b>Ω</b> 07'05		max. Earth dist.	11257 Aug 11 02:29		21.03303 AU
minimum elong	11252 Jul 21 14:17	9° <b>Ω</b> 07'05	0°11'06	morning rise	11257 Aug 26 15:32	29° <b>Ω</b> 51'54	
behind sun begin	11252 Jul 21 09:21	9° <b>Ω</b> 06′24			11257 Aug 29 01:46	0° <b>™</b>	
behind sun end	11252 Jul 21 19:13	9° <b>Ω</b> 07'47		retrograde	11257 Nov 28 03:35	2° m 57'39	
max. Earth dist.	11252 Jul 22 02:24	9° <b>Ω</b> 08'49	21.08015 AU	opposition	11258 Feb 13 18:59	0° <b>m</b> 58′51	0°13'35
morning rise	11252 Aug 06 11:47	10° <b>Ω</b> 01'22		min. Earth dist.	11258 Feb 13 08:58	0° Mp 59′52	19.02309 AU
retrograde	11252 Nov 07 15:15	13° <b>Ω</b> 06′09			11258 Mar 11 07:49	$30^{\circ}$ R $\Omega$	
opposition	11253 Jan 24 04:25	11° <b>Ω</b> 08'05	-0°09'21	direct	11258 Apr 30 17:04	29° <b>Ω</b> 01'45	
min. Earth dist.	11253 Jan 23 16:19	11° <b>Ω</b> 09'17	19.08068 AU		11258 Jun 18 06:14	0° <b>m</b> y	
direct	11253 Apr 10 13:14	9° <b>Ω</b> 11'14		evening set	11258 Jul 29 22:18	2° m 01'35	
evening set	11253 Jul 09 22:54	12° <b>Ω</b> 11'07		C		•	
8				conjunction	11258 Aug 14 20:50	2° m 55'59	0°14'22
conjunction	11253 Jul 25 19:00	13° <b>Ω</b> 05'09	-0°06'26	minimum elong	11258 Aug 14 20:50	2° m 55'59	
minimum elong	11253 Jul 25 19:01	13°Ω05'09		behind sun begin	11258 Aug 14 17:29	2° m 55'31	
behind sun begin	11253 Jul 25 12:54	13° <b>Ω</b> 04'18	0 0037	behind sun end	11258 Aug 15 00:11	2° m) 56'27	
behind sun end	11253 Jul 26 01:07	13° <b>Ω</b> 06'00		max. Earth dist.	11258 Aug 15 07:16	-•	21.01218 AU
max. Earth dist.	11253 Jul 26 07:16		21.07969 AU	morning rise	11258 Aug 30 21:53	3° Mp 50'45	21.01210 AC
morning rise	11253 Jul 20 07:10	13° <b>£</b> 59′28	21.07707 AO	retrograde	11258 Dec 02 13:06	6° M) 56'52	
morning rise	11253 Aug 10 17:00 11253 Aug 29 14:04	15 <b>∂(</b> 3928		opposition	11259 Feb 18 02:36	4° Mp 57'55	0010105
ratra ara da	11253 Aug 29 14:04 11253 Nov 11 21:20	13 <b>δ</b> ε 17° <b>Ω</b> 04'22		min. Earth dist.			19.00048 AU
retrograde			0904146		11259 Feb 17 16:13	-	19.00048 AU
opposition	11254 Jan 28 12:27	15° <b>Ω</b> 06'09		direct	11259 May 04 23:14	3° Mp 00'45	
min. Earth dist.	11254 Jan 28 01:34		19.07762 AU	evening set	11259 Aug 03 03:46	6° Mp 00′48	
	11254 Jan 31 02:04	15°R <b>Ω</b>					
direct	11254 Apr 14 18:58	13° <b>Ω</b> 09'17		conjunction	11259 Aug 19 02:54	6° m 55′20	
	11254 Jun 22 09:15	15° <b>Ω</b>		minimum elong	11259 Aug 19 02:54	6° Mp 55′20	
evening set	11254 Jul 14 03:21	16° <b>Ω</b> 09'00		max. Earth dist.	11259 Aug 19 13:30		20.98773 AU
				morning rise	11259 Sep 04 04:29	7° <b>m</b> 50'13	
conjunction	11254 Jul 29 23:53	17° <b>Ω</b> 03'05	-0°02'17	retrograde	11259 Dec 06 20:53	10° <b>m</b> 56'44	
minimum elong			0°02'48	opposition	11260 Feb 22 10:23	8° <b>m</b> 57'41	0°22'30
behind sun begin	11254 Jul 29 23:53	17° <b>Ω</b> 03'05	0 02 40				
_		17° <b>Ω</b> 02'10	0 02 40	min. Earth dist.	11260 Feb 22 01:03		18.97428 AU
behind sun end	11254 Jul 29 23:53		0 02 40				18.97428 AU
_	11254 Jul 29 23:53 11254 Jul 29 17:19	17° <b>Ω</b> 02'10 17° <b>Ω</b> 04'00	21.07431 AU	min. Earth dist.	11260 Feb 22 01:03	8° m 58'37	18.97428 AU
behind sun end	11254 Jul 29 23:53 11254 Jul 29 17:19 11254 Jul 30 06:27	17° <b>Ω</b> 02'10 17° <b>Ω</b> 04'00		min. Earth dist. direct	11260 Feb 22 01:03 11260 May 08 03:45	8° <b>т</b> 58'37 7° <b>т</b> 00'27	18.97428 AU
behind sun end max. Earth dist.	11254 Jul 29 23:53 11254 Jul 29 17:19 11254 Jul 30 06:27 11254 Jul 30 11:21	17° <b>Ω</b> 02'10 17° <b>Ω</b> 04'00 17° <b>Ω</b> 04'43		min. Earth dist. direct	11260 Feb 22 01:03 11260 May 08 03:45	8° <b>т</b> 58'37 7° <b>т</b> 00'27	18.97428 AU 0°22'20
behind sun end max. Earth dist. morning rise	11254 Jul 29 23:53 11254 Jul 29 17:19 11254 Jul 30 06:27 11254 Jul 30 11:21 11254 Aug 14 22:31	17° <b>Ω</b> 02'10 17° <b>Ω</b> 04'00 17° <b>Ω</b> 04'43 17° <b>Ω</b> 57'28	21.07431 AU	min. Earth dist. direct evening set	11260 Feb 22 01:03 11260 May 08 03:45 11260 Aug 06 09:41	8° m 58'37 7° m 00'27 10° m 00'46	0°22'20
behind sun end max. Earth dist. morning rise retrograde	11254 Jul 29 23:53 11254 Jul 29 17:19 11254 Jul 30 06:27 11254 Jul 30 11:21 11254 Aug 14 22:31 11254 Nov 16 05:33	17°\$\O2'10\) 17°\$\O4'00\) 17°\$\O4'43\) 17°\$\O57'28\) 21°\$\O2'29\) 19°\$\O4'07	21.07431 AU	min. Earth dist. direct evening set conjunction	11260 Feb 22 01:03 11260 May 08 03:45 11260 Aug 06 09:41 11260 Aug 22 09:21	8° m 58'37 7° m 00'27 10° m 00'46 10° m 55'26 10° m 55'26	0°22'20
behind sun end max. Earth dist. morning rise retrograde opposition	11254 Jul 29 23:53 11254 Jul 29 17:19 11254 Jul 30 06:27 11254 Jul 30 11:21 11254 Aug 14 22:31 11254 Nov 16 05:33 11255 Feb 01 20:02	17°\$\O2'10\) 17°\$\O4'00\) 17°\$\O4'43\) 17°\$\O57'28\) 21°\$\O2'29\) 19°\$\O4'07	21.07431 AU -0°00'10	min. Earth dist. direct evening set  conjunction minimum elong	11260 Feb 22 01:03 11260 May 08 03:45 11260 Aug 06 09:41 11260 Aug 22 09:21 11260 Aug 22 09:21 11260 Aug 22 18:59	8° m 58'37 7° m 00'27 10° m 00'46 10° m 55'26 10° m 55'26 10° m 56'49	0°22'20 0°22'03
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist.	11254 Jul 29 23:53 11254 Jul 29 17:19 11254 Jul 30 06:27 11254 Jul 30 11:21 11254 Aug 14 22:31 11254 Nov 16 05:33 11255 Feb 01 20:02 11255 Feb 01 08:41	17° \$\O2'10\) 17° \$\O4'00\) 17° \$\O4'43\) 17° \$\O5'728\) 21° \$\O2'29\) 19° \$\O4'07\) 19° \$\O5'15\)	21.07431 AU -0°00'10	min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	11260 Feb 22 01:03 11260 May 08 03:45 11260 Aug 06 09:41 11260 Aug 22 09:21 11260 Aug 22 09:21	8° m 58'37 7° m 00'27 10° m 00'46 10° m 55'26 10° m 55'26	0°22'20 0°22'03
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. asc. node	11254 Jul 29 23:53 11254 Jul 29 17:19 11254 Jul 30 06:27 11254 Jul 30 11:21 11254 Aug 14 22:31 11254 Nov 16 05:33 11255 Feb 01 20:02 11255 Feb 01 08:41 11255 Feb 14 11:33	17° \$\O2'10\) 17° \$\O4'00\) 17° \$\O4'43\) 17° \$\O5'728\) 21° \$\O2'29\) 19° \$\O4'07\) 19° \$\O5'15\) 18° \$\O34'05\)	21.07431 AU -0°00'10	min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	11260 Feb 22 01:03 11260 May 08 03:45 11260 Aug 06 09:41 11260 Aug 22 09:21 11260 Aug 22 09:21 11260 Aug 22 18:59 11260 Sep 07 11:40	8° m 58'37 7° m 00'27 10° m 00'46 10° m 55'26 10° m 56'49 11° m 50'29	0°22'20 0°22'03 20.95991 AU

min. Earth dist. direct evening set	11261 Feb 25 08:56 11261 May 12 10:04 11261 Aug 10 15:59	12° m, 59'13 11° m, 00'58 14° m, 01'38	18.94468 AU	conjunction minimum elong max. Earth dist. morning rise	11267 Sep 21 00:03 11267 Sep 21 00:03 11267 Sep 21 03:51 11267 Oct 07 06:56	9° \$\oldsymbol{\Omega}26'22 9° \$\oldsymbol{\Omega}26'22 9° \$\oldsymbol{\Omega}26'55 10° \$\oldsymbol{\Omega}22'49	0°46'14 0°46'18 20.65044 AU
conjunction minimum elong	11261 Aug 26 16:21 11261 Aug 26 16:21	14° m/56'28 14° m/56'28	0°26'11 0°25'56	retrograde opposition	11268 Jan 09 13:31 11268 Mar 26 10:28	13° <b>△</b> 33'49 11° <b>△</b> 33'17	0°52'44
max. Earth dist.	11261 Aug 27 02:04		20.92838 AU	min. Earth dist.	11268 Mar 26 07:38		18.62111 AU
morning rise	11261 Sep 11 19:15	15° <b>m</b> ) 51'41		direct	11268 Jun 09 13:01	9° <b>£</b> 34'37	
retrograde	11261 Dec 14 16:38	18° <b>m</b> 59'09		evening set	11268 Sep 08 06:36	12° <b>≏</b> 39'17	
opposition	11262 Mar 02 02:41	16°M 59'51	0°31'01				
min. Earth dist.	11262 Mar 01 18:28	17° Mp 00'41	18.91120 AU	conjunction	11268 Sep 24 11:34	13° <b>£</b> 35'35	0°48'54
direct	11262 May 16 15:32	15° Mp 02'27		minimum elong	11268 Sep 24 11:33	13° <b>Ω</b> 35'35	0°49'00
evening set	11262 Aug 14 23:05	18° Mp 03'33		max. Earth dist. morning rise	11268 Sep 24 13:36 11268 Oct 10 19:15	13° <b>2</b> 35′53	20.59120 AU
conjunction	11262 Aug 31 00:01	18° <b>m</b> 58'33	0°29'55	retrograde	11269 Jan 13 03:30	17° <b>£</b> 43'58	
minimum elong	11262 Aug 31 00:00	18° m 58'32	0°29'44	opposition	11269 Mar 30 20:57	15° <b>Ω</b> 43'10	0°55'34
max. Earth dist.	11262 Aug 31 08:19	18° <b>m</b> 59'44	20.89299 AU	min. Earth dist.	11269 Mar 30 18:46	15° <b>≏</b> 43'23	18.56083 AU
morning rise	11262 Sep 16 03:41	19° <b>m</b> 53'56		direct	11269 Jun 13 22:24	13° <b>≏</b> 44'11	
retrograde	11262 Dec 19 03:47	23° <b>m</b> 01'56		evening set	11269 Sep 12 18:08	16° <b>≏</b> 49'39	
opposition	11263 Mar 06 11:01	21°Mp02'30	0°35'05				
min. Earth dist.	11263 Mar 06 03:12		18.87373 AU	conjunction	11269 Sep 28 23:57	17° <b>≏</b> 46'13	0°51'19
direct	11263 May 20 21:58	19° <b>m</b> 04'59		minimum elong	11269 Sep 28 23:56	17° <b>≏</b> 46'13	0°51'29
evening set	11263 Aug 19 06:46	22° Mp 06'34		max. Earth dist.	11269 Sep 29 02:06		20.52987 AU
	11262 8 04 00-24	220m.01145	0022121	morning rise	11269 Oct 15 08:09	18° <b>£</b> 43'11	
conjunction minimum elong	11263 Sep 04 08:24 11263 Sep 04 08:23	23° m 01'45 23° m 01'45	0°33'31 0°33'22	retrograde opposition	11270 Jan 17 16:16 11270 Apr 04 07:52	21° <b>♀</b> 55'32 19° <b>♀</b> 54'29	0°58'07
max. Earth dist.	11263 Sep 04 08.25	~	20.85321 AU	min. Earth dist.	11270 Apr 04 07:32 11270 Apr 04 06:27	19 <b>=</b> 54 29 19° <b>£</b> 54'38	18.49870 AU
morning rise	11263 Sep 04 10:25 11263 Sep 20 12:36	23° m 57'20	20.03321 AC	direct	11270 Apr 04 00:27	17° <b>⊆</b> 55'13	10.47070 AC
retrograde	11263 Dec 23 14:09	27° m) 05'54		evening set	11270 Sep 17 06:38	21° <b>≏</b> 01'31	
opposition	11264 Mar 09 19:55	25° m/06'18	0°39'00	Č	1		
min. Earth dist.	11264 Mar 09 13:29	25° m 06'58	18.83170 AU	conjunction	11270 Oct 03 13:00	21° <b>≏</b> 58'22	0°53'28
direct	11264 May 24 04:51	23° <b>m</b> 08'39		minimum elong	11270 Oct 03 13:00	21° <b>≏</b> 58′21	0°53'40
evening set	11264 Aug 22 15:01	$26^\circ$ Mp $10^\circ$ 45		max. Earth dist.	11270 Oct 03 13:21	21° <b>≏</b> 58'25	20.46713 AU
				morning rise	11270 Oct 19 21:59	22° <b>ჲ</b> 55'35	
conjunction	11264 Sep 07 17:13	27° Mp 06'08	0°36'58	retrograde	11271 Jan 22 07:25	26° <b>£</b> 08'40	
minimum elong	11264 Sep 07 17:12	27° Mp 06'08	0°36'52	opposition	11271 Apr 08 19:08	24° <b>£</b> 07'23	1°00'23
max. Earth dist.	11264 Sep 07 23:29		20.80896 AU	min. Earth dist.	11271 Apr 08 18:30 11271 Jun 22 18:09	24° <b>♀</b> 07'27 22° <b>♀</b> 07'48	18.43548 AU
morning rise	11264 Sep 23 22:12 11264 Nov 02 07:20	28°№01'55 0° <u>മ</u>		direct evening set	11271 Jun 22 18:09 11271 Sep 21 19:49	25° <b>£</b> 07'48	
retrograde	11264 Dec 27 02:12	0 <del>교</del> 1° <b>요</b> 11'05		evening set	112/1 Sep 21 19.49	23 = 13 02	
retrograde	11265 Feb 21 17:31	30°R.M)		conjunction	11271 Oct 08 03:01	26° <b>£</b> 12'10	0°55'21
opposition	11265 Mar 14 05:09	29° m) 11'17	0°42'45	minimum elong	11271 Oct 08 03:01	26° <b>♀</b> 12'10	
min. Earth dist.	11265 Mar 13 23:15	29° m 11'53	18.78514 AU	max. Earth dist.	11271 Oct 08 03:37	26° <b>≏</b> 12'15	20.40342 AU
direct	11265 May 28 12:03	$27^{\circ}$ Mp $13'25$		morning rise	11271 Oct 24 12:26	27° <b>ჲ</b> 09'39	
	11265 Aug 22 04:54	0∘ <b>⊽</b>			11271 Dec 27 08:46	$0^{\circ}$ M	
evening set	11265 Aug 26 23:58	0° <b>≏</b> 16′06		retrograde	11272 Jan 26 21:26	0°M23'29	
					11272 Feb 26 17:51	30° <b>₹</b> Ω	
conjunction	11265 Sep 12 02:56	1° <b>£</b> 11'42		opposition	11272 Apr 12 07:05	28° <b>£</b> 22'00	
minimum elong max. Earth dist.	11265 Sep 12 02:56 11265 Sep 12 08:47	1° <b>Ω</b> 11'42	20.76006 AU	min. Earth dist. direct	11272 Apr 12 06:56 11272 Jun 26 04:33	28° <b>£</b> 22'01 26° <b>£</b> 22'09	18.37146 AU
morning rise	11265 Sep 28 08:29	2° <b>2</b> 07'42	20.70000 AU	evening set	11272 Sep 25 09:50	20 <b>=</b> 22 09 29° <b>⊆</b> 30'19	
retrograde	11265 Dec 31 13:05	5° <b>₽</b> 17'26		evening set	11272 Oct 03 21:44	0°M	
opposition	11266 Mar 18 14:35	3° <b>₽</b> 17'25	0°46'18				
min. Earth dist.	11266 Mar 18 10:02	3° <b>₽</b> 17'53	18.73406 AU	conjunction	11272 Oct 11 17:37	0°M27'43	0°56'56
direct	11266 Jun 01 20:08	1° <b>≏</b> 19'19		minimum elong	11272 Oct 11 17:36	0°M27'43	0°57'13
evening set	11266 Aug 31 09:35	4° <b>ഫ</b> 22'36		max. Earth dist.	11272 Oct 11 16:25	0°M27'33	20.33928 AU
				morning rise	11272 Oct 28 03:49	1°M25'30	
conjunction	11266 Sep 16 13:11	5° <b>≏</b> 18'26	0°43'21	retrograde	11273 Jan 30 13:34	4°M40'06	
minimum elong	11266 Sep 16 13:10	5° <b>Ω</b> 18'25	0°43'20	opposition	11273 Apr 16 19:39	2°M38'26	1°03'56
max. Earth dist.	11266 Sep 16 17:06		20.70706 AU	min. Earth dist.	11273 Apr 16 20:23		18.30724 AU
morning rise	11266 Oct 02 19:33	6° <b>Ω</b> 14'39		direct	11273 Jun 30 16:18	0°M38'18	
retrograde opposition	11267 Jan 05 01:57 11267 Mar 23 00:21	9° <b>£</b> 25'01 7° <b>£</b> 24'44	0°49'38	evening set	11273 Sep 30 00:49	3°M47'29	
min. Earth dist.	11267 Mar 22 20:30		18.67920 AU	conjunction	11273 Oct 16 09:28	4°M45'12	0°58'12
direct	11267 Jun 06 04:24	5° <b>£</b> 26'21	, 20 110	minimum elong	11273 Oct 16 09:28	4°M45'12	
evening set	11267 Sep 04 19:41	8° <b>△</b> 30'18		max. Earth dist.	11273 Oct 16 08:34		20.27492 AU
Č				morning rise	11273 Nov 01 20:06	5°M43'15	

· · · · · · · · · · · ·	11200 Dec 10 00:24	20=222151	0942112		11202 M 02 17.50	(% - 1 9 5 0	
conjunction	11286 Dec 16 06:34	3° <b>る</b> 23'51	0°43'55	retrograde	11293 May 03 17:50	6°≈18'59 4°≈15'44	0017142
minimum elong	11286 Dec 16 06:34	3°る23'52		opposition	11293 Jul 16 15:35		
max. Earth dist.	11286 Dec 15 18:13		19.49122 AU	min. Earth dist.	11293 Jul 17 03:31		17.31475 AU
morning rise	11287 Jan 01 21:08	4°₹25'07		direct	11293 Sep 30 00:29	2°≈10'15	
retrograde	11287 Apr 05 11:04	7°る48'28		evening set	11294 Jan 02 20:39	5° <b>≈</b> 38'11	
opposition	11287 Jun 18 21:29	5° <b>⋜</b> 44'53					
min. Earth dist.	11287 Jun 19 08:21		17.47088 AU	conjunction	11294 Jan 19 10:46	6° <b>≈</b> 40′12	0°13'23
direct	11287 Sep 01 19:18	3° <b>る</b> 40'17		minimum elong	11294 Jan 19 10:46	6° <b>≈</b> 40′12	0°13'59
evening set	11287 Dec 04 18:20	7° <b>る</b> 04'10		behind sun begin	11294 Jan 19 07:28	6° <b>≈</b> 39'42	
				behind sun end	11294 Jan 19 14:04	6° <b>≈</b> 40'42	
conjunction	11287 Dec 21 09:22	8° <b>そ</b> 05'38	0°39'40	max. Earth dist.	11294 Jan 18 20:03	6° <b>≈</b> 37'54	19.30892 AU
minimum elong	11287 Dec 21 09:22	8° <b>そ</b> 05'38	0°40'21	morning rise	11294 Feb 04 23:13	7° <b>≈</b> 42'00	
max. Earth dist.	11287 Dec 20 20:22	8° <b>る</b> 03'37	19.45151 AU	retrograde	11294 May 08 18:57	11° <b>≈</b> 06′29	
morning rise	11288 Jan 06 23:58	9° <b>る</b> 07'03		opposition	11294 Jul 21 15:57	9° <b>≈</b> 03'15	0°12'16
retrograde	11288 Apr 09 12:02	12° <b>る</b> 30'46		min. Earth dist.	11294 Jul 22 03:57	9° <b>≈</b> 01'57	17.30452 AU
opposition	11288 Jun 22 19:09	10° <b>る</b> 27'12	0°42'11	direct	11294 Oct 05 01:59	6° <b>≈</b> 57'38	
min. Earth dist.	11288 Jun 23 05:25	10° <b>る</b> 26'05	17.43362 AU	evening set	11295 Jan 08 01:25	10° <b>≈</b> 25'53	
direct	11288 Sep 05 19:35	8° <b>පි</b> 22'26					
evening set	11288 Dec 08 21:38	11° <b>る</b> 47'12		conjunction	11295 Jan 24 15:15	11° <b>≈</b> 27'54	0°08'29
C				minimum elong	11295 Jan 24 15:15	11° <b>≈</b> 27'54	0°09'03
conjunction	11288 Dec 25 12:51	12° <b>る</b> 48'50	0°35'50	behind sun begin	11295 Jan 24 09:32	11° <b>≈</b> 27'02	
minimum elong	11288 Dec 25 12:51	12° <b>る</b> 48'50	0°36'31	behind sun end	11295 Jan 24 20:59	11° <b>≈</b> 28'47	
max. Earth dist.	11288 Dec 25 00:15		19.41661 AU	max. Earth dist.	11295 Jan 24 01:50		19.30114 AU
morning rise	11289 Jan 11 03:09	13° <b>る</b> 50'22	19.11001710	morning rise	11295 Feb 10 02:59	12° <b>≈</b> 29'39	17.50111110
retrograde	11289 Apr 14 11:53	17°る14'24		morning rise	11295 Mar 30 04:06	15° <b>≈</b>	
opposition	11289 Jun 27 17:35	17 <b>3</b> 1424	0°37'47	retrograde	11295 May 13 21:13	15°≈54'00	
min. Earth dist.	11289 Jun 28 04:53		17.40105 AU	retrograde	11295 Jun 28 16:05	15 ≈54 00 15°R≈	
	11289 Sep 10 18:17	13° <b>る</b> 05'59	17.40103 AU	opposition	11295 Jul 26 16:27	13 k≈ 13°≈50'49	0°06'43
direct	11289 Sep 10 18.17 11289 Dec 14 01:40	15 <b>さ</b> 05 39		min. Earth dist.			17.29923 AU
evening set	11289 Dec 14 01.40	10 03134			11295 Jul 27 03:59		17.29923 AU
	11200 D 20 16 42	170=2000	0021144	direct	11295 Oct 10 05:15	11° <b>≈</b> 45'06	
conjunction	11289 Dec 30 16:42	17°る33'20	0°31'44		11296 Jan 09 13:19	15° <b>≈</b>	
minimum elong	11289 Dec 30 16:42	17°る33'20	0°32'25	evening set	11296 Jan 13 06:20	15° <b>≈</b> 13'33	
max. Earth dist.	11289 Dec 30 02:55		19.38637 AU				
morning rise	11290 Jan 16 06:53	18° <b>る</b> 34'59		conjunction	11296 Jan 29 19:31	16°≈15'31	0°03'31
retrograde	11290 Apr 19 13:25	21° <b>ろ</b> 59'16		minimum elong	11296 Jan 29 19:32	16° <b>≈</b> 15'31	0°04'02
opposition	11290 Jul 02 16:21	19°₹55'50	0°33'06	behind sun begin	11296 Jan 29 12:53	16° <b>≈</b> 14'30	
min. Earth dist.	11290 Jul 03 03:24		17.37303 AU	behind sun end	11296 Jan 30 02:11	16° <b>≈</b> 16′32	
direct	11290 Sep 15 20:06	17° <b>る</b> 50'45		max. Earth dist.	11296 Jan 29 05:28	16° <b>≈</b> 13'19	19.29857 AU
evening set	11290 Dec 19 06:00	21° <b>る</b> 17'06		morning rise	11296 Feb 15 06:44	17° <b>≈</b> 17'12	
				retrograde	11296 May 17 20:39	20° <b>≈</b> 41'21	
conjunction	11291 Jan 04 21:03	22° <b>る</b> 18'58	0°27'25	opposition	11296 Jul 30 16:57	18° <b>≈</b> 38'11	0°01'08
minimum elong	11291 Jan 04 21:03	22° <b>る</b> 18'58	0°28'04	min. Earth dist.	11296 Jul 31 04:42	18° <b>≈</b> 36′54	17.29949 AU
max. Earth dist.	11291 Jan 04 07:57	22° <b>る</b> 16'56	19.36044 AU	desc. node	11296 Oct 10 18:13	16° <b>≈</b> 32'42	
morning rise	11291 Jan 21 10:43	23° <b>る</b> 20'41		direct	11296 Oct 14 06:50	16° <b>≈</b> 32'22	
retrograde	11291 Apr 24 14:15	26° <b>る</b> 45'08		evening set	11297 Jan 17 10:53	20° <b>≈</b> 00'56	
opposition	11291 Jul 07 15:49	24° <b>₹</b> 41'47	0°28'10				
min. Earth dist.	11291 Jul 08 03:33	24° <b>る</b> 40'30	17.34924 AU	conjunction	11297 Feb 02 23:40	21° <b>≈</b> 02'50	-0°01'37
direct	11291 Sep 20 20:36	22° <b>る</b> 36'35		minimum elong	11297 Feb 02 23:40	21° <b>≈</b> 02'50	0°01'07
evening set	11291 Dec 24 10:38	26° <b>る</b> 03'32		behind sun begin	11297 Feb 02 16:57	21° <b>≈</b> 01'48	
max. Earth dist.	11292 Jan 09 10:55	27° <b>පි</b> 03'14	19.33888 AU	behind sun end	11297 Feb 03 06:24	21° <b>≈</b> 03'52	
				max. Earth dist.	11297 Feb 02 10:53	21° <b>≈</b> 00'50	19.30166 AU
conjunction	11292 Jan 10 01:21	27° <b>る</b> 05'29	0°22'54	morning rise	11297 Feb 19 10:06	22° <b>≈</b> 04'24	
minimum elong	11292 Jan 10 01:21	27° <b>る</b> 05'29	0°23'33	retrograde	11297 May 22 22:08	25° <b>≈</b> 28'16	
morning rise	11292 Jan 26 14:50	28° <b>ප්</b> 07'16		opposition	11297 Aug 04 17:32	23° <b>≈</b> 25'09	-0°04'27
	11292 Feb 29 09:25	0° <b>≈</b>		min. Earth dist.	11297 Aug 05 04:13		17.30538 AU
retrograde	11292 Apr 28 15:55	1° <b>≈</b> 31'49		direct	11297 Oct 19 11:21	21° <b>≈</b> 19'17	17.50050110
retrograde	11292 Jun 29 12:24	30°R₹		evening set	11298 Jan 22 15:13	24° <b>≈</b> 47'50	
opposition	11292 Jul 11 15:35	29°පි28'30	0°23'01	2,0,,,,,,	-12,0 van 22 10.10		
min. Earth dist.	11292 Jul 12 03:15		17.32985 AU	conjunction	11298 Feb 08 03:14	25° <b>≈</b> 49'38	0.06,38
direct	11292 Sep 24 22:39	29 <b>3</b> 2713	17.52765 AU	minimum elong	11298 Feb 08 03:14 11298 Feb 08 03:13	25°≈49'38	
direct	11292 Sep 24 22:39 11292 Dec 14 10:14	2/° <b>6</b> 23′08 0° <b>≈</b>		· ·		25°≈49'38 25°≈48'39	0 00 11
oveniet				behind sun begin	11298 Feb 07 20:51		
evening set	11292 Dec 28 15:31	0° <b>≈</b> 50'39		behind sun end	11298 Feb 08 09:36	25°≈50'36	10.21054 ***
	11202 I 14 06 00	1050100	0010112	max. Earth dist.	11298 Feb 07 14:33		19.31054 AU
conjunction	11293 Jan 14 06:09	1°≈52'39	0°18'13	morning rise	11298 Feb 24 12:54	26°≈51'05	
minimum elong	11293 Jan 14 06:09	1°≈52'39	0°18'49	. 1	11298 May 05 00:04	0° <b>)</b> (1412€	
max. Earth dist.	11293 Jan 13 16:38		19.32161 AU	retrograde	11298 May 27 20:19	0° <b>)</b> 14'36	
morning rise	11293 Jan 30 18:59	2° <b>≈</b> 54'26			11298 Jun 19 23:53	30°R≈	

