opposition	14100 Jan 20 21:46	12° <b>Ω</b> 44'56	-0°40'02	max. Earth dist.	14105 Aug 14 08:56	4° Mp 56′55	20.96882 AU
min. Earth dist.	14100 Jan 20 14:50	12° <b>Ω</b> 45'38	18.80381 AU	morning rise	14105 Aug 29 19:35	5° <b>m</b> 50'01	
direct	14100 Apr 07 22:26	10° <b>Ω</b> 46′13		retrograde	14105 Nov 30 04:57	8° <b>m</b> 54'50	
evening set	14100 Jul 08 21:56	13° <b>Ω</b> 51'41		opposition	14106 Feb 15 09:32	6° ₩ 56'52	-0°11'05
•				min. Earth dist.	14106 Feb 15 00:49		18.97911 AU
conjunction	14100 Jul 24 17:33	14°Ω46'32	-0°34'07	direct	14106 May 03 03:31	4° <b>m</b> 59'10	10.57511110
minimum elong	14100 Jul 24 17:33	14°Ω46'32		evening set	14106 Aug 02 08:57	8° Mp 01'27	
Č				evening set	14100 Aug 02 08.57	8 HJ0127	
max. Earth dist.	14100 Jul 25 01:11		20.82247 AU		14106 1 10 04 41	00% 55146	0005144
	14100 Jul 28 14:03	15°Ω		conjunction	14106 Aug 18 04:41	8° TD 55'46	
morning rise	14100 Aug 09 13:07	15° <b>Ω</b> 41'22		minimum elong	14106 Aug 18 04:41	8° Mp 55'46	0°08'14
retrograde	14100 Nov 09 14:58	18° <b>Ω</b> 47'05		behind sun begin	14106 Aug 17 22:51	8° <b>m</b> 54'57	
opposition	14101 Jan 25 08:31	16° <b>Ω</b> 49'00	-0°35'32	behind sun end	14106 Aug 18 10:31	8° m 56'35	
min. Earth dist.	14101 Jan 25 00:17	16° <b>Ω</b> 49'50	18.84042 AU	max. Earth dist.	14106 Aug 18 13:56	8° mp 57'05	20.98842 AU
	14101 Mar 23 14:33	15°RΩ		morning rise	14106 Sep 03 01:18	9° m 50'12	
direct	14101 Apr 12 09:52	14° <b>Ω</b> 50′26		retrograde	14106 Dec 04 13:45	12° m 55'00	
direct	14101 May 01 20:31	15°Ω		opposition	14107 Feb 19 18:24	10° Mp 57'04	0°05'50
	•			• •		-•	
evening set	14101 Jul 13 04:37	17° <b>Ω</b> 55'13		min. Earth dist.	14107 Feb 19 08:46		18.99672 AU
				direct	14107 May 07 11:23	8° <b>m</b> 59'30	
conjunction	14101 Jul 29 00:11	18° <b>Ω</b> 49'56	-0°29'59	evening set	14107 Aug 06 14:10	12° <b>m</b> 01'29	
minimum elong	14101 Jul 29 00:11	18° <b>Ω</b> 49'56	0°30'45				
max. Earth dist.	14101 Jul 29 08:32	18° <b>Ω</b> 51'09	20.85750 AU	conjunction	14107 Aug 22 10:05	12° m 55'46	-0°03'08
morning rise	14101 Aug 13 19:46	19° <b>Ω</b> 44'40		minimum elong	14107 Aug 22 10:05	12° m 55'46	
retrograde	14101 Nov 13 21:30	22°Ω50'05		behind sun begin	14107 Aug 22 03:33	12° Mp 54'51	0 03 33
			0020152		•		
opposition	14102 Jan 29 19:07	20° <b>Ω</b> 52'01		behind sun end	14107 Aug 22 16:37	12° m 56'40	
min. Earth dist.	14102 Jan 29 11:31		18.87408 AU	max. Earth dist.	14107 Aug 22 19:43	12° mp 57'08	21.00386 AU
direct	14102 Apr 16 18:36	18° <b>Ω</b> 53'36		morning rise	14107 Sep 07 06:55	13° Mp 50'12	
evening set	14102 Jul 17 10:46	21° <b>Ω</b> 57'45		retrograde	14107 Dec 08 20:40	16° Mp 55′00	
				opposition	14108 Feb 24 03:22	14° <b>m</b> 57'05	-0°00'51
conjunction	14102 Aug 02 06:17	22° <b>Ω</b> 52'21	-0°25'43	min. Earth dist.	14108 Feb 23 18:48	14° m 57'57	19.00997 AU
minimum elong	14102 Aug 02 06:17	22° <b>Ω</b> 52'21		asc. node	14108 Apr 21 03:02	13° m 09'09	
max. Earth dist.	14102 Aug 02 14:42		20.88982 AU	direct	14108 May 10 17:25	12° m 59'41	
	-		20.00902 AU		•		
morning rise	14102 Aug 18 02:04	23° <b>Ω</b> 47'00		evening set	14108 Aug 09 19:21	16°Mp01'22	
retrograde	14102 Nov 18 06:52	26° <b>Ω</b> 52'11					
opposition	14103 Feb 03 05:05	24° <b>Ω</b> 54'08	-0°26'04	conjunction	14108 Aug 25 15:21	16° <b>m</b> 55′38	0°01'37
min. Earth dist.	14103 Feb 02 20:06	24° <b>Ω</b> 55'02	18.90494 AU	minimum elong	14108 Aug 25 15:21	16° Mp 55′38	0°01'17
direct	14103 Apr 21 04:29	22° <b>Ω</b> 55'53		behind sun begin	14108 Aug 25 08:47	16° <b>m</b> 54'43	
evening set	14103 Jul 21 16:41	25° <b>Ω</b> 59'29		behind sun end	14108 Aug 25 21:56	16° m 56'33	
				max. Earth dist.	14108 Aug 26 00:19		21.01485 AU
conjunction	14103 Aug 06 12:14	26° <b>Ω</b> 54'00	0°21'20	morning rise	14108 Sep 10 12:32	17° m 50'03	21.01403710
,	Č			Č			
minimum elong	14103 Aug 06 12:15	26° <b>Ω</b> 54'00		retrograde	14108 Dec 12 05:50	20° m 54'57	000.411.5
max. Earth dist.	14103 Aug 06 21:21		20.91919 AU	opposition	14109 Feb 27 12:07	18° <b>m</b> 57'01	
morning rise	14103 Aug 22 08:07	27° <b>Ω</b> 48'34		min. Earth dist.	14109 Feb 27 02:53	18° Mp 57′56	19.01854 AU
	14103 Oct 06 16:07	0° <b>m</b> y		direct	14109 May 15 01:18	16° <b>₪</b> 59'42	
retrograde	14103 Nov 22 13:11	0° <b>m</b> 53'33		evening set	14109 Aug 14 00:37	20° Mp 01'11	
	14104 Jan 10 05:58	$30^{\circ}$ R $\Omega$					
opposition	14104 Feb 07 14:45	28° <b>Ω</b> 55'32	-0°21'09	conjunction	14109 Aug 29 20:52	20° m 55'26	0°06'16
min. Earth dist.	14104 Feb 07 06:30		18.93288 AU	minimum elong	14109 Aug 29 20:52	20° m 55'26	
direct	14104 Apr 24 12:07	26° <b>Ω</b> 57'28	10.75200710	behind sun begin	14109 Aug 29 14:36	20° m 54'34	0 03 37
	•			•	Č		
evening set	14104 Jul 24 22:21	0° Mp 00'35		behind sun end	14109 Aug 30 03:09	20° m 56'19	
	14104 Jul 24 18:15	0° <b>™</b>		max. Earth dist.	14109 Aug 30 06:01	-	21.02081 AU
				morning rise	14109 Sep 14 18:18	21°Mp49'53	
conjunction	14104 Aug 09 17:54	0° m/55'00	-0°16'52	retrograde	14109 Dec 16 12:50	24° <b>m</b> 54'53	
minimum elong	14104 Aug 09 17:55	0° m 55'00	0°17'29	opposition	14110 Mar 03 20:55	22° m 56'54	0°09'24
max. Earth dist.	14104 Aug 10 02:51	0° m 56'17	20.94570 AU	min. Earth dist.	14110 Mar 03 12:55	22° m 57'42	19.02192 AU
morning rise	14104 Aug 25 14:02	1° mp 49'31		direct	14110 May 19 06:57	20° m 59'39	
retrograde	14104 Nov 25 22:09	4° Mp 54'23		evening set	14110 Aug 18 05:52	24° Mp 00'57	
•		=	0017100	evening set	14110 Aug 16 03.32	24 IIJ0037	
opposition	14105 Feb 11 00:09	2° m 56'24			14110 6 05 55	0.40 == 5 == :	0016:
min. Earth dist.	14105 Feb 10 14:39		18.95774 AU	conjunction	14110 Sep 03 02:20	24° m 55'13	
direct	14105 Apr 28 20:40	0° <b>™</b> 58'31		minimum elong	14110 Sep 03 02:20	24° <b>m</b> 55'13	0°10'40
evening set	14105 Jul 29 03:39	4° <b>m</b> 01'11		behind sun begin	14110 Sep 02 21:14	24° <b>m</b> 54'30	
				behind sun end	14110 Sep 03 07:26	24° m 55'56	
conjunction	14105 Aug 13 23:18	4° m 55'33	-0°12'19	max. Earth dist.	14110 Sep 03 10:30	-	21.02156 AU
minimum elong	14105 Aug 13 23:18	4° m 55'33		morning rise	14110 Sep 19 00:13	25° m/49'42	
behind sun begin	14105 Aug 13 19:11	4° Mp 54'58	V 1202	retrograde	14110 Dec 20 22:08	28° Mp 54'49	
	-			-		-	0014120
behind sun end	14105 Aug 14 03:25	4° Mp 56′08		opposition	14111 Mar 08 05:30	26° Mp 56'44	0 14/29

min. Earth dist.	14111 Mar 07 21:07	26° M 57'35	19.01989 AU	evening set	14117 Sep 14 21:54	22° <b>ჲ</b> 01'37	
direct	14111 May 23 14:57	24° <b>m</b> 59'30					
evening set	14111 Aug 22 11:15	28° Mp 00'40		conjunction	14117 Sep 30 20:51	22° <b>≏</b> 56'24	0°40'29
				minimum elong	14117 Sep 30 20:51	22° <b>≏</b> 56'24	0°40'48
conjunction	14111 Sep 07 08:02	28° <b>m</b> 54'58	0°15'24	max. Earth dist.	14117 Oct 01 03:40		20.89720 AU
minimum elong	14111 Sep 07 08:02	28° <b>m</b> 54'58	0°15'16	morning rise	14117 Oct 16 21:45	23° <b>≙</b> 51'31	
behind sun begin	14111 Sep 07 05:50	28° <b>m</b> 54'40		retrograde	14118 Jan 18 09:30	26° <b>≙</b> 58'43	
behind sun end	14111 Sep 07 10:14	28° <b>m</b> 55'17		opposition	14118 Apr 05 17:15	24° <b>≙</b> 59'27	
max. Earth dist.	14111 Sep 07 16:13	=	21.01668 AU	min. Earth dist.	14118 Apr 05 11:21	25° <b>≏</b> 00'03	18.88210 AU
morning rise	14111 Sep 23 06:12	29° <b>m</b> 49'29		direct	14118 Jun 20 13:46	23° <b>Ω</b> 01'42	
_	14111 Sep 26 09:32	0∘ <b>⊽</b>		evening set	14118 Sep 19 04:46	26° <b>ჲ</b> 03'36	
retrograde	14111 Dec 25 05:18	2° <b>£</b> 54'46					
opposition	14112 Mar 11 14:03	0° <b>£</b> 56'33	0°19'29	conjunction	14118 Oct 05 04:06	26° <b>£</b> 58'32	0°44'06
min. Earth dist.	14112 Mar 11 06:57		19.01233 AU	minimum elong	14118 Oct 05 04:06	26° <b>♀</b> 58'32	0°44'28
	14112 Apr 05 02:43	30°R Mp		max. Earth dist.	14118 Oct 05 09:54		20.86601 AU
direct	14112 May 26 20:59	28° m 59'17		morning rise	14118 Oct 21 05:39	27° <b>£</b> 53'47	
	14112 Jul 15 16:55	0∘ <b>⊽</b>			14118 Dec 03 03:06	0° <b>™</b>	
evening set	14112 Aug 25 16:41	2° <b>≏</b> 00'22		retrograde	14119 Jan 22 21:10	1°M01'30	
					14119 Mar 16 05:47	30° <b>₹</b> Ω	
conjunction	14112 Sep 10 13:42	2° <b>£</b> 54'42	0°19'52	opposition	14119 Apr 10 02:11	29° <b>Ω</b> 02'06	0°50'45
minimum elong	14112 Sep 10 13:42	2° <b>≏</b> 54'42	0°19'49	min. Earth dist.	14119 Apr 09 20:04		18.84945 AU
max. Earth dist.	14112 Sep 10 20:57		21.00669 AU	direct	14119 Jun 24 20:53	27° <b>Ω</b> 04'16	
morning rise	14112 Sep 26 12:23	3° <b>≙</b> 49'17			14119 Sep 21 13:20	0° <b>M</b>	
retrograde	14112 Dec 28 14:20	6° <b>≙</b> 54'45		evening set	14119 Sep 23 12:04	0°M06'34	
opposition	14113 Mar 15 22:32						
min. Earth dist.	14113 Mar 15 15:02		18.99992 AU	conjunction	14119 Oct 09 11:56	1°M01'39	0°47'31
direct	14113 May 31 04:36	2° <b>≙</b> 59'01		minimum elong	14119 Oct 09 11:56	1° <b>M</b> 01'39	0°47'59
evening set	14113 Aug 29 22:00	6° <b>ჲ</b> 00'03		max. Earth dist.	14119 Oct 09 18:08	1°M02'33	20.83175 AU
				morning rise	14119 Oct 25 13:52	1°M57'04	
conjunction	14113 Sep 14 19:25	6° <b>£</b> 54'27	0°24'16	retrograde	14120 Jan 27 06:32	5°M05'20	
minimum elong	14113 Sep 14 19:25	6° <b>£</b> 54'27	0°24'17	opposition	14120 Apr 13 11:27	3°M05'49	0°54'26
max. Earth dist.	14113 Sep 15 03:02		20.99194 AU	min. Earth dist.	14120 Apr 13 06:10	3°M06'21	18.81369 AU
morning rise	14113 Sep 30 18:27	7° <b>≏</b> 49'06		direct	14120 Jun 28 03:28	1°M07'56	
retrograde	14114 Jan 01 21:49	10° <b>≙</b> 54'49		evening set	14120 Sep 26 20:00	4° <b>™</b> 10'41	
opposition	14114 Mar 20 07:05	8° <b>≏</b> 56'14	0°29'12				
min. Earth dist.	14114 Mar 20 00:35		18.98311 AU	conjunction	14120 Oct 12 20:16	5°M05'56	0°50'42
direct	14114 Jun 04 11:07	6° <b>≙</b> 58'48		minimum elong	14120 Oct 12 20:16	5° <b>™</b> 05'56	0°51'13
evening set	14114 Sep 03 03:40	9° <b>≏</b> 59'51		max. Earth dist.	14120 Oct 13 01:17		20.79458 AU
				morning rise	14120 Oct 28 22:52	6°M01'32	
conjunction	14114 Sep 19 01:22		0°28'32	retrograde	14121 Jan 30 19:19	9° <b>™</b> 10′24	
minimum elong	14114 Sep 19 01:22	10° <b>£</b> 54'19	0°28'37	opposition	14121 Apr 17 21:04	7° <b>M</b> 10'45	
max. Earth dist.	14114 Sep 19 08:09		20.97327 AU	min. Earth dist.	14121 Apr 17 15:53		18.77495 AU
morning rise	14114 Oct 05 00:57	11° <b>≏</b> 49'04		direct	14121 Jul 02 11:41	5° <b>™</b> 12'46	
retrograde	14115 Jan 06 07:05	14° <b>£</b> 55'04	0000150	evening set	14121 Oct 01 04:25	8°M16'02	
opposition	14115 Mar 24 15:20						
min. Earth dist.	14115 Mar 24 08:23		18.96265 AU	conjunction	14121 Oct 17 05:20	9°M11'29	0°53'39
direct	14115 Jun 08 17:52	10° <b>£</b> 58'46		minimum elong	14121 Oct 17 05:19	9°M11'29	0°54'14
evening set	14115 Sep 07 09:29	13° <b>≏</b> 59'56		max. Earth dist.	14121 Oct 17 10:36		20.75406 AU
	14115 0 00 00 00		0000111	morning rise	14121 Nov 02 08:22	10°M07'16	
conjunction	14115 Sep 23 07:37		0°32'41	retrograde	14122 Feb 04 05:51	13°M16'46	1000150
minimum elong	14115 Sep 23 07:37	14° <b>£</b> 54'29	0°32'51	opposition	14122 Apr 22 07:05	11°M17'00	1°00'59
max. Earth dist.	14115 Sep 23 14:48		20.95097 AU	min. Earth dist.	14122 Apr 22 02:54		18.73267 AU
morning rise	14115 Oct 09 07:33	15° <b>Ω</b> 49'20		direct	14122 Jul 06 19:01	9°M18'54	
retrograde	14116 Jan 10 14:46	18° <b>£</b> 55'40	0020122	evening set	14122 Oct 05 13:45	12°M22'45	
opposition	14116 Mar 27 23:53	16° <b>£</b> 56'43	0°38'23		14122 0 4 21 15 05	130 <b>m</b> 10102	0056120
min. Earth dist.	14116 Mar 27 17:43		18.93877 AU	conjunction	14122 Oct 21 15:05	13°M18'23	0°56'20
direct	14116 Jun 12 00:35	14° <b>£</b> 59'08		minimum elong	14122 Oct 21 15:04	13°M18'23	0°56'59
evening set	14116 Sep 10 15:30	18° <b>≏</b> 00'27		max. Earth dist.	14122 Oct 21 18:43		20.70999 AU
	141160 26 12 55	100 2 5505	0026140	morning rise	14122 Nov 06 18:48	14°M14'23	
conjunction	14116 Sep 26 13:56	18° <b>♀</b> 55'07	0°36'40		14122 Nov 20 13:39	15°M	
minimum elong	14116 Sep 26 13:56	18° <b>£</b> 55'07		retrograde	14123 Feb 08 19:10	17°M24'31	1002150
max. Earth dist.	14116 Sep 26 20:19		20.92561 AU	opposition	14123 Apr 26 17:19	15°M24'35	
morning rise	14116 Oct 12 14:26	19° <b>£</b> 50'05		min. Earth dist.	14123 Apr 26 13:42		18.68672 AU
retrograde	14117 Jan 14 01:07	22° <b>£</b> 56'51	00.404.5		14123 May 06 19:27	15°RM	
opposition	14117 Apr 01 08:29	20° <b>£</b> 57'43	0°42'43	direct	14123 Jul 11 04:21	13°M26'20	
min. Earth dist.	14117 Apr 01 01:49		18.91193 AU		14123 Sep 11 03:57	15° <b>™</b>	
direct	14117 Jun 16 07:10	19° <b>ഫ</b> 00'02		evening set	14123 Oct 09 23:39	16° <b>™</b> 30'48	

conjunction	14123 Oct 26 01:39	17° <b>M</b> 26'39	0°58'45	min. Earth dist.	14130 May 26 05:35	14° <b>∡</b> 754'57	18.28440 AU
minimum elong	14123 Oct 26 01:38	17°M26'39	0°59'27	direct	14130 Aug 09 07:10	12° <b>∡</b> ′54′48	
max. Earth dist.	14123 Oct 26 05:16		20.66197 AU	evening set	14130 Nov 08 15:31	16° <b>∡</b> 04'29	
morning rise	14123 Nov 11 05:47	18°M22'51					
retrograde	14124 Feb 13 06:46	21°M33'38		conjunction	14130 Nov 24 21:48	17° <b>∡</b> 02'04	1°06'39
opposition	14124 Apr 30 04:09	19°M33'32	1°06'22	minimum elong	14130 Nov 24 21:48	17° <b>∡</b> ¹02'04	1°07'38
min. Earth dist.	14124 Apr 30 01:30	19°M33'48	18.63675 AU	max. Earth dist.	14130 Nov 24 19:40		20.25339 AU
direct	14124 Jul 14 13:16	17°M35'06		morning rise	14130 Dec 11 06:17	17° <b>∡</b> 759'59	
evening set	14124 Oct 13 10:08	20°M40'10		retrograde	14131 Mar 15 11:42	21° <b>∡</b> 15'32	
				opposition	14131 May 30 18:39	19° <b>∡</b> 13'45	1°13'56
conjunction	14124 Oct 29 12:35	21°M36'14	1°00'53	min. Earth dist.	14131 May 30 20:09		18.22300 AU
minimum elong	14124 Oct 29 12:35	21°M36'14	1°01'39	direct	14131 Aug 13 19:17	17° <b>∡</b> 13'14	
max. Earth dist.	14124 Oct 29 14:24	21°M36'30	20.61021 AU	evening set	14131 Nov 13 07:01	20° <b>∡</b> ¹23'50	
morning rise	14124 Nov 14 17:28	22°M32'40					
retrograde	14125 Feb 16 20:08	25°M44'07		conjunction	14131 Nov 29 14:08	21° <b>×</b> <sup>7</sup> 21'41	1°06'20
opposition	14125 May 04 15:21	23°M43'47	1°08'34	minimum elong	14131 Nov 29 14:08	21° <b>×</b> <sup>7</sup> 21'41	1°07'22
min. Earth dist.	14125 May 04 13:22	23°M43'59	18.58324 AU	max. Earth dist.	14131 Nov 29 12:43		20.19219 AU
direct	14125 Jul 18 23:25	21°M45'05		morning rise	14131 Dec 15 23:02	22° <b>∡</b> 19'52	
evening set	14125 Oct 17 21:14	24°M50'50		retrograde	14132 Mar 19 05:21	25° <b>∡</b> ¹36′08	
				opposition	14132 Jun 03 09:01	23° <b>∡</b> ³34'11	1°13'24
conjunction	14125 Nov 03 00:28	25° <b>™</b> 47′09	1°02'42	min. Earth dist.	14132 Jun 03 10:19		18.16207 AU
minimum elong	14125 Nov 03 00:27	25° <b>™</b> 47'08	1°03'30	direct	14132 Aug 17 08:39	21° <b>∡</b> ³33′24	
max. Earth dist.	14125 Nov 03 02:25		20.55501 AU	evening set	14132 Nov 16 23:27	24° <b>∡</b> ¹44'56	
morning rise	14125 Nov 19 05:48	26°M43'48				_	
retrograde	14126 Feb 21 09:01	29°M55'53		conjunction	14132 Dec 03 07:04	25° <b>∡</b> ¹43'05 −	1°05'38
opposition	14126 May 09 02:45	27°M55'19	1°10'26	minimum elong	14132 Dec 03 07:04	25° <b>∡</b> ¹43'05	1°06'40
min. Earth dist.	14126 May 09 01:33		18.52657 AU	max. Earth dist.	14132 Dec 03 04:04		20.13171 AU
direct	14126 Jul 23 09:43	25°M56'20		morning rise	14132 Dec 19 16:44	26° <b>∡</b> ¹41'32	
evening set	14126 Oct 22 09:09	29° <b>™</b> 02'47		retrograde	14133 Mar 23 23:15	29° <b>∡</b> ¹58'33	
				opposition	14133 Jun 08 00:04	27° <b>∡</b> ¹56′26	1°12'26
conjunction	14126 Nov 07 12:52	29°M59'20	1°04'11	min. Earth dist.	14133 Jun 08 02:24		18.10203 AU
minimum elong	14126 Nov 07 12:52	29°M59'20	1°05'03	direct	14133 Aug 21 21:46	25° <b>₹</b> 55'24	
	14126 Nov 07 17:27	0° <b>∡</b> 7		evening set	14133 Nov 21 16:47	29° <b>⋌</b> '07'55	
max. Earth dist.	14126 Nov 07 13:01		20.49720 AU		14133 Dec 06 06:55	0°₹	
morning rise	14126 Nov 23 18:59	0° <b>∡</b> ′56′13					
retrograde	14127 Feb 25 22:34	4° <b>⋌</b> '08'59		conjunction	14133 Dec 08 01:15	0°る06'21	1°04'33
opposition	14127 May 13 14:37	2° <b>∡</b> 108'08	1°11'55	minimum elong	14133 Dec 08 01:15	0°る06'21	1°05'36
min. Earth dist.	14127 May 13 14:09	2° <b>∡</b> 08'11	18.46774 AU	max. Earth dist.	14133 Dec 07 22:49	0°る05'59	20.07207 AU
direct	14127 Jul 27 20:19	0° <b>∡</b> 108'51		morning rise	14133 Dec 24 11:19	1°る05'05	
evening set	14127 Oct 26 21:30	3° <b>≯</b> 16′03		retrograde	14134 Mar 28 18:51	4°₹22'49	1011102
	1410531 10 01 50	40 310150	1005101	opposition	14134 Jun 12 15:29	2°る20'36	
conjunction	14127 Nov 12 01:58	4° <b>₹</b> 12'50	1°05'21	min. Earth dist.	14134 Jun 12 17:42		18.04271 AU
minimum elong	14127 Nov 12 01:58	4° <b>₹</b> 12'50	1°06'15	direct	14134 Aug 26 12:56	0°る19'20	
max. Earth dist.	14127 Nov 12 02:33		20.43739 AU	evening set	14134 Nov 26 11:15	3° <b>る</b> 32'51	
morning rise	14127 Nov 28 08:29	5° <b>∡</b> 109'58			14124 D 12 20 11	40721124	1002105
retrograde	14128 Mar 01 12:44	8° ₹ 23'25	1012102	conjunction	14134 Dec 12 20:11	4°₹31'34	1°03'05
opposition	14128 May 17 02:55	6° 🗷 22'19	1°13'02	minimum elong	14134 Dec 12 20:11	4° <b>る</b> 31'34	1°04'09
min. Earth dist.	14128 May 17 02:47		18.40724 AU	max. Earth dist.	14134 Dec 12 16:01		20.01315 AU
direct	14128 Jul 31 07:44	4° 🗷 22'43		morning rise	14134 Dec 29 06:54	5°る30'35 8°る49'03	
evening set	14128 Oct 30 10:47	7° <b>∡</b> ³30'42		retrograde	14135 Apr 02 13:48		1°09'13
aaniumatiam	14120 Nov. 15 15.44	8° <b>∡</b> 127'44	1°06'09	opposition min. Earth dist.	14135 Jun 17 07:49 14135 Jun 17 11:28	6° <b>る</b> 46'43	1°09°13 17.98414 AU
conjunction minimum elong	14128 Nov 15 15:44 14128 Nov 15 15:44	8° <b>×</b> <sup>1</sup> 27'44	1°06'09 1°07'05	direct		4°る46'20'	17.98414 AU
max. Earth dist.	14128 Nov 15 14:42		20.37648 AU		14135 Aug 31 03:00 14135 Dec 01 06:21	4 <b>3</b> 43 12 7° <b>る</b> 59'45	
		8° <b>x</b> '2/'33 9° <b>x</b> '25'08	20.37048 AU	evening set	14135 Dec 01 06:21	/ 63943	
morning rise	14128 Dec 01 23:03	12° <b>x</b> 39'16		conjunction	14135 Dec 17 16:03	8° <b>る</b> 58'45	1°01'14
retrograde opposition	14129 Mar 06 03:33 14129 May 21 15:41	12° <b>x</b> '39'16 10° <b>x</b> '37'55	1°13'45	minimum elong	14135 Dec 17 16:03		1°02'17
min. Earth dist.	14129 May 21 15:41 14129 May 21 16:16		18.34605 AU	max. Earth dist.	14135 Dec 17 16:03		19.95481 AU
direct	14129 May 21 16:16 14129 Aug 04 18:55	8° <b>×</b> 37'51	10.J <del>1</del> 00J AU	max. Earth dist.	14136 Jan 03 03:07	8° <b>ろ</b> 58'01	17.73401 AU
evening set	14129 Nov 04 00:38	11° <b>x</b> '3/'39		retrograde	14136 Jan 03 03:07 14136 Apr 06 11:27	9°63801 13° <b>る</b> 17'12	
evening set	1714/ INUV U4 UU.30	11 > 4040		opposition	14136 Apr 06 11.27	13 <b>3</b> 1712 11° <b>3</b> 14'46	1°06'58
				оррознион	17130 Juli 21 00.42	11 01440	1 00 30
conjunction	1/129 Nov 20 06:26	12° <b>7</b> 144'07	1°06'35	min Forth dist	1/136 Jun 21 04-12	11º <b>ス</b> 1/12/	17 02505 ATT
conjunction	14129 Nov 20 06:26	12° <b>√</b> 44'07 12° <b>√</b> 44'07	1°06'35 1°07'34	min. Earth dist.	14136 Jun 21 04:12		17.92595 AU
minimum elong	14129 Nov 20 06:26	12° <b>∡</b> ¹44'07	1°07'34	direct	14136 Sep 03 20:21	9° <b>ප</b> 13'00	17.92595 AU
minimum elong max. Earth dist.	14129 Nov 20 06:26 14129 Nov 20 05:59	12° <b>х</b> 44′07 12° <b>х</b> 44′03					17.92595 AU
minimum elong max. Earth dist. morning rise	14129 Nov 20 06:26 14129 Nov 20 05:59 14129 Dec 06 14:11	12° <b>х</b> 44'07 12° <b>х</b> 44'03 13° <b>х</b> 41'46	1°07'34	direct evening set	14136 Sep 03 20:21 14136 Dec 05 02:41	9° <b>ප</b> 13'00 12° <b>පි</b> 28'33	
minimum elong max. Earth dist.	14129 Nov 20 06:26 14129 Nov 20 05:59	12° <b>х</b> 44′07 12° <b>х</b> 44′03	1°07'34 20.31498 AU	direct	14136 Sep 03 20:21	9° <b>ප</b> 13'00	0°59'00