opposition	11298 Aug 09 18:13	28° <b>≈</b> 11'33	-0°10'00	conjunction	11305 Mar 14 13:49	28° <b>) €</b> 54'36	-0°38'05
min. Earth dist.	11298 Aug 10 04:59	28° <b>≈</b> 10′23	17.31748 AU	minimum elong	11305 Mar 14 13:48	28° <b>)</b> 54′36	0°38'00
direct	11298 Oct 24 13:29	26° <b>≈</b> 05'40		max. Earth dist.	11305 Mar 14 07:17	28° <b>∺</b> 53'35	19.53877 AU
evening set	11299 Jan 27 19:02	29° <b>≈</b> 34'08		morning rise	11305 Mar 30 17:27	29° <b>∺</b> 54'35	
	11299 Feb 03 18:21	0° <b>)</b> €			11305 Apr 01 05:07	$0^{\circ}\mathbf{\Upsilon}$	
				retrograde	11305 Jun 30 12:07	3° <b>Ƴ</b> 14'35	
conjunction	11299 Feb 13 06:25	0° <b>)</b> 35'47	-0°11'33	opposition	11305 Sep 12 18:56	1° <b>Y</b> 12'54	-0°44'27
minimum elong	11299 Feb 13 06:24	0° <b>)</b> 35'47	0°11'09	min. Earth dist.	11305 Sep 12 23:22	1° <b>Y</b> 12'26	17.56351 AU
behind sun begin	11299 Feb 13 01:27	0° <b>)</b> 35′01			11305 Oct 13 03:27	30° <b>₹</b>	
behind sun end	11299 Feb 13 11:22	0° <b>)</b> 36'33		direct	11305 Nov 28 06:36	29° <b>₩</b> 08'16	
max. Earth dist.	11299 Feb 12 18:58		19.32585 AU		11306 Jan 12 03:10	0°Υ	
morning rise	11299 Mar 01 15:17	1° <b>¥</b> 37'04	19.52000 110	evening set	11306 Mar 03 07:17	2° <b>Υ</b> 33'36	
retrograde	11299 Jun 01 21:00	5° <b>₩</b> 00'13		evening sec	1150011111 05 07.17	2 . 33330	
opposition	11299 Aug 14 18:42	2° <b>\</b> 57'16	-0°15'28	conjunction	11306 Mar 19 12:41	3° <b>Ƴ</b> 33'41	-0°41'44
min. Earth dist.	11299 Aug 15 03:46		17.33596 AU	minimum elong	11306 Mar 19 12:40	3° <b>Υ</b> 33'41	
direct	11299 Aug 13 03:40 11299 Oct 29 18:22	0° <b>¥</b> 51′27	17.33390 AU	max. Earth dist.	11306 Mar 19 08:00		19.58884 AU
evening set	11300 Feb 01 22:25	4° <b>)</b> 19'42		morning rise		4° <b>Υ</b> 33'23	19.30004 AU
evening set	11300 Feb 01 22.23	4 X 1942		Č	11306 Apr 04 15:14	4 1 33 23 7° <b>Υ</b> 52'44	
	11200 F 1 10 00 02	50\(01110	001 (102	retrograde	11306 Jul 05 08:02		0040101
conjunction	11300 Feb 18 09:03	5° <b>)</b> €21'12		opposition	11306 Sep 17 18:08	5°Υ51'16	
minimum elong	11300 Feb 18 09:02	5° <b>∺</b> 21'12		min. Earth dist.	11306 Sep 17 22:36		17.61498 AU
max. Earth dist.	11300 Feb 17 22:27		19.34755 AU	direct	11306 Dec 03 06:35	3° <b>Y</b> 46'54	
morning rise	11300 Mar 06 17:04	6° <b>)</b> 22′19		evening set	11307 Mar 08 06:18	7° <b>Ƴ</b> 11'25	
retrograde	11300 Jun 06 18:45	9° <b>)</b> 45′02					
opposition	11300 Aug 19 19:15	7° <b>)</b> 42′14		conjunction	11307 Mar 24 10:38	8° <b>Ƴ</b> 11'13	
min. Earth dist.	11300 Aug 20 04:24	7° <b>₩</b> 41'15	17.36090 AU	minimum elong	11307 Mar 24 10:38	8° <b>Ƴ</b> 11'13	0°45'07
direct	11300 Nov 03 19:58	5° <b>)</b> (36′31		max. Earth dist.	11307 Mar 24 05:39	8° <b>Ƴ</b> 10′27	19.64164 AU
evening set	11301 Feb 07 01:25	9° <b>)</b> 04′30		morning rise	11307 Apr 09 12:29	9° <b>Ƴ</b> 10'39	
				retrograde	11307 Jul 10 05:10	12° <b>Y</b> 29′18	
conjunction	11301 Feb 23 11:14	10° <b>₩</b> 05'49	-0°21'06	opposition	11307 Sep 22 16:37	10° <b>Y</b> 28′01	-0°51'55
minimum elong	11301 Feb 23 11:13	10° <b>)</b> 05'49	0°20'49	min. Earth dist.	11307 Sep 22 19:39	10° <b>Ƴ</b> 27'42	17.66902 AU
max. Earth dist.	11301 Feb 23 01:28	10° <b>) (</b> 04'17	19.37564 AU	direct	11307 Dec 08 07:23	8° <b>Ƴ</b> 23'54	
morning rise	11301 Mar 11 18:26	11° <b>)</b> 06'44		evening set	11308 Mar 12 04:17	11° <b>Ƴ</b> 47'35	
retrograde	11301 Jun 11 19:05	14° <b>)</b> 28'59		C			
opposition	11301 Aug 24 19:29	12° <b>)</b> 26'24	-0°26'00	conjunction	11308 Mar 28 07:54	12° <b>Y</b> 47'05	-0°48'09
min. Earth dist.	11301 Aug 25 02:47		17.39187 AU	minimum elong	11308 Mar 28 07:53	12° <b>Y</b> 47'05	
direct	11301 Nov 09 00:03	10° <b>₩</b> 20'50	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	max. Earth dist.	11308 Mar 28 04:48		19.69671 AU
evening set	11302 Feb 12 03:53	13° <b>)</b> (48'29		morning rise	11308 Apr 13 08:45	13° <b>Y</b> 46'13	17.07071110
evening sec	11302100 12 03.33	15 /(102)		retrograde	11308 Jul 13 23:51	17° <b>Υ</b> 04'08	
conjunction	11302 Feb 28 12:53	14° <b>)</b> 49'35	0°25'30	opposition	11308 Sep 26 14:46	15° <b>Υ</b> 03'03	0°55'07
minimum elong	11302 Feb 28 12:53	14° <b>X</b> 49'35		min. Earth dist.	11308 Sep 26 17:37		17.72507 AU
Č	11302 Feb 28 12:33		19.40944 AU	direct	11308 Sep 20 17.37 11308 Dec 12 06:42	$13^{\circ}$ $7^{\circ}$ $02^{\circ}$ $43^{\circ}$ $12^{\circ}$ $9^{\circ}$ $11^{\circ}$	17.72307 AU
max. Earth dist.			19.40944 AU				
morning rise	11302 Mar 16 19:07	15° <b>¥</b> 50′18		evening set	11309 Mar 17 01:28	16° <b>Y</b> 21′56	
retrograde	11302 Jun 16 16:52	19° <b>)</b> 12'03	0020150		11200 4 02 04 00	1700001100	0050153
opposition	11302 Aug 29 19:49	17° <b>)</b> (09'41		conjunction	11309 Apr 02 04:00	17° <b>Υ</b> 21'08	
min. Earth dist.	11302 Aug 30 03:18		17.42837 AU	minimum elong	11309 Apr 02 04:00	17° <b>Y</b> 21′08	
direct	11302 Nov 14 01:02	15° <b>)</b> €04'20		max. Earth dist.	11309 Apr 02 00:40		19.75380 AU
evening set	11303 Feb 17 05:39	18° <b>∺</b> 31'31		morning rise	11309 Apr 18 04:11	18° <b>Y</b> 19'59	
				retrograde	11309 Jul 18 19:13	21° <b>Y</b> 37′09	
conjunction	11303 Mar 05 13:42	19° <b>)</b> 32′23		opposition	11309 Oct 01 12:16	19° <b>Ƴ</b> 36′13	
minimum elong	11303 Mar 05 13:42	19° <b>)</b> 32′23		min. Earth dist.	11309 Oct 01 13:51		17.78320 AU
max. Earth dist.	11303 Mar 05 05:44		19.44846 AU	direct	11309 Dec 17 06:39	17° <b>Y</b> 32'36	
morning rise	11303 Mar 21 19:10	20° <b>)</b> 32′53		evening set	11310 Mar 21 21:28	20° <b>Y</b> 54'22	
retrograde	11303 Jun 21 16:30	23° <b>¥</b> 54′06					
opposition	11303 Sep 03 19:47	21° <b>¥</b> 51'58	-0°35'44	conjunction	11310 Apr 06 23:18	21° <b>Y</b> 53′15	-0°53'16
min. Earth dist.	11303 Sep 04 01:31	21° <b>∺</b> 51'21	17.46962 AU	minimum elong	11310 Apr 06 23:17	21° <b>Y</b> 53'15	0°53'28
direct	11303 Nov 19 04:03	19° <b>) √</b> 46′50		max. Earth dist.	11310 Apr 06 22:06	21° <b>Y</b> 53'04	19.81291 AU
evening set	11304 Feb 22 06:54	23° <b>∺</b> 13′29		morning rise	11310 Apr 22 22:33	22° <b>Y</b> 51'48	
				retrograde	11310 Jul 23 12:02	26° <b>Ƴ</b> 08'12	
conjunction	11304 Mar 09 14:10	24° <b>) (</b> 14′07	-0°34'10	opposition	11310 Oct 06 09:14	24° <b>Y</b> 07'25	-1°00'26
minimum elong	11304 Mar 09 14:10	24° <b>)</b> 14′07		min. Earth dist.	11310 Oct 06 10:06		17.84328 AU
max. Earth dist.	11304 Mar 09 07:48		19.49173 AU	direct	11310 Dec 22 05:22	22° <b>Y</b> 04'04	
morning rise	11304 Mar 25 18:35	25° <b>)</b> 14′22		evening set	11311 Mar 26 16:27	25° <b>Y</b> 24'48	
retrograde	11304 Jun 25 13:31	28° <b>)</b> 34'59			<del>-</del> ,	_	
opposition	11304 Sep 07 19:31	26° <b>)</b> (33'05	-0°40'14	conjunction	11311 Apr 11 17:18	26° <b>Ƴ</b> 23'22	-0°55'19
min. Earth dist.	11304 Sep 08 01:33		17.51485 AU	minimum elong	11311 Apr 11 17:18	26° <b>Y</b> 23'22	
direct	11304 Nov 23 04:31	24° <b>\</b> 28'12		max. Earth dist.	11311 Apr 11 16:13		19.87408 AU
evening set	11305 Feb 26 07:36	27° <b>)</b> 54'14		morning rise	11311 Apr 17 16:13	27° <b>Υ</b> 21'37	->.0, 100 110
	11500100 20 07.50	_, ,(J¬1¬			11511 11p1 2/ 10.00	_, 1213/	

	11311 Jun 20 18:44	0° <b>8</b>		opposition	11317 Nov 06 18:11	24° <b>8</b> 52'30	-1°06'38
retrograde	11311 Jul 28 05:30	0° <b>8</b> 37'15		min. Earth dist.	11317 Nov 06 11:57	24° <b>8</b> 53'08	18.31308 AU
	11311 Sep 04 16:02	30° <b>₹</b> Υ		direct	11318 Jan 22 20:03	22° <b>8</b> 51'35	
opposition	11311 Oct 11 05:32	28° <b>Y</b> 36'36	-1°02'30	evening set	11318 Apr 26 03:02	26° <b>8</b> 04'50	
min. Earth dist.	11311 Oct 11 05:12	28° <b>Y</b> 36'38	17.90562 AU				
direct	11311 Dec 27 03:41	26° <b>Y</b> 33'31		conjunction	11318 May 11 23:14	27° <b>8</b> 01'18	-0°59'48
evening set	11312 Mar 30 10:26	29° <b>Y</b> 53'12		minimum elong	11318 May 11 23:14	27° <b>8</b> 01'18	1°00'21
	11312 Apr 01 07:58	$9^{\circ}$ 8		max. Earth dist.	11318 May 12 06:38	27° <b>8</b> 02'25	20.34707 AU
				morning rise	11318 May 27 18:05	27° <b>8</b> 57'38	
conjunction	11312 Apr 15 10:37	0° <b>8</b> 51'27	-0°57'01		11318 Jul 06 08:35	$\Pi$ °0	
minimum elong	11312 Apr 15 10:36	0° <b>8</b> 51'27	0°57'18	retrograde	11318 Aug 27 09:39	1° <b>Ⅱ</b> 08'15	
max. Earth dist.	11312 Apr 15 11:43	0° <b>8</b> 51'37	19.93745 AU		11318 Oct 21 00:09	30°₽ <b>႘</b>	
morning rise	11312 May 01 08:27	1° <b>8</b> 49'24		opposition	11318 Nov 11 10:09	29° <b>8</b> 09'08	-1°06'00
retrograde	11312 Jul 31 20:40	5° <b>8</b> 04'16		min. Earth dist.	11318 Nov 11 02:30	29° <b>8</b> 09'55	18.38089 AU
opposition	11312 Oct 15 01:05	3° <b>8</b> 03'47	-1°04'10	direct	11319 Jan 27 12:58	27° <b>8</b> 08'36	
min. Earth dist.	11312 Oct 14 23:34	3° <b>8</b> 03'57	17.97005 AU		11319 Apr 24 14:30	$\Pi$ $^{\circ}0$	
direct	11312 Dec 31 01:19	1° <b>8</b> 01'01		evening set	11319 Apr 30 14:56	0°Ⅱ20'46	
evening set	11313 Apr 04 03:35	4° <b>8</b> 19'37					
				conjunction	11319 May 16 10:36	1° <b>Ⅱ</b> 16′59	
conjunction	11313 Apr 20 02:50	5° <b>8</b> 17'34		minimum elong	11319 May 16 10:36	1° <b>Ⅱ</b> 16'59	
minimum elong	11313 Apr 20 02:50	5° <b>8</b> 17'34		max. Earth dist.	11319 May 16 18:17	1° <b>Ⅱ</b> 18′08	20.41396 AU
max. Earth dist.	11313 Apr 20 04:18		20.00301 AU	morning rise	11319 Jun 01 05:12	2° <b>Ⅱ</b> 13'04	
morning rise	11313 May 06 00:08	6° <b>8</b> 15'13		retrograde	11319 Aug 31 21:38	5° <b>Ⅱ</b> 23'03	
retrograde	11313 Aug 05 12:14	9° <b>8</b> 29'20		opposition	11319 Nov 16 01:41	3° <b>Ⅱ</b> 24′07	
opposition	11313 Oct 19 20:12	7° <b>8</b> 29'04		min. Earth dist.	11319 Nov 15 18:15		18.44682 AU
min. Earth dist.	11313 Oct 19 17:36	_	18.03675 AU	direct	11320 Feb 01 03:19	1° <b>Ⅱ</b> 23'55	
direct	11314 Jan 04 21:07	5° <b>8</b> 26'37		evening set	11320 May 04 02:02	4° <b>Ⅱ</b> 35′03	
evening set	11314 Apr 08 19:29	8° <b>8</b> 44'09					
				conjunction	11320 May 19 21:20	5° <b>Ⅱ</b> 31′01	-0°58'03
conjunction	11314 Apr 24 18:08	9° <b>8</b> 41'48		minimum elong	11320 May 19 21:20	5° <b>Ⅱ</b> 31′01	
minimum elong	11314 Apr 24 18:08	9° <b>8</b> 41'48		max. Earth dist.	11320 May 20 05:49		20.47865 AU
max. Earth dist.	11314 Apr 24 21:43	_	20.07062 AU	morning rise	11320 Jun 04 15:38	6° <b>Ⅱ</b> 26'52	
morning rise	11314 May 10 14:45	10° <b>8</b> 39'10		retrograde	11320 Sep 04 09:59	9° <b>Ⅱ</b> 36'12	
retrograde	11314 Aug 10 02:55	13° <b>8</b> 52'33		opposition	11320 Nov 19 16:28	7° <b>Ⅱ</b> 37'27	
opposition	11314 Oct 24 14:36	11° <b>8</b> 52'30		min. Earth dist.	11320 Nov 19 07:39		18.51008 AU
min. Earth dist.	11314 Oct 24 10:32		18.10504 AU	direct	11321 Feb 04 18:58	5° <b>∏</b> 37'34	
direct	11315 Jan 09 17:06	9° <b>8</b> 50'26		evening set	11321 May 08 12:29	8° <b>Ⅱ</b> 47'40	
evening set	11315 Apr 13 10:42	13° <b>8</b> 06'54					
				conjunction	11321 May 24 07:22	9° <b>∏</b> 43'23	
conjunction	11315 Apr 29 08:34	14° <b>8</b> 04'14		minimum elong	11321 May 24 07:22	9° <b>Ⅱ</b> 43'23	
minimum elong	11315 Apr 29 08:33	14° <b>8</b> 04'14		max. Earth dist.	11321 May 24 16:06		20.54045 AU
max. Earth dist.	11315 Apr 29 12:36		20.13953 AU	morning rise	11321 Jun 09 01:30	10° <b>Ⅲ</b> 39'01	
	11315 May 14 19:44	15° <b>8</b>		retrograde	11321 Sep 08 20:46	13° <b>∐</b> 47'46	
morning rise	11315 May 15 04:45	15° <b>8</b> 01'20		opposition	11321 Nov 24 06:53	11° <b>Ⅱ</b> 49'07	
retrograde	11315 Aug 14 16:55	18° <b>8</b> 14'00		min. Earth dist.	11321 Nov 23 22:28		18.57046 AU
opposition	11315 Oct 29 08:17	16° <b>8</b> 14'12		direct	11322 Feb 09 08:11	9° <b>∏</b> 49'32	
min. Earth dist.	11315 Oct 29 03:40		18.17445 AU	evening set	11322 May 12 21:57	12° <b>Ⅱ</b> 58'35	
	11315 Nov 30 12:37	15°R <b>8</b>			11000 16 00 1606	120H5.005	0055105
direct	11316 Jan 14 10:07	14° <b>8</b> 12'30		conjunction	11322 May 28 16:36	13° <b>Ⅱ</b> 54'05	
	11316 Feb 26 22:15	15° <b>8</b>		minimum elong	11322 May 28 16:36	13° <b>∏</b> 54'05	
evening set	11316 Apr 17 00:58	17° <b>8</b> 27'54		max. Earth dist.	11322 May 29 01:56		20.59928 AU
	11216 14 02 22 10	100 40 415 7	1000115	morning rise	11322 Jun 13 10:38	14° <b>∏</b> 49'31	
conjunction	11316 May 02 22:19	18° <b>8</b> 24'57		retrograde	11322 Sep 13 08:05	17° <b>∏</b> 57'40	1000103
minimum elong	11316 May 02 22:19	18° <b>8</b> 24'57		opposition	11322 Nov 28 20:27	15° <b>Ⅱ</b> 59'07	
max. Earth dist.	11316 May 03 04:01		20.20916 AU	min. Earth dist.	11322 Nov 28 10:37		18.62759 AU
morning rise	11316 May 18 17:57	19° <b>8</b> 21'46		direct	11323 Feb 13 22:30	13° <b>∏</b> 59'47	
retrograde	11316 Aug 18 07:12	22° <b>8</b> 33'44	100/154	evening set	11323 May 17 06:51	17° <b>Ⅱ</b> 07'50	
opposition	11316 Nov 02 01:27	20° <b>8</b> 34'11		aaminus -ti	11222 1 02 01 14	100∏02100	0052!11
min. Earth dist.	11316 Nov 01 19:25		18.24398 AU	conjunction	11323 Jun 02 01:14	18° <b>Ⅱ</b> 03'08	
direct	11317 Jan 18 04:40	18° <b>8</b> 32'53		minimum elong	11323 Jun 02 01:14	18° <b>Ⅱ</b> 03'08	
evening set	11317 Apr 21 14:26	21° <b>8</b> 47'12		max. Earth dist.	11323 Jun 02 10:56		20.65481 AU
	1121734 07 11 04	2200 42152	1000!11	morning rise	11323 Jun 17 19:13	18° <b>∏</b> 58'23	
conjunction	11317 May 07 11:04	22° <b>8</b> 43'58		retrograde	11323 Sep 17 17:03	22° <b>Ⅱ</b> 05'57	0057146
minimum elong	11317 May 07 11:04	22° <b>8</b> 43'58		opposition	11323 Dec 03 09:22	20° <b>∏</b> 07′28	
max. Earth dist.	11317 May 07 17:12		20.27850 AU	min. Earth dist.	11323 Dec 03 00:06		18.68165 AU
morning rise	11317 May 23 06:20	23° <b>8</b> 40'32		direct	11324 Feb 18 10:24	18° <b>∏</b> 08'21	
retrograde	11317 Aug 22 20:06	26° <b>8</b> 51'49		evening set	11324 May 20 14:57	21° <b>Ⅱ</b> 15′27	

conjunction	11324 Jun 05 09:10	22° <b>Ⅱ</b> 10'32	-0°51'00	retrograde	11330 Oct 16 07:04	20° <b>©</b> 28'25	
minimum elong	11324 Jun 05 09:10	22° <b>I</b> 10'32		opposition	11331 Jan 01 13:15	18°930'28	-0°34'49
max. Earth dist.	11324 Jun 05 19:29		20.70749 AU	min. Earth dist.	11330 Dec 31 23:40		18.98451 AU
morning rise	11324 Jun 21 03:09	23° <b>I</b> 12'03	20.70747710	direct	11331 Mar 19 08:20	16°933'01	10.70431710
retrograde	11324 Sep 21 03:48	26° <b>I</b> I12'40		evening set	11331 Jun 18 08:54	19° <b>©</b> 35'02	
opposition	11324 Sep 21 03:48 11324 Dec 06 21:41	24° <b>I</b> 14'14	0°55'12	evening set	11551 Juli 16 06.54	19 33 02	
min. Earth dist.	11324 Dec 06 10:48		18.73293 AU	conjunction	11331 Jul 04 03:11	20°529'13	0.50130
direct	11324 Dec 00 10.48 11325 Feb 21 23:05	24 <b>H</b> 15 20 22° <b>H</b> 15'19	16.73293 AU	•	11331 Jul 04 03:11	20°\$29'13	
	11325 Nay 24 22:19	25° <b>I</b> [21'31		minimum elong max. Earth dist.	11331 Jul 04 05:11 11331 Jul 04 16:53		20.99958 AU
evening set	11323 May 24 22.19	23 112131					20.99938 AU
	11225 1 00 16 20	0.60T1.605	0040124	morning rise	11331 Jul 19 22:29	21°523'32	
conjunction	11325 Jun 09 16:20	26° <b>Ⅱ</b> 16'25		retrograde	11331 Oct 20 14:00	24°528'28	0020146
minimum elong	11325 Jun 09 16:20	26° <b>Ⅱ</b> 16'25		opposition	11332 Jan 05 22:30	22°530'35	
max. Earth dist.	11325 Jun 10 03:24		20.75745 AU	min. Earth dist.	11332 Jan 05 10:00		19.01381 AU
morning rise	11325 Jun 25 10:21	27° <b>Ⅱ</b> 11′20		direct	11332 Mar 22 14:52	20° <b>©</b> 33'20	
_	11325 Aug 29 19:26	0°©		evening set	11332 Jun 21 13:42	23° <b>©</b> 34'53	
retrograde	11325 Sep 25 11:29	0° <b>©</b> 17'55				🕳	
	11325 Oct 22 16:33	30°RⅡ		conjunction	11332 Jul 07 08:11	24° <b>©</b> 28'59	
opposition	11325 Dec 11 09:37	28° <b>Ⅱ</b> 19'32		minimum elong	11332 Jul 07 08:11	24° <b>©</b> 28'59	
min. Earth dist.	11325 Dec 10 23:05		18.78179 AU	max. Earth dist.	11332 Jul 07 21:35	24° <b>©</b> 30'55	21.02657 AU
direct	11326 Feb 26 09:26	26° <b>Ⅱ</b> 20'52		morning rise	11332 Jul 23 03:52	25° <b>©</b> 23'16	
evening set	11326 May 29 05:08	29° <b>Ⅱ</b> 26'12		retrograde	11332 Oct 23 22:34	28° <b>©</b> 28'06	
	11326 Jun 07 23:42	0°€		opposition	11333 Jan 09 07:30	26° <b>©</b> 30'15	-0°26'35
				min. Earth dist.	11333 Jan 08 18:05	26° <b>©</b> 31'35	19.03823 AU
conjunction	11326 Jun 13 23:06	0°ഇ20'56	-0°45'54	direct	11333 Mar 26 23:24	24° <b>©</b> 33'10	
minimum elong	11326 Jun 13 23:06	0°920'56	0°46'36	evening set	11333 Jun 25 18:19	27° <b>5</b> 34'17	
max. Earth dist.	11326 Jun 14 10:45	0°ഇ22'38	20.80518 AU				
morning rise	11326 Jun 29 17:14	1° <b>©</b> 15'42		conjunction	11333 Jul 11 13:02	28° <b>©</b> 28'21	-0°22'05
retrograde	11326 Sep 29 21:59	4° <b>5</b> 21'52		minimum elong	11333 Jul 11 13:02	28° <b>5</b> 28'21	0°22'43
opposition	11326 Dec 15 20:39	2° <b>5</b> 23'34	-0°49'17	max. Earth dist.	11333 Jul 12 02:30	28° <b>5</b> 30'17	21.04826 AU
min. Earth dist.	11326 Dec 15 08:29	2° <b>5</b> 24'47	18.82827 AU	morning rise	11333 Jul 27 09:05	29° <b>5</b> 22'36	
direct	11327 Mar 02 20:35	0°ഇ25'07			11333 Aug 07 18:08	$0^{\circ}\Omega$	
evening set	11327 Jun 02 11:28	3°529'41		retrograde	11333 Oct 28 05:29	2° <b>Ω</b> 27'22	
•				opposition	11334 Jan 13 16:26	0° <b>Ω</b> 29'31	-0°22'16
conjunction	11327 Jun 18 05:24	4° <b>5</b> 24'16	-0°43'01	min. Earth dist.	11334 Jan 13 04:17	0° <b>Ω</b> 30'44	19.05719 AU
minimum elong	11327 Jun 18 05:24		0°43'43		11334 Jan 26 03:53	30°Rூ	
max. Earth dist.	11327 Jun 18 17:44		20.85036 AU	direct	11334 Mar 31 05:46	28° <b>©</b> 32'34	
morning rise	11327 Jul 03 23:40	5° <b>©</b> 18'55			11334 May 30 16:19	$0^{\circ}\Omega$	
retrograde	11327 Oct 04 05:03	8°524'44		evening set	11334 Jun 29 22:57	1°Ω33'18	
opposition	11327 Dec 20 07:29	6°926'31	-0°45'58				
min. Earth dist.	11327 Dec 19 19:50		18.87217 AU	conjunction	11334 Jul 15 17:58	2° <b>Ω</b> 27'20	-0°18'09
direct	11328 Mar 06 05:03	4°528'20	10.07217110	minimum elong	11334 Jul 15 17:58	2°Ω27'20	
evening set	11328 Jun 05 17:17	7°932'10		max. Earth dist.	11334 Jul 16 06:45		21.06443 AU
evening sec	11320 3411 03 17.17	, 32 10		morning rise	11334 Jul 31 14:30	3°Ω21'35	21.00113710
conjunction	11328 Jun 21 11:13	8° <b>5</b> 26'37	-0°39'56	retrograde	11334 Nov 01 13:29	6° <b>Ω</b> 26'19	
minimum elong	11328 Jun 21 11:13	8°526'37		opposition	11335 Jan 18 00:47	4° <b>Ω</b> 28'25	-0°17'51
max. Earth dist.	11328 Jun 21 23:56		20.89290 AU	min. Earth dist.	11335 Jan 17 12:03		19.07040 AU
morning rise	11328 Jul 07 05:41	9° <b>9</b> 21'10	20.07270710	direct	11335 Apr 04 13:27	2°Ω31'32	17.07040710
retrograde	11328 Oct 07 14:54	12°526'41		evening set	11335 Jul 04 03:30	5°Ω31'56	
opposition	11328 Dec 23 17:44	10°9528'33	-0°42'26	evening set	11555 Jul 04 05.50	J <b>6 (</b> J1 J0	
min. Earth dist.	11328 Dec 23 17:44 11328 Dec 23 04:35		18.91312 AU	conjunction	11335 Jul 19 22:52	6° <b>Ω</b> 25'57	0°14'08
direct	11329 Mar 10 15:35	8°930'37	16.91312 AU	minimum elong	11335 Jul 19 22:52	6° <b>Ω</b> 25'57	
evening set	11329 Jun 09 22:47	11°933'47		behind sun begin	11335 Jul 19 20:04	6°Ω25'34	0 14 44
evening set	11329 Juli 09 22.47	11 303347		behind sun end	11335 Jul 19 20:04 11335 Jul 20 01:39	6° <b>Ω</b> 26'21	
:	11220 I 25 16.47	1206220100	0026140				21.07466 AU
conjunction	11329 Jun 25 16:47	12°528'08		max. Earth dist.	11335 Jul 20 11:28		21.07400 AU
minimum elong	11329 Jun 25 16:48		0°37'22	morning rise	11335 Aug 04 19:50	7° <b>Ω</b> 20'13	
max. Earth dist.	11329 Jun 26 06:06		20.93221 AU	retrograde	11335 Nov 05 19:57	10° <b>Ω</b> 24'55	0012122
morning rise	11329 Jul 11 11:29	13°922'36		opposition	11336 Jan 22 09:13	8° <b>Ω</b> 26'57	
retrograde	11329 Oct 11 21:56	16°927'52	0020142	min. Earth dist.	11336 Jan 21 21:49		19.07777 AU
opposition	11329 Dec 28 03:45	14°529'50		direct	11336 Apr 07 19:22	6° <b>Ω</b> 30'05	
min. Earth dist.	11329 Dec 27 15:21		18.95075 AU	evening set	11336 Jul 07 07:49	9° <b>Ω</b> 30'11	
direct	11330 Mar 14 22:36	12°932'09			1122671 22 22 2	100 00	0010102
evening set	11330 Jun 14 03:53	15° <b>©</b> 34'43		conjunction	11336 Jul 23 03:32	10° <b>Ω</b> 24'12	
	11000 X - 20	1.00	0022114	minimum elong	11336 Jul 23 03:32	10° <b>Ω</b> 24'12	0~10'37
conjunction	11330 Jun 29 22:02	16°528'58		behind sun begin	11336 Jul 22 22:25	10° <b>Ω</b> 23'29	
minimum elong	11330 Jun 29 22:02	16°528'58		behind sun end	11336 Jul 23 08:39	10° <b>Ω</b> 24'55	
max. Earth dist.	11330 Jun 30 11:26		20.96805 AU	max. Earth dist.	11336 Jul 23 15:32		21.07938 AU
morning rise	11330 Jul 15 17:03	17° <b>©</b> 23'21		morning rise	11336 Aug 08 01:02	11° <b>Ω</b> 18′29	