morning rise	14149 Mar 05 12:13	10° <b>¥</b> 08'19		evening set	14155 Mar 02 07:53	6° <b>Ƴ</b> 36'37	
retrograde	14149 Jun 06 21:17	13° <b>)</b> €32'33		2,2			
opposition	14149 Aug 20 02:47	11° <b>¥</b> 29′10	0°05'53	conjunction	14155 Mar 18 19:53	7° <b>Y</b> 38'04	-0°24'30
min. Earth dist.	14149 Aug 20 10:28	11° <b>)</b> €28′20	17.39415 AU	minimum elong	14155 Mar 18 19:52	7° <b>Y</b> 38'04	0°24'32
direct	14149 Nov 03 05:02	9° <b>∺</b> 24'20		max. Earth dist.	14155 Mar 18 11:19	7° <b>Y</b> 36'44	19.38830 AU
evening set	14150 Feb 05 13:06	12° <b>)</b> 50′06		morning rise	14155 Apr 04 06:01	8° <b>Y</b> 39'17	
				retrograde	14155 Jul 05 21:47	12° <b>Y</b> 02'31	
conjunction	14150 Feb 22 02:46	13° <b>米</b> 51'45	0°02'33	opposition	14155 Sep 18 00:48	9° <b>Y</b> 59'29	
minimum elong	14150 Feb 22 02:45	13° <b>¥</b> 51'45	0°02'57	min. Earth dist.	14155 Sep 18 07:33		17.39469 AU
behind sun begin	14150 Feb 21 20:01	13° <b>¥</b> 50'43		direct	14155 Dec 02 17:01	7° <b>Y</b> ′54'16	
behind sun end	14150 Feb 22 09:28	13° <b>)</b> € 52'46		evening set	14156 Mar 06 11:04	11° <b>Y</b> 20'54	
max. Earth dist.	14150 Feb 21 16:57		19.38825 AU		1415634 00 00 00	1000000111	0000100
morning rise	14150 Mar 10 15:33	14° <b>)</b> ₹53'15		conjunction	14156 Mar 22 22:26	12° <b>Y</b> 22'14	
retrograde	14150 Jun 11 22:01	18° <b>)</b> € 17'31		minimum elong	14156 Mar 22 22:26 14156 Mar 22 14:01	12° <b>Υ</b> 22'14	
desc. node	14150 Aug 11 07:22	16° <b>)</b> 49'44 16° <b>)</b> 14'11	0000!14	max. Earth dist.		$12^{\circ}$ \ \frac{7}{2036} \ $13^{\circ}$ \cdot \cdot \cdot 23'19	19.40226 AU
opposition min. Earth dist.	14150 Aug 25 02:08 14150 Aug 25 09:56		17.38349 AU	morning rise retrograde	14156 Apr 08 07:55 14156 Jul 09 19:44	15 1 23 19 16° <b>Υ</b> 46'09	
direct	14150 Aug 25 09:30 14150 Nov 08 06:28	16 <b>★</b> 13 20	17.36349 AU	opposition	14156 Sep 22 00:22	16 <b>γ</b> 40 09	0°35'37
evening set	14151 Feb 10 16:55	17°\ 35'25		min. Earth dist.	14156 Sep 22 07:37		17.41137 AU
evening set	14131160 10 10.33	17 7(33.23		direct	14156 Dec 06 18:14	$12^{\circ}$ <b>Y</b> $^{3}$ 7'59	17.41137 AO
conjunction	14151 Feb 27 06:32	18° <b>¥</b> 37′05	-0°03'05	evening set	14157 Mar 11 13:46	16° <b>Υ</b> 04'27	
minimum elong	14151 Feb 27 06:31	18° <b>)</b> € 37'05	0°02'47				
behind sun begin	14151 Feb 26 23:48	18° <b>¥</b> 36′03		conjunction	14157 Mar 28 00:33	17° <b>Y</b> 05'39	-0°34'21
behind sun end	14151 Feb 27 13:14	18° <b>)</b> 38′06		minimum elong	14157 Mar 28 00:33	17° <b>Y</b> ′05'39	0°34'32
max. Earth dist.	14151 Feb 26 21:45	18° <b>)</b> 35′44	19.37962 AU	max. Earth dist.	14157 Mar 27 16:50	17° <b>Y</b> ′04′27	19.42161 AU
morning rise	14151 Mar 15 18:45	19° <b>)</b> 38′35		morning rise	14157 Apr 13 09:20	18° <b>Y</b> 06'34	
retrograde	14151 Jun 16 22:32	23° <b>)</b> €02'46		retrograde	14157 Jul 14 19:38	21° <b>Y</b> 28'57	
opposition	14151 Aug 30 01:45	20° <b>¥</b> 59′30	-0°06'23	opposition	14157 Sep 26 23:44	19° <b>Y</b> 26'06	
min. Earth dist.	14151 Aug 30 09:24	20° <b>)</b> 58′40	17.37690 AU	min. Earth dist.	14157 Sep 27 05:26	19° <b>Y</b> 25'29	17.43340 AU
direct	14151 Nov 13 07:36	18° <b>)</b> 54′30		direct	14157 Dec 11 21:12	17° <b>Y</b> 20'56	
evening set	14152 Feb 15 20:52	22° <b>)</b> € 20'56		evening set	14158 Mar 16 15:56	20° <b>Ƴ</b> 47'09	
conjunction	14152 Mar 03 10:02	23° <b>)</b> €22'35	-0°08'34	conjunction	14158 Apr 02 02:02	21° <b>Ƴ</b> 48'10	-0°38'55
minimum elong	14152 Mar 03 10:01	23° <b>)</b> 22'35	0°08'19	minimum elong	14158 Apr 02 02:01	21° <b>Y</b> '48'10	
behind sun begin	14152 Mar 03 04:06	23° <b>)</b> €21'41		max. Earth dist.	14158 Apr 01 19:14	21° <b>Y</b> 47'07	19.44635 AU
behind sun end	14152 Mar 03 15:57	23° <b>¥</b> 23′29		morning rise	14158 Apr 18 09:58	22° <b>Y</b> '48'55	
max. Earth dist.	14152 Mar 03 00:08	23° <b>)</b> €21′03	19.37516 AU	retrograde	14158 Jul 19 16:46	26° <b>Ƴ</b> 10'49	
morning rise	14152 Mar 19 21:58	24° <b>)</b> €24′03		opposition	14158 Oct 01 23:06	24° <b>Y</b> ′08'07	-0°45'48
retrograde	14152 Jun 20 22:27	27° <b>)</b> 48′07		min. Earth dist.	14158 Oct 02 05:02	24° <b>Y</b> 07'29	17.46109 AU
opposition	14152 Sep 03 01:32	25° <b>)</b> 44′53	-0°12'29	direct	14158 Dec 16 21:14	22° <b>Y</b> ′03'02	
min. Earth dist.	14152 Sep 03 09:33		17.37462 AU	evening set	14159 Mar 21 17:37	25° <b>Y</b> 28′56	
direct	14152 Nov 17 09:33	23° <b>)</b> 39'49					
evening set	14153 Feb 20 00:45	27° <b>)</b> €06'27		conjunction	14159 Apr 07 02:58	26° <b>Y</b> 29'46	
	1415234 00 12 12	2001/00104	0012150	minimum elong	14159 Apr 07 02:58	26° <b>Y</b> 29'46	
conjunction	14153 Mar 08 13:42	28° <b>)</b> €08'04		max. Earth dist.	14159 Apr 06 20:40		19.47694 AU
minimum elong	14153 Mar 08 13:42	28°\(\mathbf{H}\) 08'04 28°\(\mathbf{H}\) 07'32	0°13'50	morning rise	14159 Apr 23 10:13	27° <b>Ƴ</b> 30′19	
behind sun begin behind sun end	14153 Mar 08 10:17 14153 Mar 08 17:07	28° <b>★</b> 0/32 28° <b>★</b> 08'35		retrograde	14159 Jun 10 19:52 14159 Jul 24 16:29	0° <b>と</b> 0° <b>と</b> 51'43	
max. Earth dist.	14153 Mar 08 04:46		19.37500 AU	renograde	14159 Sep 07 18:33	0 <b>O</b> 31 43	
morning rise	14153 Mar 25 01:01	28 \(\)(0040) 29°\(\)(09'28)	19.57500 AO	opposition	14159 Oct 06 22:00	28° <b>Υ</b> 49'12	-0°50'25
morning risc	14153 Apr 08 05:59	0° <b>Υ</b>		min. Earth dist.	14159 Oct 07 02:09		17.49445 AU
retrograde	14153 Jun 25 22:47	2° <b>Υ</b> '33'18		direct	14159 Dec 21 23:02	26° <b>Υ</b> 44'16	17.17113116
opposition	14153 Sep 08 01:13	0° <b>Υ</b> 30'09	-0°18'30		14160 Mar 23 01:58	0°8	
min. Earth dist.	14153 Sep 08 08:38		17.37657 AU	evening set	14160 Mar 25 18:41	0° <b>8</b> 09'46	
	14153 Sep 19 16:40	30° <b>Ŗ</b> ₩		C			
direct	14153 Nov 22 12:03	28° <b>¥</b> 25′01		conjunction	14160 Apr 11 03:24	1° <b>8</b> 10'26	-0°47'11
	14154 Jan 22 16:37	$0^{\circ}$ Y		minimum elong	14160 Apr 11 03:24	1° <b>8</b> 10'25	0°47'38
evening set	14154 Feb 25 04:37	1° <b>Y</b> 51'45		max. Earth dist.	14160 Apr 10 22:31	1° <b>8</b> 09'40	19.51294 AU
				morning rise	14160 Apr 27 09:47	2° <b>8</b> 10'46	
conjunction	14154 Mar 13 17:01	2° <b>Y</b> 53'17		retrograde	14160 Jul 28 13:19	5° <b>8</b> 31'37	
minimum elong	14154 Mar 13 17:00	2° <b>Y</b> ′53'17		opposition	14160 Oct 10 20:52	3° <b>8</b> 29'20	
max. Earth dist.	14154 Mar 13 07:27		19.37923 AU	min. Earth dist.	14160 Oct 11 01:18	_	17.53300 AU
morning rise	14154 Mar 30 03:49	3° <b>Y</b> 54'36		direct	14160 Dec 25 22:12	1° <b>8</b> 24'36	
retrograde	14154 Jun 30 21:45	7° <b>Υ</b> 18'11	0004104	evening set	14161 Mar 30 19:21	4° <b>8</b> 49'40	
opposition	14154 Sep 13 01:07	5°Υ15'04			14161 4 16 02 12	50 <b>U</b> 5010 5	0050151
min. Earth dist.	14154 Sep 13 09:00	5°°γ′14'13 3° <b>Υ</b> 09'53	17.38324 AU	conjunction	14161 Apr 16 03:12	5° <b>8</b> 50'05	
direct	14154 Nov 27 13:55	<i>3</i> 1 09 33		minimum elong	14161 Apr 16 03:11	J <b>O</b> JUUS	0 31 23

max. Earth dist.	14161 Apr 15 22:20	5° <b>×</b> 49'20	19.55390 AU	opposition	14167 Nov 13 02:31	5° <b>∏</b> 34'47	-1°12'58
morning rise	14161 May 02 08:53	6° <b>8</b> 50'12	17.55570 AC	min. Earth dist.	14167 Nov 13 02:47		17.89219 AU
retrograde	14161 Aug 02 12:00	10° <b>8</b> 10'28		direct	14168 Jan 28 19:28	3° <b>П</b> 31'42	17.05215110
opposition	14161 Oct 15 19:15	8° <b>8</b> 08'27	-0°58'33	evening set	14168 May 02 03:19	6° <b>П</b> 51'39	
min. Earth dist.	14161 Oct 15 22:08	_	17.57612 AU	844	., ., .		
direct	14161 Dec 30 23:22	6° <b>8</b> 03'57		conjunction	14168 May 18 05:51	7° <b>Ⅱ</b> 50'12	-1°05'59
evening set	14162 Apr 04 19:18	9° <b>8</b> 28'29		minimum elong	14168 May 18 05:50	7° <b>∏</b> 50'12	1°06'56
Č	1			max. Earth dist.	14168 May 18 05:56	7° <b>Ⅱ</b> 50'13	19.92073 AU
conjunction	14162 Apr 21 02:28	10° <b>8</b> 28'41	-0°54'09	morning rise	14168 Jun 03 06:04	8°∏48'28	
minimum elong	14162 Apr 21 02:27	10° <b>8</b> 28'41	0°54'45	retrograde	14168 Sep 02 21:30	12° <b>Ⅱ</b> 03'45	
max. Earth dist.	14162 Apr 20 23:15	10° <b>8</b> 28'11	19.59895 AU	opposition	14168 Nov 16 21:58	10° <b>Ⅱ</b> 03'13	-1°13'49
morning rise	14162 May 07 07:11	11° <b>8</b> 28'34		min. Earth dist.	14168 Nov 16 21:51	10° <b>Ⅱ</b> 03'14	17.94999 AU
retrograde	14162 Aug 07 07:53	14° <b>8</b> 48'13		direct	14169 Feb 01 17:06	8° <b>Ⅱ</b> 00′22	
opposition	14162 Oct 20 17:36	12° <b>8</b> 46'27	-1°02'02	evening set	14169 May 06 21:38	11° <b>Ⅱ</b> 19′20	
min. Earth dist.	14162 Oct 20 20:48	12° <b>8</b> 46'06	17.62301 AU				
direct	14163 Jan 04 22:25	10° <b>8</b> 42'12		conjunction	14169 May 22 23:17	12° <b>Ⅱ</b> 17'36	-1°06'34
evening set	14163 Apr 09 18:33	14° <b>8</b> 06'08		minimum elong	14169 May 22 23:16	12° <b>Ⅱ</b> 17'36	1°07'32
	14163 Apr 24 09:34	15° <b>8</b>		max. Earth dist.	14169 May 22 23:01	12° <b>Ⅱ</b> 17'34	19.97907 AU
				morning rise	14169 Jun 07 22:59	13° <b>Ⅱ</b> 15'35	
conjunction	14163 Apr 26 00:47	15° <b>8</b> 06'05	-0°57'06	retrograde	14169 Sep 07 13:14	16° <b>Ⅱ</b> 30′05	
minimum elong	14163 Apr 26 00:47	15° <b>8</b> 06'05	0°57'47	opposition	14169 Nov 21 16:48	14° <b>∏</b> 29'42	
max. Earth dist.	14163 Apr 25 21:15	15° <b>8</b> 05'32	19.64750 AU	min. Earth dist.	14169 Nov 21 16:01	14° <b>∏</b> 29'47	18.00896 AU
morning rise	14163 May 12 04:53	16° <b>8</b> 05'42		direct	14170 Feb 06 13:14	12° <b>Ⅱ</b> 27′03	
retrograde	14163 Aug 12 04:56	19° <b>8</b> 24'43		evening set	14170 May 11 14:49	15° <b>Ⅱ</b> 45′03	
opposition	14163 Oct 25 15:27	17° <b>8</b> 23'11					
min. Earth dist.	14163 Oct 25 17:21	_	17.67303 AU	conjunction	14170 May 27 15:55	16° <b>Ⅱ</b> 43'02	
direct	14164 Jan 09 23:14	15° <b>8</b> 19'12		minimum elong	14170 May 27 15:55	16° <b>Ⅱ</b> 43'02	
evening set	14164 Apr 13 17:08	18° <b>8</b> 42'27		max. Earth dist.	14170 May 27 17:27		20.03863 AU
				morning rise	14170 Jun 12 14:54	17° <b>∏</b> 40'44	
conjunction	14164 Apr 29 22:44	19° <b>8</b> 42'08		retrograde	14170 Sep 12 04:34	20° <b>∏</b> 54′26	
minimum elong	14164 Apr 29 22:43	19° <b>8</b> 42'08	1°00'24	opposition	14170 Nov 26 10:59	18° <b>∏</b> 54'13	
max. Earth dist.	14164 Apr 29 20:47	_	19.69870 AU	min. Earth dist.	14170 Nov 26 09:16		18.06910 AU
morning rise	14164 May 16 01:51	20° <b>8</b> 41'30		direct	14171 Feb 11 09:08	16° <b>Ⅲ</b> 51'47	
retrograde	14164 Aug 15 23:28	23° <b>8</b> 59'49	1005144	evening set	14171 May 16 07:07	20° <b>Ⅱ</b> 08'47	
opposition	14164 Oct 29 12:54	21° <b>8</b> 58'31			14151 7 01 05 05	210H06120	100 (120
min. Earth dist.	14164 Oct 29 15:04		17.72535 AU	conjunction	14171 Jun 01 07:27	21° <b>I</b> 106'29	
direct	14165 Jan 13 22:45	19° <b>8</b> 54'47		minimum elong	14171 Jun 01 07:27	21° <b>I</b> 106'29	20.09946 AU
evening set	14165 Apr 18 15:07	23°01/18		max. Earth dist.	14171 Jun 01 09:00	21°Щ06'43 22°Щ03'56	20.09946 AU
conjunction	14165 May 04 19:44	24° <b>8</b> 16'42	1901/51	morning rise retrograde	14171 Jun 17 06:01 14171 Sep 16 19:02	22°Щ03'36 25°Щ16'52	
minimum elong	14165 May 04 19:44	24° <b>8</b> 16'42		opposition	14171 Sep 10 19.02 14171 Dec 01 04:36	23° <b>∏</b> 16'48	1013130
max. Earth dist.	14165 May 04 17:09		19.75205 AU	min. Earth dist.	14171 Dec 01 04:30		18.13071 AU
morning rise	14165 May 20 22:15	25° <b>8</b> 15'48	19.73203 AO	direct	14171 Bec 01 02:10 14172 Feb 16 03:20	23 <b>H</b> 1703	18.130/1 AU
retrograde	14165 Aug 20 18:21	28° <b>8</b> 33'24		evening set	14172 May 19 22:29	24° <b>П</b> 30'39	
opposition	14165 Nov 03 09:59	26° <b>8</b> 32'19	-1°09'56	evening sec	11172 111ay 17 22.27	21 123037	
min. Earth dist.	14165 Nov 03 11:05	_	17.77963 AU	conjunction	14172 Jun 04 22:19	25° <b>∏</b> 28'05	-1°05'53
direct	14166 Jan 18 22:32	24° <b>8</b> 28'48	17.77505110	minimum elong	14172 Jun 04 22:19	25° <b>I</b> I28'05	
evening set	14166 Apr 23 11:57	27° <b>8</b> 50'31		max. Earth dist.	14172 Jun 05 01:31		20.16170 AU
<i>8</i>	r			morning rise	14172 Jun 20 20:15	26° <b>Ⅱ</b> 25'15	
conjunction	14166 May 09 15:57	28° <b>8</b> 49'39	-1°03'38	retrograde	14172 Sep 20 09:27	29° <b>∏</b> 37'27	
minimum elong	14166 May 09 15:56	28° <b>8</b> 49'39		opposition	14172 Dec 04 21:27	27° <b>Ⅱ</b> 37'36	-1°12'44
max. Earth dist.	14166 May 09 15:02	28° <b>8</b> 49'30	19.80703 AU	min. Earth dist.	14172 Dec 04 17:52	27° <b>Ⅱ</b> 37'58	18.19344 AU
morning rise	14166 May 25 17:32	29° <b>8</b> 48'27		direct	14173 Feb 19 21:42	25° <b>Ⅱ</b> 35'44	
-	14166 May 28 23:00	$\Pi^{\circ}0$		evening set	14173 May 24 13:07	28° <b>Ⅱ</b> 50'48	
retrograde	14166 Aug 25 11:58	3° <b>Ⅱ</b> 05'19		•	•		
opposition	14166 Nov 08 06:38	1° <b>Ⅱ</b> 04'27	-1°11'40	conjunction	14173 Jun 09 12:15	29° <b>∏</b> 47'57	-1°04'53
min. Earth dist.	14166 Nov 08 07:39	1° <b>Ⅱ</b> 04'20	17.83527 AU	minimum elong	14173 Jun 09 12:15	29° <b>∏</b> 47'57	1°05'57
	14166 Dec 05 01:11	30°₹ <b>႘</b>		max. Earth dist.	14173 Jun 09 15:38	29° <b>∏</b> 48′27	20.22499 AU
direct	14167 Jan 23 21:32	29° <b>8</b> 01'10			14173 Jun 12 20:23	$0$ $\circ$ $\odot$	
	14167 Mar 13 03:11	$\Pi^{\circ}0$		morning rise	14173 Jun 25 09:49	0°5544'53	
evening set	14167 Apr 28 08:10	2° <b>Ⅱ</b> 22'00		retrograde	14173 Sep 24 22:47	3° <b>©</b> 56'22	
				opposition	14173 Dec 09 13:59	1° <b>©</b> 56'45	-1°11'25
conjunction	14167 May 14 11:15	3° <b>Ⅱ</b> 20′51	-1°05'01	min. Earth dist.	14173 Dec 09 10:01	1° <b>9</b> 57'09	18.25718 AU
minimum elong	14167 May 14 11:14	3° <b>Ⅱ</b> 20′51			14174 Feb 10 20:14	30°Ŗ <b>Ⅱ</b>	
max. Earth dist.	14167 May 14 09:43		19.86333 AU	direct	14174 Feb 24 13:43	29° <b>Ⅱ</b> 55'13	
morning rise	14167 May 30 12:17	4° <b>Ⅱ</b> 19′23			14174 Mar 10 06:15	0	
retrograde	14167 Aug 30 05:01	7° <b>Ⅱ</b> 35′29		evening set	14174 May 29 02:38	3° <b>5</b> 09'19	

conjunction	14174 Jun 14 01:21	4° <b>5</b> 06'13 -1°	03'32	min. Earth dist.	14181 Jan 08 10:47	1° <b>Ω</b> 31'18	18.67026 AU
minimum elong	14174 Jun 14 01:21	4°906'13 1°	04'35		14181 Feb 20 02:18	30° <b>ℝ</b> ∽	
max. Earth dist.	14174 Jun 14 06:12	4°906'57 20.	.28896 AU	direct	14181 Mar 26 20:32	29°531'15	
morning rise	14174 Jun 29 22:26	5°≌02'54			14181 Apr 29 18:00	$0^{\circ}\Omega$	
retrograde	14174 Sep 29 12:52	8°9513'44		evening set	14181 Jun 27 07:02	2° <b>Ω</b> 39'05	
opposition	14174 Dec 14 05:48	6°514'21 -1°	09'42	Ü			
min. Earth dist.	14174 Dec 14 00:32	6°9514'54 18.		conjunction	14181 Jul 13 03:08	3° <b>Ω</b> 34'26	-0°45'22
direct	14175 Mar 01 06:55	4°ഇ13'11		minimum elong	14181 Jul 13 03:08	3° <b>Ω</b> 34'26	
evening set	14175 Jun 02 15:38	7° <b>5</b> 26'21		max. Earth dist.	14181 Jul 13 10:15		20.69432 AU
8				morning rise	14181 Jul 28 22:40	4° <b>Ω</b> 29'42	
conjunction	14175 Jun 18 13:47	8°\$22'59 -1°	01'50	retrograde	14181 Oct 28 19:59	7° <b>Ω</b> 36'37	
minimum elong	14175 Jun 18 13:47	8°522'59 1°		opposition	14182 Jan 13 06:35	5° <b>Ω</b> 38'26	-0°48'20
max. Earth dist.	14175 Jun 18 18:49	8°\$23'45 20.		min. Earth dist.	14182 Jan 12 23:59		18.71779 AU
morning rise	14175 Jul 04 10:35	9° <b>©</b> 19'27	.55207 710	direct	14182 Mar 31 07:22	3° <b>Ω</b> 39'20	10.71777110
retrograde	14175 Oct 04 00:52	12° <b>©</b> 29'38		evening set	14182 Jul 01 15:10	6°Ω46'20	
opposition	14175 Dec 18 21:04	10° <b>©</b> 30'30 -1°	207'36	evening set	14102 Jul 01 13.10	0 66-020	
min. Earth dist.	14175 Dec 18 21:04 14175 Dec 18 15:58	10°931'02 18.		conjunction	14182 Jul 17 11:08	7° <b>Ω</b> 41'30	0041145
			.36447 AU	•	14182 Jul 17 11:09	7° <b>Ω</b> 41'30	
direct	14176 Mar 04 21:01	8°529'41		minimum elong			
evening set	14176 Jun 06 03:52	11° <b>©</b> 41'56		max. Earth dist.	14182 Jul 17 18:31		20.74017 AU
	141777 20 01 00	120520120 00	50140	morning rise	14182 Aug 02 06:41	8° <b>Ω</b> 36'37	
conjunction	14176 Jun 22 01:38	12°538'20 -0°		retrograde	14182 Nov 02 05:38	11° <b>Ω</b> 43'04	
minimum elong	14176 Jun 22 01:39		00'52	opposition	14183 Jan 17 18:15	9° <b>Ω</b> 44'55	
max. Earth dist.	14176 Jun 22 07:38	12° <b>©</b> 39'14 20.	.41560 AU	min. Earth dist.	14183 Jan 17 10:24		18.76184 AU
morning rise	14176 Jul 07 22:04	13° <b>©</b> 34'34		direct	14183 Apr 04 20:41	7° <b>Ω</b> 45'59	
retrograde	14176 Oct 07 14:43	16°944'08		evening set	14183 Jul 05 22:52	10° <b>Ω</b> 52'11	
opposition	14176 Dec 22 11:51	14°9345'15 -1°	05'10				
min. Earth dist.	14176 Dec 22 05:34	14° <b>©</b> 45'53 18.	.44658 AU	conjunction	14183 Jul 21 18:40	11° <b>Ω</b> 47'11	
direct	14177 Mar 09 13:18	12° <b>5</b> 44'47		minimum elong	14183 Jul 21 18:40	11° <b>Ω</b> 47'11	0°38'47
evening set	14177 Jun 10 15:23	15° <b>©</b> 56'07		max. Earth dist.	14183 Jul 22 02:22	11° <b>Ω</b> 48'19	20.78258 AU
				morning rise	14183 Aug 06 14:12	12° <b>Ω</b> 42′09	
conjunction	14177 Jun 26 12:39	16°952'17 -0°	57'29		14183 Sep 23 09:47	15° <b>Ω</b>	
minimum elong	14177 Jun 26 12:39	16°952'17 0°	58'31	retrograde	14183 Nov 06 13:26	15° <b>Ω</b> 48'11	
max. Earth dist.	14177 Jun 26 18:49	16°ණ53'12 20.	.47680 AU		14183 Dec 22 05:44	15°R <b>Ω</b>	
morning rise	14177 Jul 12 08:49	17° <b>5</b> 48'18		opposition	14184 Jan 22 05:27	13° <b>Ω</b> 50′03	-0°39'51
retrograde	14177 Oct 12 01:24	20°957'18		min. Earth dist.	14184 Jan 21 22:21	13° <b>Ω</b> 50'46	18.80281 AU
opposition	14177 Dec 27 02:19	18°958'37 -1°	02'23	direct	14184 Apr 08 06:33	11° <b>Ω</b> 51′16	
min. Earth dist.	14177 Dec 26 20:28	18°959'13 18.	.50685 AU	evening set	14184 Jul 09 05:59	14° <b>Ω</b> 56'44	
direct	14178 Mar 14 02:13	16° <b>©</b> 58'29		C	14184 Jul 10 05:01	15° <b>Ω</b>	
evening set	14178 Jun 15 02:14	20°908'56					
8				conjunction	14184 Jul 25 01:40	15° <b>Ω</b> 51'34	-0°33'56
conjunction	14178 Jun 30 23:12	21°504'52 -0°	254'51	minimum elong	14184 Jul 25 01:40	15° <b>Ω</b> 51'34	
minimum elong	14178 Jun 30 23:12	21°504'52 0°		max. Earth dist.	14184 Jul 25 09:42		20.82222 AU
max. Earth dist.	14178 Jul 01 05:59	21°505'52 20.		morning rise	14184 Aug 09 21:15	16° <b>Ω</b> 46'25	20.02222 110
morning rise	14178 Jul 16 19:07	22° <b>©</b> 00'41	.555757110	retrograde	14184 Nov 09 22:13	19° <b>£</b> 52'04	
retrograde	14178 Oct 16 14:15	25°509'07		opposition	14185 Jan 25 16:12	17° <b>Ω</b> 53'57	-0°35'20
opposition	14178 Dec 31 16:01	23°510'37 -0°	250117	min. Earth dist.	14185 Jan 25 07:36		18.84106 AU
min. Earth dist.	14178 Dec 31 10:01	23° <b>©</b> 11'20 18.		direct	14185 Apr 12 17:53	17° <b>Ω</b> 55'21	10.04100 AC
direct	14179 Mar 18 17:47	21° <b>©</b> 10'48	.50450 AC	evening set	14185 Jul 13 12:31	19° <b>Ω</b> 00'06	
	14179 Jun 19 12:29	24° <b>©</b> 20'21		evening set	14165 Jul 15 12.51	19 060000	
evening set	141/2 Juli 19 12.29	24 کا 20 کا		conjunction	1/185 Int 20 00:00	19° <b>Ω</b> 54'49	0°20'47
conjunction	14179 Jul 05 09:05	25°516'06 -0°	251156	conjunction minimum elong	14185 Jul 29 08:06 14185 Jul 29 08:06	19° <b>€</b> 54'49	
				_			
minimum elong	14179 Jul 05 09:05		°52'56	max. Earth dist.	14185 Jul 29 16:43		20.85912 AU
max. Earth dist.	14179 Jul 05 15:52	25°\$17'06 20.	.59212 AU	morning rise	14185 Aug 14 03:44	20° <b>Ω</b> 49'32	
morning rise	14179 Jul 21 04:52	26°5511'43		retrograde	14185 Nov 14 05:29	23° <b>Ω</b> 54'53	0020120
retrograde	14179 Oct 20 23:59	29°5519'38		opposition	14186 Jan 30 02:42	21° <b>Ω</b> 56'48	
opposition	14180 Jan 05 05:26	27°521'16 -0°		min. Earth dist.	14186 Jan 29 18:42		18.87672 AU
min. Earth dist.	14180 Jan 04 23:12	27°521'54 18.	.61920 AU	direct	14186 Apr 17 02:23	19° <b>Ω</b> 58′22	
direct	14180 Mar 22 05:33	25° <b>©</b> 21'43		evening set	14186 Jul 17 18:44	23° <b>Ω</b> 02′29	
evening set	14180 Jun 22 22:03	28° <b>©</b> 30'25				_	
				conjunction	14186 Aug 02 14:18	23° <b>Ω</b> 57′05	
conjunction	14180 Jul 08 18:25	29° <b>©</b> 25'57 -0°	48'46	minimum elong	14186 Aug 02 14:18	23° <b>Ω</b> 57′05	
minimum elong	14180 Jul 08 18:25	29° <b>5</b> 25'57 0°	49'45	max. Earth dist.	14186 Aug 02 23:06		20.89351 AU
max. Earth dist.	14180 Jul 09 01:27	29° <b>5</b> 26'59 20.	.64506 AU	morning rise	14186 Aug 18 10:05	24° <b>Ω</b> 51'43	
	14180 Jul 18 10:19	$0^{\circ}\Omega$		retrograde	14186 Nov 18 14:07	27° <b>Ω</b> 56'48	
morning rise	14180 Jul 24 14:01	0° <b>Ω</b> 21′23		opposition	14187 Feb 03 12:28	25° <b>Ω</b> 58'45	-0°25'49
retrograde	14180 Oct 24 11:05	3° <b>Ω</b> 28'47		min. Earth dist.	14187 Feb 03 03:07	25° <b>Ω</b> 59'41	18.90965 AU
opposition	14181 Jan 08 18:10	1° <b>Ω</b> 30′33 -0°	252'15	direct	14187 Apr 21 12:11	24° <b>Ω</b> 00′31	

morning rise	14198 Oct 05 08:21	12° <b>ჲ</b> 51'39		direct	14205 Jul 03 18:33	6° <b>™</b> 16′23	
retrograde	14199 Jan 06 14:03	15° <b>≏</b> 57'36		evening set	14205 Oct 02 12:03	9° <b>™</b> 19'38	
opposition	14199 Mar 24 22:20	13° <b>≏</b> 58'53	0°34'14				
min. Earth dist.	14199 Mar 24 15:11		18.96917 AU	conjunction	14205 Oct 18 12:51	10°M15'04	0°53'58
direct	14199 Jun 09 01:23	12° <b>Ω</b> 01'26		minimum elong	14205 Oct 18 12:51	10°M₁5′04	0°54'33
evening set	14199 Sep 07 16:52	15° <b>≏</b> 02'35		max. Earth dist.	14205 Oct 18 17:34		20.76055 AU
. ,.	14100 G 22 14 55	150057100	0022100	morning rise	14205 Nov 03 15:48	11°M10'50	
conjunction	14199 Sep 23 14:55 14199 Sep 23 14:55	15° <b>£</b> 57'08 15° <b>£</b> 57'08	0°33'00 0°33'11	retrograde	14206 Feb 05 12:58	14°M20'15 12°M20'32	1°01'19
minimum elong max. Earth dist.	14199 Sep 23 14:55 14199 Sep 23 22:01	15° <b>£</b> 57'08	20.95781 AU	opposition min. Earth dist.	14206 Apr 23 14:03 14206 Apr 23 10:30	12°M20'54	18.73836 AU
morning rise	14199 Sep 23 22:01 14199 Oct 09 14:47	15 <b>≥</b> 5809	20.93781 AU	direct	14206 Apr 23 10.30	12 IIC20 34 10°M22'28	16.73630 AU
retrograde	14200 Jan 10 21:45	10 <b>—</b> 51 36 19° <b>≏</b> 58'16		evening set	14206 Oct 06 21:21	13°M26'15	
opposition	14200 Mar 29 06:49	17° <b>⊆</b> 59'25	0°38'45	evening set	14200 001 00 21.21	13 1102013	
min. Earth dist.	14200 Mar 29 00:36	18° <b>⊆</b> 00'03	18.94597 AU	conjunction	14206 Oct 22 22:37	14°M21'53	0°56'39
direct	14200 Jun 13 06:28	16° <b>Ω</b> 01'54	10.9 109 / 110	minimum elong	14206 Oct 22 22:37	14°M21'52	0°57'18
evening set	14200 Sep 11 22:55	19° <b>ഫ</b> 03'15		max. Earth dist.	14206 Oct 23 01:42		20.71473 AU
<i>8</i>	r				14206 Nov 02 21:28	15° <b>M</b> ₊	
conjunction	14200 Sep 27 21:20	19° <b>≏</b> 57'54	0°36'59	morning rise	14206 Nov 08 02:14	15°ML17'51	
minimum elong	14200 Sep 27 21:19	19° <b>≙</b> 57'54	0°37'15	retrograde	14207 Feb 10 01:37	18°M27'53	
max. Earth dist.	14200 Sep 28 03:49	19° <b>≙</b> 58'50	20.93316 AU	opposition	14207 Apr 28 00:24	16°M27'58	1°04'10
morning rise	14200 Oct 13 21:45	20° <b>ჲ</b> 52'51		min. Earth dist.	14207 Apr 27 21:10	16°M28'18	18.69046 AU
retrograde	14201 Jan 15 08:07	23° <b>ჲ</b> 59'35			14207 Jun 07 09:05	15°RM	
opposition	14201 Apr 02 15:22	22° <b>ჲ</b> 00'35	0°43'04	direct	14207 Jul 12 11:43	14° <b>M</b> 29'41	
min. Earth dist.	14201 Apr 02 08:36	22° <b>ჲ</b> 01'16	18.91980 AU		14207 Aug 15 21:18	15°M	
direct	14201 Jun 17 14:11	20° <b>ჲ</b> 03'00		evening set	14207 Oct 11 07:05	17°M34'03	
evening set	14201 Sep 16 05:14	23° <b>≏</b> 04'36					
				conjunction	14207 Oct 27 09:00	18°M29'53	0°59'03
conjunction	14201 Oct 02 04:08	23° <b>≏</b> 59'22	0°40'48	minimum elong	14207 Oct 27 08:59	18°M29'53	0°59'47
minimum elong	14201 Oct 02 04:08	23° <b>≏</b> 59'22	0°41'07	max. Earth dist.	14207 Oct 27 11:55		20.66470 AU
max. Earth dist.	14201 Oct 02 10:54	24° <b>≙</b> 00′21	20.90533 AU	morning rise	14207 Nov 12 13:03	19°M26'03	
morning rise	14201 Oct 18 04:59	24° <b>Ω</b> 54'28		retrograde	14208 Feb 14 13:08	22°M36'43	
retrograde	14202 Jan 19 17:16	28° <b>₽</b> 01'39	00.4511.0	opposition	14208 May 01 11:12	20°M36'34	1°06'42
opposition	14202 Apr 07 00:13	26° <b>Ω</b> 02'31	0°47'12	min. Earth dist.	14208 May 01 09:05	20°M36'47	18.63852 AU
min. Earth dist.	14202 Apr 06 18:27 14202 Jun 21 20:02	26° <b>Ω</b> 03'06	18.89040 AU	direct	14208 Jul 15 21:00	18°M38'03	
direct evening set	14202 Jun 21 20:02 14202 Sep 20 12:09	24° <b>£</b> 04'52 27° <b>£</b> 06'47		evening set	14208 Oct 14 17:33	21°M43'02	
evening set	14202 Sep 20 12.09	27 ==0047		conjunction	14208 Oct 30 19:58	22°M39'04	1°01'10
conjunction	14202 Oct 06 11:27	28° <b>Ω</b> 01'42	0°44'25	minimum elong	14208 Oct 30 19:57	22°M39'04	1°01'56
minimum elong	14202 Oct 06 11:26		0°44'50	max. Earth dist.	14208 Oct 30 17:37		20.61116 AU
max. Earth dist.	14202 Oct 06 17:19		20.87442 AU	morning rise	14208 Nov 16 00:45	23°M35'28	20.01110110
morning rise	14202 Oct 22 12:54	28° <b>♀</b> 56'57		retrograde	14209 Feb 18 02:50	26°M46'47	
. 8	14202 Nov 11 01:31	0°M₊		opposition	14209 May 05 22:13	24°M46'22	1°08'53
retrograde	14203 Jan 24 04:08	2°M04'38		min. Earth dist.	14209 May 05 20:29		18.58345 AU
opposition	14203 Apr 11 09:04	0°M05'22	0°51'06	direct	14209 Jul 20 06:51	22°M47'33	
min. Earth dist.	14203 Apr 11 03:04	0°M05'58	18.85785 AU	evening set	14209 Oct 19 04:30	25°M53'12	
	14203 Apr 13 14:00	30° <b>₹</b> Ω					
direct	14203 Jun 26 03:36	28° <b>≏</b> 07'39		conjunction	14209 Nov 04 07:39	26°M49'28	1°02'58
	14203 Sep 02 23:11	$0^{\circ}$ M		minimum elong	14209 Nov 04 07:39	26°M49'28	1°03'48
evening set	14203 Sep 24 19:33	1° <b>™</b> 09'57		max. Earth dist.	14209 Nov 04 09:09		20.55465 AU
				morning rise	14209 Nov 20 12:56	27°M46'06	
conjunction	14203 Oct 10 19:21	2°M05'02	0°47'50		14210 Jan 04 19:45	0° <b>∡</b> ¹	
minimum elong	14203 Oct 10 19:20		0°48'18	retrograde	14210 Feb 22 15:04	0° <b>∡</b> 758'04	
max. Earth dist.	14203 Oct 11 01:21		20.84009 AU	***	14210 Apr 13 19:49	30°RM	1010144
morning rise	14203 Oct 26 21:12	3°M00'26		opposition	14210 May 10 09:39	28°M57'23	1°10'44
retrograde opposition	14204 Jan 28 14:17 14204 Apr 14 18:28	6°M08'40 4°M09'16	0°54'47	min. Earth dist. direct	14210 May 10 08:46 14210 Jul 24 16:43	26°M58'18	18.52573 AU
min. Earth dist.	14204 Apr 14 13:34		18.82180 AU	direct	14210 Jul 24 10.43	20 IIG36 18 0° <b>⊼</b> ¹	
direct	14204 Apr 14 13:34 14204 Jun 29 10:45	2°M11'28	10.02100 AU	evening set	14210 Oct 22 07.43	0° <b>х</b> ¹ 04'39	
evening set	14204 Sep 28 03:24	5°M14'13		croning set	1.210 000 25 10.15	v A UT JJ	
2. cg 500	1.20. Бер 20 05.24	S HWITIS		conjunction	14210 Nov 08 19:53	1° <b>×</b> 701'10	1°04'27
conjunction	14204 Oct 14 03:37	6°M₀09'27	0°51'01	minimum elong	14210 Nov 08 19:53	1° <b>×</b> <sup>7</sup> 01'10	1°05'19
minimum elong	14204 Oct 14 03:37	6°M09'27	0°51'33	max. Earth dist.	14210 Nov 08 19:54		20.49601 AU
max. Earth dist.	14204 Oct 14 08:30		20.80232 AU	morning rise	14210 Nov 25 01:53	1° <b>∡</b> 758'02	
morning rise	14204 Oct 30 06:08	7°M05'02		retrograde	14211 Feb 27 05:49	5° <b>∡</b> 10'41	
retrograde				•			
	14205 Feb 01 02:06	10° <b>M</b> ₊13'52		opposition	14211 May 14 21:22	3° <b>∡</b> ¹09'44	1°12'12
opposition	14205 Feb 01 02:06 14205 Apr 19 04:07	10° <b>M</b> .13'52 8° <b>M</b> .14'19	0°58'11	opposition min. Earth dist.	14211 May 14 21:22 14211 May 14 20:52		1°12'12 18.46633 AU
opposition min. Earth dist.		8° <b>M</b> 14'19	0°58'11 18.78215 AU		•		