retrograde	11336 Nov 09 03:57	14° <b>Ω</b> 23'14		retrograde	11341 Nov 29 16:32	4° m) 13'43	
opposition	11330 Nov 09 03.37 11337 Jan 25 17:18	$12^{\circ}\Omega 25'07$	0000140	•	11341 Nov 29 10.32 11342 Feb 15 07:50	2° m) 14'55	0014!11
min. Earth dist.	11337 Jan 25 05:14		19.07981 AU	opposition min. Earth dist.	11342 Feb 13 07:30 11342 Feb 14 21:46	-	19.02666 AU
direct	11337 Apr 12 02:38	12 <b>8€</b> 20 20 10° <b>Ω</b> 28'14	19.07981 AO	direct	11342 May 02 06:24	0° m) 17'49	19.02000 AC
evening set	11337 Apr 12 02:38	13°Ω28'06		evening set	11342 Jul 31 11:27	3° m) 17'37	
evening set	11337 341 11 12.11	13 062000		evening set	11342 341 31 11.27	3 mg 1737	
conjunction	11337 Jul 27 08:18	14° <b>Ω</b> 22'08	-0°05'55	conjunction	11342 Aug 16 09:59	4° m) 12'00	0°14'55
minimum elong	11337 Jul 27 08:17	14° <b>Ω</b> 22'08	0°06'29	minimum elong	11342 Aug 16 09:59	4° m) 12'00	0°14'33
behind sun begin	11337 Jul 27 02:06	14° <b>Ω</b> 21'16		behind sun begin	11342 Aug 16 07:05	4° Mp 11'36	
behind sun end	11337 Jul 27 14:29	14° <b>Ω</b> 23'00		behind sun end	11342 Aug 16 12:53	4° Mp 12'25	
max. Earth dist.	11337 Jul 27 20:24	14° <b>Ω</b> 23'51	21.07891 AU	max. Earth dist.	11342 Aug 16 20:38	4° <b>m</b> 13'31	21.01624 AU
	11337 Aug 07 09:26	15° <b>Ω</b>		morning rise	11342 Sep 01 10:59	5° Mp 06'45	
morning rise	11337 Aug 12 06:18	15° <b>Ω</b> 16′27		retrograde	11342 Dec 04 02:14	8° <b>m</b> 12'48	
retrograde	11337 Nov 13 09:57	18° <b>Ω</b> 21'16		opposition	11343 Feb 19 15:21	6° Mp 13′54	0°18'41
opposition	11338 Jan 30 01:14	16° <b>Ω</b> 23'01	-0°04'12	min. Earth dist.	11343 Feb 19 04:55	6°M)14'57	19.00494 AU
min. Earth dist.	11338 Jan 29 14:20	16° <b>Ω</b> 24'06	19.07707 AU	direct	11343 May 06 12:13	4° Mp 16'45	
	11338 Mar 09 11:40	15°R <b>Ω</b>		evening set	11343 Aug 04 17:00	7° <b>M</b> p 16'47	
direct	11338 Apr 16 07:52	14° <b>Ω</b> 26′05					
	11338 May 23 03:19	15° <b>Ω</b>		conjunction	11343 Aug 20 16:07	8° <b>m</b> 11'18	0°18'56
evening set	11338 Jul 15 16:30	17° <b>Ω</b> 25'47		minimum elong	11343 Aug 20 16:06	8° <b>m</b> 11'18	0°18'37
				max. Earth dist.	11343 Aug 21 02:44		20.99256 AU
conjunction	11338 Jul 31 13:03	18° <b>Ω</b> 19'51		morning rise	11343 Sep 05 17:40	9° <b>m</b> ,06'11	
minimum elong	11338 Jul 31 13:03	18° <b>Ω</b> 19'51	0°02'16	retrograde	11343 Dec 08 10:03	12° <b>m</b> 12'39	
behind sun begin	11338 Jul 31 06:28	18° <b>Ω</b> 18'56		opposition	11344 Feb 23 23:20	10° <b>m</b> 13'39	
behind sun end	11338 Jul 31 19:38	18° <b>Ω</b> 20'46		min. Earth dist.	11344 Feb 23 14:05	-	18.97936 AU
max. Earth dist.	11338 Aug 01 00:40		21.07408 AU	direct	11344 May 09 17:20	8°M) 16'28	
morning rise	11338 Aug 16 11:40	19° <b>Ω</b> 14'13		evening set	11344 Aug 07 22:52	11° <b>M</b> )16'47	
retrograde	11338 Nov 17 18:33	22° <b>Ω</b> 19'10					
asc. node	11339 Jan 02 03:31	21° <b>Ω</b> 32'40		conjunction	11344 Aug 23 22:32	12° <b>m</b> ) 11'27	0°22'53
opposition	11339 Feb 03 08:52	20° <b>Ω</b> 20'45		minimum elong	11344 Aug 23 22:31	12° m 11'27	0°22'36
min. Earth dist.	11339 Feb 02 21:18		19.07013 AU	max. Earth dist.	11344 Aug 24 08:14	-	20.96514 AU
direct	11339 Apr 20 14:26	18° <b>Ω</b> 23'46		morning rise	11344 Sep 09 00:48	13° Mp 06'29	
evening set	11339 Jul 19 20:56	21° <b>Ω</b> 23′23		retrograde opposition	11344 Dec 11 20:41	16° Th 13'26	0927125
agnismation	11220 Aug 04 17:55	22° <b>Ω</b> 17'30	0°02'33	min. Earth dist.	11345 Feb 27 07:24 11345 Feb 26 22:02	14° Mp 14'19	18.94988 AU
conjunction minimum elong	11339 Aug 04 17:55 11339 Aug 04 17:56	$22^{\circ}\Omega 17'30$ $22^{\circ}\Omega 17'31$	0°02'33 0°02'04	direct	11345 Feb 26 22:02 11345 May 13 23:37	14° m) 17'04	18.94988 AU
behind sun begin	11339 Aug 04 17:30 11339 Aug 04 11:20	22°Ω16'36	0 02 04	evening set	11345 Aug 12 05:26	15° M) 17'46	
behind sun end	11339 Aug 04 11:20 11339 Aug 05 00:31	$22^{\circ}\Omega 18'25$		evening set	11343 Aug 12 03.20	13 11/1/40	
max. Earth dist.	11339 Aug 05 00:31 11339 Aug 05 05:42		21.06504 AU	conjunction	11345 Aug 28 05:44	16° m) 12'35	0°26'44
morning rise	11339 Aug 03 03:42 11339 Aug 20 17:02	23° <b>Ω</b> 11'56	21.00304 AC	minimum elong	11345 Aug 28 05:43	16° m) 12'35	
retrograde	11339 Nov 22 00:30	26° <b>Ω</b> 17'04		max. Earth dist.	11345 Aug 28 15:09	-	20.93343 AU
opposition	11340 Feb 07 16:32	24°Ω18'32		morning rise	11345 Sep 13 08:35	17° <b>m</b> ) 07'47	20.555 .5 110
min. Earth dist.	11340 Feb 07 06:01		19.05923 AU	retrograde	11345 Dec 16 05:26	20° m) 15'14	
direct	11340 Apr 23 19:26	22° <b>Ω</b> 21'30		opposition	11346 Mar 03 15:40	18° <b>m</b> ) 16'01	0°31'37
evening set	11340 Jul 23 01:32	25° <b>Ω</b> 21'06		min. Earth dist.	11346 Mar 03 07:48		18.91598 AU
S				direct	11346 May 18 04:51	16° m) 18'42	
conjunction	11340 Aug 07 22:59	26° <b>Ω</b> 15'18	0°06'43	evening set	11346 Aug 16 12:36	19° <b>m</b> ) 19'49	
minimum elong	11340 Aug 07 22:59	26° <b>Ω</b> 15'18	0°06'17	-			
behind sun begin	11340 Aug 07 16:45	26° <b>Ω</b> 14′26		conjunction	11346 Sep 01 13:29	20° <b>m</b> 14'48	0°30'28
behind sun end	11340 Aug 08 05:14	26° <b>Ω</b> 16′10		minimum elong	11346 Sep 01 13:29	20° <b>m</b> 14'48	0°30'16
max. Earth dist.	11340 Aug 08 10:15	26° <b>Ω</b> 16'54	21.05241 AU	max. Earth dist.	11346 Sep 01 21:28	20° <b>m</b> 15'57	20.89730 AU
morning rise	11340 Aug 23 22:44	27° <b>Ω</b> 09'49		morning rise	11346 Sep 17 17:05	$21^\circ$ Mp $10^\prime$ $11$	
	11340 Oct 31 10:42	0° <b>m</b>		retrograde	11346 Dec 20 17:10	24°M)18'12	
retrograde	11340 Nov 25 09:43	0° Mp 15′12		opposition	11347 Mar 08 00:11	22° <b>m</b> 18'50	0°35'42
	11340 Dec 20 16:32	$30^{\circ}$ R $\Omega$		min. Earth dist.	11347 Mar 07 16:35	22° <b>m</b> 19'36	18.87745 AU
opposition	11341 Feb 11 00:06	28° <b>Ω</b> 16'31	0°09'38	direct	11347 May 22 11:58	20° Mp 21'22	
min. Earth dist.	11341 Feb 10 12:56		19.04479 AU	evening set	11347 Aug 20 20:16	23° <b>m</b> 22'59	
direct	11341 Apr 28 01:24	26° <b>Ω</b> 19'27					
evening set	11341 Jul 27 06:16	29° <b>Ω</b> 19'06		conjunction	11347 Sep 05 21:48	24° <b>m</b> 18'09	0°34'03
	11341 Aug 08 06:45	0° <b>m</b>		minimum elong	11347 Sep 05 21:48	24° m 18'09	
_				max. Earth dist.	11347 Sep 06 05:15		20.85619 AU
conjunction	11341 Aug 12 04:17	0° Mp 13'24		morning rise	11347 Sep 22 01:56	25° m 13'44	
minimum elong	11341 Aug 12 04:17	0° m 13'24	0°10'26	retrograde	11347 Dec 25 02:44	28° m/22'18	0020125
behind sun begin	11341 Aug 11 23:05	0° Mp 12'40		opposition	11348 Mar 11 09:07	26° m/22'45	
behind sun end	11341 Aug 12 09:29	0° mp 14'07	21.02.00	min. Earth dist.	11348 Mar 11 03:02		18.83392 AU
max. Earth dist.	11341 Aug 12 15:41		21.03609 AU	direct	11348 May 25 17:46	24° Mp 25'08	
morning rise	11341 Aug 28 04:36	1°Mp08'01		evening set	11348 Aug 24 04:36	27° Mp 27'15	

aaniumatian	11249 Can 00 06:46	200 m 22127	0927120	ratra arada	11355 Jan 23 19:37	27° <b>≏</b> 24'59	
conjunction	11348 Sep 09 06:46	28° Mp 22'37		retrograde			1000140
minimum elong	11348 Sep 09 06:45	28° m 22'37	0°37'25	opposition	11355 Apr 10 07:56	25° <b>£</b> 23'42	1°00'49
max. Earth dist.	11348 Sep 09 12:34	28° m 23'28	20.81042 AU	min. Earth dist.	11355 Apr 10 07:06		18.43592 AU
morning rise	11348 Sep 25 11:40	29° m 18'24		direct	11355 Jun 24 06:36	23° <b>£</b> 24'07	
_	11348 Oct 08 02:36	0∘ <b>亚</b>		evening set	11355 Sep 23 08:36	26° <b>≏</b> 31′20	
retrograde	11348 Dec 28 15:10	2° <b>≏</b> 27'33					
opposition	11349 Mar 15 18:13	0° <b>ჲ</b> 27'47	0°43'21	conjunction	11355 Oct 09 15:44	27° <b>≏</b> 28'27	0°55'43
min. Earth dist.	11349 Mar 15 12:35	0° <b>ჲ</b> 28'21	18.78588 AU	minimum elong	11355 Oct 09 15:44	27° <b>≏</b> 28'27	0°55'59
	11349 Mar 27 04:50	30°R, Mp		max. Earth dist.	11355 Oct 09 16:28	27° <b>≏</b> 28'34	20.40421 AU
direct	11349 May 30 01:58	28° <b>№</b> 29'55		morning rise	11355 Oct 26 01:06	28° <b>≏</b> 25'56	
	11349 Jul 29 20:21	0∘ <b>ত</b>			11355 Nov 24 13:21	0°M₊	
evening set	11349 Aug 28 13:23	1° <b>≏</b> 32'36		retrograde	11356 Jan 28 10:27	1° <b>M</b> 39'45	
					11356 Apr 05 03:18	30°Ŗ <b>죠</b>	
conjunction	11349 Sep 13 16:19	2° <b>₽</b> 28'12	0°40'47	opposition	11356 Apr 13 19:55	29° <b>≙</b> 38'17	1°02'43
minimum elong	11349 Sep 13 16:19	2° <b>≏</b> 28'12	0°40'45	min. Earth dist.	11356 Apr 13 19:43	29° <b>≏</b> 38'18	18.37262 AU
max. Earth dist.	11349 Sep 13 21:44	2° <b>≏</b> 28'59	20.76018 AU	direct	11356 Jun 27 17:57	27° <b>≏</b> 38'26	
morning rise	11349 Sep 29 21:50	3° <b>ჲ</b> 24'12			11356 Sep 13 01:01	0°M	
retrograde	11350 Jan 02 01:57	6° <b>£</b> 33'55		evening set	11356 Sep 26 22:43	0°M46'36	
opposition	11350 Mar 20 03:39	4° <b>£</b> 33'55	0°46'53	- · · · · · · · · · · · · · · · · · · ·			
min. Earth dist.	11350 Mar 19 23:25		18.73364 AU	conjunction	11356 Oct 13 06:27	1°M44'00	0°57'16
direct	11350 Jun 03 08:43	2° <b>£</b> 35'48	10.73304710	minimum elong	11356 Oct 13 06:26	1°M44'00	0°57'34
evening set	11350 Sep 01 22:55	5° <b>£</b> 39'05		max. Earth dist.	11356 Oct 13 05:23	1°ML43'50	
evening set	11330 Sep 01 22.33	3 == 39 03		morning rise	11356 Oct 13 03.25		20.34078 AU
	11250 0 10 02 27	60 0 2 415 4	0042152	U		2°M41'46	
conjunction	11350 Sep 18 02:27	6° <b>£</b> 34'54		retrograde	11357 Feb 01 01:47	5°M56'21	1004117
minimum elong	11350 Sep 18 02:27	6° <b>£</b> 34'54		opposition	11357 Apr 18 08:22	3°M54'42	1°04'17
max. Earth dist.	11350 Sep 18 06:16		20.70627 AU	min. Earth dist.	11357 Apr 18 08:59		18.30901 AU
morning rise	11350 Oct 04 08:44	7° <b>≏</b> 31'08		direct	11357 Jul 02 05:05	1°M54'34	
retrograde	11351 Jan 06 14:39	10° <b>≏</b> 41'28		evening set	11357 Oct 01 13:42	5°M03'45	
opposition	11351 Mar 24 13:14	8° <b>≏</b> 41'11	0°50'12				
min. Earth dist.	11351 Mar 24 09:28		18.67816 AU	conjunction	11357 Oct 17 22:17	6° <b>™</b> 01'27	0°58'30
direct	11351 Jun 07 17:33	6° <b>£</b> 42'47		minimum elong	11357 Oct 17 22:17	6° <b>™</b> 01'27	0°58'52
evening set	11351 Sep 06 08:59	9° <b>≏</b> 46'45		max. Earth dist.	11357 Oct 17 21:22	6° <b>™</b> 01'18	20.27687 AU
				morning rise	11357 Nov 03 08:52	6°№59'29	
conjunction	11351 Sep 22 13:17	10° <b>≏</b> 42'48	0°46'44	retrograde	11358 Feb 05 18:07	10°M14'51	
minimum elong	11351 Sep 22 13:17	10° <b>≙</b> 42'48	0°46'47	opposition	11358 Apr 22 21:29	8°M13'03	1°05'31
max. Earth dist.	11351 Sep 22 17:00	10° <b>≙</b> 43'21	20.64931 AU	min. Earth dist.	11358 Apr 22 22:48	8° <b>ጤ</b> 12'55	18.24481 AU
morning rise	11351 Oct 08 20:06	11° <b>≏</b> 39'15		direct	11358 Jul 06 17:37	6° <b>™</b> 12'41	
retrograde	11352 Jan 11 02:45	14° <b>£</b> 50'14		evening set	11358 Oct 06 05:49	9°M22'54	
opposition	11352 Mar 27 23:20	12° <b>≏</b> 49'42	0°53'16	Č			
min. Earth dist.	11352 Mar 27 20:38	12° <b>Ω</b> 49'59	18.62000 AU	conjunction	11358 Oct 22 14:54	10°M20'54	0°59'25
direct	11352 Jun 11 01:47	10° <b>£</b> 51'00		minimum elong	11358 Oct 22 14:53	10°M20'54	0°59'49
evening set	11352 Sep 09 19:41	13° <b>≏</b> 55'41		max. Earth dist.	11358 Oct 22 11:52		20.21242 AU
evening sec	11332 бер 03 13.11	15 —55 .1		morning rise	11358 Nov 08 02:10	11°ML19'13	20.2121212110
conjunction	11352 Sep 26 00:36	14° <b>£</b> 51'59	0°49'22	retrograde	11359 Feb 10 11:09	14°M35'23	
minimum elong	11352 Sep 26 00:35	14° <b>⊆</b> 51'59	0°49'30	opposition	11359 Apr 27 11:16	12°M33'26	1°06'23
max. Earth dist.	11352 Sep 26 00:39		20.59019 AU	min. Earth dist.	11359 Apr 27 11:10 11359 Apr 27 13:48		18.18009 AU
	11352 Sep 20 02.49 11352 Oct 12 08:14	14 <b>⊆</b> 32 19 15° <b>⊆</b> 48'42	20.39019 AU	direct	11359 Apr 27 13.48 11359 Jul 11 06:19	12 IIC33 10 10°IIC32'47	16.16009 AU
morning rise							
retrograde	11353 Jan 14 16:10	19° <b>£</b> 00′21	0056104	evening set	11359 Oct 10 22:50	13°M44'06	
opposition	11353 Apr 01 09:48	16° <b>£</b> 59'32			11250 0 + 27 00 42	1.40 <b>m</b> .4010.4	1000101
min. Earth dist.	11353 Apr 01 07:31		18.56000 AU	conjunction	11359 Oct 27 08:43	14°M42'24	1°00'01
direct	11353 Jun 15 10:52	15° <b>Ω</b> 00'33		minimum elong	11359 Oct 27 08:43		
evening set	11353 Sep 14 07:13	18° <b>≏</b> 06'01		max. Earth dist.	11359 Oct 27 05:42		20.14726 AU
					11359 Nov 01 06:39	15°M	
conjunction	11353 Sep 30 12:57	19° <b>≏</b> 02'35		morning rise	11359 Nov 12 20:20	15°M41'01	
minimum elong	11353 Sep 30 12:56	19° <b>ഫ</b> 02'35	0°51'55	retrograde	11360 Feb 15 05:04	18° <b>™</b> 57'56	
max. Earth dist.	11353 Sep 30 15:11	19° <b>≙</b> 02'54	20.52927 AU	opposition	11360 May 01 01:45	16°M55'52	1°06'52
morning rise	11353 Oct 16 21:05	19° <b>≙</b> 59'32		min. Earth dist.	11360 May 01 04:56	16°M55'32	18.11451 AU
retrograde	11354 Jan 19 05:34	23° <b>≏</b> 11'53			11360 Jun 30 23:37	15°RM	
opposition	11354 Apr 05 20:34	21° <b>≏</b> 10′50	0°58'35	direct	11360 Jul 14 20:26	14°M54'56	
min. Earth dist.	11354 Apr 05 19:12	21° <b>≏</b> 10'58	18.49842 AU		11360 Jul 28 14:21	15°M	
direct	11354 Jun 19 20:47	19° <b>≏</b> 11'33		evening set	11360 Oct 14 16:56	18° <b>M</b> 07'19	
evening set	11354 Sep 18 19:36	22° <b>£</b> 17'52					
-	÷			conjunction	11360 Oct 31 03:20	19°M05'55	1°00'16
conjunction	11354 Oct 05 01:56	23° <b>≏</b> 14'42	0°53'53	minimum elong	11360 Oct 31 03:19	19°M05'55	1°00'45
minimum elong	11354 Oct 05 01:56	23° <b>≏</b> 14'42		max. Earth dist.	11360 Oct 30 21:54		20.08130 AU
max. Earth dist.	11354 Oct 05 02:28		20.46719 AU	morning rise	11360 Nov 16 15:38	20°M04'49	=-
morning rise	11354 Oct 21 10:51	24° <b>£</b> 11'55		retrograde	11361 Feb 18 23:27	23°M22'31	
		1100					

minimum elong behind sun begin

11380 Jan 31 01:00

17°≈29'06

direct

11385 Nov 09 11:40

11°**)** 35'19

evening set	11386 Feb 12 16:08	15° <b>)</b> €03'01		retrograde	11392 Jul 14 13:02	18° <b>Ƴ</b> 20'37	
				opposition	11392 Sep 27 03:39	16° <b>Ƴ</b> 19'29	-0°55'37
conjunction	11386 Mar 01 01:07	16° <b>)</b> 04′07	-0°26'09	min. Earth dist.	11392 Sep 27 06:47	16° <b>Ƴ</b> 19'09	17.72261 AU
minimum elong	11386 Mar 01 01:07	16° <b>¥</b> 04'07	0°25'56	direct	11392 Dec 12 19:50	14° <b>Y</b> 15'35	
max. Earth dist.	11386 Feb 28 16:42	16° <b>)</b> 02′48	19.41407 AU	evening set	11393 Mar 17 14:13	17° <b>Y</b> 38'20	
morning rise	11386 Mar 17 07:23	17° <b>)</b> €04'51					
retrograde	11386 Jun 17 05:56	20° <b>)</b> €26'42		conjunction	11393 Apr 02 16:49	18° <b>Ƴ</b> 37'32	-0°51'18
opposition	11386 Aug 30 08:35	18° <b>)</b> €24′27	-0°31'33	minimum elong	11393 Apr 02 16:48	18° <b>Ƴ</b> 37'31	
min. Earth dist.	11386 Aug 30 16:06	18° <b>)</b> 23′39	17.43282 AU	max. Earth dist.	11393 Apr 02 13:24	18° <b>Ƴ</b> 37'00	19.75103 AU
direct	11386 Nov 14 13:14	16° <b>米</b> 19′15		morning rise	11393 Apr 18 17:04	19° <b>Y</b> 36'23	
evening set	11387 Feb 17 18:10	19° <b>)</b> 46′30		retrograde	11393 Jul 19 07:33	22° <b>Y</b> 53'33	
				opposition	11393 Oct 02 01:09	20° <b>Y</b> 52'32	
conjunction	11387 Mar 06 02:14	20° <b>)</b> 47′23		min. Earth dist.	11393 Oct 02 02:44		17.78021 AU
minimum elong	11387 Mar 06 02:13	20° <b>)</b> 47′23	0°30'21	direct	11393 Dec 17 19:22	18° <b>Ƴ</b> 48'51	
max. Earth dist.	11387 Mar 05 18:09		19.45256 AU	evening set	11394 Mar 22 10:00	22° <b>Y</b> 10'35	
morning rise	11387 Mar 22 07:41	21° <b>)</b> 47'53					
retrograde	11387 Jun 22 05:33	25° <b>米</b> 09′12		conjunction	11394 Apr 07 11:54	23° <b>Y</b> 09'29	
opposition	11387 Sep 04 08:30	23° <b>∺</b> 07'11		minimum elong	11394 Apr 07 11:53	23° <b>Y</b> 09'28	
min. Earth dist.	11387 Sep 04 14:23		17.47332 AU	max. Earth dist.	11394 Apr 07 10:51		19.80984 AU
direct	11387 Nov 19 16:27	21° <b>∺</b> 02'11		morning rise	11394 Apr 23 11:12	24° <b>Y</b> 08′01	
evening set	11388 Feb 22 19:33	24° <b>∺</b> 28'55		retrograde	11394 Jul 24 00:54	27° <b>Y</b> 24'24	
				opposition	11394 Oct 06 22:05	25° <b>Y</b> 23'32	
conjunction	11388 Mar 10 02:49	25° <b>¥</b> 29'33		min. Earth dist.	11394 Oct 06 22:58		17.84031 AU
minimum elong	11388 Mar 10 02:48	25° <b>¥</b> 29'33	0°34'33	direct	11394 Dec 22 18:43	23° <b>Y</b> 20'06	
max. Earth dist.	11388 Mar 09 20:05		19.49490 AU	evening set	11395 Mar 27 05:06	26° <b>Ƴ</b> 40'47	
morning rise	11388 Mar 26 07:15	26° <b>∺</b> 29'49					
retrograde	11388 Jun 26 02:39	29° <b>¥</b> 50′32		conjunction	11395 Apr 12 05:59	27° <b>Y</b> 39′22	
opposition	11388 Sep 08 08:26	27° <b>)</b> 48'44		minimum elong	11395 Apr 12 05:58	27° <b>Ƴ</b> 39'22	
min. Earth dist.	11388 Sep 08 14:42		17.51745 AU	max. Earth dist.	11395 Apr 12 05:06		19.87131 AU
direct	11388 Nov 23 17:05	25° <b>)</b> 43′58		morning rise	11395 Apr 28 04:43	28° <b>Ƴ</b> 37'37	
evening set	11389 Feb 26 20:16	29° <b>)</b> 10′04		_	11395 May 22 14:36	0° <b>8</b>	
	11389 Mar 12 07:37	$0^{\circ}\Upsilon$		retrograde	11395 Jul 28 17:16	1° <b>8</b> 53'13	
					11395 Oct 08 18:40	30°RƳ	
conjunction	11389 Mar 15 02:29	0°Υ10'26		opposition	11395 Oct 11 18:12	29° <b>Y</b> 52'30	
minimum elong	11389 Mar 15 02:29			min. Earth dist.	11395 Oct 11 17:39		17.90321 AU
max. Earth dist.	11389 Mar 14 19:41		19.54068 AU	direct	11395 Dec 27 16:16	27° <b>Y</b> 49′20	
morning rise	11389 Mar 31 06:08	1°Υ10'26			11396 Mar 10 17:23	0° <b>8</b>	
retrograde	11389 Jul 01 01:13	4°Υ30'31		evening set	11396 Mar 30 23:04	1° <b>8</b> 08'59	
opposition	11389 Sep 13 07:52	2°Υ28'55			11206 1 15 22 10	201 40 511 5	0055100
min. Earth dist.	11389 Sep 13 12:30		17.56476 AU	conjunction	11396 Apr 15 23:18	2° <b>8</b> 07'15	
direct	11389 Nov 28 19:04	0° <b>Υ</b> 24'21		minimum elong	11396 Apr 15 23:18	2° <b>8</b> 07'15	
evening set	11390 Mar 03 20:05	3° <b>Ƴ</b> 49'44		max. Earth dist.	11396 Apr 16 00:44		19.93546 AU
	11200 14 20 01 20	400040150	0042112	morning rise	11396 May 01 21:11	3° <b>8</b> 05'12	
conjunction	11390 Mar 20 01:30	4°Υ49'50		retrograde	11396 Aug 01 09:34	6° <b>8</b> 20'02	1904121
minimum elong	11390 Mar 20 01:30	4° <b>Υ</b> 49'50	19.58939 AU	opposition	11396 Oct 15 13:53	4° <b>8</b> 19'31	
max. Earth dist.	11390 Mar 19 20:26 11390 Apr 05 04:06	5° <b>Υ</b> 49'34	19.58939 AU	min. Earth dist.	11396 Oct 15 12:13		17.96852 AU
morning rise	11390 Apr 05 04:06 11390 Jul 05 21:32	9° <b>Υ</b> 08'58		direct	11396 Dec 31 14:01	2° <b>ප</b> 16'42 5° <b>ප</b> 35'17	
retrograde		7° <b>Υ</b> '07'33	0040152	evening set	11397 Apr 04 16:08	3 033 17	
opposition min. Earth dist.	11390 Sep 18 07:03		-0 48 33 17.61488 AU	amiumatian	11207 Apr. 20 15:26	6° <b>႘</b> 33'14	0050120
direct	11390 Sep 18 11:51 11390 Dec 03 19:01	5° <b>Υ</b> '03'12	17.01400 AU	conjunction minimum elong	11397 Apr 20 15:26 11397 Apr 20 15:25	6° <b>8</b> 33'14	
evening set	11390 Dec 03 19:01 11391 Mar 08 19:02	8° <b>Υ</b> 27'47		max. Earth dist.	11397 Apr 20 13:23 11397 Apr 20 17:09	_	20.00191 AU
evening set	11391 Wiai 06 19.02	0 12/4/		morning rise	11397 Apr 20 17:09 11397 May 06 12:48	7° <b>8</b> 30'53	20.00191 AU
conjunction	11391 Mar 24 23:26	9° <b>Ƴ</b> 27'35	0045124	retrograde	11397 May 00 12.48 11397 Aug 06 00:52	10° <b>8</b> 45'00	
minimum elong	11391 Mar 24 23:25	9° <b>Υ</b> 27'35		opposition	11397 Aug 00 00:52 11397 Oct 20 08:58	8° <b>8</b> 44'42	1005145
max. Earth dist.	11391 Mar 24 18:10		19.64087 AU	min. Earth dist.	11397 Oct 20 06:38 11397 Oct 20 06:07		18.03602 AU
morning rise	11391 Mai 24 18:10 11391 Apr 10 01:21	10° <b>Υ</b> 27'02	19.04067 AU	direct	11397 Oct 20 00:07 11398 Jan 05 09:27	6° <b>8</b> 42'14	18.03002 AU
retrograde	11391 Apr 10 01.21 11391 Jul 10 18:19	10 Y 27 02 13° <b>Y</b> 45'44		evening set	11398 Jan 03 09.27 11398 Apr 09 08:11	9° <b>8</b> 59'46	
opposition	11391 Jul 10 18.19 11391 Sep 23 05:36	13 <b>γ</b> 43 44 11° <b>Υ</b> 44'27	-0°52'25	evening set	11376 Apr 09 00.11	) <b>U</b> 3940	
min. Earth dist.	11391 Sep 23 03:30 11391 Sep 23 08:51		17.66759 AU	conjunction	11398 Apr 25 06:55	10° <b>8</b> 57'24	-0°59'35
direct	11391 Sep 23 08.31 11391 Dec 08 19:53	9° <b>Υ</b> 40'20	17.007 <i>33</i> AU	minimum elong	11398 Apr 25 06:54	10 <b>8</b> 57 24	
evening set	11391 Dec 08 19.33 11392 Mar 12 17:03	13° <b>Υ</b> 04'01		max. Earth dist.	11398 Apr 25 10:44		20.07021 AU
evening set	11374 IVIAI 14 17.03	10401		max. Earth dist.	11398 Apr 25 10:44 11398 May 11 03:34	10° <b>6</b> 37'39 11° <b>6</b> 54'47	20.07021 AU
conjunction	11302 Mar 20 20.42	14° <b>Ƴ</b> 03'32	0048136	morning rise	11398 May 11 03:34 11398 Jul 24 04:06	11° <b>0</b> 34'47	
conjunction	11392 Mar 28 20:42 11392 Mar 28 20:41	14°Υ03'32 14°Υ03'32		retrograda		15° <b>8</b> 08'09	
minimum elong			19.69473 AU	retrograde	11398 Aug 10 16:06		
max. Earth dist.	11392 Mar 28 17:23	14°° <b>γ</b> °03'01 15° <b>γ</b> °02'41	19.094/3 AU	onnosition	11398 Aug 28 09:15	15°R <b>႘</b>	1906125
morning rise	11392 Apr 13 21:35	13   02/41		opposition	11398 Oct 25 03:20	13° <b>8</b> 08'07	-1 00 33