direct	14224 Sep 23 04:27	28° <b>පි</b> 23'30		evening set	14231 Jan 23 09:51	29° <b>≈</b> 40'04	
evening set	14224 Nov 23 20:58 14224 Dec 25 01:57	0° <b>≈</b> 1° <b>≈</b> 42'52			14231 Jan 28 20:15	0° <b>∀</b>	
evening sec	11221 000 20 01.57	1 74.1232		conjunction	14231 Feb 08 23:49	0° <b>)</b> 41′30	0°18'29
conjunction	14225 Jan 10 14:14	2° <b>≈</b> 43'13	0°46'22	minimum elong	14231 Feb 08 23:49	0° <b>)</b> 41'30	0°19'05
minimum elong	14225 Jan 10 14:15	2° <b>≈</b> 43'13	0°47'19	max. Earth dist.	14231 Feb 08 15:41	0° <b>)</b> 40′14	19.43670 AU
max. Earth dist.	14225 Jan 10 05:59	2° <b>≈</b> 41'57	19.66529 AU	morning rise	14231 Feb 25 13:13	1° <b>)</b> 42′53	
morning rise	14225 Jan 27 03:18	3° <b>≈</b> 43'42		retrograde	14231 May 30 02:13	5° <b>米</b> 07'00	
retrograde	14225 May 01 04:09	7° <b>≈</b> 05'47		opposition	14231 Aug 12 12:37	3° <b>∺</b> 03'31	
opposition	14225 Jul 15 04:43	5° <b>≈</b> 02'28	0°49'31	min. Earth dist.	14231 Aug 12 20:07		17.42554 AU
min. Earth dist.	14225 Jul 15 12:03	5°≈01'40	17.64015 AU	direct	14231 Oct 26 12:56	0° <b>¥</b> 58'55	
direct	14225 Sep 27 23:54	2°≈59'01		evening set	14232 Jan 28 13:01	4° <b>)</b> 23′44	
evening set	14225 Dec 30 01:48	6° <b>≈</b> 19'16		conjunction	14232 Feb 14 02:53	5° <b>¥</b> 25'16	0°13'09
conjunction	14226 Jan 15 14:34	7°≈19'51	0°42'22	minimum elong	14232 Feb 14 02:53	5°\(\frac{7}{25}\)16	
minimum elong	14226 Jan 15 14:35	7°≈19'51	0°43'15	behind sun begin	14232 Feb 13 23:23	5° <b>)</b> 24'44	0 13 42
max. Earth dist.	14226 Jan 15 06:22		19.61575 AU	behind sun end	14232 Feb 14 06:24	5° <b>¥</b> 25'48	
morning rise	14226 Feb 01 03:51	8° <b>≈</b> 20'31		max. Earth dist.	14232 Feb 13 17:43		19.41545 AU
retrograde	14226 May 06 03:23	11° <b>≈</b> 43'03		morning rise	14232 Mar 01 16:18	6° <b>)</b> €26'44	
opposition	14226 Jul 20 00:47	9° <b>≈</b> 39'36	0°44'54	retrograde	14232 Jun 03 03:52	9° <b>¥</b> 51′02	
min. Earth dist.	14226 Jul 20 07:17	9° <b>≈</b> 38'53	17.59251 AU	opposition	14232 Aug 16 11:27	7° <b>)</b> 47′36	0°11'41
direct	14226 Oct 02 21:46	7° <b>≈</b> 35'51		min. Earth dist.	14232 Aug 16 18:38	7° <b>)</b> 46′49	17.40642 AU
evening set	14227 Jan 04 02:12	10° <b>≈</b> 56'57		direct	14232 Oct 30 13:08	5° <b>)</b> 42′54	
				evening set	14233 Feb 01 16:36	9° <b>⊁</b> 08'17	
conjunction	14227 Jan 20 15:16	11° <b>≈</b> 57'44	0°38'03				
minimum elong	14227 Jan 20 15:17	11° <b>≈</b> 57'44	0°38'55	conjunction	14233 Feb 18 06:34	10° <b>米</b> 09'54	0°07'44
max. Earth dist.	14227 Jan 20 06:50		19.57014 AU	minimum elong	14233 Feb 18 06:34	10° <b>米</b> 09'54	0°08'11
morning rise	14227 Feb 06 04:41	12°≈58'35		behind sun begin	14233 Feb 18 00:36	10° <b>)</b> €09'00	
. 1	14227 Mar 15 16:40	15° <b>≈</b>		behind sun end	14233 Feb 18 12:31	10° <b>)</b> 10′49	10 20027 411
retrograde	14227 May 11 01:20	16°≈21'31		max. Earth dist.	14233 Feb 17 22:10	10° <del>X</del> 08'37 11° <del>X</del> 11'25	19.39827 AU
opposition	14227 Jul 08 10:19 14227 Jul 24 21:32	15°R≈ 14°≈17'58	0°39'58	morning rise retrograde	14233 Mar 06 19:32 14233 Jun 08 05:07	14° <b>H</b> 35'47	
min. Earth dist.	14227 Jul 25 05:02		17.54919 AU	opposition	14233 Juli 08 03:07	12°\(\frac{1}{3}347\)	0°05'35
direct	14227 Oct 07 18:08	12°≈13'58	17.54717710	min. Earth dist.	14233 Aug 21 18:24		17.39121 AU
uncet	14227 Dec 30 00:19	15° <b>≈</b>		direct	14233 Nov 04 13:08	10° <b>¥</b> 27'38	17.57121710
evening set	14228 Jan 09 03:15	15° <b>≈</b> 35'54		evening set	14234 Feb 06 20:33	13° <b>¥</b> 53'30	
conjunction	14228 Jan 25 16:39	16°≈36'52	0°33'29	conjunction	14234 Feb 23 10:12	14° <b>¥</b> 55'09	0°02'15
minimum elong	14228 Jan 25 16:39	16°≈36'52	0°34'17	minimum elong	14234 Feb 23 10:12	14° <b>X</b> 55'09	0°02'38
max. Earth dist.	14228 Jan 25 08:03		19.52930 AU	behind sun begin	14234 Feb 23 03:28	14° <b>)</b> 54′07	0 0230
morning rise	14228 Feb 11 06:14	17° <b>≈</b> 37'53	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	behind sun end	14234 Feb 23 16:56	14° <b>¥</b> 56'10	
retrograde	14228 May 15 01:43	21° <b>≈</b> 01'11		max. Earth dist.	14234 Feb 23 00:27	14° <b>¥</b> 53'39	19.38510 AU
opposition	14228 Jul 28 18:30	18° <b>≈</b> 57'34	0°34'44	morning rise	14234 Mar 11 23:01	15° <b>¥</b> 56'42	
min. Earth dist.	14228 Jul 29 01:04	18° <b>≈</b> 56'51	17.51079 AU	retrograde	14234 Jun 13 06:04	19° <b>∺</b> 21'04	
direct	14228 Oct 11 17:12	16° <b>≈</b> 53′20		desc. node	14004 7 1 04 00 05		
evening set	14229 Jan 13 04:55	200 - 1004			14234 Jul 24 08:25	18° <b>∺</b> 37'18	
	1422) Juli 13 04.33	20° <b>≈</b> 16′04		opposition	14234 Jul 24 08:25 14234 Aug 26 10:07	17° <b>¥</b> 17'46	
				min. Earth dist.	14234 Aug 26 10:07 14234 Aug 26 17:49	17° <b>光</b> 17'46 17° <b>光</b> 16'55	-0°00'35 17.38007 AU
conjunction	14229 Jan 29 18:36	21°≈17'13	0°28'41	min. Earth dist. direct	14234 Aug 26 10:07 14234 Aug 26 17:49 14234 Nov 09 13:28	17° <b>光</b> 17'46 17° <b>光</b> 16'55 15° <b>光</b> 12'52	
minimum elong	14229 Jan 29 18:36 14229 Jan 29 18:37	21°≈17'13 21°≈17'13	0°29'25	min. Earth dist.	14234 Aug 26 10:07 14234 Aug 26 17:49	17° <b>光</b> 17'46 17° <b>光</b> 16'55	
minimum elong max. Earth dist.	14229 Jan 29 18:36 14229 Jan 29 18:37 14229 Jan 29 10:17	21°≈17'13 21°≈17'13 21°≈15'56		min. Earth dist. direct evening set	14234 Aug 26 10:07 14234 Aug 26 17:49 14234 Nov 09 13:28 14235 Feb 12 00:17	17° <b>光</b> 17'46 17° <b>光</b> 16'55 15° <b>光</b> 12'52 18° <b>光</b> 39'06	17.38007 AU
minimum elong max. Earth dist. morning rise	14229 Jan 29 18:36 14229 Jan 29 18:37 14229 Jan 29 10:17 14229 Feb 15 08:11	21°≈17'13 21°≈17'13 21°≈15'56 22°≈18'22	0°29'25	min. Earth dist. direct evening set conjunction	14234 Aug 26 10:07 14234 Aug 26 17:49 14234 Nov 09 13:28 14235 Feb 12 00:17 14235 Feb 28 13:53	17°¥17'46 17°¥16'55 15°¥12'52 18°¥39'06 19°¥40'47	17.38007 AU -0°03'24
minimum elong max. Earth dist. morning rise retrograde	14229 Jan 29 18:36 14229 Jan 29 18:37 14229 Jan 29 10:17 14229 Feb 15 08:11 14229 May 20 00:41	21°≈17'13 21°≈17'13 21°≈15'56 22°≈18'22 25°≈41'59	0°29'25 19.49336 AU	min. Earth dist. direct evening set  conjunction minimum elong	14234 Aug 26 10:07 14234 Aug 26 17:49 14234 Nov 09 13:28 14235 Feb 12 00:17 14235 Feb 28 13:53 14235 Feb 28 13:53	17° ¥ 17'46 17° ¥ 16'55 15° ¥ 12'52 18° ¥ 39'06 19° ¥ 40'47 19° ¥ 40'47	17.38007 AU -0°03'24
minimum elong max. Earth dist. morning rise retrograde opposition	14229 Jan 29 18:36 14229 Jan 29 18:37 14229 Jan 29 10:17 14229 Feb 15 08:11 14229 May 20 00:41 14229 Aug 02 16:10	21°≈17'13 21°≈17'13 21°≈15'56 22°≈18'22 25°≈41'59 23°≈38'23	0°29'25 19.49336 AU 0°29'15	min. Earth dist. direct evening set  conjunction minimum elong behind sun begin	14234 Aug 26 10:07 14234 Aug 26 17:49 14234 Nov 09 13:28 14235 Feb 12 00:17 14235 Feb 28 13:53 14235 Feb 28 13:53 14235 Feb 28 07:10	17°\tag{17'46} 17°\tag{16'55} 15°\tag{12'52} 18°\tag{39'06}  19°\tag{40'47} 19°\tag{40'47} 19°\tag{39'46}	17.38007 AU -0°03'24
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	14229 Jan 29 18:36 14229 Jan 29 18:37 14229 Jan 29 10:17 14229 Feb 15 08:11 14229 May 20 00:41 14229 Aug 02 16:10 14229 Aug 02 23:36	21°≈17'13 21°≈17'13 21°≈15'56 22°≈18'22 25°≈41'59 23°≈38'23 23°≈37'34	0°29'25 19.49336 AU	min. Earth dist. direct evening set  conjunction minimum elong behind sun begin behind sun end	14234 Aug 26 10:07 14234 Aug 26 17:49 14234 Nov 09 13:28 14235 Feb 12 00:17 14235 Feb 28 13:53 14235 Feb 28 07:10 14235 Feb 28 20:36	17° \times 17'46 17° \times 16'55 15° \times 12'52 18° \times 39'06  19° \times 40'47 19° \times 40'47 19° \times 39'46 19° \times 41'49	17.38007 AU -0°03'24 0°03'06
minimum elong max. Earth dist. morning rise retrograde opposition	14229 Jan 29 18:36 14229 Jan 29 18:37 14229 Jan 29 10:17 14229 Feb 15 08:11 14229 May 20 00:41 14229 Aug 02 16:10	21°≈17'13 21°≈17'13 21°≈15'56 22°≈18'22 25°≈41'59 23°≈38'23	0°29'25 19.49336 AU 0°29'15	min. Earth dist. direct evening set  conjunction minimum elong behind sun begin	14234 Aug 26 10:07 14234 Aug 26 17:49 14234 Nov 09 13:28 14235 Feb 12 00:17 14235 Feb 28 13:53 14235 Feb 28 13:53 14235 Feb 28 07:10	17° \times 17'46 17° \times 16'55 15° \times 12'52 18° \times 39'06  19° \times 40'47 19° \times 40'47 19° \times 39'46 19° \times 41'49	17.38007 AU -0°03'24
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	14229 Jan 29 18:36 14229 Jan 29 18:37 14229 Jan 29 10:17 14229 Feb 15 08:11 14229 May 20 00:41 14229 Aug 02 16:10 14229 Aug 02 23:36 14229 Oct 16 14:30	21°≈17'13 21°≈17'13 21°≈15'56 22°≈18'22 25°≈41'59 23°≈38'23 23°≈37'34 21°≈34'00	0°29'25 19.49336 AU 0°29'15	min. Earth dist. direct evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist.	14234 Aug 26 10:07 14234 Aug 26 17:49 14234 Nov 09 13:28 14235 Feb 12 00:17 14235 Feb 28 13:53 14235 Feb 28 13:53 14235 Feb 28 07:10 14235 Feb 28 20:36 14235 Feb 28 05:13	17°\(\)17'46 17°\(\)16'55 15°\(\)12'52 18°\(\)39'06 19°\(\)40'47 19°\(\)40'47 19°\(\)43'46 19°\(\)41'49 19°\(\)39'27	17.38007 AU -0°03'24 0°03'06
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	14229 Jan 29 18:36 14229 Jan 29 18:37 14229 Jan 29 10:17 14229 Feb 15 08:11 14229 May 20 00:41 14229 Aug 02 16:10 14229 Aug 02 23:36 14229 Oct 16 14:30	21°≈17'13 21°≈17'13 21°≈15'56 22°≈18'22 25°≈41'59 23°≈38'23 23°≈37'34 21°≈34'00	0°29'25 19.49336 AU 0°29'15	min. Earth dist. direct evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise	14234 Aug 26 10:07 14234 Aug 26 17:49 14234 Nov 09 13:28 14235 Feb 12 00:17 14235 Feb 28 13:53 14235 Feb 28 07:10 14235 Feb 28 07:10 14235 Feb 28 05:13 14235 Feb 28 05:13	17°\tau17'46 17°\tau16'55 15°\tau12'52 18°\tau39'06 19°\tau40'47 19°\tau39'46 19°\tau41'49 19°\tau39'27 20°\tau42'19	17.38007 AU -0°03'24 0°03'06 19.37591 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	14229 Jan 29 18:36 14229 Jan 29 18:37 14229 Jan 29 10:17 14229 Feb 15 08:11 14229 May 20 00:41 14229 Aug 02 16:10 14229 Aug 02 23:36 14229 Oct 16 14:30 14230 Jan 18 07:09	21°≈17'13 21°≈15'56 22°≈18'22 25°≈41'59 23°≈38'23 23°≈37'34 21°≈34'00 24°≈57'29	0°29'25 19.49336 AU 0°29'15 17.47739 AU	min. Earth dist. direct evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde	14234 Aug 26 10:07 14234 Aug 26 17:49 14234 Nov 09 13:28 14235 Feb 12 00:17 14235 Feb 28 13:53 14235 Feb 28 13:53 14235 Feb 28 07:10 14235 Feb 28 05:13 14235 Feb 28 05:13 14235 Mar 17 02:09 14235 Jun 18 07:26	17°\tau17'46 17°\tau16'55 15°\tau12'52 18°\tau39'06  19°\tau40'47 19°\tau40'47 19°\tau39'46 19°\tau41'49 19°\tau39'27 20°\tau42'19 24°\tau6'38 22°\tau3'22	17.38007 AU -0°03'24 0°03'06 19.37591 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction	14229 Jan 29 18:36 14229 Jan 29 18:37 14229 Jan 29 10:17 14229 Feb 15 08:11 14229 May 20 00:41 14229 Aug 02 16:10 14229 Aug 02 23:36 14229 Oct 16 14:30 14230 Jan 18 07:09	21°≈17'13 21°≈15'56 22°≈18'22 25°≈41'59 23°≈38'23 23°≈37'34 21°≈34'00 24°≈57'29 25°≈58'46 25°≈58'46	0°29'25 19.49336 AU 0°29'15 17.47739 AU	min. Earth dist. direct evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition	14234 Aug 26 10:07 14234 Aug 26 17:49 14234 Nov 09 13:28 14235 Feb 12 00:17 14235 Feb 28 13:53 14235 Feb 28 13:53 14235 Feb 28 07:10 14235 Feb 28 05:13 14235 Feb 28 05:13 14235 Mar 17 02:09 14235 Aug 31 09:51	17°\tau17'46 17°\tau16'55 15°\tau12'52 18°\tau39'06  19°\tau40'47 19°\tau40'47 19°\tau39'46 19°\tau41'49 19°\tau39'27 20°\tau42'19 24°\tau6'38 22°\tau3'22	17.38007 AU -0°03'24 0°03'06  19.37591 AU -0°06'44
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	14229 Jan 29 18:36 14229 Jan 29 18:37 14229 Jan 29 10:17 14229 Feb 15 08:11 14229 May 20 00:41 14229 Aug 02 16:10 14229 Aug 02 23:36 14229 Oct 16 14:30 14230 Jan 18 07:09 14230 Feb 03 20:56 14230 Feb 03 20:57	21°≈17'13 21°≈15'56 22°≈18'22 25°≈41'59 23°≈38'23 23°≈37'34 21°≈34'00 24°≈57'29 25°≈58'46 25°≈58'46 25°≈58'46 25°≈57'24 27°≈00'03	0°29'25 19.49336 AU 0°29'15 17.47739 AU 0°23'40 0°24'21	min. Earth dist. direct evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist.	14234 Aug 26 10:07 14234 Aug 26 17:49 14234 Nov 09 13:28 14235 Feb 12 00:17 14235 Feb 28 13:53 14235 Feb 28 13:53 14235 Feb 28 07:10 14235 Feb 28 05:13 14235 Feb 28 05:13 14235 Mar 17 02:09 14235 Aug 31 09:51 14235 Aug 31 17:35	17°\tau17'46 17°\tau16'55 15°\tau12'52 18°\tau39'06  19°\tau40'47 19°\tau39'46 19°\tau40'47 19°\tau39'46 19°\tau42'19 24°\tau6'38 22°\tau3'22 22°\tau2'31	17.38007 AU -0°03'24 0°03'06  19.37591 AU -0°06'44
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	14229 Jan 29 18:36 14229 Jan 29 18:37 14229 Jan 29 10:17 14229 Feb 15 08:11 14229 May 20 00:41 14229 Aug 02 16:10 14229 Aug 02 23:36 14229 Oct 16 14:30 14230 Jan 18 07:09 14230 Feb 03 20:56 14230 Feb 03 20:57 14230 Feb 03 12:04 14230 Feb 20 10:35 14230 Apr 25 08:28	21°≈17'13 21°≈17'13 21°≈15'56 22°≈18'22 25°≈41'59 23°≈37'34 21°≈34'00 24°≈57'29 25°≈58'46 25°≈58'46 25°≈57'24 27°≈00'03 0° ★	0°29'25 19.49336 AU 0°29'15 17.47739 AU 0°23'40 0°24'21	min. Earth dist. direct evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	14234 Aug 26 10:07 14234 Aug 26 17:49 14234 Nov 09 13:28 14235 Feb 12 00:17  14235 Feb 28 13:53 14235 Feb 28 07:10 14235 Feb 28 20:36 14235 Feb 28 05:13 14235 Feb 28 05:13 14235 Mar 17 02:09 14235 Jun 18 07:26 14235 Aug 31 09:51 14235 Aug 31 17:35 14235 Nov 14 15:19 14236 Feb 17 04:21	17°\tau17'46 17°\tau16'55 15°\tau12'52 18°\tau39'06  19°\tau40'47 19°\tau40'47 19°\tau39'46 19°\tau41'49 19°\tau39'27 20°\tau42'19 24°\tau6'38 22°\tau0'31 19°\tau58'24 23°\tau24'54	17.38007 AU -0°03'24 0°03'06  19.37591 AU -0°06'44 17.37288 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	14229 Jan 29 18:36 14229 Jan 29 18:37 14229 Jan 29 10:17 14229 Feb 15 08:11 14229 May 20 00:41 14229 Aug 02 16:10 14229 Aug 02 23:36 14229 Oct 16 14:30 14230 Jan 18 07:09 14230 Feb 03 20:56 14230 Feb 03 12:04 14230 Feb 20 10:35 14230 Apr 25 08:28 14230 May 25 01:54	21°≈17'13 21°≈17'13 21°≈15'56 22°≈18'22 25°≈41'59 23°≈37'34 21°≈34'00 24°≈57'29 25°≈58'46 25°≈58'46 25°≈57'24 27°≈00'03 0° H 0° H23'57	0°29'25 19.49336 AU 0°29'15 17.47739 AU 0°23'40 0°24'21	min. Earth dist. direct evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	14234 Aug 26 10:07 14234 Aug 26 17:49 14234 Nov 09 13:28 14235 Feb 12 00:17  14235 Feb 28 13:53 14235 Feb 28 07:10 14235 Feb 28 20:36 14235 Feb 28 05:13 14235 Feb 28 05:13 14235 Mar 17 02:09 14235 Aug 31 09:51 14235 Aug 31 17:35 14235 Aug 31 17:35 14235 Nov 14 15:19 14236 Feb 17 04:21	17°\tau17'46 17°\tau16'55 15°\tau12'52 18°\tau39'06  19°\tau40'47 19°\tau39'46 19°\tau40'47 19°\tau39'27 20°\tau42'19 24°\tau6'38 22°\tau03'22 22°\tau02'31 19°\tau58'24 23°\tau24'54	17.38007 AU -0°03'24 0°03'06  19.37591 AU -0°06'44 17.37288 AU -0°08'53
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde	14229 Jan 29 18:36 14229 Jan 29 18:37 14229 Jan 29 10:17 14229 Feb 15 08:11 14229 May 20 00:41 14229 Aug 02 16:10 14229 Aug 02 23:36 14229 Oct 16 14:30 14230 Jan 18 07:09 14230 Feb 03 20:56 14230 Feb 03 20:57 14230 Feb 03 12:04 14230 Feb 20 10:35 14230 Apr 25 08:28 14230 May 25 01:54 14230 Jun 24 04:30	21°≈17'13 21°≈17'13 21°≈15'56 22°≈18'22 25°≈41'59 23°≈37'34 21°≈34'00 24°≈57'29 25°≈58'46 25°≈58'46 25°≈57'24 27°≈00'03 0° H 0° H23'57 30°R≈	0°29'25 19.49336 AU 0°29'15 17.47739 AU 0°23'40 0°24'21 19.46260 AU	min. Earth dist. direct evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	14234 Aug 26 10:07 14234 Aug 26 17:49 14234 Nov 09 13:28 14235 Feb 12 00:17  14235 Feb 28 13:53 14235 Feb 28 07:10 14235 Feb 28 20:36 14235 Feb 28 05:13 14235 Feb 28 05:13 14235 Mar 17 02:09 14235 Aug 31 09:51 14235 Aug 31 09:51 14235 Aug 31 17:35 14235 Nov 14 15:19 14236 Feb 17 04:21  14236 Mar 04 17:31	17°\tau17'46 17°\tau16'55 15°\tau12'52 18°\tau39'06  19°\tau40'47 19°\tau39'46 19°\tau40'47 19°\tau39'27 20°\tau42'19 24°\tau6'38 22°\tau03'22 22°\tau02'31 19°\tau58'24 23°\tau24'54  24°\tau26'34 24°\tau26'34	17.38007 AU -0°03'24 0°03'06  19.37591 AU -0°06'44 17.37288 AU -0°08'53
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	14229 Jan 29 18:36 14229 Jan 29 18:37 14229 Jan 29 10:17 14229 Feb 15 08:11 14229 May 20 00:41 14229 Aug 02 16:10 14229 Aug 02 23:36 14229 Oct 16 14:30 14230 Jan 18 07:09  14230 Feb 03 20:56 14230 Feb 03 20:57 14230 Feb 03 12:04 14230 Feb 20 10:35 14230 Apr 25 08:28 14230 May 25 01:54 14230 Jun 24 04:30 14230 Aug 07 14:05	21°≈17'13 21°≈17'13 21°≈15'56 22°≈18'22 25°≈41'59 23°≈38'23 23°≈37'34 21°≈34'00 24°≈57'29 25°≈58'46 25°≈58'46 25°≈57'24 27°≈00'03 0°	0°29'25 19.49336 AU 0°29'15 17.47739 AU 0°23'40 0°24'21 19.46260 AU	min. Earth dist. direct evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong behind sun begin	14234 Aug 26 10:07 14234 Aug 26 17:49 14234 Nov 09 13:28 14235 Feb 12 00:17  14235 Feb 28 13:53 14235 Feb 28 07:10 14235 Feb 28 07:10 14235 Feb 28 05:13 14235 Feb 28 05:13 14235 Mar 17 02:09 14235 Jun 18 07:26 14235 Aug 31 09:51 14235 Aug 31 17:35 14235 Nov 14 15:19 14236 Feb 17 04:21  14236 Mar 04 17:31 14236 Mar 04 17:31 14236 Mar 04 17:31	17° \times 17'46 17° \times 16'55 15° \times 12'52 18° \times 39'06  19° \times 40'47 19° \times 40'47 19° \times 39'46 19° \times 41'49 19° \times 39'27 20° \times 42'19 24° \times 06'38 22° \times 03'22 22° \times 02'31 19° \times 58'24 23° \times 24'54  24° \times 26'34 24° \times 25'41	17.38007 AU -0°03'24 0°03'06  19.37591 AU -0°06'44 17.37288 AU -0°08'53
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde	14229 Jan 29 18:36 14229 Jan 29 18:37 14229 Jan 29 10:17 14229 Feb 15 08:11 14229 May 20 00:41 14229 Aug 02 16:10 14229 Aug 02 23:36 14229 Oct 16 14:30 14230 Jan 18 07:09 14230 Feb 03 20:56 14230 Feb 03 20:57 14230 Feb 03 12:04 14230 Feb 20 10:35 14230 Apr 25 08:28 14230 May 25 01:54 14230 Jun 24 04:30	21°≈17'13 21°≈17'13 21°≈15'56 22°≈18'22 25°≈41'59 23°≈38'23 23°≈37'34 21°≈34'00 24°≈57'29 25°≈58'46 25°≈58'46 25°≈57'24 27°≈00'03 0°	0°29'25 19.49336 AU 0°29'15 17.47739 AU 0°23'40 0°24'21 19.46260 AU	min. Earth dist. direct evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	14234 Aug 26 10:07 14234 Aug 26 17:49 14234 Nov 09 13:28 14235 Feb 12 00:17  14235 Feb 28 13:53 14235 Feb 28 07:10 14235 Feb 28 20:36 14235 Feb 28 05:13 14235 Feb 28 05:13 14235 Mar 17 02:09 14235 Aug 31 09:51 14235 Aug 31 09:51 14235 Aug 31 17:35 14235 Nov 14 15:19 14236 Feb 17 04:21  14236 Mar 04 17:31	17° \times 17'46 17° \times 16'55 15° \times 12'52 18° \times 39'06  19° \times 40'47 19° \times 40'47 19° \times 41'49 19° \times 39'27 20° \times 42'19 24° \times 06'38 22° \times 03'22 22° \times 02'31 19° \times 58'24 23° \times 24'54  24° \times 26'34 24° \times 26'34 24° \times 25'41 24° \times 27'28	17.38007 AU -0°03'24 0°03'06  19.37591 AU -0°06'44 17.37288 AU -0°08'53