min. Earth dist.	11398 Oct 24 23:18	13° <b>X</b> 08'32	18.10484 AU	conjunction	11405 May 25 20:30	10° <b>∏</b> 59'28	-0°56'41
direct	11399 Jan 10 05:29	11° <b>8</b> 06'03	10.10 10 1110	minimum elong	11405 May 25 20:30	10° <b>I</b> 59'28	
evening set	11399 Apr 13 23:28	14° <b>8</b> 22'30		max. Earth dist.	11405 May 26 04:49		20.53478 AU
<i>3</i>	11399 Apr 24 10:11	15° <b>8</b>		morning rise	11405 Jun 10 14:43	11° <b>Ⅱ</b> 55'07	
	1			retrograde	11405 Sep 10 09:16	15° <b>Ⅱ</b> 03'54	
conjunction	11399 Apr 29 21:24	15° <b>8</b> 19'51	-1°00'11	opposition	11405 Nov 25 19:52	13° <b>Ⅱ</b> 05'13	-1°01'58
minimum elong	11399 Apr 29 21:23	15° <b>8</b> 19'51		min. Earth dist.	11405 Nov 25 11:43	13° <b>Ⅱ</b> 06'02	18.56420 AU
max. Earth dist.	11399 Apr 30 01:24	15° <b>8</b> 20'27	20.13943 AU	direct	11406 Feb 10 20:46	11° <b>Ⅱ</b> 05'33	
morning rise	11399 May 15 17:40	16° <b>8</b> 16'57		evening set	11406 May 14 11:04	14° <b>Ⅱ</b> 14'40	
retrograde	11399 Aug 15 06:24	19° <b>8</b> 29'38		-			
opposition	11399 Oct 29 21:12	17° <b>8</b> 29'49	-1°07'02	conjunction	11406 May 30 05:47	15° <b>Ⅱ</b> 10'11	-0°55'01
min. Earth dist.	11399 Oct 29 16:31	17° <b>8</b> 30'18	18.17432 AU	minimum elong	11406 May 30 05:47	15° <b>Ⅱ</b> 10'11	0°55'41
direct	11400 Jan 14 23:04	15° <b>8</b> 28'09		max. Earth dist.	11406 May 30 14:59	15° <b>Ⅱ</b> 11'32	20.59261 AU
evening set	11400 Apr 18 13:49	18° <b>8</b> 43'33		morning rise	11406 Jun 14 23:51	16° <b>Ⅱ</b> 05'38	
				retrograde	11406 Sep 14 20:45	19° <b>Ⅱ</b> 13'48	
conjunction	11400 May 04 11:13	19° <b>8</b> 40'36	-1°00'25	opposition	11406 Nov 30 09:11	17° <b>Ⅱ</b> 15′12	-0°59'57
minimum elong	11400 May 04 11:13	19° <b>8</b> 40'36	1°00'55	min. Earth dist.	11406 Nov 29 23:39	17° <b>Ⅱ</b> 16′10	18.62062 AU
max. Earth dist.	11400 May 04 16:54	19° <b>8</b> 41'28	20.20887 AU	direct	11407 Feb 15 11:35	15° <b>Ⅱ</b> 15'46	
morning rise	11400 May 20 06:52	20° <b>8</b> 37'26		evening set	11407 May 18 19:52	18° <b>Ⅲ</b> 23'53	
retrograde	11400 Aug 19 20:32	23° <b>8</b> 49'25					
opposition	11400 Nov 03 14:26	21° <b>8</b> 49'52	-1°07'05	conjunction	11407 Jun 03 14:17	19° <b>Ⅱ</b> 19'11	-0°53'04
min. Earth dist.	11400 Nov 03 08:32	_	18.24348 AU	minimum elong	11407 Jun 03 14:17	19° <b>Ⅱ</b> 19'11	0°53'45
direct	11401 Jan 19 17:39	19° <b>8</b> 48'35		max. Earth dist.	11407 Jun 03 23:54	19° <b>Ⅱ</b> 20′36	20.64776 AU
evening set	11401 Apr 23 03:28	23° <b>8</b> 02'56		morning rise	11407 Jun 19 08:21	20° <b>Ⅱ</b> 14'27	
				retrograde	11407 Sep 19 05:57	23° <b>Ⅱ</b> 22'04	
conjunction	11401 May 09 00:09	23° <b>8</b> 59'42	-1°00'20	opposition	11407 Dec 04 22:10	21° <b>Ⅱ</b> 23'31	-0°57'37
minimum elong	11401 May 09 00:09	23° <b>8</b> 59'42	1°00'52	min. Earth dist.	11407 Dec 04 12:56		18.67470 AU
max. Earth dist.	11401 May 09 05:59	24° <b>8</b> 00'34	20.27768 AU	direct	11408 Feb 19 22:27	19° <b>∏</b> 24'19	
morning rise	11401 May 24 19:29	24° <b>8</b> 56'17		evening set	11408 May 22 03:49	22° <b>∏</b> 31′28	
retrograde	11401 Aug 24 09:38	28° <b>8</b> 07'36					
opposition	11401 Nov 08 07:14	26° <b>8</b> 08'16	-1°06'47	conjunction	11408 Jun 06 22:05	23° <b>Ⅱ</b> 26'34	
min. Earth dist.	11401 Nov 08 01:04		18.31189 AU	minimum elong	11408 Jun 06 22:05	23° <b>Ⅱ</b> 26'34	
direct	11402 Jan 24 09:25	24° <b>8</b> 07'22		max. Earth dist.	11408 Jun 07 08:39		20.70075 AU
evening set	11402 Apr 27 16:03	27° <b>8</b> 20'38		morning rise	11408 Jun 22 16:04	24° <b>Ⅱ</b> 21'40	
				retrograde	11408 Sep 22 16:06	27° <b>Ⅱ</b> 28'45	
conjunction	11402 May 13 12:20	28° <b>8</b> 17'08		opposition	11408 Dec 08 10:24	25° <b>Ⅱ</b> 30′16	
minimum elong	11402 May 13 12:20	_	1°00'27	min. Earth dist.	11408 Dec 07 23:26		18.72660 AU
max. Earth dist.	11402 May 13 19:29	_	20.34535 AU	direct	11409 Feb 23 12:00	23° <b>Ⅱ</b> 31'19	
morning rise	11402 May 29 07:13	29° <b>8</b> 13'28		evening set	11409 May 26 11:15	26° <b>Ⅱ</b> 37'34	
	11402 Jun 11 23:16	$\Pi$ °0				_	
retrograde	11402 Aug 28 22:53	2° <b>∏</b> 24'07		conjunction	11409 Jun 11 05:19	27° <b>Ⅲ</b> 32'29	
opposition	11402 Nov 12 23:17	0° <b>Ⅱ</b> 25'01		minimum elong	11409 Jun 11 05:19	27° <b>Ⅲ</b> 32'29	
min. Earth dist.	11402 Nov 12 15:53		18.37860 AU	max. Earth dist.	11409 Jun 11 16:29		20.75163 AU
	11402 Nov 23 05:36	30°₹ <b>8</b>		morning rise	11409 Jun 26 23:22	28° <b>Ⅲ</b> 27'25	
direct	11403 Jan 29 02:39	28° <b>8</b> 24'28			11409 Jul 26 07:02	0°9	
	11403 Apr 02 01:15	0°П		retrograde	11409 Sep 27 01:01	1°934'03	
evening set	11403 May 02 04:07	1° <b>Ⅱ</b> 36'41		•,•	11409 Dec 02 18:08	30°RⅡ	0053100
aoniumatiam	11402 May 17 22:40	20Π22155	0.20100	opposition	11409 Dec 12 22:13	29° <b>∏</b> 35'38	-0°52'08 18.77656 AU
conjunction minimum elong	11403 May 17 23:48 11403 May 17 23:48	2° <b>П</b> 32'55 2° <b>П</b> 32'55		min. Earth dist. direct	11409 Dec 12 11:30 11410 Feb 27 21:31	29°Щ36'43 27°Щ36'56	10.//030 AU
max. Earth dist.	,			direct		2/°Щ3636	
	11403 May 18 06:59 11403 Jun 02 18:27	2 <b>П</b> 33 39 3° <b>П</b> 29'01	20.41099 AU	avanina aat	11410 May 18 00:13	0 ୫ 0°942'20	
morning rise	11403 Juli 02 18.27 11403 Sep 02 10:30	5 <b>П</b> 2901 6° <b>П</b> 39'02		evening set	11410 May 30 17:59	0 2942 20	
retrograde opposition	11403 Sep 02 10.30 11403 Nov 17 14:42	6 <b>П</b> 3902 4° <b>П</b> 40'06	1905'04	conjunction	11410 Jun 15 12:02	1° <b>©</b> 37'05	0°45'40
min. Earth dist.	11403 Nov 17 14.42 11403 Nov 17 07:31		18.44318 AU	minimum elong	11410 Jun 15 12:02	1°937'05	
direct	11403 Nov 17 07:31 11404 Feb 02 16:23	2° <b>П</b> 39'52	16.44516 AU	max. Earth dist.	11410 Jun 15 23:57		20.80054 AU
evening set	11404 May 05 15:16	5° <b>∏</b> 51'04		morning rise	11410 Jul 01 06:12	2°931'53	20.80034 AU
ovening set	11-0-11/1ay 05 15.10	J 11.04		retrograde	11410 Oct 01 10:17	5° <b>93</b> 8'05	
conjunction	11404 May 21 10:38	6° <b>Ⅱ</b> 47'03	-0°58'04	opposition	11410 Dec 17 09:18	3° <b>9</b> 39'47	-0°49'00
minimum elong	11404 May 21 10:38	6° <b>П</b> 47'03		min. Earth dist.	11410 Dec 17 09:18		18.82419 AU
max. Earth dist.	11404 May 21 10:38		20.47431 AU	direct	11410 Dec 10 20:38 11411 Mar 04 09:15	1°9341'01	10.02717 AU
morning rise	11404 Jun 06 04:58	7° <b>П</b> 42'54	20.1731 AU	evening set	11411 Jun 04 00:20	4°945'57	
retrograde	11404 Sep 05 23:03	7 <b>П</b> 42 34 10° <b>П</b> 52'17		evening set	11-11 Juli 04 00.20	¬ ••• ) ) /	
opposition	11404 Sep 03 23:03 11404 Nov 21 05:32	8° <b>П</b> 53'30	-1°03'41	conjunction	11411 Jun 19 18:18	5° <b>©</b> 40'33	-0°42'45
min. Earth dist.	11404 Nov 20 21:04		18.50504 AU	minimum elong	11411 Jun 19 18:18	5°940'33	
direct	11404 Nov 20 21:04 11405 Feb 06 08:33	6°П53'35	10.50504 AU	max. Earth dist.	11411 Jun 20 06:42		20.84683 AU
evening set	11405 May 10 01:34	10° <b>П</b> 03'43		morning rise	11411 Jul 05 12:36	6°935'13	20.0 1003 AU
2. J	11.00 may 10 01.54	10 400 40			11.11.001 03 12.30	U <del>- 33</del> 13	

retrograde	11411 Oct 05 18:24	9° <b>5</b> 41'04		evening set	11418 Jul	01 12:21	2° <b>Ω</b> 49'38	
opposition	11411 Dec 21 20:03	7°942'51 -0°4	5'39	Ü				
min. Earth dist.	11411 Dec 21 08:15	7°5644'02 18.8	86915 AU	conjunction	11418 Jul	17 07:26	3° <b>Ω</b> 43'40	-0°17'41
direct	11412 Mar 07 17:57	5°5944'40		minimum elong	11418 Jul	17 07:26	3° <b>Ω</b> 43'40	0°18'19
evening set	11412 Jun 07 06:13	8°5548'34		max. Earth dist.	11418 Jul	17 20:06	3° <b>Ω</b> 45′29	21.06221 AU
				morning rise	11418 Aug	02 03:59	4° <b>Ω</b> 37'55	
conjunction	11412 Jun 23 00:14	9°543'02 -0°3	9'38	retrograde	11418 Nov	03 03:01	7° <b>Ω</b> 42'34	
minimum elong	11412 Jun 23 00:14	9° <b>©</b> 43'02 0°4	0'21	opposition	11419 Jan	19 13:51	5° <b>Ω</b> 44'37	-0°17'20
max. Earth dist.	11412 Jun 23 13:08	9° <b>5</b> 44'55 20.8	89039 AU	min. Earth dist.	11419 Jan	19 01:14	5° <b>Ω</b> 45'53	19.06802 AU
morning rise	11412 Jul 08 18:44	10° <b>5</b> 37'36		direct	11419 Apr	06 02:41	3° <b>Ω</b> 47'39	
retrograde	11412 Oct 09 03:32	13° <b>5</b> 43'08		evening set	11419 Jul	05 16:47	6° <b>Ω</b> 48′00	
opposition	11412 Dec 25 06:23	11°5645'01 -0°4	2'05					
min. Earth dist.	11412 Dec 24 17:07	11° <b>©</b> 46'21 18.9	91101 AU	conjunction	11419 Jul		7° <b>Ω</b> 42'02	
direct	11413 Mar 12 03:55	9° <b>©</b> 47'05		minimum elong	11419 Jul		7° <b>Ω</b> 42'02	0°14'15
evening set	11413 Jun 11 11:42	12° <b>©</b> 50'18		behind sun begin	11419 Jul		7° <b>Ω</b> 41'35	
				behind sun end	11419 Jul		7° <b>Ω</b> 42'28	
conjunction	11413 Jun 27 05:45	13°5544'40 -0°3		max. Earth dist.	11419 Jul			21.07229 AU
minimum elong	11413 Jun 27 05:45		7'03	morning rise	11419 Aug		8° <b>Ω</b> 36'17	
max. Earth dist.	11413 Jun 27 19:02	13°546'35 20.9	93046 AU	retrograde	11419 Nov		11° <b>Ω</b> 40'55	0012140
morning rise	11413 Jul 13 00:30	14° <b>©</b> 39'08		opposition	11420 Jan		9° <b>Ω</b> 42'53	
retrograde	11413 Oct 13 10:47	17° <b>©</b> 44'26	0120	min. Earth dist.	11420 Jan			19.07555 AU
opposition	11413 Dec 29 16:30	15°5046'24 -0°3		direct	11420 Apr		7° <b>Ω</b> 45'56 10° <b>Ω</b> 45'59	
min. Earth dist.	11413 Dec 29 04:03 11414 Mar 16 11:57	15°5647'39 18.9 13°5648'43	14925 AU	evening set	11420 Jul	08 21:05	10°8745'59	
direct	11414 Mar 16 11:57	13°934843 16°951'19		conjunction	11420 Jul	24 16:40	11° <b>Ω</b> 40'00	0000122
evening set	11414 Juli 13 10.39	10 2031 19		minimum elong	11420 Jul 11420 Jul		11°Ω40'00	
conjunction	11414 Jul 01 11:11	17° <b>©</b> 45'35 -0°3	2153	behind sun begin	11420 Jul		11° <b>Ω</b> 39'16	0 1008
minimum elong	11414 Jul 01 11:11	17 9 45 35 -0 3		behind sun end	11420 Jul		11° <b>Ω</b> 40'45	
max. Earth dist.	11414 Jul 02 00:36	17° <b>©</b> 47'31 20.9		max. Earth dist.	11420 Jul			21.07751 AU
morning rise	11414 Jul 17 06:13	18°539'58	70074 AU	morning rise	11420 Aug		12°Ω34'16	21.07731 AC
retrograde	11414 Oct 17 20:00	21° <b>©</b> 45'02		morning risc	11420 Aug		15°Ω	
opposition	11415 Jan 03 01:56	19° <b>©</b> 47'06 -0°3	4'24	retrograde	11420 Nov		15° <b>Ω</b> 38'57	
min. Earth dist.	11415 Jan 02 12:25	19°5548'27 18.9		ronogrado	11420 Dec		15°RΩ	
direct	11415 Mar 20 20:45	17° <b>©</b> 49'37		opposition	11421 Jan		13° <b>Ω</b> 40'48	-0°08'14
evening set	11415 Jun 19 22:09	20° <b>©</b> 51'41		min. Earth dist.	11421 Jan			19.07845 AU
8-11				direct	11421 Apr	13 15:52	11° <b>Ω</b> 43'51	
conjunction	11415 Jul 05 16:27	21°9645'52 -0°2	9'16	evening set	11421 Jul		14° <b>Ω</b> 43'41	
minimum elong	11415 Jul 05 16:27	21°9545'52 0°2	9'57		11421 Jul	17 21:16	15° <b>Ω</b>	
max. Earth dist.	11415 Jul 06 05:55	21°5647'48 20.9	99842 AU					
morning rise	11415 Jul 21 11:47	22°5540'12		conjunction	11421 Jul	28 21:24	15° <b>Ω</b> 37'43	-0°05'24
retrograde	11415 Oct 22 02:39	25°9545'06		minimum elong	11421 Jul	28 21:24	15° <b>Ω</b> 37'43	0°05'57
opposition	11416 Jan 07 11:26	23°547'13 -0°3	0'19	behind sun begin	11421 Jul	28 15:07	15° <b>Ω</b> 36'51	
min. Earth dist.	11416 Jan 06 23:03	23°548'27 19.0	01260 AU	behind sun end	11421 Jul	29 03:41	15° <b>Ω</b> 38'36	
direct	11416 Mar 24 03:50	21° <b>5</b> 49'56		max. Earth dist.	11421 Jul	29 09:43	15° <b>Ω</b> 39'28	21.07817 AU
evening set	11416 Jun 23 02:58	24° <b>©</b> 51'30		morning rise	11421 Aug	13 19:26	16° <b>Ω</b> 32'02	
				retrograde	11421 Nov		19° <b>Ω</b> 36'48	
conjunction	11416 Jul 08 21:28	25°545'36 -0°2	5'31	opposition	11422 Jan	31 14:04	17° <b>Ω</b> 38'31	
minimum elong	11416 Jul 08 21:28	25°5645'36 0°2		min. Earth dist.	11422 Jan			19.07708 AU
max. Earth dist.	11416 Jul 09 10:46	25°5647'31 21.0	)2521 AU	direct	11422 Apr		15° <b>Ω</b> 41'34	
morning rise	11416 Jul 24 17:09	26°539'53		evening set	11422 Jul	17 05:37	18° <b>Ω</b> 41'16	
retrograde	11416 Oct 25 11:58	29°5544'42	cio c		11100 1		100 00 5100	0001112
opposition	11417 Jan 10 20:32	27°546'49 -0°2		conjunction	11422 Aug		19° <b>£</b> 35′20	
min. Earth dist.	11417 Jan 10 07:16	27°548'09 19.0	13668 AU	minimum elong	11422 Aug		19° <b>Ω</b> 35'20	0°01'44
direct	11417 Mar 28 12:19	25°549'41		behind sun begin behind sun end	11422 Aug		19° <b>Ω</b> 34'25 19° <b>Ω</b> 36'15	
evening set	11417 Jun 27 07:47	28° <b>©</b> 50'48		max. Earth dist.	11422 Aug			21.07487 AU
agniumation	11417 Jul 12 02:21	200644152 002	1!20		11422 Aug		19 <b>δ</b> <i>t</i> 3/02 20° <b>Ω</b> 29'41	21.0/48/ AU
conjunction minimum elong	11417 Jul 13 02:31 11417 Jul 13 02:31	29°544'52 -0°2 29°544'52 0°2		morning rise asc. node	11422 Aug 11422 Nov		20°8€2941 23°€34'32	
max. Earth dist.	11417 Jul 13 02.31 11417 Jul 13 15:38	29°5046'45 21.0		retrograde	11422 Nov		23°Ω34'36	
max. Darui dist.	11417 Jul 13 13:38	0°Ω	, 107/ 110	opposition	11422 Nov		21° <b>Ω</b> 36'13	0°01'00
morning rise	11417 Jul 28 22:36	0° <b>Ω</b> 39'08		min. Earth dist.	11423 Feb			19.07181 AU
retrograde	11417 Oct 29 18:08	3° <b>Ω</b> 43'51		direct	11423 Apr		19° <b>Ω</b> 39'16	->.07101710
opposition	11417 Jan 15 05:24	1° <b>Ω</b> 45'57 -0°2	1'46	evening set	11423 Apr		22° <b>Ω</b> 38'54	
min. Earth dist.	11418 Jan 14 17:28	1° <b>Ω</b> 47'09 19.0				0.01	300001	
	11418 Mar 11 12:26	30°Rூ		conjunction	11423 Aug	06 07:02	23° <b>Ω</b> 33'01	0°03'05
direct	11418 Apr 01 18:29	29°5048'56		minimum elong	11423 Aug		23° <b>Ω</b> 33'01	0°02'37
				- 0	_			
	11418 Apr 22 17:47	$0^{\circ}\Omega$		behind sun begin	11423 Aug	06 00:27	23° <b>£</b> 32′06	