morning rise	14236 Mar 21 05:30	25° <b>)</b> €28'04		opposition	14242 Oct 03 07:15	25° <b>Ƴ</b> 13'11	-0°46'11
retrograde	14236 Jun 22 06:41	28° <b>¥</b> 52'15		min. Earth dist.	14242 Oct 03 12:44	25° <b>Y</b> 12'36	17.45985 AU
opposition	14236 Sep 04 09:29	26° <b>){</b> 49'01	-0°12'51	direct	14242 Dec 18 04:55	23° <b>Y</b> 08'09	
min. Earth dist.	14236 Sep 04 17:27	26° <b>)</b> 48′09	17.37010 AU	evening set	14243 Mar 23 01:12	26° <b>Ƴ</b> 34'04	
direct	14236 Nov 18 16:20	24° <b>){</b> 43′57					
evening set	14237 Feb 21 08:13	28° <b>) (</b> 10′39		conjunction	14243 Apr 08 10:38	27° <b>Y</b> 34'56	-0°43'33
				minimum elong	14243 Apr 08 10:38	27° <b>Y</b> 34'55	0°43'57
conjunction	14237 Mar 09 21:12	29° <b>ℋ</b> 12'18	-0°14'19	max. Earth dist.	14243 Apr 08 04:53	27° <b>Y</b> 34'02	19.47632 AU
minimum elong	14237 Mar 09 21:12	29° <b>∺</b> 12'18	0°14'11	morning rise	14243 Apr 24 17:57	28° <b>Y</b> 35'30	
behind sun begin	14237 Mar 09 18:03	29° <b>∺</b> 11'49			14243 May 19 08:24	$0^{\circ}B$	
behind sun end	14237 Mar 10 00:20	29° <b>升</b> 12'46		retrograde	14243 Jul 26 00:39	1° <b>8</b> 56'58	
max. Earth dist.	14237 Mar 09 12:29		19.37029 AU		14243 Oct 06 03:09	30° <b>₹Ƴ</b>	
	14237 Mar 22 15:07	$0^{\circ}$ Y		opposition	14243 Oct 08 06:18	29° <b>Y</b> 54'29	
morning rise	14237 Mar 26 08:32	0° <b>Υ</b> 13'43		min. Earth dist.	14243 Oct 08 10:06		17.49429 AU
retrograde	14237 Jun 27 07:21	3° <b>Y</b> 37'41		direct	14243 Dec 23 06:57	27° <b>Ƴ</b> 49'37	
opposition	14237 Sep 09 09:18	1° <b>Y</b> 34'30			14244 Mar 05 09:07	$9^{\circ}$ 8	
min. Earth dist.	14237 Sep 09 16:47		17.37174 AU	evening set	14244 Mar 27 02:33	1° <b>8</b> 15'09	
	14237 Oct 20 09:49	30° <b>₹</b>					
direct	14237 Nov 23 19:42	29° <b>∺</b> 29′23		conjunction	14244 Apr 12 11:17	2° <b>8</b> 15'49	
	14237 Dec 27 17:28	0° <b>Υ</b>		minimum elong	14244 Apr 12 11:17	2° <b>8</b> 15'48	
evening set	14238 Feb 26 11:59	2° <b>Y</b> 56'09		max. Earth dist.	14244 Apr 12 06:37	_	19.51318 AU
				morning rise	14244 Apr 28 17:43	3° <b>8</b> 16'10	
conjunction	14238 Mar 15 00:21	3° <b>Y</b> 57'43		retrograde	14244 Jul 29 21:35	6° <b>8</b> 37'05	
minimum elong	14238 Mar 15 00:21	3° <b>Y</b> 57'43		opposition	14244 Oct 12 05:10	4° <b>8</b> 34'50	
max. Earth dist.	14238 Mar 14 14:59		19.37434 AU	min. Earth dist.	14244 Oct 12 09:28		17.53348 AU
morning rise	14238 Mar 31 11:12	4° <b>Y</b> 59'04		direct	14244 Dec 27 06:20	2° <b>8</b> 30'10	
retrograde	14238 Jul 02 05:30	8° <b>Y</b> 22'45		evening set	14245 Apr 01 03:24	5° <b>8</b> 55'15	
opposition	14238 Sep 14 09:07	6° <b>Y</b> 19'36					
min. Earth dist.	14238 Sep 14 16:51		17.37838 AU	conjunction	14245 Apr 17 11:17	6° <b>8</b> 55'42	
direct	14238 Nov 28 21:19	4° <b>Υ</b> 14'25		minimum elong	14245 Apr 17 11:16	6° <b>8</b> 55'41	
evening set	14239 Mar 03 15:21	7° <b>Ƴ</b> 41'12		max. Earth dist.	14245 Apr 17 06:40	_	19.55451 AU
		000040440	000 4150	morning rise	14245 May 03 17:01	7° <b>8</b> 55'49	
conjunction	14239 Mar 20 03:21	8° <b>Υ</b> 42'40		retrograde	14245 Aug 03 20:19	11° <b>8</b> 16'09	0050156
minimum elong	14239 Mar 20 03:21	8° <b>Υ</b> 42'40	0°24'54	opposition	14245 Oct 17 03:46	9° <b>8</b> 14'09	
max. Earth dist.	14239 Mar 19 19:12	8°°γ′41′24 9° <b>Υ</b> 43′53	19.38355 AU	min. Earth dist.	14245 Oct 17 06:33	_	17.57669 AU
morning rise	14239 Apr 05 13:30			direct	14246 Jan 01 07:57	7° <b>と</b> 09'42 10° <b>と</b> 34'15	
retrograde	14239 Jul 07 05:37	13° <b>Υ</b> 07'13 11° <b>Υ</b> 04'09	0020121	evening set	14246 Apr 06 03:24	10°034'13	
opposition	14239 Sep 19 08:44 14239 Sep 19 15:23		17.39021 AU	· · · · · · · · · · · · ·	14246 Apr 22 10:35	11° <b>8</b> 34'27	0954120
min. Earth dist. direct	1		17.39021 AU	conjunction	1	11° <b>8</b> 34'27	
evening set	14239 Dec 04 01:00 14240 Mar 07 18:30	8° <b>Υ</b> '58'56 12° <b>Υ</b> '25'36		minimum elong max. Earth dist.	14246 Apr 22 10:35 14246 Apr 22 07:20		19.59936 AU
evening set	14240 Widi 07 18.50	12   23 30		morning rise	14246 May 08 15:22	12° <b>8</b> 34'20	19.39930 AU
conjunction	14240 Mar 24 05:52	13° <b>Y</b> ′26'57	_0°29'53	morning risc	14246 Jun 24 16:40	15° <b>8</b>	
minimum elong	14240 Mar 24 05:52	13° <b>Υ</b> 26'57		retrograde	14246 Aug 08 16:06	15° <b>8</b> 54'03	
max. Earth dist.	14240 Mar 23 21:42		19.39809 AU	retrograde	14246 Sep 24 02:55	15°R <b>8</b>	
morning rise	14240 Apr 09 15:25	14° <b>Υ</b> 28'03	17.57007 710	opposition	14246 Oct 22 02:15	13° <b>8</b> 52'17	-1°02'24
retrograde	14240 Jul 11 03:30	17° <b>Υ</b> 50'58		min. Earth dist.	14246 Oct 22 05:29	_	17.62318 AU
opposition	14240 Sep 23 08:25	15° <b>Y</b> 47'59	-0°36'01	direct	14247 Jan 06 07:06	11° <b>8</b> 48'04	17.02310710
min. Earth dist.	14240 Sep 23 15:18		17.40765 AU		14247 Apr 07 18:52	15° <b>8</b>	
direct	14240 Dec 08 02:03	13° <b>Y</b> '42'45		evening set	14247 Apr 11 02:56	15° <b>8</b> 12'00	
evening set	14241 Mar 12 21:13	17° <b>Y</b> ′09'16					
	2 21.19			conjunction	14247 Apr 27 09:12	16° <b>8</b> 11'57	-0°57'26
conjunction	14241 Mar 29 08:01	18° <b>Ƴ</b> 10′28	-0°34'42	minimum elong	14247 Apr 27 09:12	16° <b>8</b> 11'57	
minimum elong	14241 Mar 29 08:01	18° <b>Υ</b> 10'28		max. Earth dist.	14247 Apr 27 05:33		19.64731 AU
max. Earth dist.	14241 Mar 29 00:52	18° <b>Υ</b> '09'21		morning rise	14247 May 13 13:20	17° <b>8</b> 11'35	19.01/01/10
morning rise	14241 Apr 14 16:48	19° <b>Υ</b> 11'24	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	retrograde	14247 Aug 13 13:28	20° <b>8</b> 30'38	
retrograde	14241 Jul 16 03:20	22° <b>Y</b> '33'52		opposition	14247 Oct 27 00:03	18° <b>8</b> 29'06	-1°05'27
opposition	14241 Sep 28 07:48	20° <b>Υ</b> 31'00	-0°41'15	min. Earth dist.	14247 Oct 27 01:58		17.67244 AU
min. Earth dist.	14241 Sep 28 13:06		17.43081 AU	direct	14248 Jan 11 08:01	16° <b>8</b> 25'06	
direct	14241 Dec 13 04:51	18° <b>Y</b> 25'51		evening set	14248 Apr 15 01:38	19° <b>8</b> 48'22	
evening set	14242 Mar 17 23:33	21° <b>Y</b> '52'06		<i>5</i>	r	<u> </u>	
2		. •		conjunction	14248 May 01 07:17	20° <b>8</b> 48'04	-0°59'59
conjunction	14242 Apr 03 09:40	22° <b>Y</b> ′53′08	-0°39'16	minimum elong	14248 May 01 07:16	20° <b>8</b> 48'04	1°00'44
minimum elong	14242 Apr 03 09:39	22° <b>Y</b> ′53′08	0°39'34	max. Earth dist.	14248 May 01 05:02	_	19.69762 AU
max. Earth dist.	14242 Apr 03 03:12		19.44444 AU	morning rise	14248 May 17 10:27	21° <b>8</b> 47'26	
morning rise	14242 Apr 19 17:39	23° <b>Y</b> ′53'54		retrograde	14248 Aug 17 08:05	25° <b>8</b> 05'46	
retrograde	14242 Jul 21 01:10	27° <b>Y</b> 15'53		opposition	14248 Oct 30 21:42	23° <b>8</b> 04'28	-1°08'05

min. Earth dist.	14248 Oct 31 00:01	23° <b>8</b> 04'13 17.	72378 ATT	max. Earth dist.	14255 Jun 02 17:42	22°π12'47	20.09667 AU
direct	14249 Jan 15 06:42	21° <b>8</b> 00'43	.12318 AU	morning rise	14255 Jun 18 14:35	23° <b>I</b> 109'59	20.09007 AC
evening set	14249 Apr 19 23:37	24° <b>8</b> 23'14		retrograde	14255 Sep 18 03:40	26° <b>Ⅱ</b> 23'00	
evening set	14247 Apr 17 25.57	24 023 14		opposition	14255 Dec 02 13:06	24° <b>II</b> 22'58	-1°13'49
conjunction	14249 May 06 04:18	25° <b>8</b> 22'39 -1°0	02'09	min. Earth dist.	14255 Dec 02 10:27		18.12849 AU
minimum elong	14249 May 06 04:17	25° <b>8</b> 22'39 1°0		direct	14256 Feb 17 11:26	22° <b>I</b> I20'49	10.120.7110
max. Earth dist.	14249 May 06 01:28	25° <b>8</b> 22'13 19.		evening set	14256 May 21 06:57	25° <b>II</b> 36'56	
morning rise	14249 May 22 06:51	26° <b>8</b> 21'45	., .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	evening sec	1.200 1.149 21 00.07	20 20000	
retrograde	14249 Aug 22 03:56	29° <b>8</b> 39'22		conjunction	14256 Jun 06 06:53	26° <b>Ⅱ</b> 34'23	-1°06'01
opposition	14249 Nov 04 18:45	27° <b>8</b> 38'16 -1°	10'16	minimum elong	14256 Jun 06 06:53	26° <b>Ⅲ</b> 34'23	
min. Earth dist.	14249 Nov 04 19:54	27° <b>8</b> 38'09 17.		max. Earth dist.	14256 Jun 06 10:27		20.16008 AU
direct	14250 Jan 20 07:04	25° <b>8</b> 34'43		morning rise	14256 Jun 22 04:53	27° <b>Ⅲ</b> 31'35	
evening set	14250 Apr 24 20:36	28° <b>8</b> 56'26		S	14256 Aug 11 16:30	0° <b>©</b>	
Č	1			retrograde	14256 Sep 21 18:02	0°9543'51	
conjunction	14250 May 11 00:40	29° <b>8</b> 55'35 -1°0	03'55	Z .	14256 Nov 03 04:38	30°R <b>Ⅱ</b>	
minimum elong	14250 May 11 00:40	29° <b>8</b> 55'35 1°0	04'46	opposition	14256 Dec 06 06:06	28° <b>Ⅱ</b> 44'04	-1°12'52
max. Earth dist.	14250 May 10 23:29	29° <b>8</b> 55'24 19.	.80388 AU	min. Earth dist.	14256 Dec 06 02:27	28° <b>Ⅱ</b> 44'26	18.19230 AU
	14250 May 12 05:24	0°II		direct	14257 Feb 21 05:59	26° <b>Ⅱ</b> 42'15	
morning rise	14250 May 27 02:19	0° <b>∏</b> 54'25		evening set	14257 May 25 21:33	29° <b>Ⅱ</b> 57'24	
retrograde	14250 Aug 26 20:47	4° <b>Ⅱ</b> 11'17		C	14257 May 26 15:16	0° <b>©</b>	
opposition	14250 Nov 09 15:21	2° <b>Ⅱ</b> 10'22 -1°	11'59		,		
min. Earth dist.	14250 Nov 09 16:36	2° <b>Ⅱ</b> 10'14 17.	.83169 AU	conjunction	14257 Jun 10 20:45	0°954'35	-1°04'59
direct	14251 Jan 25 05:15	0° <b>Д</b> 07′03		minimum elong	14257 Jun 10 20:45	0°954'35	1°06'02
evening set	14251 Apr 29 16:44	3° <b>Ⅱ</b> 27'54		max. Earth dist.	14257 Jun 11 00:20	0°955'07	20.22428 AU
Č	1			morning rise	14257 Jun 26 18:24	1° <b>9</b> 51'32	
conjunction	14251 May 15 19:54	4° <b>Ⅱ</b> 26'45 -1°0	05'17	retrograde	14257 Sep 26 07:53	5° <b>5</b> 03'07	
minimum elong	14251 May 15 19:54	4° <b>Ⅱ</b> 26'45 1°0	06'12	opposition	14257 Dec 10 22:37	3° <b>5</b> 03'33	-1°11'30
max. Earth dist.	14251 May 15 18:09	4° <b>Ⅱ</b> 26'29 19.		min. Earth dist.	14257 Dec 10 18:31	3° <b>5</b> 03'58	18.25676 AU
morning rise	14251 May 31 21:03	5° <b>Ⅱ</b> 25'19		direct	14258 Feb 25 21:53	1°902'05	
retrograde	14251 Aug 31 14:52	8° <b>Ⅱ</b> 41'25		evening set	14258 May 30 11:17	4°9516'16	
opposition	14251 Nov 14 11:17	6° <b>Ⅱ</b> 40'40 -1°	13'15	8			
min. Earth dist.	14251 Nov 14 11:33	6° <b>Ⅱ</b> 40'38 17.	.88790 AU	conjunction	14258 Jun 15 10:05	5° <b>©</b> 13'11	-1°03'36
direct	14252 Jan 30 04:08	4° <b>Ⅱ</b> 37'33		minimum elong	14258 Jun 15 10:05	5° <b>©</b> 13'11	1°04'40
evening set	14252 May 03 11:50	7° <b>I</b> 57'30		max. Earth dist.	14258 Jun 15 15:10	5°913'57	20.28874 AU
<i>3</i>	,			morning rise	14258 Jul 01 07:13	6°909'53	
conjunction	14252 May 19 14:27	8° <b>Д</b> 56'05 -1°0	06'14	retrograde	14258 Sep 30 21:30	9° <b>5</b> 20'47	
minimum elong	14252 May 19 14:26	8° <b>II</b> 56'04 1°0	07'10	opposition	14258 Dec 15 14:23	7° <b>5</b> 21'28	-1°09'45
max. Earth dist.	14252 May 19 14:29	8° <b>Д</b> 56'05—19.	.91624 AU	min. Earth dist.	14258 Dec 15 09:18	7° <b>5</b> 21'59	18.32093 AU
morning rise	14252 Jun 04 14:44	9° <b>Ⅱ</b> 54'21		direct	14259 Mar 02 14:51	5°520'21	
retrograde	14252 Sep 04 06:10	13° <b>Ⅱ</b> 09'40		evening set	14259 Jun 04 00:23	8° <b>©</b> 33'35	
opposition	14252 Nov 18 06:39	11° <b>Ⅱ</b> 09'05 -1°	14'04	C			
min. Earth dist.	14252 Nov 18 06:38	11° <b>耳</b> 09'05 17.		conjunction	14259 Jun 19 22:36	9° <b>©</b> 30'15	-1°01'53
direct	14253 Feb 03 01:37	9° <b>Ⅱ</b> 06'10		minimum elong	14259 Jun 19 22:36	9° <b>©</b> 30'15	1°02'56
evening set	14253 May 08 06:08	12° <b>Ⅲ</b> 25'11		max. Earth dist.	14259 Jun 20 03:32		20.35254 AU
Č	,			morning rise	14259 Jul 05 19:28	10° <b>5</b> 26'43	
conjunction	14253 May 24 07:50	13° <b>Ⅲ</b> 23'28 -1°0	06'47	retrograde	14259 Oct 05 10:33	13° <b>©</b> 36'57	
minimum elong	14253 May 24 07:50	13° <b>Ⅱ</b> 23'28 1°0		opposition	14259 Dec 20 05:48	11° <b>©</b> 37'51	-1°07'38
max. Earth dist.	14253 May 24 07:38	13° <b>Ⅱ</b> 23'26 19.	.97463 AU	min. Earth dist.	14259 Dec 20 00:47	11° <b>©</b> 38'22	18.38423 AU
morning rise	14253 Jun 09 07:39	14° <b>Ⅲ</b> 21′28		direct	14260 Mar 06 05:50	9° <b>©</b> 37'03	
retrograde	14253 Sep 08 22:16	17° <b>Ⅲ</b> 36′00		evening set	14260 Jun 07 12:39	12° <b>5</b> 49'21	
opposition	14253 Nov 23 01:28	15° <b>Ⅲ</b> 35'34 -1°	14'26	•			
min. Earth dist.	14253 Nov 23 00:25	15° <b>Ⅲ</b> 35'41 18.	.00477 AU	conjunction	14260 Jun 23 10:30	13° <b>©</b> 45'46	-0°59'49
direct	14254 Feb 07 21:56	13° <b>Ⅲ</b> 32'53		minimum elong	14260 Jun 23 10:30	13° <b>©</b> 45'46	1°00'53
evening set	14254 May 12 23:08	16° <b>Ⅲ</b> 50'55		max. Earth dist.	14260 Jun 23 16:28	13° <b>©</b> 46'39	20.41509 AU
C	•			morning rise	14260 Jul 09 06:56	14°5542'00	
conjunction	14254 May 29 00:19	17° <b>Ⅱ</b> 48'55 -1°0	06'55	retrograde	14260 Oct 08 22:58	17° <b>©</b> 51'36	
minimum elong	14254 May 29 00:19	17° <b>Ⅱ</b> 48'55 1°0	07'55	opposition	14260 Dec 23 20:37	15° <b>©</b> 52'43	-1°05'09
max. Earth dist.	14254 May 29 02:09	17° <b>Ⅱ</b> 49'12 20.		min. Earth dist.	14260 Dec 23 14:34		18.44577 AU
morning rise	14254 Jun 13 23:23	18° <b>Ⅱ</b> 46'39		direct	14261 Mar 10 21:52	13° <b>©</b> 52'15	
retrograde	14254 Sep 13 13:00	22° <b>Ⅱ</b> 00′25		evening set	14261 Jun 12 00:21	17° <b>©</b> 03'37	
opposition	14254 Nov 27 19:40	20° <b>耳</b> 00′10 -1°	14'20	J			
min. Earth dist.	14254 Nov 27 17:47	20° <b>I</b> 100'22 18.		conjunction	14261 Jun 27 21:40	17° <b>©</b> 59'47	-0°57'28
direct	14255 Feb 12 17:58	17° <b>I</b> 57'45		minimum elong	14261 Jun 27 21:40	17°959'47	
evening set	14255 May 17 15:33	21° <b>I</b> I14'49		max. Earth dist.	14261 Jun 28 03:28		20.47560 AU
5	,	- "-		morning rise	14261 Jul 13 17:54	18°955'48	
conjunction	14255 Jun 02 15:56	22° <b>I</b> 12'31 -1°0	06'39	retrograde	14261 Oct 13 10:47	22°504'48	
minimum elong	14255 Jun 02 15:56	22° <b>I</b> 12'31 1°0		opposition	14261 Dec 28 11:04	20°506'05	-1°02'21
			- / -=	- F-F			

min Earth dist	14261 Day 20 05:22	20%50640 18 50522 ATT		14260 Jun 21 14:00	15° <b>Ω</b>
min. Earth dist. direct	14261 Dec 28 05:22 14262 Mar 15 11:41	20°506'40 18.50522 AU 18°505'55	evening set	14268 Jun 21 14:00 14268 Jul 10 14:30	16° <b>Ω</b> 01'55
evening set	14262 Jun 16 11:07	21° <b>©</b> 16'20	evening set	14200 Jul 10 14.30	10 0001 33
evening set	14202 Juli 10 11.07	21 31020	conjunction	14268 Jul 26 10:14	16°Ω56'46 -0°33'44
conjunction	14262 Jul 02 08:11	22°\$12'18 -0°54'48	minimum elong	14268 Jul 26 10:14	16°Ω56'46 0°34'32
minimum elong	14262 Jul 02 08:11	22°S12'18 0°55'48	max. Earth dist.	14268 Jul 26 18:34	16°Ω57'58 20.81831 AU
max. Earth dist.	14262 Jul 02 14:42	22°S13'15 20.53372 AU	morning rise	14268 Aug 11 05:49	17° <b>Ω</b> 51'36
morning rise	14262 Jul 18 04:09	23°508'06	retrograde	14268 Nov 11 07:03	20°Ω57'13
retrograde	14262 Oct 17 22:19	26°\$16'31	opposition	14269 Jan 27 00:22	18°Ω59'03 -0°35'05
opposition	14263 Jan 02 00:49	24°\$17'57 -0°59'13	min. Earth dist.	14269 Jan 26 15:37	18°Ω59'56 18.83781 AU
min. Earth dist.	14263 Jan 01 18:07	24°5018'38 18.56175 AU	direct	14269 Apr 14 02:00	17°Ω00'23
direct	14263 Mar 20 02:39	22° <b>©</b> 18'03	evening set	14269 Jul 14 21:07	20° <b>Ω</b> 05'09
evening set	14263 Jun 20 21:27	25° <b>©</b> 27'35			_, 00,,,
			conjunction	14269 Jul 30 16:44	20°Ω59'52 -0°29'33
conjunction	14263 Jul 06 18:07	26°\$23'19 -0°51'52	minimum elong	14269 Jul 30 16:44	20°Ω59'53 0°30'18
minimum elong	14263 Jul 06 18:07	26°\$23'19 0°52'51	max. Earth dist.	14269 Jul 31 01:27	21° <b>Ω</b> 01'08 20.85657 AU
max. Earth dist.	14263 Jul 07 00:20	26°\$24'14 20.58868 AU	morning rise	14269 Aug 15 12:26	21° <b>Ω</b> 54'37
morning rise	14263 Jul 22 13:57	27° <b>©</b> 18'56	retrograde	14269 Nov 15 14:06	24° <b>Ω</b> 59'57
morning rise	14263 Sep 19 21:36	0° <b>Ω</b>	opposition	14270 Jan 31 10:46	23°Ω01'51 -0°30'23
retrograde	14263 Oct 22 08:14	0° <b>Ω</b> 26'47	min. Earth dist.	14270 Jan 31 02:38	23°Ω02'40 18.87488 AU
retrograde	14263 Nov 24 12:49	30°Rூ	direct	14270 Apr 18 09:56	21°Ω03'24
opposition	14264 Jan 06 14:04	28°\$28'20 -0°55'48	evening set	14270 Jul 19 03:14	24°Ω07'35
min. Earth dist.	14264 Jan 06 08:02	28°\$28'56 18.61515 AU	evening set	142/0 Jul 17 03.14	24 060/33
direct	14264 Mar 23 15:25	26°\$28'39	conjunction	14270 Aug 03 22:53	25° <b>Ω</b> 02'11 -0°25'15
evening set	14264 Jun 24 06:59	29° <b>9</b> 37'18	minimum elong	14270 Aug 03 22:53	25°Ω02'11 -0 25'15 25°Ω02'11 0°25'57
evening set	14264 Jun 30 19:49	0° <b>Ω</b>	max. Earth dist.	14270 Aug 03 22:33	25°Ω03'30 20.89231 AU
	14204 Juli 30 19.49	0 06	morning rise	14270 Aug 04 07:39 14270 Aug 19 18:43	25°Ω56'50
agniumation	14264 Jul 10 03:27	0° <b>Ω</b> 32'50 -0°48'40	-	14270 Nov 19 23:19	29° <b>Ω</b> 01'56
conjunction minimum elong	14264 Jul 10 03:27	0°Ω32'50 0°49'37	retrograde opposition	14270 Nov 19 23.19 14271 Feb 04 20:39	29°Ω03'56 -0°25'32
_		0°Ω33'49 20.64049 AU	11		27° <b>Ω</b> 04'53 18.90903 AU
max. Earth dist.	14264 Jul 10 10:12	1°Ω28'16	min. Earth dist.	14271 Feb 04 11:11	25° €05'43
morning rise	14264 Jul 25 23:07		direct	14271 Apr 22 20:17	= =
retrograde	14264 Oct 25 19:14	4° <b>Ω</b> 35'34	evening set	14271 Jul 23 09:10	28° <b>Ω</b> 09'21
opposition	14265 Jan 10 02:47	2°Ω37'12 -0°52'07		14071 4 00 04 46	200 002151 0020150
min. Earth dist.	14265 Jan 09 19:39	2° <b>Ω</b> 37'56 18.66520 AU	conjunction	14271 Aug 08 04:46	29° <b>Ω</b> 03'51 -0°20'50
direct	14265 Mar 28 05:09	0° <b>Ω</b> 37'45	minimum elong	14271 Aug 08 04:46	29° <b>Q</b> 03'52 0°21'28
evening set	14265 Jun 28 15:46	3° <b>Ω</b> 45'31	max. Earth dist.	14271 Aug 08 14:05	29° <b>Ω</b> 05'12 20.92481 AU
			morning rise	14271 Aug 24 00:43	29° <b>Ω</b> 58'25
conjunction	14265 Jul 14 11:56	4°Ω40'51 -0°45'14		14271 Aug 24 11:55	0° m
minimum elong	14265 Jul 14 11:56	4°Ω40'51 0°46'11	retrograde	14271 Nov 24 06:17	3° m 03'22
max. Earth dist.	14265 Jul 14 18:44	4°Ω41'51 20.68896 AU	opposition	14272 Feb 09 06:24	1° 1005'26 -0°20'36
morning rise	14265 Jul 30 07:34	5° <b>Ω</b> 36'07	min. Earth dist.	14272 Feb 08 21:48	1° Mp 06'17 18.93987 AU
retrograde	14265 Oct 30 03:35	8° <b>Ω</b> 42'56		14272 Mar 09 02:26	30°R€
opposition	14266 Jan 14 15:04	6°Ω44'37 -0°48'11	direct	14272 Apr 26 03:34	29° <b>Ω</b> 07'27
min. Earth dist.	14266 Jan 14 08:34	6°Ω45'16 18.71223 AU	•	14272 Jun 11 10:45	0° m
direct	14266 Apr 01 16:31	4° <b>Ω</b> 45'21	evening set	14272 Jul 26 14:50	2° Mp 10'35
evening set	14266 Jul 02 23:53	7° <b>Ω</b> 52'16		14070 4 11 10 20	20 m 0 5101 001 (120
	14066 I1 10 10 50	00 0 47126 0041125	conjunction	14272 Aug 11 10:29	3° Mp 05'01 -0°16'20
conjunction	14266 Jul 18 19:56	8° <b>Ω</b> 47'26 -0°41'35	minimum elong	14272 Aug 11 10:30	3° m 05'01 0° 16'55
minimum elong max. Earth dist.	14266 Jul 18 19:56	8° <b>Ω</b> 47'26 0°42'29	max. Earth dist.	14272 Aug 11 19:57	3° M 06'22 20.95394 AU
	14266 Jul 19 03:22	8° <b>Ω</b> 48'31 20.73462 AU	morning rise	14272 Aug 27 06:37	3° M 59'31
morning rise	14266 Aug 03 15:31	9° <b>Ω</b> 42'33	retrograde	14272 Nov 27 15:03	7° Mp 04'20
retrograde	14266 Nov 03 13:58	12° <b>Ω</b> 48'53	opposition	14273 Feb 12 15:51	5° m 06'29 -0°15'34
opposition	14267 Jan 19 02:29	10° <b>Ω</b> 50'37 -0°44'01	min. Earth dist.	14273 Feb 12 06:06	5° Mp 07'27 18.96700 AU
min. Earth dist.	14267 Jan 18 18:42	10° <b>Ω</b> 51'24 18.75648 AU	direct	14273 Apr 30 12:44	3° Mp 08'42
direct	14267 Apr 06 04:58	8° <b>Ω</b> 51'31	evening set	14273 Jul 30 20:16	6° Mp 11′24
evening set	14267 Jul 07 07:33	11° <b>Ω</b> 57'41		14272 A 15 15.57	70 m 05146 0011146
aaniumatiam	14267 Iul   22   02:22	120 052141 0027145	conjunction	14273 Aug 15 15:57	7° Mp 05'46 -0°11'46
conjunction	14267 Jul 23 03:22	12° <b>Ω</b> 52'41 -0°37'45	minimum elong	14273 Aug 15 15:57	7° Mp 05'46 0° 12' 17
minimum elong	14267 Jul 23 03:23	12°Ω52'41 0°38'36	behind sun begin	14273 Aug 15 11:32	7° Mp 05'08
max. Earth dist.	14267 Jul 23 11:05	12° <b>Ω</b> 53'48 20.77758 AU	behind sun end	14273 Aug 15 20:23	7° Mp 06'23
morning rise	14267 Aug 07 22:58	13° <b>Ω</b> 47'39	max. Earth dist.	14273 Aug 16 01:29	7° Mp 07'07 20.97896 AU
	14267 Aug 30 08:58	15° <b>Ω</b>	morning rise	14273 Aug 31 12:18	8° Mp 00'13
retrograde	14267 Nov 07 21:19	16° <b>Ω</b> 53'36	retrograde	14273 Dec 01 22:10	11° Mp 04'58
*.*	14268 Jan 21 15:44	15°RΩ	opposition	14274 Feb 17 01:14	9° 1007'10 -0°10'28
opposition	14268 Jan 23 13:43	14° <b>Ω</b> 55'22 -0°39'38	min. Earth dist.	14274 Feb 16 16:37	9° Mp 08'01 18.98990 AU
min. Earth dist.	14268 Jan 23 06:29	14° <b>Ω</b> 56'06 18.79834 AU	direct	14274 May 04 19:21	7° Mp 09'34
direct	14268 Apr 09 14:28	12° <b>Ω</b> 56′29	evening set	14274 Aug 04 01:41	10° <b>m</b> 11'53

	14274 A 10 21-20	110 <b>m</b> 0 C l 11	0907110	habind and and	14270 0 00 01-25	1° <b>Ω</b> 04'42	
conjunction	14274 Aug 19 21:29	11°Mp06'11		behind sun end	14279 Sep 09 01:25		21 02260 ATT
minimum elong	14274 Aug 19 21:30	11°Mp06'11	0°07'37	max. Earth dist.	14279 Sep 09 08:16		21.02360 AU
behind sun begin	14274 Aug 19 15:31	11° Mp 05'21		morning rise	14279 Sep 24 22:41	1° <b>Ω</b> 59'03	
behind sun end	14274 Aug 20 03:28	11° Mp 07'01		retrograde	14279 Dec 26 20:02	5° <b>Ω</b> 04'06	
max. Earth dist.	14274 Aug 20 06:48	•	20.99959 AU	opposition	14280 Mar 13 05:31	3° <b>Ω</b> 05'50	
morning rise	14274 Sep 04 18:05	12° TD 00'36		min. Earth dist.	14280 Mar 12 22:43		19.01929 AU
retrograde	14274 Dec 06 06:34	15°Mp05'19		direct	14280 May 28 13:56	1° <b>≏</b> 08'29	
opposition	14275 Feb 21 10:07	13°Mp07'32		evening set	14280 Aug 27 08:56	4° <b>≏</b> 09'25	
min. Earth dist.	14275 Feb 21 00:42		19.00803 AU				
direct	14275 May 09 03:54	11°Mp 10'06		conjunction	14280 Sep 12 05:57	5° <b>ഫ</b> 03'43	0°20'34
evening set	14275 Aug 08 07:06	14° <b>m</b> 12'05		minimum elong	14280 Sep 12 05:57	5° <b>ഫ</b> 03'43	0°20'33
				max. Earth dist.	14280 Sep 12 13:25	5° <b>≙</b> 04'47	21.01394 AU
conjunction	14275 Aug 24 03:01	15°Mp06'21	-0°02'32	morning rise	14280 Sep 28 04:32	5° <b>≙</b> 58'15	
minimum elong	14275 Aug 24 03:00	15° Mp 06'21	0°02'54	retrograde	14280 Dec 30 05:02	9° <b>ഫ</b> 03'30	
behind sun begin	14275 Aug 23 20:27	15° Mp 05'26		opposition	14281 Mar 17 13:45	7° <b>≙</b> 05'04	0°25'10
behind sun end	14275 Aug 24 09:34	15°Mp07'16		min. Earth dist.	14281 Mar 17 06:06	7° <b>≏</b> 05'50	19.00774 AU
max. Earth dist.	14275 Aug 24 12:03	15° Mp 07'37	21.01508 AU	direct	14281 Jun 01 21:10	5° <b>♀</b> 07'41	
morning rise	14275 Sep 08 23:50	16° Mp 00'45		evening set	14281 Aug 31 14:08	8° <b>ഫ</b> 08'35	
retrograde	14275 Dec 10 13:33	19° mp 05'28		C	Ü		
opposition	14276 Feb 25 19:12	17° <b>m</b> ) 07'40	-0°00'10	conjunction	14281 Sep 16 11:29	9° <b>ჲ</b> 02'56	0°24'57
min. Earth dist.	14276 Feb 25 11:09	-	19.02092 AU	minimum elong	14281 Sep 16 11:28	9° <b>ഫ</b> 02'56	0°25'00
asc. node	14276 Mar 07 10:02	16° Mp 42'23	19.02092110	max. Earth dist.	14281 Sep 16 19:00		21.00046 AU
direct	14276 May 12 09:56	15° Mp 10'20		morning rise	14281 Oct 02 10:27	9° <b>≏</b> 57'33	21.00040710
evening set	14276 Aug 11 12:18	18°M) 12'01		retrograde	14282 Jan 03 12:07	13° <b>⊆</b> 03'03	
evening set	142/0 Aug 11 12.16	10 11/1201		opposition	14282 Mar 21 22:06	13 <b>≅</b> 03 03 11° <b>⊆</b> 04'29	0°29'58
	14276 A 27 00-22	100 m 0 (11 5	0902117				
conjunction	14276 Aug 27 08:22	19° Mp 06'15	0°02'16	min. Earth dist.	14282 Mar 21 15:33		18.99255 AU
minimum elong	14276 Aug 27 08:22	19° Mp 06'15	0°01'58	direct	14282 Jun 06 03:02	9° <b>Ω</b> 07'03	
behind sun begin	14276 Aug 27 01:47	19° Mp 05'20		evening set	14282 Sep 04 19:38	12° <b>≏</b> 08'00	
behind sun end	14276 Aug 27 14:56	19° <b>m</b> 07'10					
max. Earth dist.	14276 Aug 27 16:57		21.02528 AU	conjunction	14282 Sep 20 17:17	13° <b>Ω</b> 02'26	0°29'13
morning rise	14276 Sep 12 05:29	20° Mp 00'39		minimum elong	14282 Sep 20 17:17	13° <b>≏</b> 02'26	0°29'21
retrograde	14276 Dec 13 22:12	23°Mp 05'25		max. Earth dist.	14282 Sep 21 00:24		20.98360 AU
opposition	14277 Mar 01 04:01	21° Mp 07'33	0°05'00	morning rise	14282 Oct 06 16:43	13° <b>≏</b> 57'07	
min. Earth dist.	14277 Feb 28 19:15	21°Mp08'26	19.02829 AU	retrograde	14283 Jan 07 21:38	17° <b>≏</b> 02'57	
direct	14277 May 16 18:21	19° <b>m</b> 10'16		opposition	14283 Mar 26 06:13	15° <b>≙</b> 04'14	0°34'38
evening set	14277 Aug 15 17:34	22° Mp 11'41		min. Earth dist.	14283 Mar 25 22:54	15° <b>≏</b> 04'58	18.97398 AU
				direct	14283 Jun 10 09:48	13° <b>≏</b> 06'45	
conjunction	14277 Aug 31 13:49	23° Mp 05'55	0°06'55	evening set	14283 Sep 09 01:22	16° <b>≏</b> 07'51	
minimum elong	14277 Aug 31 13:49	23° m 05'55	0°06'40				
behind sun begin	14277 Aug 31 07:39	23° m 05'04		conjunction	14283 Sep 24 23:22	17° <b>≏</b> 02'23	0°33'22
behind sun end	14277 Aug 31 19:59	23° m 06'47		minimum elong	14283 Sep 24 23:22	17° <b>≏</b> 02'22	0°33'34
max. Earth dist.	14277 Aug 31 22:06	23° m 07'06	21.02983 AU	max. Earth dist.	14283 Sep 25 06:31	17° <b>≏</b> 03'24	20.96328 AU
morning rise	14277 Sep 16 11:16	24° m) 00'20		morning rise	14283 Oct 10 23:12	17° <b>≏</b> 57'11	
retrograde	14277 Dec 18 04:44	27° m 05'09		retrograde	14284 Jan 12 05:16	21° <b>≏</b> 03'23	
opposition	14278 Mar 05 12:40	25° mp 07'11	0°10'08	opposition	14284 Mar 29 14:47	19° <b>ഫ</b> 04'33	0°39'08
min. Earth dist.	14278 Mar 05 05:20	-	19.03018 AU	min. Earth dist.	14284 Mar 29 08:29		18.95206 AU
direct	14278 May 21 00:05	23° m 09'55	17.03010710	direct	14284 Jun 13 15:43	17° <b>⊆</b> 07'03	10.93200710
evening set	14278 Aug 19 22:41	26° m) 11'07		evening set	14284 Sep 12 07:18	20° <b>⊆</b> 08'20	
evening set	142/0 Aug 1) 22.41	20 11/1107		evening set	14204 Sep 12 07.10	20 -00 20	
conjunction	14278 Sep 04 19:13	27° mp 05'21	0°11'31	conjunction	14284 Sep 28 05:42	21° <b>≏</b> 02'57	0°37'21
minimum elong	14278 Sep 04 19:13	27° my 05'21	0°11'31' 0°11'22	minimum elong	14284 Sep 28 05:41	21° <b>⊆</b> 02'57	
_		•	0 11 22	max. Earth dist.	•		20.93979 AU
behind sun begin	14278 Sep 04 14:23	27° Mp 04'40			14284 Sep 28 12:23		20.93979 AU
behind sun end	14278 Sep 05 00:02	27° Mp 06'01	21 02020 ATT	morning rise	14284 Oct 14 06:04	21° <b>Ω</b> 57'53	
max. Earth dist.	14278 Sep 05 03:01		21.02920 AU	retrograde	14285 Jan 15 16:05	25° <b>Ω</b> 04'32	00.4212.0
morning rise	14278 Sep 20 17:03	27° m 59'47		opposition	14285 Apr 02 23:22	23° <b>Ω</b> 05'34	
_	14278 Oct 31 10:51	0∘ <b>⊽</b>		min. Earth dist.	14285 Apr 02 16:26		18.92687 AU
retrograde	14278 Dec 22 13:32	1° <b>≏</b> 04'42		direct	14285 Jun 17 22:41	21° <b>≏</b> 08'02	
	14279 Feb 14 19:02	30°R, Mp		evening set	14285 Sep 16 13:46	24° <b>≏</b> 09'36	
opposition	14279 Mar 09 21:03	29° Mp 06'35					
min. Earth dist.	14279 Mar 09 13:04	-	19.02701 AU	conjunction	14285 Oct 02 12:37	25° <b>≏</b> 04'21	0°41'09
direct	14279 May 25 08:04	27° <b>m</b> 09'17		minimum elong	14285 Oct 02 12:36	25° <b>≏</b> 04'21	0°41'30
	14279 Aug 21 01:44	0∘ <b>ত</b>		max. Earth dist.	14285 Oct 02 19:15	25° <b>≏</b> 05'18	20.91279 AU
evening set	14279 Aug 24 03:47	0° <b>≏</b> 10'19		morning rise	14285 Oct 18 13:25	25° <b>≏</b> 59'25	
				retrograde	14286 Jan 20 00:25	29° <b>ჲ</b> 06'32	
conjunction	14279 Sep 09 00:32	1° <b>≏</b> 04'34	0°16'05	opposition	14286 Apr 07 08:07	27° <b>م</b> 07'29	0°47'35
minimum elong	14279 Sep 09 00:31	1° <b>≏</b> 04'34	0°15'59	min. Earth dist.	14286 Apr 07 02:27	27° <b>≏</b> 08'03	18.89814 AU
behind sun begin	14279 Sep 08 23:37	1° <b>≏</b> 04'27		direct	14286 Jun 22 04:27	25° <b>≏</b> 09'54	

				<i>( ),</i>		, 1	C
evening set	14286 Sep 20 20:44	28° <b>≏</b> 11'49		conjunction	14292 Oct 31 04:26	23°M44'41	1°01'29
C	•			minimum elong	14292 Oct 31 04:25	23°M44'41	1°02'16
conjunction	14286 Oct 06 20:00	29° <b>ჲ</b> 06'42	0°44'46	max. Earth dist.	14292 Oct 31 05:45	23°M44'53	20.61349 AU
minimum elong	14286 Oct 06 19:59	29° <b>ჲ</b> 06'42	0°45'10	morning rise	14292 Nov 16 09:09	24°M41'05	
max. Earth dist.	14286 Oct 07 01:51	29° <b>ჲ</b> 07'33	20.88232 AU	retrograde	14293 Feb 18 11:15	27°M52'22	
morning rise	14286 Oct 22 21:22	0°ML01'55		opposition	14293 May 06 06:27	25°M51'58	1°09'13
	14286 Oct 22 07:45	$0^{\circ}$ M.		min. Earth dist.	14293 May 06 04:48	25°M52'09	18.58555 AU
retrograde	14287 Jan 24 12:30	3°M09'34		direct	14293 Jul 20 14:57	23°M53'11	
opposition	14287 Apr 11 17:09	1°M10'24	0°51'29	evening set	14293 Oct 19 12:59	26°M58'49	
min. Earth dist.	14287 Apr 11 11:10	1°M11'00	18.86577 AU				
	14287 May 12 17:52	30° <b>ŖΩ</b>		conjunction	14293 Nov 04 16:03	27°M55'06	1°03'16
direct	14287 Jun 26 12:08	29° <b>≏</b> 12'46		minimum elong	14293 Nov 04 16:02	27°M55'05	1°04'05
	14287 Aug 08 22:16	$0^{\circ}$ M.		max. Earth dist.	14293 Nov 04 17:26	27°M55'18	20.55664 AU
evening set	14287 Sep 25 04:08	2°M15'05		morning rise	14293 Nov 20 21:15	28°M51'43	
					14293 Dec 11 19:16	0° <b>∡</b>	
conjunction	14287 Oct 11 03:51	3°M₁0′08	0°48'11	retrograde	14294 Feb 22 23:50	2° <b>х</b> 03′39	
minimum elong	14287 Oct 11 03:50	3°M10'08	0°48'40	opposition	14294 May 10 17:42	0° <b>х</b> 02′59	1°11'02
max. Earth dist.	14287 Oct 11 09:32	3° <b>™</b> 10'57	20.84787 AU	min. Earth dist.	14294 May 10 17:01	0° <b>х</b> 03′04	18.52777 AU
morning rise	14287 Oct 27 05:39	4°M05'31			14294 May 11 22:39	30°RM	
retrograde	14288 Jan 28 21:55	7° <b>™</b> 13'44		direct	14294 Jul 25 01:00	28°M03'55	
opposition	14288 Apr 15 02:40	5° <b>M</b> ₁4'27	0°55'09		14294 Oct 02 11:05	0° <b>∡</b>	
min. Earth dist.	14288 Apr 14 22:03		18.82932 AU	evening set	14294 Oct 24 00:38	1° <b>∡</b> 10′16	
direct	14288 Jun 29 18:10	3°M16'44					
evening set	14288 Sep 28 12:13	6° <b>™</b> 19'30		conjunction	14294 Nov 09 04:12	2° <b>∡</b> 06'46	1°04'43
				minimum elong	14294 Nov 09 04:11	2° <b>∡</b> ¹06'46	1°05'36
conjunction	14288 Oct 14 12:23	7° <b>ጤ</b> 14'44	0°51'22	max. Earth dist.	14294 Nov 09 04:20		20.49816 AU
minimum elong	14288 Oct 14 12:22	7° <b>™</b> 14'44	0°51'54	morning rise	14294 Nov 25 10:07	3° <b>∡</b> 03'38	
max. Earth dist.	14288 Oct 14 16:57		20.80938 AU	retrograde	14295 Feb 27 13:30	6° <b>≯</b> 16'15	
morning rise	14288 Oct 30 14:47	8° <b>M</b> ₁0'17		opposition	14295 May 15 05:28	4° <b>≯</b> 15'20	
retrograde	14289 Feb 01 10:47	11°MJ9'06		min. Earth dist.	14295 May 15 04:50		18.46868 AU
opposition	14289 Apr 19 12:19	9° <b>™</b> 19'40	0°58'34	direct	14295 Jul 29 11:36	2° <b>≯</b> 15'58	
min. Earth dist.	14289 Apr 19 07:44		18.78867 AU	evening set	14295 Oct 28 12:44	5° <b>≯</b> 23'04	
direct	14289 Jul 04 03:06	7° <b>M</b> ₊21'49				_	
evening set	14289 Oct 02 20:51	10°M25'05		conjunction	14295 Nov 13 17:01	6° <b>₹</b> 19'50	1°05'50
				minimum elong	14295 Nov 13 17:01	6° <b>≯</b> 19'50	1°06'45
conjunction	14289 Oct 18 21:36	11°M20'30		max. Earth dist.	14295 Nov 13 17:31		20.43844 AU
minimum elong	14289 Oct 18 21:36	11°M20'30		morning rise	14295 Nov 29 23:23	7° <b>∡</b> 16'56	
max. Earth dist.	14289 Oct 19 01:44		20.76638 AU	retrograde	14296 Mar 03 03:27	10° <b>₹</b> 30'16	1010100
morning rise	14289 Nov 04 00:29	12°M16'15		opposition	14296 May 18 17:45	8° <b>₹</b> 29'07	
. 1	14290 Jan 04 15:07	15°M		min. Earth dist.	14296 May 18 17:43		18.40857 AU
retrograde	14290 Feb 05 21:25	15°M25'40		direct	14296 Aug 01 22:45	6° ₹29'28	
•.•	14290 Mar 10 16:10	15°RM	1001142	evening set	14296 Nov 01 01:49	9° <b>∡</b> 37'22	
opposition	14290 Apr 23 22:26	13°M26'02	1°01'42		1420631 17.0620	100 72 422	1006125
min. Earth dist.	14290 Apr 23 19:20		18.74344 AU	conjunction	14296 Nov 17 06:39	10° <b>₹</b> 34'23	1°06'35
direct	14290 Jul 08 10:08	11°M28'01		minimum elong	14296 Nov 17 06:39	10° <b>₹</b> 34'23	1°07'32
evening set	14290 Oct 07 06:05	14°M31'49		max. Earth dist.	14296 Nov 17 05:49		20.37814 AU
	14290 Oct 15 10:33	15° <b>™</b>		morning rise	14296 Dec 03 13:47	11°×731'45	
agniumation	14200 Oat 22 07:19	150M 2712/	0°56'59	retrograde	14297 Mar 07 18:26	14° <b>х</b> 45'48	101/112
conjunction	14290 Oct 23 07:18	15°M27'26 15°M27'25	0°56'59 0°57'40	opposition min. Earth dist.	14297 May 23 06:23	12° <b>√</b> 44'25	1°14'13 18.34811 AU
minimum elong	14290 Oct 23 07:18				14297 May 23 06:34		18.34611 AU
max. Earth dist. morning rise	14290 Oct 23 10:04 14290 Nov 08 10:50	15°IL2/'50 16°IL23'23	20.71907 AU	direct evening set	14297 Aug 06 10:06 14297 Nov 05 15:37	10° <b>₹</b> 44'29 13° <b>₹</b> 53'15	
retrograde	14290 Nov 08 10:30 14291 Feb 10 10:25	10 IIC23 23		evening set	1429/ NOV 03 13.3/	13 X 33 13	
•			1°04'32	agniumation	14207 Nov. 21, 21-15	140.750122	1°06'58
opposition min. Earth dist.	14291 Apr 28 08:43 14291 Apr 28 05:46	17°M33'33	1 04 32 18.69409 AU	conjunction minimum elong	14297 Nov 21 21:15 14297 Nov 21 21:14	14° <b>₹</b> 50'33 14° <b>₹</b> 50'33	1°07'58
direct	14291 Apr 28 03:40	17 IIC35 31 15°M35'18	18.09409 AU	max. Earth dist.	14297 Nov 21 21:14 14297 Nov 21 20:50		20.31745 AU
evening set	14291 Jul 12 20.07 14291 Oct 11 15:49	18°M39'40		morning rise	14297 Nov 21 20.30 14297 Dec 08 04:49	14 <b>x</b> ·30 29 15° <b>x</b> 48′10	20.31/43 AU
evening set	17471 OCI 11 13.49	10 1163740		retrograde	14297 Dec 08 04:49 14298 Mar 12 09:47	19° × 02'57	
conjunction	14291 Oct 27 17:40	19° <b>M</b> .35'30	0°59'23	opposition	14298 May 27 19:37	19° <b>×</b> '02'37	1°14'28
minimum elong	14291 Oct 27 17:40 14291 Oct 27 17:39	19°M35'29	1°00'06	min. Earth dist.	14298 May 27 19:37 14298 May 27 20:17		18.28733 AU
max. Earth dist.	14291 Oct 27 17:39 14291 Oct 27 20:13		20.66780 AU	direct	14298 May 27 20:17 14298 Aug 10 22:02	1/° <b>×</b> ′01′19 15° <b>×</b> ′01′12	10.20/33 AU
		20°M31'39	20.00/80 AU		14298 Aug 10 22:02 14298 Nov 10 06:18	18° <b>≯</b> 10'51	
morning rise	14291 Nov 12 21:40			evening set	14270 INOV 10 U0:18	10 %.10.21	
retrograde opposition	14292 Feb 14 21:57 14292 May 01 19:28	23°M42'18 21°M42'11	1°07'03	conjunction	14298 Nov 26 12:25	19° <b>∡</b> '08'25	1°06'59
min. Earth dist.	14292 May 01 17:43		1 07 03 18.64115 AU	minimum elong	14298 Nov 26 12:25	19 <b>x</b> ·08 23 19° <b>x</b> <sup>7</sup> 08'25	1°08'00
direct	14292 Jul 16 04:43	19°M43'41	10.0711 <i>3</i> AU	max. Earth dist.	14298 Nov 26 12:23		20.25675 AU
evening set	14292 Jul 16 04:43 14292 Oct 15 02:03	22°M48'39		max. Earth dist.	14298 Nov 26 10:34 14298 Dec 12 20:44	19° <b>×</b> ′08′08 20° <b>×</b> <sup>7</sup> 06′18	20.230/3 AU
cvening set	17272 OCT 13 02.03	44 IIG40 39		morning 1150	17470 DCC 14 40.44	20 × 00 10	