	11422 Aug 06 12:27	23° <b>Ω</b> 33'56		agniumation	11420 Ava 20 10:04	17° <b>m</b> 29'47	0027115
behind sun end	11423 Aug 06 13:37		21.07772.411	conjunction	11429 Aug 29 19:04	-	
max. Earth dist.	11423 Aug 06 19:00		21.06763 AU	minimum elong	11429 Aug 29 19:04	17° Mp 29'47	0°27'02
morning rise	11423 Aug 22 06:07	24° <b>Ω</b> 27'27		max. Earth dist.	11429 Aug 30 04:13	~	20.94205 AU
retrograde	11423 Nov 23 14:07	27° <b>Ω</b> 32'34		morning rise	11429 Sep 14 21:53	18° <b>m</b> 24'58	
opposition	11424 Feb 09 05:16	25° <b>Ω</b> 34'05		retrograde	11429 Dec 17 18:56	21° <b>m</b> 32'24	
min. Earth dist.	11424 Feb 08 18:27		19.06274 AU	opposition	11430 Mar 05 04:39	19° <b>m</b> 33'17	
direct	11424 Apr 25 08:16	23° <b>Ω</b> 37′08		min. Earth dist.	11430 Mar 04 21:06	~	18.92433 AU
evening set	11424 Jul 24 14:31	26° <b>Ω</b> 36'46		direct	11430 May 19 17:52	17° Mp 36'02	
				evening set	11430 Aug 18 02:02	20° Mp 37'08	
conjunction	11424 Aug 09 11:59	27° <b>Ω</b> 30′57	0°07'15				
minimum elong	11424 Aug 09 11:59	27° <b>Ω</b> 30′57	0°06'48	conjunction	11430 Sep 03 02:52	21° Mp 32'06	0°30'59
behind sun begin	11424 Aug 09 05:50	27° <b>Ω</b> 30′06		minimum elong	11430 Sep 03 02:52	21° Mp 32'06	0°30'50
behind sun end	11424 Aug 09 18:07	27° <b>Ω</b> 31'49		max. Earth dist.	11430 Sep 03 10:38	21°m/33'13	20.90522 AU
max. Earth dist.	11424 Aug 09 23:36	27° <b>Ω</b> 32'36	21.05680 AU	morning rise	11430 Sep 19 06:22	22° m) 27'28	
morning rise	11424 Aug 25 11:41	28° <b>Ω</b> 25'28		retrograde	11430 Dec 22 06:07	25° m) 35'24	
8	11424 Sep 25 05:37	0°m)		opposition	11431 Mar 09 13:09	23° m) 36'06	0°36'16
retrograde	11424 Nov 26 22:38	1° mp 30'52		min. Earth dist.	11431 Mar 09 05:48	23° m/36'50	
retrograde	11425 Jan 31 22:04	30°RΩ		direct	11431 May 24 00:51	21° m/38'40	10.00472710
opposition	11425 Feb 12 12:52	29° <b>Ω</b> 32'17	0°10'13	evening set	11431 Aug 22 09:44	24° m/ 40'13	
• •			19.04999 AU	evening set	11431 Aug 22 09.44	24 11/4013	
min. Earth dist.	11425 Feb 12 01:19		19.04999 AU		11421 0 07 11 14	250m-25122	0024125
direct	11425 Apr 29 14:36	27° <b>Ω</b> 35'19		conjunction	11431 Sep 07 11:14	25° m 35'22	0°34'35
	11425 Jul 18 02:49	0° <b>m</b> )		minimum elong	11431 Sep 07 11:14	25° <b>m</b> 35'22	0°34'27
evening set	11425 Jul 28 19:24	0°m/35'02		max. Earth dist.	11431 Sep 07 18:19	•	20.86325 AU
				morning rise	11431 Sep 23 15:20	26° Mp 30'55	
conjunction	11425 Aug 13 17:22	1° <b>m</b> 29'19	0°11'22	retrograde	11431 Dec 26 15:48	29° Mp 39'22	
minimum elong	11425 Aug 13 17:23	1° <b>m</b> 29'19	0°10'58	opposition	11432 Mar 12 22:06	27° <b>m</b> 39'50	0°40'10
behind sun begin	11425 Aug 13 12:23	1° <b>m</b> 28'37		min. Earth dist.	11432 Mar 12 16:21	27° <b>m</b> 40'25	18.84056 AU
behind sun end	11425 Aug 13 22:22	1° <b>m</b> 30'01		direct	11432 May 27 07:39	25° Mp 42'12	
max. Earth dist.	11425 Aug 14 04:54	1° <b>m</b> 30'57	21.04208 AU	evening set	11432 Aug 25 17:49	28° <b>m</b> 44'12	
morning rise	11425 Aug 29 17:40	2° m 23'56		-	-		
retrograde	11425 Dec 01 05:50	5° m) 29'39		conjunction	11432 Sep 10 19:59	29° m 39'33	0°38'01
opposition	11426 Feb 16 20:28	3° m/30'59	0°14'47	minimum elong	11432 Sep 10 19:59	29° m 39'33	0°37'57
min. Earth dist.	11426 Feb 16 10:13		19.03338 AU	max. Earth dist.	11432 Sep 10 13:33	~	20.81679 AU
direct	11426 May 03 18:47	1° mg 34'00	17.03330710	max. Lartii dist.	11432 Sep 16 17:32	0° <b>⊽</b>	20.01077710
evening set	11426 Aug 02 00:35	-		morning rise	11432 Sep 10 17.32 11432 Sep 27 00:52	0° <b>-</b> 235'18	
evening set	11420 Aug 02 00.55	4° m 33'52		-	11432 Sep 27 00.32 11432 Dec 30 03:47		
. ,.	11406 4 17 22 06	50 <b>m</b> 2011 5	0015107	retrograde		3° <b>Ω</b> 44'18	00.4215.4
conjunction	11426 Aug 17 23:06	5° m 28'15	0°15'27	opposition	11433 Mar 17 07:09	1° <b>≏</b> 44'30	
minimum elong	11426 Aug 17 23:06	5°M)28'15	0°15'05	min. Earth dist.	11433 Mar 17 01:38	1° <b>≏</b> 45'04	18.79201 AU
behind sun begin	•	50 m 27156			11/122 May 09 15:21	30°₽,₩)	
U	11426 Aug 17 20:44	5° Mg 27′56			11433 May 08 15:21	-	
behind sun end	11426 Aug 18 01:28	5° m/28'35		direct	11433 May 31 15:20	29° Mp 46'36	
U		5° m/28'35	21.02360 AU	direct	,	29° M 46'36 0° <u>Ω</u>	
behind sun end	11426 Aug 18 01:28	5° m/28'35	21.02360 AU	direct evening set	11433 May 31 15:20	29° Mp 46'36	
behind sun end max. Earth dist.	11426 Aug 18 01:28 11426 Aug 18 09:59	5° m 28'35 5° m 29'48	21.02360 AU		11433 May 31 15:20 11433 Jun 23 09:15	29° M 46'36 0° <u>Ω</u>	
behind sun end max. Earth dist. morning rise	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03	5° m/28'35 5° m/29'48 6° m/23'00			11433 May 31 15:20 11433 Jun 23 09:15	29° M 46'36 0° <u>Ω</u>	0°41'16
behind sun end max. Earth dist. morning rise retrograde	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19		evening set	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36	29° നൂ 46'36 0° <u>മ</u> 2° <u>മ</u> 49'09	
behind sun end max. Earth dist. morning rise retrograde opposition	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23	0°19'17	evening set	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36 11433 Sep 15 05:29	29° m/46'36 0° Ω 2° Ω 49'09 3° Ω 44'42 3° Ω 44'42	
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist.	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29 11427 May 08 01:05	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19	0°19'17	evening set  conjunction  minimum elong	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36 11433 Sep 15 05:29 11433 Sep 15 05:28	29° m/46'36 0° Ω 2° Ω 49'09 3° Ω 44'42 3° Ω 44'42	0°41'15
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18	0°19'17	evening set  conjunction  minimum elong  max. Earth dist.	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36 11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44	29° M 46'36 0° Ω 2° Ω 49'09 3° Ω 44'42 3° Ω 44'42 3° Ω 45'28	0°41'15
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29 11427 May 08 01:05 11427 Aug 06 06:08	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18 8° m 33'23	0°19'17 19.01283 AU	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36 11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44 11433 Oct 01 10:57 11434 Jan 03 13:51	29° M46'36 0° Ω 2° Ω49'09 3° Ω44'42 3° Ω44'42 3° Ω45'28 4° Ω40'40 7° Ω50'13	0°41'15 20.76625 AU
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29 11427 May 08 01:05 11427 Aug 06 06:08	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18 8° m 33'23	0°19'17 19.01283 AU 0°19'28	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36 11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44 11433 Oct 01 10:57 11434 Jan 03 13:51 11434 Mar 21 16:23	29° M46'36 0° Ω 2° Ω49'09 3° Ω44'42 3° Ω44'42 3° Ω45'28 4° Ω40'40 7° Ω50'13 5° Ω50'10	0°41'15 20.76625 AU 0°47'24
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29 11427 May 08 01:05 11427 Aug 06 06:08 11427 Aug 22 05:11 11427 Aug 22 05:11	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18 8° m 33'23 9° m 27'54 9° m 27'54	0°19'17 19.01283 AU 0°19'28 0°19'09	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36 11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44 11433 Oct 01 10:57 11434 Jan 03 13:51 11434 Mar 21 16:23 11434 Mar 21 12:17	29° M46'36 0° Ω 2° Ω49'09 3° Ω44'42 3° Ω44'42 3° Ω45'28 4° Ω40'40 7° Ω50'13 5° Ω50'10 5° Ω50'35	0°41'15 20.76625 AU
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29 11427 May 08 01:05 11427 Aug 06 06:08 11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 15:50	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18 8° m 33'23 9° m 27'54 9° m 27'54 9° m 29'25	0°19'17 19.01283 AU 0°19'28	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36 11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44 11433 Oct 01 10:57 11434 Jan 03 13:51 11434 Mar 21 16:23 11434 Mar 21 12:17 11434 Jun 04 22:48	29° m/46'36 0° Ω 2° Ω49'09 3° Ω44'42 3° Ω44'42 3° Ω45'28 4° Ω40'40 7° Ω50'13 5° Ω50'10 5° Ω50'35 3° Ω52'00	0°41'15 20.76625 AU 0°47'24
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Hay 08 01:05 11427 Aug 06 06:08 11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 15:50 11427 Sep 07 06:42	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18 8° m 33'23 9° m 27'54 9° m 29'25 10° m 22'47	0°19'17 19.01283 AU 0°19'28 0°19'09	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36 11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44 11433 Oct 01 10:57 11434 Jan 03 13:51 11434 Mar 21 16:23 11434 Mar 21 12:17	29° M46'36 0° Ω 2° Ω49'09 3° Ω44'42 3° Ω44'42 3° Ω45'28 4° Ω40'40 7° Ω50'13 5° Ω50'10 5° Ω50'35	0°41'15 20.76625 AU 0°47'24
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29 11427 May 08 01:05 11427 Aug 06 06:08 11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 15:50 11427 Sep 07 06:42 11427 Dec 09 23:16	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18 8° m 33'23 9° m 27'54 9° m 29'25 10° m 22'47 13° m 29'16	0°19'17 19.01283 AU 0°19'28 0°19'09 21.00087 AU	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36 11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44 11433 Oct 01 10:57 11434 Jan 03 13:51 11434 Mar 21 16:23 11434 Mar 21 12:17 11434 Jun 04 22:48 11434 Sep 03 11:58	29° \( \partial 46'36\) 0° \( \Omega \) 2° \( \Omega \) 49'09 3° \( \Omega \) 44'42 3° \( \Omega \) 45'28 4° \( \Omega \) 40'40 7° \( \Omega \) 50'13 5° \( \Omega \) 50'35 3° \( \Omega \) 52'00 6° \( \Omega \) 55'09	0°41'15 20.76625 AU 0°47'24 18.73979 AU
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29 11427 May 08 01:05 11427 Aug 06 06:08 11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 15:50 11427 Sep 07 06:42 11427 Dec 09 23:16 11428 Feb 25 12:10	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18 8° m 33'23 9° m 27'54 9° m 27'54 9° m 29'25 10° m 22'47 13° m 29'16 11° m 30'25	0°19'17 19.01283 AU 0°19'28 0°19'09 21.00087 AU 0°23'41	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36 11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44 11433 Oct 01 10:57 11434 Jun 03 13:51 11434 Mar 21 16:23 11434 Jun 04 22:48 11434 Sep 03 11:58	29° m/46'36 0° Ω 2° Ω49'09 3° Ω44'42 3° Ω44'42 3° Ω45'28 4° Ω40'40 7° Ω50'13 5° Ω50'10 5° Ω50'35 3° Ω52'00 6° Ω55'09	0°41'15 20.76625 AU 0°47'24 18.73979 AU 0°44'20
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29 11427 May 08 01:05 11427 Aug 06 06:08 11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 15:50 11427 Sep 07 06:42 11427 Dec 09 23:16 11428 Feb 25 12:10 11428 Feb 25 02:57	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18 8° m 33'23 9° m 27'54 9° m 27'54 9° m 29'25 10° m 22'47 13° m 29'16 11° m 30'25 11° m 31'21	0°19'17 19.01283 AU 0°19'28 0°19'09 21.00087 AU	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36 11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44 11433 Oct 01 10:57 11434 Jun 03 13:51 11434 Mar 21 16:23 11434 Mar 21 12:17 11434 Jun 04 22:48 11434 Sep 03 11:58 11434 Sep 19 15:29 11434 Sep 19 15:28	29° m/46'36 0° Ω 2° Ω49'09 3° Ω44'42 3° Ω44'42 3° Ω45'28 4° Ω40'40 7° Ω50'13 5° Ω50'10 5° Ω50'35 3° Ω55'09 7° Ω50'56 7° Ω50'56	0°41'15 20.76625 AU 0°47'24 18.73979 AU 0°44'20 0°44'21
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29 11427 May 08 01:05 11427 Aug 06 06:08 11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 15:50 11427 Sep 07 06:42 11427 Dec 09 23:16 11428 Feb 25 12:10 11428 Feb 25 02:57 11428 May 11 05:43	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18 8° m 33'23 9° m 27'54 9° m 29'15 10° m 22'47 13° m 29'16 11° m 30'25 11° m 31'21 9° m 33'22	0°19'17 19.01283 AU 0°19'28 0°19'09 21.00087 AU 0°23'41	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36  11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44 11433 Oct 01 10:57 11434 Jun 03 13:51 11434 Mar 21 16:23 11434 Mar 21 12:17 11434 Jun 04 22:48 11434 Sep 03 11:58  11434 Sep 19 15:29 11434 Sep 19 15:28 11434 Sep 19 15:28 11434 Sep 19 19:24	29° m/46'36 0° Ω 2° Ω49'09 3° Ω44'42 3° Ω44'42 3° Ω45'28 4° Ω40'40 7° Ω50'13 5° Ω50'10 5° Ω50'35 3° Ω52'00 6° Ω55'09 7° Ω50'56 7° Ω50'55 7° Ω50'55	0°41'15 20.76625 AU 0°47'24 18.73979 AU 0°44'20
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29 11427 May 08 01:05 11427 Aug 06 06:08 11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 15:50 11427 Sep 07 06:42 11427 Dec 09 23:16 11428 Feb 25 12:10 11428 Feb 25 02:57	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18 8° m 33'23 9° m 27'54 9° m 27'54 9° m 29'25 10° m 22'47 13° m 29'16 11° m 30'25 11° m 31'21	0°19'17 19.01283 AU 0°19'28 0°19'09 21.00087 AU 0°23'41	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	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36  11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44 11433 Oct 01 10:57 11434 Jun 03 13:51 11434 Mar 21 16:23 11434 Mar 21 12:17 11434 Jun 04 22:48 11434 Sep 03 11:58  11434 Sep 19 15:29 11434 Sep 19 15:28 11434 Sep 19 15:28 11434 Sep 19 19:24 11434 Oct 05 21:42	29° m/46'36 0° Ω 2° Ω49'09 3° Ω44'42 3° Ω44'42 3° Ω45'28 4° Ω40'40 7° Ω50'13 5° Ω50'10 5° Ω50'35 3° Ω52'00 6° Ω55'09 7° Ω50'56 7° Ω50'55 7° Ω51'30 8° Ω47'06	0°41'15 20.76625 AU 0°47'24 18.73979 AU 0°44'20 0°44'21
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29 11427 May 08 01:05 11427 Aug 06 06:08 11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 15:50 11427 Sep 07 06:42 11427 Dec 09 23:16 11428 Feb 25 12:10 11428 Feb 25 02:57 11428 May 11 05:43 11428 Aug 09 12:13	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18 8° m 33'23 9° m 27'54 9° m 27'54 9° m 29'25 10° m 22'47 13° m 29'16 11° m 30'25 11° m 31'21 9° m 33'22 12° m 33'44	0°19'17 19.01283 AU 0°19'28 0°19'09 21.00087 AU 0°23'41 18.98797 AU	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	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36  11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44 11433 Oct 01 10:57 11434 Jun 03 13:51 11434 Mar 21 16:23 11434 Mar 21 12:17 11434 Jun 04 22:48 11434 Sep 19 15:29 11434 Sep 19 15:29 11434 Sep 19 15:28 11434 Sep 19 15:28 11434 Sep 19 19:24 11434 Oct 05 21:42 11435 Jan 08 02:53	29° m/46'36 0° Ω 2° Ω49'09 3° Ω44'42 3° Ω44'42 3° Ω45'28 4° Ω40'40 7° Ω50'13 5° Ω50'10 5° Ω50'35 3° Ω52'00 6° Ω55'09 7° Ω50'55 7° Ω50'55 7° Ω51'30 8° Ω47'06 11° Ω57'16	0°41'15 20.76625 AU 0°47'24 18.73979 AU 0°44'20 0°44'21 20.71261 AU
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29 11427 May 08 01:05 11427 Aug 06 06:08 11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 15:50 11427 Sep 07 06:42 11428 Feb 25 12:10 11428 Feb 25 02:57 11428 May 11 05:43 11428 Aug 09 12:13	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18 8° m 33'23 9° m 27'54 9° m 29'15 10° m 22'47 13° m 29'16 11° m 30'25 11° m 31'21 9° m 33'22 12° m 33'44	0°19'17 19.01283 AU 0°19'28 0°19'09 21.00087 AU 0°23'41 18.98797 AU	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36  11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44 11433 Oct 01 10:57 11434 Jan 03 13:51 11434 Mar 21 16:23 11434 Mar 21 12:17 11434 Jun 04 22:48 11434 Sep 19 15:28 11434 Sep 19 15:28 11434 Sep 19 15:28 11434 Oct 05 21:42 11435 Jan 08 02:53 11435 Mar 26 01:57	29° m/46'36 0° Ω 2° Ω49'09 3° Ω44'42 3° Ω45'28 4° Ω40'40 7° Ω50'13 5° Ω50'10 5° Ω50'35 3° Ω52'00 6° Ω55'09 7° Ω50'55 7° Ω51'30 8° Ω47'06 11° Ω57'16 9° Ω56'57	0°41'15 20.76625 AU 0°47'24 18.73979 AU 0°44'20 0°44'21 20.71261 AU
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min Earth dist. direct evening set	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29 11427 May 08 01:05 11427 Aug 06 06:08 11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 15:50 11427 Sep 07 06:42 11427 Dec 09 23:16 11428 Feb 25 12:10 11428 Feb 25 02:57 11428 May 11 05:43 11428 Aug 09 12:13	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18 8° m 33'23 9° m 27'54 9° m 27'54 9° m 29'25 10° m 22'47 13° m 29'16 11° m 30'25 11° m 31'21 9° m 33'22 12° m 33'44	0°19'17 19.01283 AU 0°19'28 0°19'09 21.00087 AU 0°23'41 18.98797 AU	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	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36  11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44 11433 Oct 01 10:57 11434 Jun 03 13:51 11434 Mar 21 16:23 11434 Mar 21 12:17 11434 Jun 04 22:48 11434 Sep 19 15:29 11434 Sep 19 15:29 11434 Sep 19 15:28 11434 Sep 19 15:28 11434 Sep 19 19:24 11434 Oct 05 21:42 11435 Jan 08 02:53	29° m/46'36 0° \( \text{0} \) 2° \( \text{0} \) 3° \( \text{0} \) 44'42 3° \( \text{0} \) 44'42 3° \( \text{0} \) 40'40 7° \( \text{0} \) 5° \( \text{0} \)	0°41'15 20.76625 AU 0°47'24 18.73979 AU 0°44'20 0°44'21 20.71261 AU
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29 11427 May 08 01:05 11427 Aug 06 06:08 11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 15:50 11427 Sep 07 06:42 11428 Feb 25 12:10 11428 Feb 25 02:57 11428 May 11 05:43 11428 Aug 09 12:13	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18 8° m 33'23 9° m 27'54 9° m 27'54 9° m 29'25 10° m 22'47 13° m 29'16 11° m 30'25 11° m 31'21 9° m 33'22 12° m 33'44	0°19'17 19.01283 AU 0°19'28 0°19'09 21.00087 AU 0°23'41 18.98797 AU	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36  11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44 11433 Oct 01 10:57 11434 Jan 03 13:51 11434 Mar 21 16:23 11434 Mar 21 12:17 11434 Jun 04 22:48 11434 Sep 19 15:28 11434 Sep 19 15:28 11434 Sep 19 15:28 11434 Oct 05 21:42 11435 Jan 08 02:53 11435 Mar 26 01:57	29° m/46'36 0° Ω 2° Ω49'09 3° Ω44'42 3° Ω45'28 4° Ω40'40 7° Ω50'13 5° Ω50'10 5° Ω50'35 3° Ω52'00 6° Ω55'09 7° Ω50'55 7° Ω51'30 8° Ω47'06 11° Ω57'16 9° Ω56'57	0°41'15 20.76625 AU 0°47'24 18.73979 AU 0°44'20 0°44'21 20.71261 AU
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min Earth dist. direct evening set	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29 11427 May 08 01:05 11427 Aug 06 06:08 11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 15:50 11427 Sep 07 06:42 11427 Dec 09 23:16 11428 Feb 25 02:57 11428 May 11 05:43 11428 Aug 09 12:13 11428 Aug 25 11:50 11428 Aug 25 11:50	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18 8° m 33'23 9° m 27'54 9° m 27'54 9° m 29'25 10° m 22'47 13° m 29'16 11° m 30'25 11° m 31'21 9° m 33'22 12° m 33'44	0°19'17 19.01283 AU 0°19'28 0°19'09 21.00087 AU 0°23'41 18.98797 AU	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36  11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44 11433 Oct 01 10:57 11434 Jan 03 13:51 11434 Mar 21 16:23 11434 Mar 21 12:17 11434 Jun 04 22:48 11434 Sep 19 15:29 11434 Sep 19 15:29 11434 Sep 19 15:28 11434 Sep 19 15:28 11434 Sep 19 19:24 11435 Jan 08 02:53 11435 Mar 26 01:57 11435 Mar 25 22:01	29° m/46'36 0° \( \text{0} \) 2° \( \text{0} \) 3° \( \text{0} \) 44'42 3° \( \text{0} \) 44'42 3° \( \text{0} \) 40'40 7° \( \text{0} \) 5° \( \text{0} \)	0°41'15 20.76625 AU 0°47'24 18.73979 AU 0°44'20 0°44'21 20.71261 AU
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29 11427 May 08 01:05 11427 Aug 06 06:08 11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 15:50 11427 Sep 07 06:42 11427 Dec 09 23:16 11428 Feb 25 12:10 11428 Feb 25 02:57 11428 May 11 05:43 11428 Aug 25 11:50 11428 Aug 25 11:50 11428 Aug 25 11:50 11428 Aug 25 21:34	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18 8° m 33'23 9° m 27'54 9° m 29'25 10° m 22'47 13° m 29'16 11° m 30'25 11° m 31'21 9° m 33'22 12° m 33'44  13° m 28'23 13° m 28'23 13° m 29'47	0°19'17 19.01283 AU 0°19'28 0°19'09 21.00087 AU 0°23'41 18.98797 AU	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36  11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44 11433 Oct 01 10:57 11434 Jan 03 13:51 11434 Mar 21 16:23 11434 Mar 21 12:17 11434 Jun 04 22:48 11434 Sep 19 15:29 11434 Sep 19 15:29 11434 Sep 19 15:28 11434 Sep 19 15:28 11434 Sep 19 19:24 11435 Jan 08 02:53 11435 Mar 26 01:57 11435 Mar 25 22:01 11435 Jun 09 07:15	29° m/46'36 0° Ω 2° Ω 49'09 3° Ω 44'42 3° Ω 44'42 3° Ω 45'28 4° Ω 40'40 7° Ω 50'13 5° Ω 50'35 3° Ω 52'00 6° Ω 55'09 7° Ω 50'56 7° Ω 50'55 7° Ω 51'30 8° Ω 47'06 11° Ω 57'16 9° Ω 56'57 9° Ω 55'21 7° Ω 58'30	0°41'15 20.76625 AU 0°47'24 18.73979 AU 0°44'20 0°44'21 20.71261 AU
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29 11427 May 08 01:05 11427 Aug 06 06:08  11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 15:50 11427 Sep 07 06:42 11427 Dec 09 23:16 11428 Feb 25 12:10 11428 Feb 25 02:57 11428 May 11 05:43 11428 Aug 09 12:13  11428 Aug 25 11:50 11428 Aug 25 11:50 11428 Aug 25 21:34 11428 Sep 10 14:02	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18 8° m 33'23 9° m 27'54 9° m 27'54 9° m 29'15 10° m 30'25 11° m 31'21 9° m 33'22 12° m 33'44 13° m 28'23 13° m 28'23 13° m 29'47 14° m 23'24	0°19'17 19.01283 AU 0°19'28 0°19'09 21.00087 AU 0°23'41 18.98797 AU	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36  11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44 11433 Oct 01 10:57 11434 Jan 03 13:51 11434 Mar 21 16:23 11434 Mar 21 12:17 11434 Jun 04 22:48 11434 Sep 19 15:29 11434 Sep 19 15:29 11434 Sep 19 15:28 11434 Sep 19 15:28 11434 Sep 19 19:24 11435 Jan 08 02:53 11435 Mar 26 01:57 11435 Mar 25 22:01 11435 Jun 09 07:15	29° m/46'36 0° Ω 2° Ω 49'09 3° Ω 44'42 3° Ω 44'42 3° Ω 45'28 4° Ω 40'40 7° Ω 50'13 5° Ω 50'35 3° Ω 52'00 6° Ω 55'09 7° Ω 50'56 7° Ω 50'55 7° Ω 51'30 8° Ω 47'06 11° Ω 57'16 9° Ω 56'57 9° Ω 55'21 7° Ω 58'30	0°41'15 20.76625 AU 0°47'24 18.73979 AU 0°44'20 0°44'21 20.71261 AU 0°50'42 18.68481 AU
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29 11427 May 08 01:05 11427 Aug 06 06:08  11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 15:50 11427 Sep 07 06:42 11427 Dec 09 23:16 11428 Feb 25 12:10 11428 Feb 25 02:57 11428 May 11 05:43 11428 Aug 09 12:13  11428 Aug 25 11:50 11428 Aug 25 11:50 11428 Aug 25 21:34 11428 Sep 10 14:02 11428 Dec 13 09:58	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18 8° m 33'23 9° m 27'54 9° m 27'54 9° m 29'25 10° m 22'47 13° m 29'16 11° m 30'25 11° m 31'21 9° m 33'22 12° m 33'44 13° m 28'23 13° m 28'23 13° m 29'47 14° m 23'24 17° m 30'22 15° m 31'23	0°19'17 19.01283 AU 0°19'28 0°19'09 21.00087 AU 0°23'41 18.98797 AU 0°23'25 0°23'09 20.97389 AU	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36  11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44 11433 Oct 01 10:57 11434 Jan 03 13:51 11434 Mar 21 16:23 11434 Mar 21 12:17 11434 Jun 04 22:48 11434 Sep 19 15:29 11434 Sep 19 15:29 11434 Sep 19 15:28 11434 Sep 19 15:28 11434 Sep 19 19:24 11434 Oct 05 21:42 11435 Jan 08 02:53 11435 Mar 26 01:57 11435 Mar 25 22:01 11435 Sep 07 21:48	29° m/46'36 0° n 2° n 49'09 3° n 44'42 3° n 44'42 3° n 45'28 4° n 40'40 7° n 50'13 5° n 50'35 3° n 52'00 6° n 55'09 7° n 50'56 7° n 50'55 7° n 51'30 8° n 47'06 11° n 57'16 9° n 56'57 9° n 57'21 7° n 58'30 11° n 02'19	0°41'15 20.76625 AU 0°47'24 18.73979 AU 0°44'20 0°44'21 20.71261 AU 0°50'42 18.68481 AU
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. direct evening set	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29 11427 May 08 01:05 11427 Aug 06 06:08  11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 15:50 11427 Sep 07 06:42 11427 Dec 09 23:16 11428 Feb 25 12:10 11428 Feb 25 02:57 11428 May 11 05:43 11428 Aug 09 12:13  11428 Aug 25 11:50 11428 Aug 25 21:34 11428 Dec 13 09:58 11429 Feb 28 20:13 11429 Feb 28 10:58	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18 8° m 33'23 9° m 27'54 9° m 29'25 10° m 22'47 13° m 29'16 11° m 30'25 11° m 31'21 9° m 33'22 12° m 33'44 13° m 28'23 13° m 28'23 13° m 28'23 13° m 29'47 14° m 23'24 17° m 30'22 15° m 31'23 15° m 32'19	0°19'17 19.01283 AU 0°19'28 0°19'09 21.00087 AU 0°23'41 18.98797 AU 0°23'25 0°23'09 20.97389 AU	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36  11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44 11433 Oct 01 10:57 11434 Jun 03 13:51 11434 Mar 21 16:23 11434 Jun 04 22:48 11434 Sep 19 15:29 11434 Sep 19 15:29 11434 Sep 19 15:28 11434 Sep 19 15:28 11434 Sep 19 19:24 11434 Oct 05 21:42 11435 Jan 08 02:53 11435 Mar 26 01:57 11435 Mar 25 22:01 11435 Sep 07 21:48 11435 Sep 07 21:48	29° m/46'36 0° \( \text{0} \) 2° \( \text{0} \) 3° \( \text{0} \) 44'42 3° \( \text{0} \) 40'40 7° \( \text{0} \) 5° \( \text{0} \) 6° \( \text{0} \) 5° \( \text{0} \) 5° \( \text{0} \) 6° \( \text{0} \) 5' \(	0°41'15 20.76625 AU 0°47'24 18.73979 AU 0°44'20 0°44'21 20.71261 AU 0°50'42 18.68481 AU
behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. morning rise retrograde opposition min. Earth dist.	11426 Aug 18 01:28 11426 Aug 18 09:59 11426 Sep 03 00:03 11426 Dec 05 15:27 11427 Feb 21 04:09 11427 Feb 20 17:29 11427 May 08 01:05 11427 Aug 06 06:08  11427 Aug 22 05:11 11427 Aug 22 05:11 11427 Aug 22 15:50 11427 Sep 07 06:42 11427 Dec 09 23:16 11428 Feb 25 12:10 11428 Feb 25 02:57 11428 May 11 05:43 11428 Aug 09 12:13  11428 Aug 25 11:50 11428 Aug 25 11:50 11428 Aug 25 21:34 11428 Aug 25 21:34 11428 Sep 10 14:02 11428 Dec 13 09:58 11429 Feb 28 20:13	5° m 28'35 5° m 29'48 6° m 23'00 9° m 29'04 7° m 30'19 7° m 31'23 5° m 33'18 8° m 33'23 9° m 27'54 9° m 27'54 9° m 29'25 10° m 22'47 13° m 29'16 11° m 30'25 11° m 31'21 9° m 33'22 12° m 33'44 13° m 28'23 13° m 28'23 13° m 29'47 14° m 23'24 17° m 30'22 15° m 31'23	0°19'17 19.01283 AU 0°19'28 0°19'09 21.00087 AU 0°23'41 18.98797 AU 0°23'25 0°23'09 20.97389 AU	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set	11433 May 31 15:20 11433 Jun 23 09:15 11433 Aug 30 02:36  11433 Sep 15 05:29 11433 Sep 15 05:28 11433 Sep 15 10:44 11433 Oct 01 10:57 11434 Jun 03 13:51 11434 Mar 21 16:23 11434 Mar 21 12:17 11434 Jun 04 22:48 11434 Sep 19 15:29 11434 Sep 19 15:28 11435 Jun 08 02:53 11435 Mar 26 01:57 11435 Jun 09 07:15 11435 Sep 07 21:48  11435 Sep 24 02:02 11435 Sep 24 02:02	29° m/46'36 0° \( \text{0} \) 2° \( \text{0} \) 3° \( \text{0} \) 44'42 3° \( \text{0} \) 40'40 7° \( \text{0} \) 5° \( \text{0} \) 6° \( \text{0} \) 5° \( \text{0} \) 5° \( \text{0} \) 6° \( \text{0} \) 5' \(	0°41'15 20.76625 AU 0°47'24 18.73979 AU 0°44'20 0°44'21 20.71261 AU 0°50'42 18.68481 AU

11448 Nov 03 13:33

evening set

7°**∡**11'57

11442 Jul 08 05:14

direct

7°M27'08

conjunction	11448 Nov 20 02:14	8° <b>√</b> 11'42	0°57'20	retrograde	11455 Apr 08 10:38	10° <b>る</b> 13'29	
3		8° × 11'42		•	•	8°る10'01	0945144
minimum elong	11448 Nov 20 02:14		0°58'17	opposition	11455 Jun 21 20:56		
max. Earth dist.	11448 Nov 19 16:32		19.82233 AU	min. Earth dist.	11455 Jun 22 07:38		17.47991 AU
morning rise	11448 Dec 06 16:05	9° <b>√</b> 11'39		direct	11455 Sep 04 17:55	6° <b>る</b> 05'34	
retrograde	11449 Mar 10 18:09	12° <b>∡</b> ³31'53		evening set	11455 Dec 07 17:05	9° <b>る</b> 29'24	
opposition	11449 May 24 23:09	10° <b>≯</b> 28'51	1°03'21				
min. Earth dist.	11449 May 25 07:28		17.79068 AU	conjunction	11455 Dec 24 08:04	10° <b>පි</b> 30'51	0°39'08
direct	11449 Aug 07 17:49	8° <b>≯</b> 26′02		minimum elong	11455 Dec 24 08:05	10° <b>る</b> 30'51	0°39'51
evening set	11449 Nov 08 11:40	11° <b>∡</b> ⁴43'44		max. Earth dist.	11455 Dec 23 19:29	10° <b>る</b> 28'54	19.46059 AU
				morning rise	11456 Jan 09 22:37	11° <b>る</b> 32'15	
conjunction	11449 Nov 25 00:58	12° <b>х</b> 43′46	0°56'03	retrograde	11456 Apr 12 12:04	14° <b>る</b> 55'59	
minimum elong	11449 Nov 25 00:58	12° <b>∡</b> ¹43'46	0°56'43	opposition	11456 Jun 25 18:36	12° <b>る</b> 52'32	0°41'34
max. Earth dist.	11449 Nov 24 15:36	12° <b>∡</b> ¹42'20	19.75935 AU	min. Earth dist.	11456 Jun 26 04:51	12° <b>る</b> 51'25	17.44243 AU
morning rise	11449 Dec 11 14:57	13° <b>∡</b> ¹43'57		direct	11456 Sep 08 18:24	10° <b>る</b> 47'54	
retrograde	11450 Mar 15 16:03	17° <b>∡</b> ¹04'46		evening set	11456 Dec 11 20:34	14° <b>る</b> 12'37	
opposition	11450 May 29 17:03	15° <b>∡</b> *01'35	1°01'23	C			
min. Earth dist.	11450 May 30 01:04		17.72911 AU	conjunction	11456 Dec 28 11:40	15° <b>る</b> 14'13	0°35'14
direct	11450 Aug 12 12:40	12° <b>₹</b> 58'24	17.72711110	minimum elong	11456 Dec 28 11:40	15° <b>る</b> 14'13	0°35'57
evening set	11450 Nov 13 10:43	16° × 17'09		max. Earth dist.	11456 Dec 27 22:48		19.42490 AU
evening set	11430 NOV 13 10.43	10 × 1/09			11450 Dec 27 22.48 11457 Jan 14 01:56	15 <b>3</b> 1214	19.42490 AU
	11450 N 20 00 10	170 71707	0054105	morning rise			
conjunction	11450 Nov 30 00:18	17° <b>√</b> 17'27	0°54'05	retrograde	11457 Apr 17 11:33	19°る39'47	
minimum elong	11450 Nov 30 00:18	17° <b>∡</b> 17'27 −	0°54'46	opposition	11457 Jun 30 17:09	17° <b>る</b> 36'22	
max. Earth dist.	11450 Nov 29 13:27	17° <b>∡</b> 15'48	19.69940 AU	min. Earth dist.	11457 Jul 01 04:44		17.40865 AU
morning rise	11450 Dec 16 14:36	18° <b>∡</b> 17'54		direct	11457 Sep 13 16:52	15° <b>る</b> 31'32	
retrograde	11451 Mar 20 13:28	21° <b>∡</b> ³39'17		evening set	11457 Dec 17 00:28	18° <b>る</b> 57'03	
opposition	11451 Jun 03 11:49	19° <b>∡</b> ³35'56	0°59'01				
min. Earth dist.	11451 Jun 03 21:04	19° <b>∡</b> ³34'56	17.67103 AU	conjunction	11458 Jan 02 15:26	19° <b>る</b> 58'48	0°31'05
direct	11451 Aug 17 06:42	17° <b>∡</b> ³32'25		minimum elong	11458 Jan 02 15:26	19° <b>る</b> 58'48	0°31'47
evening set	11451 Nov 18 10:17	20° <b>∡</b> 52'14		max. Earth dist.	11458 Jan 02 01:34	19° <b>る</b> 56'38	19.39307 AU
-				morning rise	11458 Jan 19 05:34	21° <b>る</b> 00'25	
conjunction	11451 Dec 05 00:25	21° <b>х</b> 52'48	0°51'45	retrograde	11458 Apr 22 13:12	24° <b>♂</b> 24'41	
minimum elong	11451 Dec 05 00:25	21° <b>×</b> 752'48	0°52'27	opposition	11458 Jul 05 15:58	22° <b>る</b> 21'17	0°32'20
max. Earth dist.	11451 Dec 04 13:56		19.64326 AU	min. Earth dist.	11458 Jul 06 03:04		17.37875 AU
morning rise	11451 Dec 21 14:51	22° × 53'28	17.04320710	direct	11458 Sep 18 19:21	20° <b>ප</b> 16'16	17.57075710
-		26° × 15'24			11458 Dec 22 04:41	20 <b>3</b> 1010 23° <b>3</b> 42'29	
retrograde	11452 Mar 24 12:54		0056115	evening set	11438 Dec 22 04.41	23 042 29	
opposition	11452 Jun 07 07:05	24° <b>₹</b> 11'57	0°56'15		11450 1 07 10 40	240-744120	0006140
min. Earth dist.	11452 Jun 07 15:43		17.61683 AU	conjunction	11459 Jan 07 19:40	24°る44'20	0°26'42
direct	11452 Aug 21 03:32	22° <b>∡</b> *08'09		minimum elong	11459 Jan 07 19:41	24° <b>ろ</b> 44'20	0°27'23
evening set	11452 Nov 22 10:58	25° <b>∡</b> ¹29'00		max. Earth dist.	11459 Jan 07 06:13		19.36514 AU
				morning rise	11459 Jan 24 09:21	25° <b>る</b> 46'02	
conjunction	11452 Dec 09 01:20	26° <b>₹</b> 29'49	0°49'05	retrograde	11459 Apr 27 13:04	29° <b>る</b> 10'27	
minimum elong	11452 Dec 09 01:20	26° <b>∡</b> ¹29'49	0°49'48	opposition	11459 Jul 10 15:19	27° <b>る</b> 07'05	0°27'20
max. Earth dist.	11452 Dec 08 13:47	26° <b>∡</b> ¹28′02	19.59113 AU	min. Earth dist.	11459 Jul 11 03:24	27° <b>る</b> 05'45	17.35295 AU
morning rise	11452 Dec 25 15:55	27° <b>∡</b> ³30'41		direct	11459 Sep 23 19:33	25° <b>පි</b> 01'53	
_	11453 Feb 12 11:12	0°రె		evening set	11459 Dec 27 09:16	28° <b>る</b> 28'43	
retrograde	11453 Mar 29 10:53	0° <b>る</b> 53'07		Ü			
	11453 May 14 09:40	30°R. <b>✓</b>		conjunction	11460 Jan 12 23:59	29° <b>ろ</b> 30'38	0°22'08
opposition	11453 Jun 12 03:02	28°× <b>7</b> 49'38	0°53'06	minimum elong	11460 Jan 12 23:59	29° <b>る</b> 30'38	
min. Earth dist.	11453 Jun 12 12:59		17.56691 AU	max. Earth dist.	11460 Jan 12 09:23		19.34166 AU
direct	11453 Aug 25 22:41	26° <b>₹</b> 45'35	17.50071710	max. Earth dist.	11460 Jan 20 19:43	0°≈	17.5 1100 110
direct	11453 Nov 25 10:25	20 × 43 33		morning rise	11460 Jan 29 13:28	0°≈32'23	
				•			
evening set	11453 Nov 27 12:17	0° <b>る</b> 07'28		retrograde	11460 May 01 14:41	3°≈56'53	0022100
				opposition	11460 Jul 14 14:54	1°≈53'31	
conjunction	11453 Dec 14 02:59	1° <b>る</b> 08'31	0°46'04	min. Earth dist.	11460 Jul 15 02:35		17.33174 AU
minimum elong	11453 Dec 14 03:00	1° <b>る</b> 08'31	0°46'47		11460 Sep 06 19:05	30°Rる	
max. Earth dist.	11453 Dec 13 15:29		19.54346 AU	direct	11460 Sep 27 22:26	29° <b>る</b> 48'07	
morning rise	11453 Dec 30 17:37	2° <b>る</b> 09'35			11460 Oct 18 19:31	0° <b>≈</b>	
retrograde	11454 Apr 03 11:39	5° <b>る</b> 32'30		evening set	11460 Dec 31 13:58	3° <b>≈</b> 15′29	
opposition	11454 Jun 16 23:34	3° <b>ප</b> 29'01	0°49'36				
min. Earth dist.	11454 Jun 17 08:52	3° <b>る</b> 28'00	17.52132 AU	conjunction	11461 Jan 17 04:34	4°≈17'28	0°17'24
direct	11454 Aug 30 21:14	1° <b>る</b> 24'45		minimum elong	11461 Jan 17 04:34	4° <b>≈</b> 17'28	0°18'02
evening set	11454 Dec 02 14:16	4° <b>ප</b> 47'38		max. Earth dist.	11461 Jan 16 14:57		19.32278 AU
<i>5</i>				morning rise	11461 Feb 02 17:25	5°≈19'13	
conjunction	11454 Dec 19 05:08	5° <b>⋜</b> 48'53	0°42'45	retrograde	11461 May 06 15:40	8° <b>≈</b> 43'43	
minimum elong	11454 Dec 19 05:08	5° <b>る</b> 48'53	0°43'29	opposition	11461 Jul 19 14:49	6°≈40'22	0°16'46
max. Earth dist.	11454 Dec 18 17:06		19.49995 AU	min. Earth dist.	11461 Jul 20 02:56		17.31533 AU
man. Laith aist.	11707 DCC 10 1/.00	J <b>U</b> 4/UI	ı ヲ.≒ッフフン A\U	mm. Darm tist.	11 <del>1</del> 01 Jul 20 02.30	0 ~>3903	11.31333 AU
morning rise	11455 Jan 04 19:42	6° <b>る</b> 50'08		direct	11461 Oct 02 23:55	4° <b>≈</b> 34'49	

•			Č	· //			C
evening set	11462 Jan 05 18:51	8° <b>≈</b> 02'35		evening set	11467 Jan 30 16:35	1° <b>¥</b> 56′59	
	11462 1 22 00 57	00 - 0 412 5	0010100		11467.5.1.16.04.02	201/ 50120	0012120
conjunction	11462 Jan 22 08:57	9° <b>≈</b> 04'35	0°12'32	conjunction	11467 Feb 16 04:02	2°\(\)\(58'38\)	
minimum elong	11462 Jan 22 08:57	9°≈04'35	0°13'08	minimum elong	11467 Feb 16 04:02	2° <b>)</b> (58'38	0°12'06
behind sun begin	11462 Jan 22 05:02	9°≈03'59		behind sun begin	11467 Feb 15 23:31	2° <b>)</b> 57'56	
behind sun end	11462 Jan 22 12:52	9° <b>≈</b> 05'11		behind sun end	11467 Feb 16 08:33	2° <b>)</b> 59'19	
max. Earth dist.	11462 Jan 21 18:21		19.30911 AU	max. Earth dist.	11467 Feb 15 17:28		19.33138 AU
morning rise	11462 Feb 07 21:27	10° <b>≈</b> 06′21		morning rise	11467 Mar 04 12:57	3° <b>¥</b> 59'55	
retrograde	11462 May 11 16:54	13° <b>≈</b> 30'47		retrograde	11467 Jun 04 20:01	7° <b>¥</b> 23′07	
opposition	11462 Jul 24 14:57	11° <b>≈</b> 27′26	0°11'17	opposition	11467 Aug 17 17:19	5° <b>∺</b> 20'16	
min. Earth dist.	11462 Jul 25 02:38	11° <b>≈</b> 26′10	17.30446 AU	min. Earth dist.	11467 Aug 18 01:57	5° <b>₩</b> 19'20	17.34230 AU
direct	11462 Oct 08 01:58	9° <b>≈</b> 21'44		direct	11467 Nov 01 15:31	3° <b>) (</b> 14′35	
evening set	11463 Jan 10 23:22	12° <b>≈</b> 49'49		evening set	11468 Feb 04 20:15	6° <b>)</b> 42′50	
conjunction	11463 Jan 27 13:14	13° <b>≈</b> 51'49	0°07'35	conjunction	11468 Feb 21 06:53	7° <b>){</b> 44'20	-0°17'20
minimum elong	11463 Jan 27 13:14	13° <b>≈</b> 51'49	0°08'10	minimum elong	11468 Feb 21 06:53	7° <b>)</b> 44′20	0°16'59
behind sun begin	11463 Jan 27 07:16	13° <b>≈</b> 50'54		max. Earth dist.	11468 Feb 20 20:34	7° <b>){</b> 42'44	19.35458 AU
behind sun end	11463 Jan 27 19:12	13° <b>≈</b> 52'44		morning rise	11468 Mar 08 15:01	8° <b>)</b> 45′28	
max. Earth dist.	11463 Jan 27 00:11	13° <b>≈</b> 49'46	19.30104 AU	retrograde	11468 Jun 08 18:13	12° <b>₩</b> 08'16	
morning rise	11463 Feb 13 01:00	14° <b>≈</b> 53'32		opposition	11468 Aug 21 17:57	10° <b>¥</b> 05'37	-0°21'52
5 2	11463 Feb 14 19:18	15° <b>≈</b>		min. Earth dist.	11468 Aug 22 02:46		17.36827 AU
retrograde	11463 May 16 18:45	18° <b>≈</b> 17'49		direct	11468 Nov 05 17:21	8° <b>₩</b> 00'05	
opposition	11463 Jul 29 15:18	16°≈14'31	0°05'43	evening set	11469 Feb 08 23:24	11° <b>¥</b> 28'07	
min. Earth dist.	11463 Jul 30 02:43		17.29926 AU	evening set	1140/100 00 25.24	11 /(2007	
iiiii. Lattii dist.	11463 Aug 29 00:38	15°R≈	17.27720 AO	conjunction	11469 Feb 25 09:16	12° <b>)</b> 29′25	0022102
direct	11463 Oct 13 04:22	13 v∞ 14°≈08'43		·	11469 Feb 25 09:15	12° <del>X</del> 29'25	
direct				minimum elong			19.38309 AU
. ,	11463 Nov 26 08:38	15° <b>≈</b>		max. Earth dist.	11469 Feb 24 23:55		19.38309 AU
evening set	11464 Jan 16 04:07	17° <b>≈</b> 37'00		morning rise	11469 Mar 13 16:31	13° <b>¥</b> 30′21	
				retrograde	11469 Jun 13 18:43	16° <b>)</b> € 52'44	
conjunction	11464 Feb 01 17:20	18° <b>≈</b> 38'57	0°02'36	opposition	11469 Aug 26 18:24	14° <b>)</b> € 50'18	
minimum elong	11464 Feb 01 17:20	18° <b>≈</b> 38'57	0°03'07	min. Earth dist.	11469 Aug 27 01:45		17.39908 AU
behind sun begin	11464 Feb 01 10:38	18° <b>≈</b> 37'55		direct	11469 Nov 10 21:40	12° <b>)</b> 44′56	
behind sun end	11464 Feb 02 00:02	18° <b>≈</b> 39'59		evening set	11470 Feb 14 02:08	16° <b>∺</b> 12'37	
max. Earth dist.	11464 Feb 01 03:39	18° <b>≈</b> 36'49	19.29893 AU				
morning rise	11464 Feb 18 04:37	19° <b>≈</b> 40'37		conjunction	11470 Mar 02 11:08	17° <b>₩</b> 13'44	
retrograde	11464 May 20 18:42	23° <b>≈</b> 04'42		minimum elong	11470 Mar 02 11:08	17° <b>) (</b> 13′44	0°26'22
opposition	11464 Aug 02 15:39	21° <b>≈</b> 01′26	0°00'06	max. Earth dist.	11470 Mar 02 02:29	17° <b>) (</b> 12′23	19.41611 AU
min. Earth dist.	11464 Aug 03 02:45	21° <b>≈</b> 00′13	17.30037 AU	morning rise	11470 Mar 18 17:27	18° <b>¥</b> 14'27	
desc. node	11464 Aug 09 05:20	20° <b>≈</b> 44'15		retrograde	11470 Jun 18 16:26	21° <b>)(</b> 36'21	
direct	11464 Oct 17 05:59	18° <b>≈</b> 55'33		opposition	11470 Aug 31 18:51	19° <b>)(</b> 34'07	-0°32'02
evening set	11465 Jan 20 08:34	22° <b>≈</b> 23'59		min. Earth dist.	11470 Sep 01 02:34	19° <b>)</b> 33′17	17.43432 AU
				direct	11470 Nov 15 23:00	17° <b>¥</b> 28'56	
conjunction	11465 Feb 05 21:20	23° <b>≈</b> 25'52	-0°02'34	evening set	11471 Feb 19 04:11	20° <b>)</b> 56′11	
minimum elong	11465 Feb 05 21:21	23° <b>≈</b> 25'52		Ü			
behind sun begin	11465 Feb 05 14:37	23° <b>≈</b> 24'50		conjunction	11471 Mar 07 12:19	21° <b>)</b> 57'04	-0°30'58
behind sun end	11465 Feb 06 04:05	23°≈26'54		minimum elong	11471 Mar 07 12:19	21° <b>)</b> 57'04	
max. Earth dist.	11465 Feb 05 09:21		19.30322 AU	max. Earth dist.	11471 Mar 07 04:06		19.45334 AU
morning rise	11465 Feb 22 07:47	24°≈27'26	19.50522 110	morning rise	11471 Mar 23 17:50	22° <b>)</b> 57'34	17.13331710
retrograde	11465 May 25 20:22	27°≈51'15		retrograde	11471 Jun 23 16:12	26° <b>)</b> 18'55	
opposition	11465 Aug 07 16:13	25°≈48'05	0905120	opposition	11471 Sep 05 18:58	24° <b>X</b> 16'53	0026147
min. Earth dist.	-		17.30786 AU	min. Earth dist.	-		17.47331 AU
	11465 Aug 08 02:22		17.30780 AU		11471 Sep 06 01:06		17.47331 AU
direct	11465 Oct 22 09:23	23°≈42'14		direct	11471 Nov 21 02:38	22° <b>)</b> 11'53	
evening set	11466 Jan 25 12:45	27° <b>≈</b> 10'40		evening set	11472 Feb 24 05:43	25° <b>)</b> 38′36	
conjunction	11466 Feb 11 00:45	28° <b>≈</b> 12'27		conjunction	11472 Mar 11 13:01	26° <b>¥</b> 39'15	
minimum elong	11466 Feb 11 00:45	28° <b>≈</b> 12'27	0°07'08	minimum elong	11472 Mar 11 13:00	26° <b>₩</b> 39'15	0°35'00
behind sun begin	11466 Feb 10 18:33	28° <b>≈</b> 11'30		max. Earth dist.	11472 Mar 11 05:53	26° <b>)</b> ₹38′08	19.49399 AU
behind sun end	11466 Feb 11 06:57	28° <b>≈</b> 13′24		morning rise	11472 Mar 27 17:30	27° <b>¥</b> 39′30	
max. Earth dist.	11466 Feb 10 12:40	28° <b>≈</b> 10′34	19.31402 AU		11472 May 11 04:50	$0^{\circ}$ Y	
morning rise	11466 Feb 27 10:31	29° <b>≈</b> 13'53		retrograde	11472 Jun 27 13:00	1° <b>Y</b> '00'15	
-	11466 Mar 12 07:10	0° <b>∀</b>		=	11472 Aug 15 17:13	30°₽ <b>)</b>	
retrograde	11466 May 30 19:08	2° <b>)</b> 37′26		opposition	11472 Sep 09 18:54	28° <b>)</b> 58'25	-0°41'16
opposition	11466 Aug 12 16:53	0° <b>)</b> 34'24	-0°11'04	min. Earth dist.	11472 Sep 10 01:28		17.51568 AU
min. Earth dist.	11466 Aug 13 02:47		17.32200 AU	direct	11472 Nov 25 03:23	26° <b>)</b> 53'37	
	11466 Aug 26 00:22	30°R≈			11473 Feb 22 19:29	0°Υ	
direct	11466 Oct 27 11:23	28°≈28'35		evening set	11473 Feb 28 06:32	0° <b>Υ</b> 19'43	
anoci	11466 Dec 26 13:01	20 <b>≈</b> 20 33		ovening set	117/3100 20 00.32	U 11743	
	11700 DCC 20 13.01	υ <b>/</b> (					

evening set	11486 Apr 28 04:09	28° <b>8</b> 35'02	max. Earth dist.	11492 Jun 07 21:18	24° <b>Ⅲ</b> 42′21 20.68925 AU
			morning rise	11492 Jun 23 04:33	25° <b>Ⅱ</b> 35'53
conjunction	11486 May 14 00:29	29° <b>8</b> 31'34 -0°59'57	retrograde	11492 Sep 23 04:13	28° <b>Ⅱ</b> 43'00
minimum elong	11486 May 14 00:29	29° <b>8</b> 31'34 1°00'33	opposition	11492 Dec 08 22:34	26° <b>Ⅱ</b> 44'26 -0°54'46
max. Earth dist.	11486 May 14 07:25	29° <b>8</b> 32'37 20.33605 AU		11492 Dec 08 11:20	26° <b>Ⅱ</b> 45'34 18.71573 AU
	11486 May 21 22:15	0° <b>П</b>	direct	11493 Feb 24 00:15	24° <b>Ⅱ</b> 45'21
morning rise	11486 May 29 19:25	0° <b>Ⅲ</b> 27'57	evening set	11493 May 26 23:34	27° <b>Ⅱ</b> 51'41
retrograde	11486 Aug 29 11:05	3° <b>Ⅲ</b> 38'44			
opposition	11486 Nov 13 11:09	1° <b>Ⅱ</b> 39'36 -1°06'09	conjunction	11493 Jun 11 17:41	28° <b>I</b> I46'38 -0°48'08
min. Earth dist.	11486 Nov 13 04:16	1° <b>Ⅱ</b> 40'18 18.36864 AU	2	11493 Jun 11 17:42	28° <b>I</b> I46'38 0°48'52
	11486 Dec 31 05:04	30°R <b>8</b>	max. Earth dist.	11493 Jun 12 04:57	28° <b>I</b> I48'17 20.74140 AU
direct	11487 Jan 29 14:05	29° <b>8</b> 39'00	morning rise	11493 Jun 27 11:50	29° <b>Ⅱ</b> 41'36
	11487 Feb 27 08:28	0° <b>П</b>	_	11493 Jul 02 21:54	0°9
evening set	11487 May 02 16:22	2° <b>Ⅱ</b> 51′22	retrograde	11493 Sep 27 12:25	2°5548'17
	11.405.14 10.10.05	2011 45120 0050110	opposition	11493 Dec 13 10:28	0°549'49 -0°51'51
conjunction	11487 May 18 12:07	3°II47'38 -0°59'10	min. Earth dist.	11493 Dec 12 23:28	0°950'56 18.76692 AU
minimum elong	11487 May 18 12:07	3°II47'38 0°59'46	Y	11494 Jan 03 17:01	30°RII
max. Earth dist.	11487 May 18 18:52	3° <b>Ⅱ</b> 48'38 20.40036 AU	J direct	11494 Feb 28 09:55	28° <b>I</b> 51'02
morning rise	11487 Jun 03 06:51	4° <b>Ⅱ</b> 43'46		11494 Apr 22 16:50	0.02
retrograde	11487 Sep 02 23:00	7° <b>Ⅱ</b> 53'52	evening set	11494 May 31 06:26	1° <b>9</b> 56'33
opposition	11487 Nov 18 02:46	5°II54'52 -1°05'04	T	11404 7 16 00 24	20551120 0045124
min. Earth dist.	11487 Nov 17 19:53	5°II55'34 18.43189 AU	·	11494 Jun 16 00:34	2°951'20 -0°45'24
direct	11488 Feb 03 04:59	3° <b>I</b> I54'33	minimum elong	11494 Jun 16 00:34	2°951'20 0°46'07
evening set	11488 May 06 03:29	7° <b>Ⅱ</b> 05'50	max. Earth dist.	11494 Jun 16 12:43	2°S53'07 20.79150 AU
	11400 34 21 22 56	001101151 0050102	morning rise	11494 Jul 01 18:46	3°546'09
conjunction	11488 May 21 22:56	8°II01'51 -0°58'03	retrograde	11494 Oct 01 22:56	6°952'26
minimum elong	11488 May 21 22:56	8° <b>I</b> 01'51 0°58'42	opposition	11494 Dec 17 21:31	4°554'06 -0°48'41
max. Earth dist.	11488 May 22 06:52	8°П03'01 20.46241 AU 8°П57'45	J min. Earth dist. direct	11494 Dec 17 09:04	4°955'21 18.81566 AU
morning rise	11488 Jun 06 17:19	8°Д3/43 12°Д07'11		11495 Mar 04 21:11	2°955'37
retrograde opposition	11488 Sep 06 10:58 11488 Nov 21 17:39	12° <b>Д</b> 07'11 10° <b>Д</b> 08'17 -1°03'39	evening set	11495 Jun 04 12:57	6°\$00'22
min. Earth dist.	11488 Nov 21 17.39 11488 Nov 21 09:30	10° <b>Д</b> 0817 -1 0339 10° <b>Д</b> 09'07 18.49264 AU	J conjunction	11495 Jun 20 06:58	6°\$55'00 -0°42'26
direct	11488 Nov 21 09.30 11489 Feb 06 20:41	8° <b>П</b> 08'13	minimum elong	11495 Jun 20 06:58	6°955'00 0°43'10
evening set	11489 May 10 13:56	11° <b>Д</b> 18'25	max. Earth dist.	11495 Jun 20 19:25	6°956'49 20.83883 AU
evening set	11469 May 10 13.30	11 11 10 23	morning rise	11495 Jul 06 01:21	7° <b>©</b> 49'43
conjunction	11489 May 26 08:56	12° <b>∏</b> 14'12 -0°56'37	retrograde	11495 Oct 06 06:35	10° <b>9</b> 55'39
minimum elong	11489 May 26 08:56	12° <b>I</b> 14'12 -0'50'37' 12° <b>I</b> 14'12 0°57'18	opposition	11495 Dec 22 08:29	8°\$57'27 -0°45'17
max. Earth dist.	11489 May 26 16:58	12° <b>I</b> 15'23 20.52203 AU	* *	11495 Dec 21 20:37	8°958'38 18.86153 AU
morning rise	11489 Jun 11 03:14	13° <b>I</b> (09'53	direct	11496 Mar 08 05:17	6°959'15
retrograde	11489 Sep 10 21:29	16° <b>Ⅱ</b> 18'41	evening set	11496 Jun 07 18:51	10° <b>©</b> 03'17
opposition	11489 Nov 26 07:53	14° <b>Д</b> 19'51 -1°01'53	evening set	11470 Juli 07 10.51	10 303 17
min. Earth dist.	11489 Nov 25 23:49	14° <b>Д</b> 20'40 18.55127 AU	J conjunction	11496 Jun 23 12:56	10°\$57'47 -0°39'17
direct	11490 Feb 11 10:01	12° <b>П</b> 20'01	minimum elong	11496 Jun 23 12:56	10°\$57'47 0°40'01
evening set	11490 May 14 23:19	15° <b>Ⅲ</b> 29'11	max. Earth dist.	11496 Jun 24 02:03	10°559'41 20.88311 AU
			morning rise	11496 Jul 09 07:27	11°952'23
conjunction	11490 May 30 18:08	16° <b>Ⅲ</b> 24'44 -0°54'54	retrograde	11496 Oct 09 16:32	14°\$58'02
minimum elong	11490 May 30 18:08	16° <b>Ⅲ</b> 24'44 0°55'36	opposition	11496 Dec 25 18:56	12°\$59'57 -0°41'41
max. Earth dist.	11490 May 31 03:23	16° <b>Ⅱ</b> 26'05 20.57963 AU	**	11496 Dec 25 05:43	13°501'16 18.90395 AU
morning rise	11490 Jun 15 12:17	17° <b>Ⅱ</b> 20'12	direct	11497 Mar 12 16:08	11°502'02
retrograde	11490 Sep 15 08:26	20° <b>Ⅱ</b> 28′23	evening set	11497 Jun 12 00:36	14° <b>5</b> 05'24
opposition	11490 Nov 30 21:20	18° <b>Ⅱ</b> 29'38 -0°59'48	Č		
min. Earth dist.	11490 Nov 30 11:45	18° <b>耳</b> 30'36 18.60780 AU	J conjunction	11497 Jun 27 18:41	14°959'48 -0°35'57
direct	11491 Feb 16 00:10	16° <b>Ⅱ</b> 30′02	minimum elong	11497 Jun 27 18:41	14°959'48 0°36'40
evening set	11491 May 19 08:08	19° <b>Ⅱ</b> 38′12	max. Earth dist.	11497 Jun 28 07:55	15°501'42 20.92357 AU
C	Ž		morning rise	11497 Jul 13 13:29	15° <b>9</b> 54'18
conjunction	11491 Jun 04 02:36	20° <b>耳</b> 33'31 -0°52'54	retrograde	11497 Oct 14 00:13	18°959'42
minimum elong	11491 Jun 04 02:36	20° <b>Ⅲ</b> 33'31 0°53'37	opposition	11497 Dec 30 05:02	17°901'43 -0°37'53
max. Earth dist.	11491 Jun 04 12:12	20° <b>Ⅲ</b> 34′56 20.63522 AU		11497 Dec 29 16:45	17° <b>©</b> 02'57 18.94245 AU
morning rise	11491 Jun 19 20:43	21° <b>Ⅲ</b> 28′49	direct	11498 Mar 16 23:03	15° <b>5</b> 04'02
retrograde	11491 Sep 19 17:31	24° <b>Ⅲ</b> 36′27	evening set	11498 Jun 16 06:00	18° <b>5</b> 06'49
opposition	11491 Dec 05 10:16	22° <b>Ⅲ</b> 37'46 -0°57'26	-		
min. Earth dist.	11491 Dec 05 00:45	22° <b>Ⅲ</b> 38'43 18.66264 AU	J conjunction	11498 Jul 02 00:15	19°501'06 -0°32'27
direct	11492 Feb 20 11:42	20° <b>Ⅲ</b> 38′25	minimum elong	11498 Jul 02 00:15	19°501'06 0°33'11
evening set	11492 May 22 16:11	23° <b>Ⅱ</b> 45'38	max. Earth dist.	11498 Jul 02 13:40	19°503'03 20.95989 AU
			morning rise	11498 Jul 17 19:18	19°\$55'32
conjunction	11492 Jun 07 10:31	24° <b>Ⅱ</b> 40'46 -0°50'39	retrograde	11498 Oct 18 09:13	23°500'44
minimum elong	11492 Jun 07 10:31	24° <b>Ⅲ</b> 40'46 0°51'21	opposition	11499 Jan 03 14:42	21° <b>©</b> 02'49 -0°33'56