retrograde	14299 Mar 17 02:35	23° <b>∡</b> "21'51		evening set	14305 Dec 12 14:33	19° <b>る</b> 06'03	
opposition	14299 Jun 01 09:28		1°14'18				
min. Earth dist.	14299 Jun 01 10:34	21° <b>∡</b> ′20′00	18.22667 AU	conjunction	14305 Dec 29 01:20	20°る05'37	0°56'24
direct	14299 Aug 15 10:25	19° <b>∡</b> 19'40		minimum elong	14305 Dec 29 01:20	20° <b>ට</b> 05'37	0°57'24
evening set	14299 Nov 14 21:49	22° <b>∡</b> ³30′17		max. Earth dist.	14305 Dec 28 19:13	20° <b>ට</b> 04'41	19.82964 AU
-				morning rise	14306 Jan 14 13:11	21° <b>る</b> 05'23	
conjunction	14299 Dec 01 04:45	23° <b>҂</b> ¹28'08	1°06'38	retrograde	14306 Apr 18 19:48	24° <b>る</b> 25'52	
minimum elong	14299 Dec 01 04:45	23° <b>₹</b> ′28′08	1°07'40	opposition	14306 Jul 03 03:22	22° <b>る</b> 23'00	1°01'11
max. Earth dist.	14299 Dec 01 03:26	23° <b>∡</b> ¹27'56	20.19607 AU	min. Earth dist.	14306 Jul 03 08:45	22° <b>る</b> 22'25	17.80014 AU
morning rise	14299 Dec 17 13:29	24° <b>∡</b> ¹26′17		direct	14306 Sep 15 22:48	20° <b>る</b> 20'29	
retrograde	14300 Mar 21 19:51	27° <b>∡</b> ¹42'35		evening set	14306 Dec 17 12:08	23° <b>る</b> 37'57	
opposition	14300 Jun 05 23:53	25° <b>∡</b> ¹40'44	1°13'42				
min. Earth dist.	14300 Jun 06 01:24	25° <b>∡</b> ′40'34	18.16596 AU	conjunction	14307 Jan 02 23:18	24° <b>る</b> 37'47	0°53'22
direct	14300 Aug 19 23:35	23° <b>∡</b> ′40′03		minimum elong	14307 Jan 02 23:18	24° <b>る</b> 37'47	0°54'22
evening set	14300 Nov 19 14:23	26° <b>₹</b> '51'37		max. Earth dist.	14307 Jan 02 15:42		19.77094 AU
				morning rise	14307 Jan 19 11:40	25° <b>る</b> 37'49	
conjunction	14300 Dec 05 21:50		1°05'53	retrograde	14307 Apr 23 15:59	28° <b>ප්</b> 58'53	
minimum elong	14300 Dec 05 21:50		1°06'56	opposition	14307 Jul 07 22:01	26° <b>ප</b> 55'49	
max. Earth dist.	14300 Dec 05 18:46	27° <b>⋌</b> ¹49'17	20.13541 AU	min. Earth dist.	14307 Jul 08 04:38		17.74265 AU
morning rise	14300 Dec 22 07:20	28° <b>∡</b> ¹48'11		direct	14307 Sep 20 16:08	24°る52'57	
	14301 Jan 12 20:44	0°る		evening set	14307 Dec 22 10:23	28° <b>る</b> 11'23	
retrograde	14301 Mar 26 14:13	2° <b>ට</b> 05'16					
opposition	14301 Jun 10 14:58		1°12'41	conjunction	14308 Jan 07 22:14	29° <b>ろ</b> 11'29	0°49'59
min. Earth dist.	14301 Jun 10 17:26		18.10521 AU	minimum elong	14308 Jan 07 22:14	29° <b>ろ</b> 11'29	0°50'57
t' .	14301 Jun 11 21:49	30°₹ <b>⋌</b> ¹		max. Earth dist.	14308 Jan 07 15:08		19.71481 AU
direct	14301 Aug 24 13:10	28° <b>₹</b> 02'19			14308 Jan 21 04:39	0° <b>≈</b>	
	14301 Nov 01 19:04	0°궁 1°궁14'53		morning rise	14308 Jan 24 10:52	0°≈11'44	
evening set	14301 Nov 24 07:54	1 61433		retrograde opposition	14308 Apr 27 15:10 14308 Jul 11 16:55	3°≈33'21 1°≈30'07	0052142
conjunction	14301 Dec 10 16:09	2° <b>る</b> 13'19	1°04'45	min. Earth dist.	14308 Jul 11 10.55		0 33 42 17.68795 AU
minimum elong	14301 Dec 10 16:09		1°05'48	IIIII. Eartii dist.	14308 Aug 19 18:16	1 ≈2928 30°Rる	17.08793 AU
max. Earth dist.	14301 Dec 10 10:09		20.07440 AU	direct	14308 Aug 19 18.10 14308 Sep 24 12:19	30 KO 29° <b>る</b> 26'56	
morning rise	14301 Dec 10 13:21 14301 Dec 27 02:00	3°る12'01	20.07440 AC	direct	14308 Oct 29 17:17	0°≈	
retrograde	14302 Mar 31 09:21	6°る29'50		evening set	14308 Dec 26 09:31	2°≈46'17	
opposition	14302 Jun 15 06:35		1°11'15	evening set	14300 Dec 20 07.51	2 704017	
min. Earth dist.	14302 Jun 15 09:29		18.04395 AU	conjunction	14309 Jan 11 21:44	3° <b>≈</b> 46'38	0°46'16
direct	14302 Aug 29 04:14	2° <b>る</b> 26'29		minimum elong	14309 Jan 11 21:45	3° <b>≈</b> 46'38	0°47'12
evening set	14302 Nov 29 02:26	5°₹40'04		max. Earth dist.	14309 Jan 11 13:33		19.66174 AU
<i>8</i>				morning rise	14309 Jan 28 10:46	4° <b>≈</b> 47'07	
conjunction	14302 Dec 15 11:09	6°₹38'46	1°03'14	retrograde	14309 May 02 11:51	8° <b>≈</b> 09'14	
minimum elong	14302 Dec 15 11:09	6°₹38'46	1°04'18	opposition	14309 Jul 16 12:35	6°≈05'51	0°49'24
max. Earth dist.	14302 Dec 15 06:17	6° <b>ප</b> 38'02	20.01300 AU	min. Earth dist.	14309 Jul 16 19:47	6° <b>≈</b> 05'05	17.63674 AU
morning rise	14302 Dec 31 21:41	7° <b>る</b> 37'46		direct	14309 Sep 29 07:09	4° <b>≈</b> 02'22	
retrograde	14303 Apr 05 04:36	10° <b>පි</b> 56'18		evening set	14309 Dec 31 09:12	7° <b>≈</b> 22'38	
opposition	14303 Jun 19 23:02	8° <b>る</b> 53'59	1°09'22				
min. Earth dist.	14303 Jun 20 03:08	8° <b>る</b> 53'33	17.98244 AU	conjunction	14310 Jan 16 21:54	8° <b>≈</b> 23'12	0°42'14
direct	14303 Sep 02 19:01	6° <b>る</b> 52'28		minimum elong	14310 Jan 16 21:55	8° <b>≈</b> 23'13	0°43'08
evening set	14303 Dec 03 21:30	10° <b>る</b> 07'02		max. Earth dist.	14310 Jan 16 14:05	8° <b>≈</b> 22'00	19.61250 AU
				morning rise	14310 Feb 02 11:06	9° <b>≈</b> 23'53	
conjunction	14303 Dec 20 07:04	11° <b>ろ</b> 06'02		retrograde	14310 May 07 11:33	12° <b>≈</b> 46′28	
minimum elong	14303 Dec 20 07:04	11° <b>∃</b> 06'02		opposition	14310 Jul 21 08:33	10° <b>≈</b> 42'59	
max. Earth dist.	14303 Dec 20 02:30	11° <b>る</b> 05'21	19.95139 AU	min. Earth dist.	14310 Jul 21 14:51		17.58953 AU
morning rise							
retrograde	14304 Jan 05 17:58	12° <b>る</b> 05'17		direct	14310 Oct 04 05:08	8°≈39'15	
	14304 Apr 09 01:36	15° <b>る</b> 24'30	1005104	evening set	14310 Oct 04 05:08 14311 Jan 05 09:37	8°≈39'15 12°≈00'23	
opposition	14304 Apr 09 01:36 14304 Jun 23 15:59	15° <b>පි</b> 24'30 13° <b>පි</b> 22'01	1°07'04	evening set	14311 Jan 05 09:37	12°≈00'23	002715.4
min. Earth dist.	14304 Apr 09 01:36 14304 Jun 23 15:59 14304 Jun 23 20:13	15° <b>ට</b> 24'30 13°ට22'01 13°ට21'34		evening set conjunction	14311 Jan 05 09:37 14311 Jan 21 22:38	12°≈00'23 13°≈01'10	0°37'54
min. Earth dist. direct	14304 Apr 09 01:36 14304 Jun 23 15:59 14304 Jun 23 20:13 14304 Sep 06 12:13	15° හි24'30 13° හි22'01 13° හි21'34 11° හි20'11		evening set  conjunction  minimum elong	14311 Jan 05 09:37 14311 Jan 21 22:38 14311 Jan 21 22:38	12°≈00'23  13°≈01'10  13°≈01'10	0°38'44
min. Earth dist.	14304 Apr 09 01:36 14304 Jun 23 15:59 14304 Jun 23 20:13	15° <b>ට</b> 24'30 13°ට22'01 13°ට21'34		evening set  conjunction  minimum elong  max. Earth dist.	14311 Jan 05 09:37 14311 Jan 21 22:38 14311 Jan 21 22:38 14311 Jan 21 14:20	12°≈00'23  13°≈01'10  13°≈01'10  12°≈59'54	
min. Earth dist. direct evening set	14304 Apr 09 01:36 14304 Jun 23 15:59 14304 Jun 23 20:13 14304 Sep 06 12:13 14304 Dec 07 17:44	15° පි24'30 13° පි22'01 13° පි21'34 11° පි20'11 14° පි35'43	17.92078 AU	evening set  conjunction  minimum elong	14311 Jan 05 09:37 14311 Jan 21 22:38 14311 Jan 21 22:38 14311 Jan 21 14:20 14311 Feb 07 12:01	12°≈00'23  13°≈01'10 13°≈01'10 12°≈59'54 14°≈02'02	0°38'44
min. Earth dist. direct evening set conjunction	14304 Apr 09 01:36 14304 Jun 23 15:59 14304 Jun 23 20:13 14304 Sep 06 12:13 14304 Dec 07 17:44 14304 Dec 24 03:45	15° පි24'30 13° පි22'01 13° පි21'34 11° පි20'11 14° පි35'43	17.92078 AU 0°59'03	evening set  conjunction minimum elong max. Earth dist. morning rise	14311 Jan 05 09:37 14311 Jan 21 22:38 14311 Jan 21 22:38 14311 Jan 21 14:20 14311 Feb 07 12:01 14311 Feb 24 03:17	12°≈00'23 13°≈01'10 13°≈01'10 12°≈59'54 14°≈02'02 15°≈	0°38'44
min. Earth dist. direct evening set  conjunction minimum elong	14304 Apr 09 01:36 14304 Jun 23 15:59 14304 Jun 23 20:13 14304 Sep 06 12:13 14304 Dec 07 17:44 14304 Dec 24 03:45 14304 Dec 24 03:45	15° \(\frac{7}{2}\)4'30 13° \(\frac{7}{2}\)2'01 13° \(\frac{7}{2}\)2'134 11° \(\frac{7}{2}\)0'11 14° \(\frac{7}{3}\)5'43 15° \(\frac{7}{3}\)5'00 15° \(\frac{7}{3}\)5'00	17.92078 AU 0°59'03 1°00'06	evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde	14311 Jan 05 09:37 14311 Jan 21 22:38 14311 Jan 21 22:38 14311 Jan 21 14:20 14311 Feb 07 12:01 14311 Feb 24 03:17 14311 May 12 08:54	12°≈00'23 13°≈01'10 13°≈01'10 12°≈59'54 14°≈02'02 15°≈ 17°≈25'03	0°38'44 19.56751 AU
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	14304 Apr 09 01:36 14304 Jun 23 15:59 14304 Jun 23 20:13 14304 Sep 06 12:13 14304 Dec 07 17:44 14304 Dec 24 03:45 14304 Dec 24 03:45 14304 Dec 23 21:14	15°る24'30 13°る22'01 13°る21'34 11°る20'11 14°る35'43 15°る35'00 15°る35'00 15°る34'01	17.92078 AU 0°59'03 1°00'06	evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition	14311 Jan 05 09:37  14311 Jan 21 22:38  14311 Jan 21 14:20  14311 Feb 07 12:01  14311 Feb 24 03:17  14311 May 12 08:54  14311 Jul 26 05:16	12°≈00'23  13°≈01'10 13°≈01'10 12°≈59'54 14°≈02'02 15°≈ 17°≈25'03 15°≈21'30	0°38'44 19.56751 AU 0°39'47
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	14304 Apr 09 01:36 14304 Jun 23 15:59 14304 Jun 23 20:13 14304 Sep 06 12:13 14304 Dec 07 17:44 14304 Dec 24 03:45 14304 Dec 24 03:45 14304 Dec 23 21:14 14305 Jan 09 15:18	15°る24'30 13°る22'01 13°る21'34 11°る20'11 14°る35'43 15°る35'00 15°る35'00 15°る34'01 16°る34'32	17.92078 AU 0°59'03 1°00'06	evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde	14311 Jan 05 09:37  14311 Jan 21 22:38  14311 Jan 21 14:20  14311 Feb 07 12:01  14311 Feb 24 03:17  14311 May 12 08:54  14311 Jul 26 05:16  14311 Jul 26 12:33	12°≈00'23  13°≈01'10 13°≈01'10 12°≈59'54 14°≈02'02 15°≈ 17°≈25'03 15°≈21'30 15°≈20'42	0°38'44 19.56751 AU
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	14304 Apr 09 01:36 14304 Jun 23 15:59 14304 Jun 23 20:13 14304 Sep 06 12:13 14304 Dec 07 17:44 14304 Dec 24 03:45 14304 Dec 24 03:45 14304 Dec 23 21:14 14305 Jan 09 15:18 14305 Apr 13 21:17	15°る24'30 13°る22'01 13°る21'34 11°る20'11 14°る35'43 15°る35'00 15°る35'00 15°る34'01 16°る34'32 19°る54'24	17.92078 AU 0°59'03 1°00'06 19.89002 AU	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	14311 Jan 05 09:37  14311 Jan 21 22:38  14311 Jan 21 14:20  14311 Feb 07 12:01  14311 Feb 24 03:17  14311 May 12 08:54  14311 Jul 26 05:16  14311 Jul 26 12:33  14311 Aug 03 12:10	12°≈00'23  13°≈01'10 13°≈01'10 12°≈59'54 14°≈02'02 15°≈ 17°≈25'03 15°≈21'30 15°≈20'42 15°8≈	0°38'44 19.56751 AU 0°39'47
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	14304 Apr 09 01:36 14304 Jun 23 15:59 14304 Jun 23 20:13 14304 Sep 06 12:13 14304 Dec 07 17:44 14304 Dec 24 03:45 14304 Dec 24 03:45 14304 Dec 23 21:14 14305 Jan 09 15:18 14305 Apr 13 21:17 14305 Jun 28 09:24	15°る24'30 13°る22'01 13°る21'34 11°る20'11 14°る35'43 15°る35'00 15°る35'00 15°る34'01 16°る34'32 19°る54'24 17°る51'43	17.92078 AU  0°59'03 1°00'06 19.89002 AU  1°04'20	evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition	14311 Jan 05 09:37  14311 Jan 21 22:38  14311 Jan 21 14:20  14311 Feb 07 12:01  14311 Feb 24 03:17  14311 May 12 08:54  14311 Jul 26 05:16  14311 Jul 26 12:33  14311 Aug 03 12:10  14311 Oct 09 01:21	12°≈00'23  13°≈01'10 13°≈01'10 12°≈59'54 14°≈02'02 15°≈ 17°≈25'03 15°≈21'30 15°≈20'42 15°R≈ 13°≈17'31	0°38'44 19.56751 AU 0°39'47
min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	14304 Apr 09 01:36 14304 Jun 23 15:59 14304 Jun 23 20:13 14304 Sep 06 12:13 14304 Dec 07 17:44 14304 Dec 24 03:45 14304 Dec 24 03:45 14304 Dec 23 21:14 14305 Jan 09 15:18 14305 Apr 13 21:17	15°る24'30 13°る22'01 13°る21'34 11°る20'11 14°る35'43 15°る35'00 15°る35'00 15°る34'01 16°る34'32 19°る54'24	17.92078 AU  0°59'03 1°00'06 19.89002 AU  1°04'20	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	14311 Jan 05 09:37  14311 Jan 21 22:38  14311 Jan 21 14:20  14311 Feb 07 12:01  14311 Feb 24 03:17  14311 May 12 08:54  14311 Jul 26 05:16  14311 Jul 26 12:33  14311 Aug 03 12:10	12°≈00'23  13°≈01'10 13°≈01'10 12°≈59'54 14°≈02'02 15°≈ 17°≈25'03 15°≈21'30 15°≈20'42 15°8≈	0°38'44 19.56751 AU 0°39'47

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min. Earth dist.