min. Earth dist.	11499 Jan 03 01:24	21°504'09 18.97633 AU		11505 Jan 27 14:27	15°R <b>ℳ</b>
direct	11499 Mar 21 09:19	19° <b>5</b> 05'22	opposition	11505 Jan 28 18:46	14° <b>Ω</b> 57'10 -0°07'37
evening set	11499 Jun 20 11:13	22° <b>©</b> 07'35	min. Earth dist.	11505 Jan 28 06:15	14° <b>Ω</b> 58'25 19.07170 AU
			direct	11505 Apr 15 04:49	13° <b>Ω</b> 00′08
conjunction	11499 Jul 06 05:32	23°501'48 -0°28'49		11505 Jun 25 20:48	15° <b>Ω</b>
minimum elong	11499 Jul 06 05:32	23°501'48 0°29'30	evening set	11505 Jul 14 14:18	16° <b>ん</b> 00'00
max. Earth dist.	11499 Jul 06 18:45 11499 Jul 22 00:53	23°\$03'42 20.99120 AU 23°\$56'09	agniumatian	11505 Jul 30 10:24	16° <b>Ω</b> 54'03 -0°04'50
morning rise retrograde	11499 Jul 22 00.33 11499 Oct 22 16:46	23 \$3609 27°\$01'12	conjunction minimum elong	11505 Jul 30 10:24 11505 Jul 30 10:23	16°Ω54'03 0°05'24
opposition	11500 Jan 08 00:15	25°\$03'19 -0°29'49	behind sun begin	11505 Jul 30 04:02	16°Ω53'10
min. Earth dist.	11500 Jan 07 12:05	25°504'32 19.00511 AU	-	11505 Jul 30 16:45	16°Ω54'56
direct	11500 Mar 25 16:04	23° <b>5</b> 06'02	max. Earth dist.	11505 Jul 30 22:54	16° <b>Ω</b> 55'50 21.07226 AU
evening set	11500 Jun 24 16:11	26° <b>5</b> 07'44	morning rise	11505 Aug 15 08:24	17° <b>Ω</b> 48'22
			retrograde	11505 Nov 16 11:30	20° <b>Ω</b> 53'07
conjunction	11500 Jul 10 10:45	27°501'53 -0°25'02	opposition	11506 Feb 02 02:30	18° <b>Ω</b> 54'47 -0°03'00
minimum elong	11500 Jul 10 10:45	27° <b>5</b> 01'53 0°25'44	min. Earth dist.	11506 Feb 01 15:07	18° <b>Ω</b> 55'55 19.07212 AU
max. Earth dist.	11500 Jul 10 23:51	27°503'46 21.01738 AU		11506 Apr 19 09:42	16° <b>Ω</b> 57'45
morning rise	11500 Jul 26 06:27	27° <b>9</b> 56'12	evening set	11506 Jul 18 18:35	19° <b>£</b> 57′28
	11500 Sep 06 10:31	0° <b>Ω</b> 1° <b>Ω</b> 01'05		11506 A 02 15:00	200 051122 0000120
retrograde	11500 Oct 27 01:02 11500 Dec 18 14:41	30°RS	conjunction minimum elong	11506 Aug 03 15:09 11506 Aug 03 15:09	20°Ω51'32 -0°00'38 20°Ω51'32 0°01'08
opposition	11500 Dec 18 14:41 11501 Jan 12 09:21	29°\$03'13 -0°25'34	behind sun begin	11506 Aug 03 15:09 11506 Aug 03 08:35	20°Ω50'37
min. Earth dist.	11501 Jan 11 20:17	29°504'31 19.02850 AU	· ·	11506 Aug 03 21:44	20° <b>Ω</b> 52'27
direct	11501 Mar 30 01:08	27° <b>©</b> 06'03	max. Earth dist.	11506 Aug 04 03:34	20°Ω53'18 21.07089 AU
	11501 Jun 26 16:58	0°N	morning rise	11506 Aug 19 13:42	21° <b>Ω</b> 45'54
evening set	11501 Jun 28 20:55	0° <b>Ω</b> 07'16	asc. node	11506 Sep 26 22:02	23° <b>Ω</b> 39'58
			retrograde	11506 Nov 20 20:14	24° <b>Ω</b> 50'47
conjunction	11501 Jul 14 15:42	1° <b>Ω</b> 01'22 -0°21'09	opposition	11507 Feb 06 10:05	22° <b>Q</b> 52'22 0°01'39
minimum elong	11501 Jul 14 15:42	1° <b>Ω</b> 01'22 0°21'48	min. Earth dist.	11507 Feb 05 21:49	22° <b>Ω</b> 53'35 19.06885 AU
max. Earth dist.	11501 Jul 15 04:28	1° <b>Ω</b> 03'11 21.03798 AU	direct	11507 Apr 23 16:13	20° <b>Ω</b> 55'21
morning rise	11501 Jul 30 11:50	1° <b>Ω</b> 55'39	evening set	11507 Jul 22 22:56	23° <b>Ω</b> 54'59
retrograde	11501 Oct 31 07:52	5°Ω00'26		11505 1 05 10 52	240 0 4040 ( 0000440
opposition	11502 Jan 16 18:15	3° <b>Ω</b> 02'30 -0°21'12	conjunction	11507 Aug 07 19:53	24°Ω49'06 0°03'40 24°Ω49'07 0°03'11
min. Earth dist. direct	11502 Jan 16 06:28 11502 Apr 03 07:48	3° <b>Ω</b> 03'40 19.04642 AU 1° <b>Ω</b> 05'24	minimum elong behind sun begin	11507 Aug 07 19:53 11507 Aug 07 13:20	24° <b>Ω</b> 49'07 0°03'11 24° <b>Ω</b> 48'12
evening set	11502 Apr 03 07:48 11502 Jul 03 01:27	4° <b>Ω</b> 06'11	behind sun end	11507 Aug 07 13.20 11507 Aug 08 02:27	24°Ω50'01
evening sec	11302341 03 01.27	1 000011	max. Earth dist.	11507 Aug 08 08:11	24° Ω50'51 21.06568 AU
conjunction	11502 Jul 18 20:34	5° <b>Ω</b> 00'15 -0°17'09	morning rise	11507 Aug 23 18:59	25° <b>Ω</b> 43'32
minimum elong	11502 Jul 18 20:34	5° <b>Ω</b> 00'15 0°17'48	retrograde	11507 Nov 25 02:19	28° <b>Ω</b> 48'38
max. Earth dist.	11502 Jul 19 09:11	5° <b>Ω</b> 02'03 21.05336 AU	opposition	11508 Feb 10 17:51	26° <b>Ω</b> 50'07 0°06'16
morning rise	11502 Aug 03 17:07	5° <b>£</b> 54'31	min. Earth dist.	11508 Feb 10 06:44	26° <b>Ω</b> 51'14 19.06180 AU
retrograde	11502 Nov 04 15:33	8° <b>Ω</b> 59'12	direct	11508 Apr 26 20:50	24° <b>Ω</b> 53′08
opposition	11503 Jan 21 02:31	7° <b>Ω</b> 01'11 -0°16'44	evening set	11508 Jul 26 03:31	27° <b>Ω</b> 52'45
min. Earth dist.	11503 Jan 20 13:54	7°Ω02'27 19.05921 AU		11500 1 11 01 00	200 0 4 (155 - 0005150
direct	11503 Apr 07 15:43	5° <b>Ω</b> 04'07	conjunction	11508 Aug 11 01:00	28° <b>Ω</b> 46'57 0°07'50
evening set	11503 Jul 07 05:52	8° <b>Ω</b> 04'32	minimum elong behind sun begin	11508 Aug 11 01:00 11508 Aug 10 18:58	28°Ω46'57 0°07'24 28°Ω46'06
conjunction	11503 Jul 23 01:15	8°Ω58'34 -0°13'06	behind sun end	11508 Aug 10 18:38 11508 Aug 11 07:02	28° <b>Ω</b> 47'47
minimum elong	11503 Jul 23 01:14	8°Ω58'34 0°13'42	max. Earth dist.	11508 Aug 11 13:05	28° Ω48'40 21.05683 AU
behind sun begin	11503 Jul 22 21:38	8° <b>Ω</b> 58'04	morning rise	11508 Aug 27 00:41	29° <b>Ω</b> 41'27
behind sun end	11503 Jul 23 04:50	8° <b>N</b> 59'05	Č	11508 Sep 01 14:57	0° <b>m</b>
max. Earth dist.	11503 Jul 23 13:43	9° <b>Ω</b> 00′21 21.06378 AU	retrograde	11508 Nov 28 11:45	2° Mp 46'48
morning rise	11503 Aug 07 22:15	9° <b>£</b> 52′50	opposition	11509 Feb 14 01:24	0° Mp 48'13 0° 10'52
retrograde	11503 Nov 08 21:39	12° <b>Ω</b> 57'30	min. Earth dist.	11509 Feb 13 13:36	0°Mp49'24 19.05096 AU
opposition	11504 Jan 25 10:51	10° <b>Ω</b> 59'22 -0°12'12		11509 Mar 06 16:39	30°R <b>Ω</b>
min. Earth dist.	11504 Jan 24 23:21	11° <b>Ω</b> 00'31 19.06748 AU	direct	11509 May 01 03:01	28° <b>\Omega</b> 51'15
direct	11504 Apr 10 21:39	9° <b>Ω</b> 02'20		11509 Jun 23 02:40	0° Mp
evening set	11504 Jul 10 10:00	12° <b>Ω</b> 02′25	evening set	11509 Jul 30 08:24	1° Mp 50'57
conjunction	11504 Jul 26 05:46	12° <b>Ω</b> 56'27 -0°08'59	conjunction	11509 Aug 15 06:23	2° mp45'14 0°11'57
minimum elong	11504 Jul 26 05:46	$12^{\circ}\Omega56'27 - 0^{\circ}09'34$	minimum elong	11509 Aug 15 06:22	2° m 45'14 0°11'33
behind sun begin	11504 Jul 26 00:17	12° <b>Ω</b> 55'41	behind sun begin	11509 Aug 15 01:37	2° Mp 44'34
behind sun end	11504 Jul 26 11:14	12° <b>Ω</b> 57'13	behind sun end	11509 Aug 15 11:08	2° m 45'53
max. Earth dist.	11504 Jul 26 18:19	12° <b>Ω</b> 58'15 21.07003 AU	max. Earth dist.	11509 Aug 15 18:08	2° m/46'54 21.04390 AU
morning rise	11504 Aug 11 03:15	13° <b>Ω</b> 50'44	morning rise	11509 Aug 31 06:40	3° m 39'50
	11504 Sep 01 22:13	15° <b>Ω</b>	retrograde	11509 Dec 02 18:43	6° Mp 45'30
retrograde	11504 Nov 12 05:41	16° <b>Ω</b> 55'25	opposition	11510 Feb 18 09:11	4° m/46'51 0°15'26

opposition	11523 Apr 13 08:56	27° <b>£</b> 53'56	1°01'36	evening set	11529 Oct 22 12:43	25°M01'53	
min. Earth dist.	11523 Apr 13 07:35		18.45452 AU	ovening sec	11027 000 22 12.15	20 110 01 03	
direct	11523 Jun 27 07:29	25° <b>£</b> 54'32		conjunction	11529 Nov 07 23:46	26°M00'44	1°00'25
evening set	11523 Sep 26 09:52	29° <b>ჲ</b> 01'39		minimum elong	11529 Nov 07 23:46	26°M00'44	1°00'59
Č	1			max. Earth dist.	11529 Nov 07 17:44	25°M59'50	20.02452 AU
conjunction	11523 Oct 12 16:50	29° <b>≏</b> 58'42	0°56'24	morning rise	11529 Nov 24 12:12	26°M59'51	
minimum elong	11523 Oct 12 16:50	29° <b>≏</b> 58'42	0°56'42	C	11530 Jan 31 11:44	0° <b>∡</b> ¹	
max. Earth dist.	11523 Oct 12 17:44	29° <b>Ω</b> 58'50	20.42354 AU	retrograde	11530 Feb 26 18:28	0° <b>∡</b> 18′01	
	11523 Oct 13 01:38	$0^{\circ}$ M		•	11530 Mar 25 07:44	30°RM	
morning rise	11523 Oct 29 02:05	0°M56'09		opposition	11530 May 13 09:19	28°M15'33	1°06'56
retrograde	11524 Jan 31 11:30	4°M09'51		min. Earth dist.	11530 May 13 14:57	28°M14'56	17.99023 AU
opposition	11524 Apr 16 20:57	2°M08'35	1°03'26	direct	11530 Jul 27 04:07	26°M13'52	
min. Earth dist.	11524 Apr 16 20:49	2°M08'36	18.39242 AU	evening set	11530 Oct 27 08:20	29°M28'12	
direct	11524 Jun 30 18:21	0°ML08'57			11530 Nov 05 06:17	0°⊀	
evening set	11524 Sep 30 00:04	3°M17'01					
				conjunction	11530 Nov 12 19:49	0° <b>∡</b> 27′21	0°59'52
conjunction	11524 Oct 16 07:39	4°M14'22	0°57'53	minimum elong	11530 Nov 12 19:48	0° <b>≯</b> 27'21	1°00'29
minimum elong	11524 Oct 16 07:39	4°M14'22	0°58'14	max. Earth dist.	11530 Nov 12 11:44	0° <b>≯</b> 26′08	19.95599 AU
max. Earth dist.	11524 Oct 16 06:43	4°M14'14	20.36080 AU	morning rise	11530 Nov 29 08:51	1° <b>∡</b> ¹26'44	
morning rise	11524 Nov 01 17:38	5°M12'05		retrograde	11531 Mar 03 13:34	4° <b>∡</b> °45'36	
retrograde	11525 Feb 04 03:33	8°M26'34		opposition	11531 May 18 01:30	2° <b>∡</b> ⁴42'54	1°06'09
opposition	11525 Apr 21 09:22	6°M25'08	1°04'56	min. Earth dist.	11531 May 18 08:16	2° <b>∡</b> ⁴42'11	17.92233 AU
min. Earth dist.	11525 Apr 21 10:01		18.32893 AU	direct	11531 Jul 31 20:16	0° <b>₰</b> ′40'49	
direct	11525 Jul 05 05:56	4°M25'13		evening set	11531 Nov 01 04:32	3° <b>₹</b> 56'15	
evening set	11525 Oct 04 15:12	7°M34'18					
				conjunction	11531 Nov 17 16:47	4° <b>₹</b> 55'42	0°58'57
conjunction	11525 Oct 20 23:35	8°M31'57	0°59'03	minimum elong	11531 Nov 17 16:47	4° <b>₹</b> 55'42	
minimum elong	11525 Oct 20 23:34	8°M31'57	0°59'28	max. Earth dist.	11531 Nov 17 09:06		19.88877 AU
max. Earth dist.	11525 Oct 20 22:15		20.29633 AU	morning rise	11531 Dec 04 06:04	5° <b>₹</b> 55'22	
morning rise	11525 Nov 06 09:58	9°M29'56		retrograde	11532 Mar 07 09:42	9° <b>х</b> 14′53	
retrograde	11526 Feb 08 19:30	12°M45'11		opposition	11532 May 21 18:13	7° <b>≯</b> 12'00	1°04'57
opposition	11526 Apr 25 22:36	10°M43'35	1°06'05	min. Earth dist.	11532 May 22 01:09		17.85597 AU
min. Earth dist.	11526 Apr 26 00:30		18.26357 AU	direct	11532 Aug 04 13:38	5° <b>₹</b> 09'32	
direct	11526 Jul 09 18:06	8°M43'23		evening set	11532 Nov 05 01:55	8° <b>≯</b> 26′04	
evening set	11526 Oct 09 07:14	11°M53'29					
				conjunction	11532 Nov 21 14:31	9° <b>₹</b> 25'48	0°57'40
conjunction	11526 Oct 25 16:09	12°M51'26	0°59'54	minimum elong	11532 Nov 21 14:31	9° <b>₹</b> 25'48	0°58'20
minimum elong	11526 Oct 25 16:08	12°M51'26	1°00'21	max. Earth dist.	11532 Nov 21 04:56	9° <b>₹</b> 24'21	19.82352 AU
max. Earth dist.	11526 Oct 25 12:37		20.23016 AU	morning rise	11532 Dec 08 04:18	10° <b>₹</b> 25'44	
morning rise	11526 Nov 11 03:14	13°M49'42		retrograde	11533 Mar 12 05:41	13° 🖈 45'54	1002120
, 1	11526 Dec 02 08:47	15°M		opposition	11533 May 26 11:30	11° 🗷 42'50	1°03'20
retrograde	11527 Feb 13 12:53	17°M05'43	1907/52	min. Earth dist.	11533 May 26 19:39		17.79206 AU
opposition min. Earth dist.	11527 Apr 30 12:28 11527 Apr 30 15:21	15°M03'55	1°06'52 18.19660 AU	direct	11533 Aug 09 06:36 11533 Nov 09 23:54	9° <b>х</b> 40′00 12° <b>х</b> 57′39	
IIIII. Eartii dist.	11527 Apr 30 13.21 11527 May 02 01:33	15 11603 30 15°RM	18.19000 AU	evening set	11333 NOV 09 23.34	12 × 3/39	
direct	11527 Jul 14 07:41	13°M03'22		conjunction	11533 Nov 26 13:10	13° <b>∡</b> 757'40	0°56'00
direct	11527 Sep 21 10:04	15°M		minimum elong	11533 Nov 26 13:10	13° × 37'40 13° × 57'40	0°56'41
evening set	11527 Oct 14 00:10	16°M14'30		max. Earth dist.	11533 Nov 26 04:06		19.76099 AU
evening set	11327 001 14 00.10	10 1101430		morning rise	11533 Nov 20 04:00 11533 Dec 13 03:05	14° <b>₹</b> 57'51	17.70077710
conjunction	11527 Oct 30 09:54	17° <b>M</b> 12'45	1°00'26	retrograde	11534 Mar 17 04:02	18° <b>≯</b> 18'38	
minimum elong	11527 Oct 30 09:53	17°ML12'45		opposition	11534 May 31 05:29	16° <b>₹</b> 15'26	1°01'19
max. Earth dist.	11527 Oct 30 06:06		20.16238 AU	min. Earth dist.	11534 May 31 13:20		17.73107 AU
morning rise	11527 Nov 15 21:21	18°M11'18		direct	11534 Aug 14 01:25	14° <b>√</b> 12'17	
retrograde	11528 Feb 18 05:51	21°M28'03		evening set	11534 Nov 14 22:43	17° <b>∡</b> ³31′00	
opposition	11528 May 04 02:50	19°M26'02	1°07'17	8			
min. Earth dist.	11528 May 04 06:44		18.12820 AU	conjunction	11534 Dec 01 12:15	18° <b>∡</b> ³31'18	0°53'59
direct	11528 Jul 17 21:26	17°M25'08		minimum elong	11534 Dec 01 12:16	18° <b>∡</b> ³31'18	0°54'42
evening set	11528 Oct 17 18:05	20°M37'19		max. Earth dist.	11534 Dec 01 01:42	18° <b>∡</b> ′29'41	19.70173 AU
-				morning rise	11534 Dec 18 02:32	19° <b>∡</b> ³31'43	
conjunction	11528 Nov 03 04:21	21°M35'52	1°00'36	retrograde	11535 Mar 22 01:14	22° <b>₹</b> 53'08	
minimum elong	11528 Nov 03 04:21	21°M35'52	1°01'07	opposition	11535 Jun 05 00:14	20° <b>х</b> 49′49	0°58'54
max. Earth dist.	11528 Nov 02 22:17	21°M34'57	20.09364 AU	min. Earth dist.	11535 Jun 05 09:15	20° <b>х</b> 48′51	17.67371 AU
morning rise	11528 Nov 19 16:31	22°M34'42		direct	11535 Aug 18 19:23	18° <b>≯</b> 46'21	
retrograde	11529 Feb 22 00:16	25°M52'10		evening set	11535 Nov 19 22:22	22° <b>₹</b> 06′10	
opposition	11529 May 08 17:50	23°M49'55	1°07'18				
min. Earth dist.	11529 May 08 22:53	23°M49'23	18.05922 AU	conjunction	11535 Dec 06 12:28	23° <b>₹</b> 06'43	0°51'37
direct	11529 Jul 22 12:32	21°M48'37		minimum elong	11535 Dec 06 12:28	23° <b>х</b> 06′43	0°52'20

behind sun end

max. Earth dist.

11548 Feb 03 11:34

11548 Feb 02 15:23

19°≈52'47

19°≈49'39 19.29519 AU

11542 Apr 24 00:58

11542 Jul 07 04:19

retrograde

opposition

25°る39'41

23°る36'14 0°31'53

retrograde	11560 Jul 17 11:04	20° <b>Ƴ</b> 44'33		11567 Mar 13 20:09	15° <b>8</b>
opposition	11560 Sep 30 02:20	18° <b>Υ</b> '43'18 -0°56'31	evening set	11567 Apr 16 23:13	16° <b>8</b> 49'28
min. Earth dist.	11560 Sep 30 05:25	18° <b>Y</b> 42'58 17.71414 AU	•		., ., .,
direct	11560 Dec 15 18:19	16° <b>Ƴ</b> 39'17	conjunction	11567 May 02 21:14	17° <b>8</b> 46'52 -1°00'34
evening set	11561 Mar 20 12:18	20° <b>Y</b> ′02′03	minimum elong	11567 May 02 21:13	17° <b>8</b> 46'52 1°01'05
Č			max. Earth dist.	11567 May 03 00:48	17° <b>8</b> 47'24 20.13567 AU
conjunction	11561 Apr 05 14:59	21° <b>Υ</b> 01'16 -0°52'04	morning rise	11567 May 18 17:36	18° <b>8</b> 44'01
minimum elong	11561 Apr 05 14:58	21° <b>Υ</b> 01'16 0°52'16	retrograde	11567 Aug 18 07:57	21° <b>8</b> 56'54
max. Earth dist.	11561 Apr 05 11:59	21° <b>Υ</b> 00'49 19.74282 AU		11567 Nov 01 20:58	19° <b>8</b> 57'13 -1°07'26
morning rise	11561 Apr 21 15:20	22° <b>Y</b> 00′09	min. Earth dist.	11567 Nov 01 16:32	19° <b>8</b> 57'40 18.16987 AU
retrograde	11561 Jul 22 06:08	25° <b>Ƴ</b> 17′24	direct	11568 Jan 17 22:01	17° <b>8</b> 55'39
opposition	11561 Oct 04 23:47	23°Υ16'18 -0°59'16	evening set	11568 Apr 20 13:51	21° <b>8</b> 11'17
min. Earth dist.	11561 Oct 05 00:51	23° <b>Y</b> 16'11 17.77259 AU	J		
direct	11561 Dec 20 17:35	21° <b>Υ</b> 12'33	conjunction	11568 May 06 11:22	22° <b>8</b> 08'23 -1°00'45
evening set	11562 Mar 25 08:12	24° <b>Ƴ</b> 34'21	minimum elong	11568 May 06 11:22	22° <b>8</b> 08'23 1°01'17
			max. Earth dist.	11568 May 06 16:41	22° <b>8</b> 09'12 20.20351 AU
conjunction	11562 Apr 10 10:12	25° <b>Y</b> 33'16 -0°54'23	morning rise	11568 May 22 07:06	23° <b>8</b> 05'16
minimum elong	11562 Apr 10 10:12	25° <b>Υ</b> 33'16 0°54'39	retrograde	11568 Aug 21 21:41	26° <b>8</b> 17'28
max. Earth dist.	11562 Apr 10 09:35	25° <b>Y</b> 33'11 19.80290 AU	opposition	11568 Nov 05 14:33	24° <b>8</b> 18'00 -1°07'25
morning rise	11562 Apr 26 09:38	26° <b>Ƴ</b> 31'51	min. Earth dist.	11568 Nov 05 09:19	24° <b>8</b> 18'32 18.23713 AU
retrograde	11562 Jul 26 23:37	29° <b>Ƴ</b> 48′21	direct	11569 Jan 21 17:01	22° <b>8</b> 16'47
opposition	11562 Oct 09 20:48	27° <b>Y</b> 47'27 -1°01'37	evening set	11569 Apr 25 03:49	25° <b>8</b> 31'20
min. Earth dist.	11562 Oct 09 21:21	27° <b>Y</b> 47′24 17.83423 AU	J		
direct	11562 Dec 25 16:18	25° <b>Y</b> 44′02	conjunction	11569 May 11 00:36	26° <b>8</b> 28'09 -1°00'35
evening set	11563 Mar 30 03:29	29° <b>Ƴ</b> 04'51	minimum elong	11569 May 11 00:35	26° <b>8</b> 28'09 1°01'10
	11563 Apr 14 05:58	0° <b>8</b>	max. Earth dist.	11569 May 11 05:38	26° <b>8</b> 28'55 20.27014 AU
			morning rise	11569 May 26 20:02	27° <b>8</b> 24'47
conjunction	11563 Apr 15 04:29	0° <b>8</b> 03'27 -0°56'20		11569 Jul 20 01:02	0° <b>I</b> I
minimum elong	11563 Apr 15 04:29	0° <b>8</b> 03'27 0°56'38	retrograde	11569 Aug 26 11:16	0° <b>Д</b> 36'17
max. Earth dist.	11563 Apr 15 03:57	0° <b>8</b> 03'22 19.86608 AU		11569 Oct 04 01:15	30°R <b>8</b>
morning rise	11563 May 01 03:21	1° <b>8</b> 01'45	opposition	11569 Nov 10 07:25	28° <b>8</b> 37'00 -1°07'01
retrograde	11563 Jul 31 16:59	4° <b>8</b> 17'31	min. Earth dist.	11569 Nov 10 01:46	28° <b>8</b> 37'34 18.30312 AU
opposition	11563 Oct 14 17:01	2° <b>8</b> 16'50 -1°03'35	direct	11570 Jan 26 09:30	26° <b>8</b> 36'06
min. Earth dist.	11563 Oct 14 15:53	2°816'58 17.89875 AU	evening set	11570 Apr 29 16:41	29° <b>8</b> 49'35
direct	11563 Dec 30 13:55	0° <b>8</b> 13'46		11570 May 02 15:44	0°Щ
evening set	11564 Apr 02 21:43	3° <b>8</b> 33'35		11570 M 15 12 07	00T46100 1000104
	11564 4 10 22 04	40 <b>V</b> 2 1152 005715 (	conjunction	11570 May 15 13:07	0°II46'08 -1°00'04
conjunction	11564 Apr 18 22:04	4° <b>8</b> 31'53 -0°57'56	minimum elong	11570 May 15 13:07	0°II46'08 1°00'41
minimum elong	11564 Apr 18 22:04	4° <b>と</b> 31'53 0°58'18 4° <b>と</b> 32'10 19.93172 AU	max. Earth dist.	11570 May 15 19:37	0°П47'06 20.33521 AU
max. Earth dist. morning rise	11564 Apr 18 23:50 11564 May 04 20:03	5° <b>8</b> 29'53	morning rise retrograde	11570 May 31 08:06 11570 Aug 30 23:50	1° <b>П</b> 42'31 4° <b>П</b> 53'19
retrograde	11564 Aug 04 09:29	8° <b>8</b> 44'55	opposition	11570 Aug 30 23:30 11570 Nov 14 23:38	2° <b>Д</b> 54'11 -1°06'16
opposition	11564 Oct 18 12:57	6° <b>8</b> 44'30 -1°05'08	min. Earth dist.	11570 Nov 14 23:38 11570 Nov 14 17:05	2° <b>Д</b> 54'11 -1 00 10 2° <b>Д</b> 54'51 18.36709 AU
min. Earth dist.	11564 Oct 18 11:12	6° <b>8</b> 44'41 17.96528 AU		11570 Nov 14 17:03	0° <b>Ц</b> 53'35
direct	11565 Jan 03 11:26	4° <b>8</b> 41'49	evening set	11571 May 04 04:54	4° <b>I</b> 05'59
evening set	11565 Apr 07 15:03	8° <b>8</b> 00'36	evening sec	113/1 May 01 01.31	1 2000)
e venning see	11303 11p1 07 13.03	0 00030	conjunction	11571 May 20 00:43	5° <b>Ⅲ</b> 02'16 -0°59'14
conjunction	11565 Apr 23 14:27	8° <b>8</b> 58'36 -0°59'10	minimum elong	11571 May 20 00:43	5° <b>Π</b> 02'16 0°59'53
minimum elong	11565 Apr 23 14:27	8° <b>8</b> 58'36 0°59'34	max. Earth dist.	11571 May 20 07:00	5° <b>Ⅲ</b> 03'13 20.39816 AU
max. Earth dist.	11565 Apr 23 16:15	8° <b>8</b> 58'52 19.99905 AU		11571 Jun 04 19:30	5° <b>I</b> I58′25
morning rise	11565 May 09 11:58	9° <b>8</b> 56'19	retrograde	11571 Sep 04 11:39	9° <b>Ⅱ</b> 08'33
retrograde	11565 Aug 09 01:43	13° <b>8</b> 10'38	opposition	11571 Nov 19 15:12	7° <b>I</b> 109'32 -1°05'08
opposition	11565 Oct 23 08:15	11° <b>8</b> 10'27 -1°06'18	min. Earth dist.	11571 Nov 19 08:29	7° <b>Ⅱ</b> 10'13 18.42911 AU
min. Earth dist.	11565 Oct 23 05:12	11° <b>8</b> 10'46 18.03324 AU	J direct	11572 Feb 04 17:26	5° <b>Ⅱ</b> 09'12
direct	11566 Jan 08 07:27	9° <b>8</b> 08'08	evening set	11572 May 07 16:02	8° <b>Ⅲ</b> 20'31
evening set	11566 Apr 12 07:28	12° <b>8</b> 25'54	C	Ž	
-	•		conjunction	11572 May 23 11:35	9° <b>Ⅱ</b> 16'33 -0°58'05
conjunction	11566 Apr 28 06:20	13° <b>8</b> 23'35 -1°00'03	minimum elong	11572 May 23 11:35	9° <b>Ⅱ</b> 16'33 0°58'45
minimum elong	11566 Apr 28 06:20	13° <b>8</b> 23'35 1°00'30	max. Earth dist.	11572 May 23 19:20	9° <b>Ⅱ</b> 17'43 20.45923 AU
max. Earth dist.	11566 Apr 28 10:09	13° <b>8</b> 24'10 20.06731 AU	morning rise	11572 Jun 08 06:02	10° <b>Ⅱ</b> 12'28
morning rise	11566 May 14 03:06	14° <b>8</b> 21'01	retrograde	11572 Sep 07 23:19	13° <b>Ⅲ</b> 21'56
	11566 May 25 08:14	15° <b>8</b>	opposition	11572 Nov 23 06:05	11° <b>Ⅲ</b> 23'01 -1°03'40
retrograde	11566 Aug 13 16:50	17° <b>8</b> 34'36	min. Earth dist.	11572 Nov 22 22:08	11° <b>Ⅱ</b> 23'49 18.48917 AU
opposition	11300 Aug 13 10.30	. •			
* *	11566 Oct 28 02:49	15° <b>8</b> 34'42 -1°07'04	direct	11573 Feb 08 09:41	9° <b>Ⅱ</b> 22'56
min. Earth dist.	11566 Oct 28 02:49 11566 Oct 27 23:12	15° <b>8</b> 34'42 -1°07'04 15° <b>8</b> 35'04 18.10161 AU		11573 Feb 08 09:41 11573 May 12 02:19	9° <b>П</b> 22'56 12° <b>П</b> 33'11
min. Earth dist.	11566 Oct 28 02:49 11566 Oct 27 23:12 11566 Nov 11 06:03	15° <b>と</b> 34'42 -1°07'04 15° <b>と</b> 35'04 18.10161 AU 15°R <b>と</b>	J evening set	11573 May 12 02:19	12° <b>Ⅱ</b> 33'11
* *	11566 Oct 28 02:49 11566 Oct 27 23:12	15° <b>8</b> 34'42 -1°07'04 15° <b>8</b> 35'04 18.10161 AU			

minimum elong	11573 May 27 21:23	13° <b>∏</b> 28'58	0°57'18	direct	11580 Mar 09 18:20	8° <b>©</b> 15'39	
max. Earth dist.	11573 May 27 21:23		20.51844 AU	evening set	11580 Jun 09 07:49	11° <b>©</b> 19'44	
morning rise	11573 Jun 12 15:47	14° <b>∏</b> 24'41	20.31011110	evening sec	11300 3411 05 07.15	11 017 11	
retrograde	11573 Sep 12 09:47	17° <b>Ⅲ</b> 33'31		conjunction	11580 Jun 25 01:57	12° <b>©</b> 14'16	-0°38'59
opposition	11573 Nov 27 20:19	15° <b>∏</b> 34'40	-1°01'51	minimum elong	11580 Jun 25 01:57	12°514'16	
min. Earth dist.	11573 Nov 27 12:13	15° <b>Ⅱ</b> 35'30	18.54770 AU	max. Earth dist.	11580 Jun 25 14:55		20.88236 AU
direct	11574 Feb 12 21:55	13° <b>Ⅱ</b> 34'49		morning rise	11580 Jul 10 20:29	13°908'52	
evening set	11574 May 16 11:48	16° <b>Ⅱ</b> 44'03		retrograde	11580 Oct 11 05:22	16°514'33	
Č	,			opposition	11580 Dec 27 07:36	14°516'29	-0°41'19
conjunction	11574 Jun 01 06:41	17° <b>Ⅱ</b> 39'37	-0°54'51	min. Earth dist.	11580 Dec 26 18:36	14°9517'47	18.90296 AU
minimum elong	11574 Jun 01 06:41	17° <b>Ⅲ</b> 39'37	0°55'34	direct	11581 Mar 14 04:29	12° <b>©</b> 18'33	
max. Earth dist.	11574 Jun 01 16:06	17° <b>Ⅱ</b> 41'00	20.57623 AU	evening set	11581 Jun 13 13:37	15° <b>5</b> 21'58	
morning rise	11574 Jun 17 00:50	18° <b>Ⅲ</b> 35′07					
retrograde	11574 Sep 16 20:35	21° <b>Ⅱ</b> 43′21		conjunction	11581 Jun 29 07:43	16° <b>©</b> 16'22	-0°35'36
opposition	11574 Dec 02 09:39	19° <b>Ⅱ</b> 44'36	-0°59'43	minimum elong	11581 Jun 29 07:43	16° <b>©</b> 16'22	0°36'21
min. Earth dist.	11574 Dec 02 00:05	19° <b>∏</b> 45′34	18.60471 AU	max. Earth dist.	11581 Jun 29 20:31	16°5518'13	20.92218 AU
direct	11575 Feb 17 12:28	17° <b>Ⅱ</b> 45′01		morning rise	11581 Jul 15 02:34	17° <b>©</b> 10'53	
evening set	11575 May 20 20:42	20° <b>Ⅱ</b> 53′16		retrograde	11581 Oct 15 12:51	20°516'18	
				opposition	11581 Dec 31 17:50	18° <b>©</b> 18'18	-0°37'29
conjunction	11575 Jun 05 15:12	21° <b>Ⅱ</b> 48'37	-0°52'48	min. Earth dist.	11581 Dec 31 05:47	18° <b>©</b> 19'30	18.94057 AU
minimum elong	11575 Jun 05 15:12	21° <b>Ⅱ</b> 48'37	0°53'31	direct	11582 Mar 18 12:46	16° <b>©</b> 20'35	
max. Earth dist.	11575 Jun 06 00:54	21° <b>Ⅲ</b> 50′03	20.63254 AU	evening set	11582 Jun 17 19:08	19° <b>©</b> 23'23	
morning rise	11575 Jun 21 09:21	22° <b>∏</b> 43'55					
retrograde	11575 Sep 21 06:21	25° <b>Ⅱ</b> 51'37		conjunction	11582 Jul 03 13:24	20° <b>©</b> 17'41	-0°32'04
opposition	11575 Dec 06 22:40	23° <b>Ⅱ</b> 52'58	-0°57'18	minimum elong	11582 Jul 03 13:24	20°517'41	0°32'47
min. Earth dist.	11575 Dec 06 13:01	23° <b>∏</b> 53'57	18.66039 AU	max. Earth dist.	11582 Jul 04 02:26	20°519'34	20.95739 AU
direct	11576 Feb 21 23:17	21° <b>∏</b> 53′39		morning rise	11582 Jul 19 08:26	21° <b>©</b> 12'06	
evening set	11576 May 24 04:39	25° <b>Ⅱ</b> 00′58		retrograde	11582 Oct 19 22:09	24°©17'17	
				opposition	11583 Jan 05 03:27	22° <b>©</b> 19'20	-0°33'29
conjunction	11576 Jun 08 23:03	25° <b>∏</b> 56′08		min. Earth dist.	11583 Jan 04 14:30		18.97317 AU
minimum elong	11576 Jun 08 23:03	25° <b>∏</b> 56′08	0°51'15	direct	11583 Mar 22 22:05	20° <b>©</b> 21'48	
max. Earth dist.	11576 Jun 09 10:07		20.68744 AU	evening set	11583 Jun 22 00:28	23° <b>©</b> 24'01	
morning rise	11576 Jun 24 17:07	26° <b>∏</b> 51'16					
retrograde	11576 Sep 24 16:31	29° <b>∏</b> 58′28		conjunction	11583 Jul 07 18:49	24°5518'14	
opposition	11576 Dec 10 11:00	27° <b>∏</b> 59'56		minimum elong	11583 Jul 07 18:49	24°5518'14	
min. Earth dist.	11576 Dec 09 23:45		18.71429 AU	max. Earth dist.	11583 Jul 08 07:26		20.98736 AU
direct	11577 Feb 25 12:13	26° <b>Ⅱ</b> 00'55		morning rise	11583 Jul 23 14:12	25°©12'36	
evening set	11577 May 28 12:13	29° <b>Ⅱ</b> 07'21		retrograde	11583 Oct 24 04:40	28°917'35	0020120
	11577 Jun 12 14:30	0₀ <b>ௐ</b>		opposition	11584 Jan 09 13:02	26°519'38	
· · · · · · · · · · · ·	11577 June 12 06:24	0° <b>©</b> 02'20	0047157	min. Earth dist.	11584 Jan 09 01:13		19.00056 AU
conjunction	11577 Jun 13 06:24			direct	11584 Mar 26 05:20 11584 Jun 25 05:16	24°S22'14 27°S23'54	
minimum elong max. Earth dist.	11577 Jun 13 06:24 11577 Jun 13 17:41		20.74033 AU	evening set	11384 Juli 23 03.16	21 3923 34	
morning rise	11577 Jun 29 00:35	0°957'18	20.74033 AU	conjunction	11584 Jul 10 23:54	28°©18'03	0°24'35
retrograde	11577 Sep 29 01:57	4°904'04		minimum elong	11584 Jul 10 23:54	28° <b>©</b> 18'03	
opposition	11577 Dec 14 22:48	2° <b>©</b> 05'39	-0°51'37	max. Earth dist.	11584 Jul 11 12:41		21.01218 AU
min. Earth dist.	11577 Dec 14 11:48		18.76613 AU	morning rise	11584 Jul 26 19:37	29° <b>©</b> 12'22	21.01210710
direct	11578 Mar 01 21:51	0°906'55	10.70015710	morning rise	11584 Aug 10 09:42	0°Ω	
evening set	11578 Jun 01 19:09	3° <b>©</b> 12'32		retrograde	11584 Oct 27 13:42	2° <b>Ω</b> 17'12	
e venning see	110,00011 01 15.05	5 01252		opposition	11585 Jan 12 22:04	0°Ω19'12	-0°25'03
conjunction	11578 Jun 17 13:21	4°507'20	-0°45'10	min. Earth dist.	11585 Jan 12 09:22		19.02267 AU
minimum elong	11578 Jun 17 13:21	4°907'20			11585 Jan 20 23:29	30°Rூ	
max. Earth dist.	11578 Jun 18 01:36		20.79090 AU	direct	11585 Mar 30 14:15	28°©21'54	
morning rise	11578 Jul 03 07:35	5° <b>©</b> 02'11			11585 Jun 02 21:28	$0^{\circ}\Omega$	
retrograde	11578 Oct 03 11:25	8°908'31		evening set	11585 Jun 29 10:02	1° <b>£</b> 23′05	
opposition	11578 Dec 19 10:05	6°∽10′15	-0°48'24	C			
min. Earth dist.	11578 Dec 18 21:42	6°511'29	18.81516 AU	conjunction	11585 Jul 15 04:51	2° <b>Ω</b> 17'10	-0°20'40
direct	11579 Mar 06 09:21	4° <b>©</b> 11'48		minimum elong	11585 Jul 15 04:51	2° <b>Ω</b> 17'10	0°21'20
evening set	11579 Jun 06 01:42	7° <b>©</b> 16'37		max. Earth dist.	11585 Jul 15 17:16		21.03176 AU
				morning rise	11585 Jul 31 01:01	3° <b>Ω</b> 11′28	
conjunction	11579 Jun 21 19:45	8° <b>©</b> 11'17	-0°42'10	retrograde	11585 Oct 31 19:38	6° <b>Ω</b> 16′09	
minimum elong	11579 Jun 21 19:45	8° <b>©</b> 11'17	0°42'55	opposition	11586 Jan 17 06:43	4° <b>Ω</b> 18′06	-0°20'39
max. Earth dist.	11579 Jun 22 08:03	8° <b>5</b> 13'04	20.83833 AU	min. Earth dist.	11586 Jan 16 19:14	4° <b>Ω</b> 19'15	19.03990 AU
morning rise	11579 Jul 07 14:10	9° <b>©</b> 05'59		direct	11586 Apr 03 20:11	2° <b>Ω</b> 20'51	
retrograde	11579 Oct 07 20:02	12° <b>©</b> 11'59		evening set	11586 Jul 03 14:27	5° <b>Ω</b> 21'36	
opposition	11579 Dec 23 21:07	10° <b>©</b> 13'49	-0°44'58				
min. Earth dist.	11579 Dec 23 09:18	10° <b>©</b> 15'00	18.86097 AU	conjunction	11586 Jul 19 09:37	6° <b>Ω</b> 15'40	-0°16'39

minimum elong	11586 Jul 19 09:37	6° <b>Ω</b> 15'40	0°17'18		11591 Nov 13 04:51	0° <b>m</b>	
max. Earth dist.	11586 Jul 19 22:16		21.04678 AU	retrograde	11591 Nov 25 16:07	0° <b>m</b> 03'49	
morning rise	11586 Aug 04 06:10	7° <b>Ω</b> 09'56			11591 Dec 08 05:35	30°R <b>Ω</b>	
retrograde	11586 Nov 05 04:00	10° <b>Ω</b> 14'33		opposition	11592 Feb 11 06:22	28° <b>Ω</b> 05'22	0°06'55
opposition	11587 Jan 21 15:02	8° <b>Ω</b> 16′25		min. Earth dist.	11592 Feb 10 19:04		19.06060 AU
min. Earth dist.	11587 Jan 21 02:32		19.05272 AU	direct	11592 Apr 27 09:18	26°Ω08'26	
direct	11587 Apr 08 04:39	6° <b>Ω</b> 19'13		evening set	11592 Jul 26 16:19	29° <b>Ω</b> 08'10	
evening set	11587 Jul 07 18:42	9° <b>Ω</b> 19'37			11592 Aug 10 21:12	0° <b>m</b> )	
conjunction	11587 Jul 23 14:04	10° <b>Ω</b> 13'39	-0°12'34	conjunction	11592 Aug 11 13:49	0° m/02'22	0°08'25
minimum elong	11587 Jul 23 14:04	10° <b>Ω</b> 13'39	0°13'11	minimum elong	11592 Aug 11 13:49	$0^{\circ}$ My $02'22$	0°07'58
behind sun begin	11587 Jul 23 10:09	10° <b>Ω</b> 13′06		behind sun begin	11592 Aug 11 07:55	0° <b>m</b> 01'33	
behind sun end	11587 Jul 23 18:00	10° <b>Ω</b> 14'12		behind sun end	11592 Aug 11 19:44	0° Mp 03'12	
max. Earth dist.	11587 Jul 24 02:36	10° <b>Ω</b> 15′26	21.05752 AU	max. Earth dist.	11592 Aug 12 02:06	$0^{\circ}$ My $04'07$	21.05612 AU
morning rise	11587 Aug 08 11:06	11° <b>Ω</b> 07'55		morning rise	11592 Aug 27 13:30	0° Mp 56'54	
retrograde	11587 Nov 09 10:11	14° <b>Ω</b> 12'32		retrograde	11592 Nov 29 00:48	4° Mp 02′20	
opposition	11588 Jan 25 23:20	12° <b>Ω</b> 14'19		opposition	11593 Feb 14 14:00	2° Mp 03'50	0°11'31
min. Earth dist.	11588 Jan 25 11:47	• • • •	19.06163 AU	min. Earth dist.	11593 Feb 14 02:02	2° Mp 05'02	19.05064 AU
direct	11588 Apr 11 09:48	10° <b>Ω</b> 17'10		direct	11593 May 01 15:47	0°M)06'56	
evening set	11588 Jul 10 22:53	13° <b>Ω</b> 17'17		evening set	11593 Jul 30 21:23	3° Mp 06'44	
conjunction	11588 Jul 26 18:40	14° <b>Ω</b> 11'19	-0°08'26	conjunction	11593 Aug 15 19:19	4° Mp 01'02	0°12'33
minimum elong	11588 Jul 26 18:40	14° <b>Ω</b> 11'19	0°09'02	minimum elong	11593 Aug 15 19:19	4° Mp 01'02	0°12'10
behind sun begin	11588 Jul 26 13:03	14° <b>Ω</b> 10′32		behind sun begin	11593 Aug 15 14:50	4° Mp 00'25	
behind sun end	11588 Jul 27 00:18	14° <b>Ω</b> 12′06		behind sun end	11593 Aug 15 23:47	4° Mp 01'40	
max. Earth dist.	11588 Jul 27 07:28	14° <b>Ω</b> 13′08	21.06465 AU	max. Earth dist.	11593 Aug 16 07:00	4° Mp 02′42	21.04393 AU
	11588 Aug 10 00:10	15° <b>Ω</b>		morning rise	11593 Aug 31 19:35	4° <b>m</b> 55'40	
morning rise	11588 Aug 11 16:09	15° <b>Ω</b> 05'36		retrograde	11593 Dec 03 08:07	8° <b>m</b> ) 01'25	
retrograde	11588 Nov 12 18:18	18° <b>Ω</b> 10′16		opposition	11594 Feb 18 21:44	6°Mp02'51	0°16'05
opposition	11589 Jan 29 07:08	16° <b>Ω</b> 11'58		min. Earth dist.	11594 Feb 18 11:22	-	19.03623 AU
min. Earth dist.	11589 Jan 28 18:30		19.06692 AU	direct	11594 May 05 20:09	4° <b>m</b> 05'58	
	11589 Mar 02 14:03	15°R <b>Ω</b>		evening set	11594 Aug 04 02:44	7° Mg 05'56	
direct	11589 Apr 15 17:20	14° <b>Ω</b> 14'53					
	11589 May 28 08:05	15° <b>Ω</b>		conjunction	11594 Aug 20 01:14	8° <b>m</b> 00'19	0°16'38
evening set	11589 Jul 15 03:06	17° <b>Ω</b> 14'47		minimum elong	11594 Aug 20 01:13	8° Mp 00'19	0°16'17
	11500 1 1 20 22 12	100 00051	000 411 7	max. Earth dist.	11594 Aug 20 12:27		21.02723 AU
conjunction	11589 Jul 30 23:12	18° <b>Ω</b> 08'51		morning rise	11594 Sep 05 02:04	8° m 55'03	
minimum elong	11589 Jul 30 23:13	18° <b>Ω</b> 08'51	0°04'50	retrograde	11594 Dec 07 17:50	12° Mp 01'10	0°20'35
behind sun begin	11589 Jul 30 16:47	18° <b>Ω</b> 07'57		opposition	11595 Feb 23 05:35	10° Mp 02'31	19.01702 AU
behind sun end max. Earth dist.	11589 Jul 31 05:39 11589 Jul 31 11:46	18° <b>Ω</b> 09'44	21.06806 AU	min. Earth dist. direct	11595 Feb 22 18:53 11595 May 10 02:49	8° My 05'37	19.01702 AU
morning rise	11589 Aug 15 21:16	19° <b>Ω</b> 03'10	21.00800 AU	evening set	11595 Aug 08 08:28	11° Mp 05'46	
retrograde	11589 Nov 17 00:58	$22^{\circ}\Omega07'57$		evening set	11393 Aug 06 06.26	11 11/0340	
opposition	11590 Feb 02 14:59	20°Ω09'35	-0°02'22	conjunction	11595 Aug 24 07:26	12° Mp 00'17	0°20'39
min. Earth dist.	11590 Feb 02 03:26		19.06855 AU	minimum elong	11595 Aug 24 07:25	12° Mp 00'17	0°20'21
direct	11590 Apr 19 22:05	18° <b>Ω</b> 12'33		max. Earth dist.	11595 Aug 24 17:50	12° Mp 01'46	
evening set	11590 Jul 19 07:19	21° <b>Ω</b> 12'20		morning rise	11595 Sep 09 08:53	12° m/55'09	
C				retrograde	11595 Dec 12 01:32	16° <b>m</b> ) 01'40	
conjunction	11590 Aug 04 03:55	22° <b>Ω</b> 06′25	-0°00'02	opposition	11596 Feb 27 13:48	14° <b>m</b> 02'54	0°25'00
minimum elong	11590 Aug 04 03:54	22° <b>Ω</b> 06′25	0°00'33	min. Earth dist.	11596 Feb 27 04:51	14° <b>m</b> 03'48	18.99257 AU
behind sun begin	11590 Aug 03 21:20	22° <b>Ω</b> 05'31		direct	11596 May 13 07:47	12° <b>m</b> 05'55	
behind sun end	11590 Aug 04 10:28	22° <b>Q</b> 07'20		evening set	11596 Aug 11 14:41	15° <b>m</b> 06'19	
max. Earth dist.	11590 Aug 04 16:33	22° <b>Q</b> 08'13	21.06791 AU				
asc. node	11590 Aug 05 10:24	22° <b>Ω</b> 10'47		conjunction	11596 Aug 27 14:17	16° Mp 00'58	0°24'36
morning rise	11590 Aug 20 02:25	23° <b>Ω</b> 00'48		minimum elong	11596 Aug 27 14:16	$16^\circ$ Mp $00^\circ$ $58$	0°24'20
retrograde	11590 Nov 21 09:02	26° <b>Ω</b> 05'44		max. Earth dist.	11596 Aug 27 23:51	$16^\circ$ My $02'20$	20.97830 AU
opposition	11591 Feb 06 22:33	24° <b>Ω</b> 07′20	0°02'17	morning rise	11596 Sep 12 16:22	16° <b>m</b> 55'58	
min. Earth dist.	11591 Feb 06 10:03		19.06647 AU	retrograde	11596 Dec 15 12:04	$20^{\circ}$ My $02'53$	
direct	11591 Apr 24 04:48	22° <b>Ω</b> 10'21		opposition	11597 Mar 02 21:51	18° <b>m</b> 03'58	0°29'19
evening set	11591 Jul 23 11:47	25° <b>Ω</b> 10′04		min. Earth dist.	11597 Mar 02 12:50	-•	18.96276 AU
		_		direct	11597 May 17 14:41	16°My06'51	
conjunction	11591 Aug 08 08:45	26° <b>Ω</b> 04'13	0°04'15	evening set	11597 Aug 15 21:21	19° <b>m</b> 07'33	
minimum elong	11591 Aug 08 08:44	26° <b>Ω</b> 04'13	0°03'47				
behind sun begin	11591 Aug 08 02:13	26° <b>Ω</b> 03'18		conjunction	11597 Aug 31 21:32	20° m, 02'20	0°28'26
behind sun end	11591 Aug 08 15:16	26° <b>Ω</b> 05'07	21.0/202 : **	minimum elong	11597 Aug 31 21:32	20° m, 02'20	0°28'13
max. Earth dist.							
morning rise	11591 Aug 08 21:04 11591 Aug 24 07:50	26° <b>Ω</b> 58'39	21.06392 AU	max. Earth dist. morning rise	11597 Sep 01 06:03 11597 Sep 17 00:17	20° m 57'30	20.94575 AU

retrograde	11597 Dec 19 20:18	24° Mp 04'50	
opposition	11598 Mar 07 06:17	22° m/05'43	0°33'30
min. Earth dist.	11598 Mar 06 23:06		18.92766 AU
direct		22° Mp 06'27 20° Mp 08'26	18.92/00 AU
	11598 May 21 20:26	-	
evening set	11598 Aug 20 04:17	23° Mp 09'28	
conjunction	11598 Sep 05 05:05	24° Mp 04'25	0°32'08
minimum elong	11598 Sep 05 05:05	24° Mp 04'25	0°32'00
max. Earth dist.	11598 Sep 05 12:47	24° Mp 05'31	20.90834 AU
morning rise	11598 Sep 21 08:28	24° <b>m</b> 59'44	
retrograde	11598 Dec 24 07:13	28° Mp 07'32	
opposition	11599 Mar 11 14:42	26° Mp 08'11	0°37'32
min. Earth dist.	11599 Mar 11 07:21	26° Mp 08'55	18.88797 AU
direct	11599 May 26 03:44	24° m 10'41	
evening set	11599 Aug 24 11:45	27° <b>m</b> 12'07	
<del>-</del>	11500 8 00 12:00	200 m 0711 4	0925142
conjunction	11599 Sep 09 13:09	28° Mp 07'14	0°35'42
minimum elong	11599 Sep 09 13:09	28° m, 07'14	0°35'36
max. Earth dist.	11599 Sep 09 20:07	28° Mp 08'14	20.86653 AU
morning rise	11599 Sep 25 17:12	29° m 02'44	
_	11599 Oct 13 09:13	0∘ <b>ত</b>	
retrograde	11599 Dec 28 16:14	2° <b>≙</b> 11'02	
opposition	11600 Mar 14 23:25	0° <b>≙</b> 11'25	0°41'24
min. Earth dist.	11600 Mar 14 17:41	0° <b>£</b> 12′00	18.84434 AU
	11600 Mar 19 15:41	30° <b>₽, ™</b> )	
direct	11600 May 29 10:01	28° Mp 13'43	
	11600 Aug 04 00:35	0∘ <b>⊽</b>	
evening set	11600 Aug 27 19:40	1° <b>≏</b> 15'36	
conjunction	11600 Sep 12 21:45	2° <b>♀</b> 10'54	0°39'06
minimum elong	11600 Sep 12 21:45	2° <b>£</b> 10'54	0°39'04
max. Earth dist.	11600 Sep 13 03:55	2° <b>£</b> 11'47	20.82126 AU
morning rise	11600 Sep 29 02:30	3° <b>≏</b> 06'36	
retrograde	11601 Jan 01 04:06	6° <b>≙</b> 15'25	
opposition	11601 Mar 19 08:12	4° <b>£</b> 15'34	0°45'04
min. Earth dist.	11601 Mar 19 02:17	4° <b>£</b> 16′10	18.79746 AU
direct	11601 Jun 02 17:51	2° <b>£</b> 17'36	
evening set	11601 Sep 01 04:14	5° <b>≙</b> 20'02	
	11601 0 15 05 55	co <b>0</b> 1 510 5	00.4044.0
conjunction	11601 Sep 17 06:56	6° <b>£</b> 15'32	0°42'19
minimum elong	11601 Sep 17 06:56	6° <b>£</b> 15'32	0°42'19
max. Earth dist.	11601 Sep 17 12:28	6° <b>≙</b> 16′20	20.77279 AU
morning rise	11601 Oct 03 12:16	7° <b>£</b> 11'27	
retrograde	11602 Jan 05 13:50	10° <b>≏</b> 20'49	