14323 Sep 20 23:03

12°Y07'06 17.38693 AU

1 minotary 1 month	onicia or oranas n	0111 1 1100 1	unougn 1 1002	(01),1100000000	1110 10 100 2020	<b>-</b> 2, F	,uge 1)
direct	14323 Dec 05 08:07	10° <b>Y</b> ′02'31		minimum elong	14330 Apr 23 18:42	12° <b>8</b> 39'51	0°55'26
evening set	14324 Mar 09 02:00	13° <b>Y</b> ′29'08		max. Earth dist.	14330 Apr 23 15:15		19.60085 AU
evening sec	11321111111 05 02.00	15 , 25 00		morning rise	14330 May 09 23:32	13° <b>8</b> 39'45	19.00000 110
conjunction	14324 Mar 25 13:22	14° <b>Y</b> ′30'29	-0°30'15	morning rise	14330 Jun 02 08:56	15° <b>8</b>	
minimum elong	14324 Mar 25 13:22			retrograde	14330 Aug 10 01:19	16° <b>8</b> 59'34	
max. Earth dist.	14324 Mar 25 05:34		19.39559 AU	retrograde	14330 Oct 22 15:02	15°RB	
morning rise	14324 Apr 10 22:56	15° <b>Υ</b> 31'35	17.57557 AU	opposition	14330 Oct 22 19:02 14330 Oct 23 10:36	14° <b>8</b> 57'54	-1°02'46
retrograde	14324 Jul 12 11:44	18° <b>Y</b> '54'32		min. Earth dist.	14330 Oct 23 14:04		17.62427 AU
opposition	14324 Sep 24 16:25	16° <b>Υ</b> 51'29	-0°36'25	direct	14331 Jan 07 14:44	12° <b>8</b> 53'47	17.02427710
min. Earth dist.	14324 Sep 24 22:43		17.40602 AU	direct	14331 Mar 20 18:26	15°8	
direct	14324 Dec 09 09:39	14° <b>Y</b> 46'15	17.40002 AU	evening set	14331 Apr 12 11:02	16° <b>8</b> 17'48	
evening set	14325 Mar 14 04:45	18° <b>Υ</b> 12'45		evening set	14331 Apr 12 11.02	10 017 40	
evening set	14323 Wai 14 04.43	10 1 12 43		conjunction	14331 Apr 28 17:24	17° <b>8</b> 17'46	0°57'45
conjunction	14325 Mar 30 15:36	19° <b>Ƴ</b> 13'58	0°25'02	minimum elong	14331 Apr 28 17:23	17° <b>8</b> 17'46	
-	14325 Mar 30 15:35			max. Earth dist.	14331 Apr 28 17:23	_	19.64785 AU
minimum elong max. Earth dist.	14325 Mar 30 13.33		19.41764 AU		•	17 81711 18° <b>8</b> 17'26	19.04/83 AU
		19 γ 12 36 20° <b>Υ</b> 14'54	19.41/04 AU	morning rise	14331 May 14 21:35	21° <b>8</b> 36'34	
morning rise	14325 Apr 16 00:24 14325 Jul 17 11:22	$20^{\circ}$ \ \ \ \ 14.54 \ $23^{\circ}$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		retrograde	14331 Aug 14 22:32	•	1005140
retrograde			0041120	opposition	14331 Oct 28 08:36	19° <b>8</b> 35'06	
opposition	14325 Sep 29 15:55	21° <b>Y</b> 34'34		min. Earth dist.	14331 Oct 28 10:41	_	17.67241 AU
min. Earth dist.	14325 Sep 29 20:47		17.43088 AU	direct	14332 Jan 12 15:32	17° <b>8</b> 31'11	
direct	14325 Dec 14 12:21	19° <b>Y</b> ′29′28		evening set	14332 Apr 16 09:50	20° <b>8</b> 54'30	
evening set	14326 Mar 19 07:01	22° <b>Y</b> 55'44					
		00		conjunction	14332 May 02 15:30	21° <b>8</b> 54'13	
conjunction	14326 Apr 04 17:08	23° <b>Y</b> ′56'47		minimum elong	14332 May 02 15:30	21° <b>8</b> 54'13	
minimum elong	14326 Apr 04 17:07	23° <b>Y</b> 56'47		max. Earth dist.	14332 May 02 13:04		19.69699 AU
max. Earth dist.	14326 Apr 04 11:03		19.44530 AU	morning rise	14332 May 18 18:44	22° <b>8</b> 53'36	
morning rise	14326 Apr 21 01:12	24° <b>Y</b> ′57′33		retrograde	14332 Aug 18 17:16	26° <b>8</b> 12'02	
retrograde	14326 Jul 22 09:04	28° <b>Y</b> °19'38		opposition	14332 Nov 01 06:13	24° <b>8</b> 10'46	
opposition	14326 Oct 04 15:23	26° <b>Y</b> 17′00		min. Earth dist.	14332 Nov 01 08:48		17.72260 AU
min. Earth dist.	14326 Oct 04 20:31		17.46130 AU	direct	14333 Jan 16 15:01	22° <b>8</b> 07'02	
direct	14326 Dec 19 12:44	24° <b>Y</b> 12'03		evening set	14333 Apr 21 07:53	25° <b>8</b> 29'36	
evening set	14327 Mar 24 08:54	27° <b>Y</b> ′38′03					
				conjunction	14333 May 07 12:38	26° <b>8</b> 29'02	
conjunction	14327 Apr 09 18:22	28° <b>Y</b> 38'55		minimum elong	14333 May 07 12:37	26° <b>8</b> 29'02	
minimum elong	14327 Apr 09 18:21	28° <b>Y</b> 38′55	0°44'18	max. Earth dist.	14333 May 07 09:42	_	19.74823 AU
max. Earth dist.	14327 Apr 09 13:02		19.47826 AU	morning rise	14333 May 23 15:15	27° <b>8</b> 28'09	
morning rise	14327 Apr 26 01:42	29° <b>Y</b> ′39'29			14333 Jul 13 00:17	$\Pi$ °0	
	14327 May 01 17:50	$9^{\circ}$ 8		retrograde	14333 Aug 23 12:21	0° <b>Ⅱ</b> 45'50	
retrograde	14327 Jul 27 08:49	3° <b>8</b> 01'04			14333 Oct 05 04:50	30°₽ <b>႘</b>	
opposition	14327 Oct 09 14:22	0° <b>8</b> 58'41	-0°51'11	opposition	14333 Nov 06 03:19	28° <b>8</b> 44'43	-1°10'35
min. Earth dist.	14327 Oct 09 18:06	0° <b>8</b> 58'17	17.49652 AU	min. Earth dist.	14333 Nov 06 04:32	28° <b>8</b> 44'36	17.77480 AU
	14327 Nov 02 05:04	30° <b>ŖƳ</b>		direct	14334 Jan 21 14:58	26° <b>8</b> 41'11	
direct	14327 Dec 24 14:42	28° <b>Y</b> 53'56			14334 Apr 25 09:20	$\Pi$ $^{\circ}0$	
	14328 Feb 13 07:48	$0^{\circ}$ 8		evening set	14334 Apr 26 04:44	0° <b>Ⅱ</b> 02'54	
evening set	14328 Mar 28 10:24	2° <b>8</b> 19'34					
				conjunction	14334 May 12 08:53	1° <b>Ⅱ</b> 02'04	-1°04'12
conjunction	14328 Apr 13 19:08	3° <b>8</b> 20'14	-0°47'53	minimum elong	14334 May 12 08:53	1° <b>Ⅱ</b> 02'04	1°05'04
minimum elong	14328 Apr 13 19:08	3° <b>8</b> 20'14	0°48'21	max. Earth dist.	14334 May 12 07:40	1° <b>Ⅱ</b> 01'53	19.80131 AU
max. Earth dist.	14328 Apr 13 14:29	3° <b>8</b> 19'31	19.51554 AU	morning rise	14334 May 28 10:38	2° <b>Ⅱ</b> 00'54	
morning rise	14328 Apr 30 01:38	4° <b>8</b> 20'37		retrograde	14334 Aug 28 05:42	5° <b>Ⅱ</b> 17'49	
retrograde	14328 Jul 31 06:06	7° <b>8</b> 41'39		opposition	14334 Nov 10 23:57	3° <b>Ⅱ</b> 16'51	-1°12'18
opposition	14328 Oct 13 13:28	5° <b>8</b> 39'32	-0°55'26	min. Earth dist.	14334 Nov 11 01:20	3° <b>Ⅱ</b> 16'43	17.82878 AU
min. Earth dist.	14328 Oct 13 17:47	5° <b>8</b> 39'04	17.53584 AU	direct	14335 Jan 26 14:06	1° <b>Ⅱ</b> 13'30	
direct	14328 Dec 28 14:19	3° <b>8</b> 34'59		evening set	14335 May 01 00:58	4° <b>∏</b> 34′20	
evening set	14329 Apr 02 11:17	7° <b>8</b> 00'10					
				conjunction	14335 May 17 04:12	5° <b>Ⅲ</b> 33'12	-1°05'33
conjunction	14329 Apr 18 19:12	8° <b>8</b> 00'37	-0°51'31	minimum elong	14335 May 17 04:12	5° <b>Ⅱ</b> 33'12	1°06'27
minimum elong	14329 Apr 18 19:11	8° <b>8</b> 00'36	0°52'05	max. Earth dist.	14335 May 17 02:32	5° <b>Ⅱ</b> 32'57	19.85628 AU
max. Earth dist.	14329 Apr 18 14:41	7° <b>8</b> 59'54	19.55665 AU	morning rise	14335 Jun 02 05:26	6° <b>Ⅲ</b> 31'46	
morning rise	14329 May 05 00:57	9° <b>8</b> 00'45		retrograde	14335 Sep 01 22:41	9° <b>Ⅱ</b> 47'53	
retrograde	14329 Aug 05 04:56	12° <b>8</b> 21'13		opposition	14335 Nov 15 19:44	7° <b>Ⅱ</b> 47'04	-1°13'32
opposition	14329 Oct 18 12:08	10° <b>8</b> 19'19	-0°59'18	min. Earth dist.	14335 Nov 15 19:52	7° <b>Ⅱ</b> 47'03	17.88475 AU
min. Earth dist.	14329 Oct 18 14:59		17.57858 AU	direct	14336 Jan 31 12:31	5° <b>Ⅱ</b> 43'53	
direct	14330 Jan 02 15:31	8° <b>8</b> 14'59		evening set	14336 May 04 20:05	9° <b>Ⅱ</b> 03'48	
evening set	14330 Apr 07 11:30	11° <b>8</b> 39'38		-	-		
-	-			conjunction	14336 May 20 22:46	10° <b>Ⅱ</b> 02'23	-1°06'28
conjunction	14330 Apr 23 18:43	12° <b>8</b> 39'51	-0°54'49	minimum elong	14336 May 20 22:45	10° <b>Ⅱ</b> 02′23	
	=			-	-		

max. Earth dist.	14226 May 20, 22:02	10° <b>Ⅱ</b> 02'26 19.91	321 AU min. Earth dist.	14342 Dec 16 18:18	8°\$28'16 18.32272 A	A T T
morning rise	14336 May 20 23:02 14336 Jun 05 23:07	10 <b>H</b> 02 26 19.91 11° <b>H</b> 00'40	direct	14342 Dec 16 18.18 14343 Mar 04 00:06	6°\$26'40	10
retrograde	14336 Sep 05 14:46	14° <b>I</b> 15'58	evening set	14343 Jun 05 09:19	9°939'57	
opposition	14336 Nov 19 15:11	14 <b>H</b> 13 38 12° <b>H</b> 15'19 -1°14'	_	14343 Juli 03 09.19	9 93931	
min. Earth dist.	14336 Nov 19 15:11 14336 Nov 19 15:02	12° <b>I</b> 15'20 17.94		14343 Jun 21 07:33	10°\$36'36 -1°01'55	
direct	14337 Feb 04 10:03	12 <b>H</b> 1320 17.94 10° <b>H</b> 12'21	minimum elong	14343 Jun 21 07:33	10°936'36 1°02'58	
evening set		10 <b>П</b> 1221 13° <b>П</b> 31'19	max. Earth dist.	14343 Jun 21 12:13	10 \$3636 1 0238 10° \$37'18 20.35416 A	A T T
evening set	14337 May 09 14:18	13°Щ31′19				<b>1</b> U
	14227.14 25 16 02	1.40 <b>T2</b> 012 ( 100 (	morning rise	14343 Jul 07 04:29	11°933'05	
conjunction	14337 May 25 16:03	14° <b>Ⅲ</b> 29'36 -1°06'		14343 Oct 06 19:00	14°5643'21	
minimum elong	14337 May 25 16:03	14° <b>Ⅲ</b> 29'36 1°07'	11	14343 Dec 21 14:37	12°5544'18 -1°07'39	
max. Earth dist.	14337 May 25 16:10	14° <b>Ⅱ</b> 29'37 19.97		14343 Dec 21 09:41	12°5544'49 18.38561 A	ΑU
morning rise	14337 Jun 10 15:55	15° <b>Ⅲ</b> 27'36	direct	14344 Mar 07 14:24	10°543'32	
retrograde	14337 Sep 10 06:42	18° <b>Ⅲ</b> 42'08	evening set	14344 Jun 08 21:43	13° <b>©</b> 55'53	
opposition	14337 Nov 24 09:59	16° <b>Ⅱ</b> 41'38 -1°14'				
min. Earth dist.	14337 Nov 24 08:29	16° <b>Ⅱ</b> 41'48 18.00	J	14344 Jun 24 19:38	14°952'18 -0°59'50	
direct	14338 Feb 09 06:24	14° <b>Ⅱ</b> 38′54	minimum elong	14344 Jun 24 19:38	14°952'19 1°00'52	
evening set	14338 May 14 07:30	17° <b>Ⅱ</b> 56'55	max. Earth dist.	14344 Jun 25 01:26	14°953'10 20.41614 A	<b>A</b> U
			morning rise	14344 Jul 10 16:07	15° <b>©</b> 48'33	
conjunction	14338 May 30 08:45	18° <b>Ⅱ</b> 54'56 -1°07'	retrograde	14344 Oct 10 08:07	18° <b>©</b> 58'11	
minimum elong	14338 May 30 08:45	18° <b>Ⅱ</b> 54'56 1°08'	1.1	14344 Dec 25 05:33	16°959'20 -1°05'08	
max. Earth dist.	14338 May 30 10:54	18° <b>耳</b> 55′15 20.03	358 AU min. Earth dist.	14344 Dec 24 23:49	16°959'55 18.44644 A	٩U
morning rise	14338 Jun 15 07:51	19° <b>Ⅱ</b> 52'40	direct	14345 Mar 12 06:52	14° <b>9</b> 58'54	
retrograde	14338 Sep 14 21:41	23° <b>Ⅱ</b> 06′24	evening set	14345 Jun 13 09:22	18° <b>©</b> 10'18	
opposition	14338 Nov 29 04:05	21° <b>Ⅲ</b> 06′08 -1°14′	731			
min. Earth dist.	14338 Nov 29 01:59	21° <b>II</b> 06'21 18.06	520 AU conjunction	14345 Jun 29 06:44	19° <b>5</b> 06'29 -0°57'26	
direct	14339 Feb 14 02:00	19° <b>Ⅲ</b> 03'42	minimum elong	14345 Jun 29 06:44	19° <b>5</b> 06'29 0°58'27	
evening set	14339 May 18 23:59	22° <b>Ⅲ</b> 20′46	max. Earth dist.	14345 Jun 29 12:11	19° <b>5</b> 07'17 20.47579 A	٩U
C	,		morning rise	14345 Jul 15 03:02	20°502'31	
conjunction	14339 Jun 04 00:27	23° <b>Ⅱ</b> 18′29 -1°06′		14345 Oct 14 19:19	23° <b>©</b> 11'32	
minimum elong	14339 Jun 04 00:26	23° <b>I</b> I18'29 1°07'	_	14345 Dec 29 19:59	21°512'51 -1°02'18	
max. Earth dist.	14339 Jun 04 02:23	23° <b>I</b> 18'47 20.09	**	14345 Dec 29 14:32	21°513'25 18.50489 A	ΑU
morning rise	14339 Jun 19 23:10	24° <b>Ⅱ</b> 15'57	direct	14346 Mar 16 19:49	19° <b>©</b> 12'41	
retrograde	14339 Sep 19 12:46	27° <b>Ⅲ</b> 28'57	evening set	14346 Jun 17 20:16	22° <b>©</b> 23'10	
opposition	14339 Dec 03 21:41	25° <b>Ⅲ</b> 28'55 -1°13'	Č			
min. Earth dist.	14339 Dec 03 18:39	25° <b>Д</b> 20'33 1 13 25° <b>Д</b> 29'14 18.12		14346 Jul 03 17:25	23° <b>©</b> 19'07 -0°54'44	
direct	14340 Feb 18 20:17	23° <b>I</b> I26'48	minimum elong	14346 Jul 03 17:25	23°S19'07 0°55'44	
evening set	14340 May 22 15:26	26° <b>I</b> I42'55	max. Earth dist.	14346 Jul 03 23:42	23°S20'03 20.53285 A	114
evening set	14540 Way 22 15.20	20 11-12 33	morning rise	14346 Jul 19 13:25	24° <b>©</b> 14'57	10
conjunction	14340 Jun 07 15:26	27° <b>∏</b> 40′22 -1°06′	_	14346 Oct 19 07:18	27° <b>\$</b> 23'22	
minimum elong	14340 Jun 07 15:26	27° <b>I</b> I40'22 1°07'	•	14347 Jan 03 09:34	25°\$24'49 -0°59'08	
max. Earth dist.	14340 Jun 07 19:12	27° <b>II</b> 40'56 20.16	**	14347 Jan 03 03:19		A T T
morning rise		28° <b>I</b> 37'34				
morning rise	14340 Jun 23 13:29		J: 4		25°\$25'27 18.56036 A	10
retrograde			direct	14347 Mar 21 11:22	23° <b>5</b> 24'54	10
	14340 Jul 18 10:47	0ං <b>ව</b>	direct evening set			10
retrograde	14340 Jul 18 10:47 14340 Sep 23 02:59	0°ତ 1° <b>ତ</b> 49'51	evening set	14347 Mar 21 11:22 14347 Jun 22 06:34	23°\$24'54 26°\$34'28	10
	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58	0°© 1°©49'51 30°R∏	evening set conjunction	14347 Mar 21 11:22 14347 Jun 22 06:34 14347 Jul 08 03:18	23°\$24'54 26°\$34'28 27°\$30'13 -0°51'46	
opposition	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 14:44	0°⑤ 1°⑤49'51 30°R耳 29°耳50'05 -1°12'	evening set  conjunction minimum elong	14347 Mar 21 11:22 14347 Jun 22 06:34 14347 Jul 08 03:18 14347 Jul 08 03:18	23°\$24'54 26°\$34'28 27°\$30'13 -0°51'46 27°\$30'13 0°52'44	
opposition min. Earth dist.	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 14:44 14340 Dec 07 11:00	0°⑤ 1°⑤49'51 30°RⅡ 29°Ⅱ50'05 -1°12' 29°Ⅱ50'28 18.19	evening set  conjunction minimum elong max. Earth dist.	14347 Mar 21 11:22 14347 Jun 22 06:34 14347 Jul 08 03:18 14347 Jul 08 03:18 14347 Jul 08 09:11	23°\$24'54 26°\$34'28 27°\$30'13 -0°51'46 27°\$30'13 0°52'44 27°\$31'05 20.58686 A	
opposition	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 14:44 14340 Dec 07 11:00 14341 Feb 22 14:34	0°⑤ 1°⑤49'51 30°RⅡ 29°Ⅱ50'05 -1°12' 29°Ⅱ50'28 18.19 27°Ⅱ48'19	evening set  conjunction minimum elong	14347 Mar 21 11:22 14347 Jun 22 06:34 14347 Jul 08 03:18 14347 Jul 08 09:11 14347 Jul 08 09:11 14347 Jul 23 23:13	23°\$24'54 26°\$34'28 27°\$30'13 -0°51'46 27°\$30'13 0°52'44 27°\$31'05 20.58686 4 28°\$25'50	
opposition min. Earth dist. direct	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 14:44 14340 Dec 07 11:00 14341 Feb 22 14:34 14341 May 08 09:34	0°S 1°S49'51 30°R 1 29° II 50'05 -1°12' 29° II 50'28 18.19 27° II 48'19 0°S	conjunction minimum elong max. Earth dist. morning rise	14347 Mar 21 11:22 14347 Jun 22 06:34 14347 Jul 08 03:18 14347 Jul 08 03:18 14347 Jul 08 09:11 14347 Jul 23 23:13 14347 Aug 22 13:55	23°\$24'54 26°\$34'28 27°\$30'13 -0°51'46 27°\$30'13 0°52'44 27°\$31'05 20.58686 A 28°\$25'50 0°Ω	
opposition min. Earth dist.	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 14:44 14340 Dec 07 11:00 14341 Feb 22 14:34	0°⑤ 1°⑤49'51 30°RⅡ 29°Ⅱ50'05 -1°12' 29°Ⅱ50'28 18.19 27°Ⅱ48'19	evening set  conjunction minimum elong max. Earth dist.	14347 Mar 21 11:22 14347 Jun 22 06:34 14347 Jul 08 03:18 14347 Jul 08 09:11 14347 Jul 08 09:11 14347 Jul 23 23:13 14347 Aug 22 13:55 14347 Oct 23 17:24	23°\$24'54 26°\$34'28 27°\$30'13 -0°51'46 27°\$30'13 0°52'44 27°\$31'05 20.58686 A 28°\$25'50 0°\$\Omega\$ 1°\$\Omega\$3'41	
opposition min. Earth dist. direct evening set	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 14:44 14340 Dec 07 11:00 14341 Feb 22 14:34 14341 May 08 09:34 14341 May 27 06:15	0°⑤ 1°⑤49'51 30°R川 29°川50'05 -1°12' 29°川50'28 18.19 27°川48'19 0°⑤ 1°⑤03'29	conjunction minimum elong 369 AU max. Earth dist. morning rise retrograde	14347 Mar 21 11:22 14347 Jun 22 06:34 14347 Jul 08 03:18 14347 Jul 08 03:18 14347 Jul 08 09:11 14347 Jul 23 23:13 14347 Aug 22 13:55 14347 Oct 23 17:24 14347 Dec 28 16:43	23°\$24'54 26°\$34'28 27°\$30'13 -0°51'46 27°\$30'13 0°52'44 27°\$31'05 20.58686 A 28°\$25'50 0°\$\Omega\$1"\Omega\$3'41 30°\$\Omega\$	
opposition min. Earth dist. direct evening set conjunction	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 14:44 14340 Dec 07 11:00 14341 Feb 22 14:34 14341 May 08 09:34 14341 May 27 06:15	0°等 1°等49'51 30°R用 29°用50'05 -1°12' 29°用50'28 18.19 27°用48'19 0°等 1°等03'29	conjunction minimum elong 369 AU max. Earth dist. morning rise retrograde retrograde opposition	14347 Mar 21 11:22 14347 Jun 22 06:34 14347 Jul 08 03:18 14347 Jul 08 03:18 14347 Jul 08 09:11 14347 Jul 23 23:13 14347 Aug 22 13:55 14347 Oct 23 17:24 14347 Dec 28 16:43 14348 Jan 07 22:49	23°\$24'54 26°\$34'28 27°\$30'13 -0°51'46 27°\$30'13 0°52'44 27°\$31'05 20.58686 A 28°\$25'50 0°\$\Omega\$ 1°\$\Omega\$33'41 30°\$\Omega\$ 29°\$35'14 -0°55'41	<b>A</b> U
opposition min. Earth dist. direct evening set conjunction minimum elong	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 14:44 14340 Dec 07 11:00 14341 Feb 22 14:34 14341 May 08 09:34 14341 May 27 06:15 14341 Jun 12 05:31	0°S 1°S49'51 30°R II 29°II 50'05 -1°12' 29°II 50'28 18.19 27°II 48'19 0°S 1°S03'29  2°S00'39 -1°05' 2°S00'39 1°06'	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	14347 Mar 21 11:22 14347 Jun 22 06:34 14347 Jul 08 03:18 14347 Jul 08 09:11 14347 Jul 08 09:11 14347 Jul 23 23:13 14347 Aug 22 13:55 14347 Oct 23 17:24 14347 Dec 28 16:43 14348 Jan 07 22:49 14348 Jan 07 17:02	23°\$24'54 26°\$34'28 27°\$30'13 -0°51'46 27°\$30'13 0°52'44 27°\$31'05 20.58686 A 28°\$25'50 0°\$\Omega\$ 1°\$\Omega\$33'41 30°\$\Omega\$ 29°\$35'14 -0°55'41 29°\$35'49 18.61294 A	<b>A</b> U
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 14:44 14340 Dec 07 11:00 14341 Feb 22 14:34 14341 May 08 09:34 14341 Jun 12 05:31 14341 Jun 12 05:31 14341 Jun 12 05:31	0°S 1°S49'51 30°RП 29°П50'05 -1°12' 29°П50'28 18.19 27°П48'19 0°S 1°S03'29  2°S00'39 -1°05' 2°S00'39 1°06' 2°S01'11 20.22	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	14347 Mar 21 11:22 14347 Jun 22 06:34 14347 Jul 08 03:18 14347 Jul 08 09:11 14347 Jul 08 09:11 14347 Jul 23 23:13 14347 Aug 22 13:55 14347 Oct 23 17:24 14347 Dec 28 16:43 14348 Jan 07 22:49 14348 Jan 07 17:02 14348 Mar 24 23:20	23°\$24'54 26°\$34'28 27°\$30'13 -0°51'46 27°\$30'13 0°52'44 27°\$31'05 20.58686 A 28°\$25'50 0°\$\Omega\$ 1°\$\Omega\$33'41 30°\$\Omega\$ 29°\$35'14 -0°55'41 29°\$35'39 18.61294 A 27°\$35'31	<b>A</b> U
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 14:44 14340 Dec 07 11:00 14341 Feb 22 14:34 14341 May 08 09:34 14341 Jun 12 05:31 14341 Jun 12 05:31 14341 Jun 12 09:03 14341 Jun 28 03:14	0°S 1°S49'51 30°R II 29°II 50'05 -1°12' 29°II 50'28 18.19 27°II 48'19 0°S 1°S03'29  2°S00'39 -1°05' 2°S00'39 1°06' 2°S01'11 20.22 2°S57'37	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	14347 Mar 21 11:22 14347 Jun 22 06:34  14347 Jul 08 03:18 14347 Jul 08 09:11 14347 Jul 08 09:11 14347 Jul 23 23:13 14347 Aug 22 13:55 14347 Oct 23 17:24 14347 Dec 28 16:43 14348 Jan 07 22:49 14348 Jan 07 17:02 14348 Mar 24 23:20 14348 Jun 12 11:00	23°\$24'54 26°\$34'28 27°\$30'13	<b>A</b> U
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 14:44 14340 Dec 07 11:00 14341 Feb 22 14:34 14341 May 08 09:34 14341 Jun 12 05:31 14341 Jun 12 05:31 14341 Jun 12 09:03 14341 Jun 28 03:14 14341 Sep 27 16:53	0°\$\text{0}\$1°\$49'51 30°\$\text{II}\$29°\$\text{I}50'05 -1°12' 29°\$\text{I}50'28 18.19 27°\$\text{I}48'19 0°\$\text{0}\$1°\$\text{903'29}  2°\$\text{900'39} -1°05' 2°\$\text{01'11} 20.22 2°\$\text{57'37} 6°\$\text{909'13}	evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set	14347 Mar 21 11:22 14347 Jun 22 06:34 14347 Jul 08 03:18 14347 Jul 08 09:11 14347 Jul 08 09:11 14347 Jul 23 23:13 14347 Aug 22 13:55 14347 Oct 23 17:24 14347 Dec 28 16:43 14348 Jan 07 22:49 14348 Jan 07 17:02 14348 Mar 24 23:20	23°\$24'54 26°\$34'28 27°\$30'13 -0°51'46 27°\$30'13 0°52'44 27°\$31'05 20.58686 A 28°\$25'50 0°\$\Omega\$ 1°\$\Omega\$33'41 30°\$\Omega\$ 29°\$35'14 -0°55'41 29°\$35'39 18.61294 A 27°\$35'31	<b>A</b> U
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 11:00 14341 Feb 22 14:34 14341 May 08 09:34 14341 Jun 12 05:31 14341 Jun 12 05:31 14341 Jun 12 09:03 14341 Jun 28 03:14 14341 Sep 27 16:53 14341 Dec 12 07:17	0°\$\text{0}\$1°\$49'51 30°\$\text{II}\$29°\$\text{I}50'05 -1°12' 29°\$\text{I}50'28 18.19 27°\$\text{I}48'19 0°\$\text{0}\$1°\$\text{303'29}  2°\$\text{000'39} -1°05' 2°\$\text{001'11} 20.22 2°\$\text{57'37} 6°\$\text{090'13} 4°\$\text{090'41} -1°11'	evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct evening set	14347 Mar 21 11:22 14347 Jun 22 06:34  14347 Jul 08 03:18 14347 Jul 08 03:18 14347 Jul 08 09:11 14347 Jul 23 23:13 14347 Aug 22 13:55 14347 Oct 23 17:24 14347 Dec 28 16:43 14348 Jan 07 22:49 14348 Jan 07 17:02 14348 Mar 24 23:20 14348 Jun 12 11:00 14348 Jun 25 15:52	23°\$24'54 26°\$34'28 27°\$30'13	<b>A</b> U
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 14:44 14340 Dec 07 11:00 14341 Feb 22 14:34 14341 May 08 09:34 14341 Jun 12 05:31 14341 Jun 12 05:31 14341 Jun 12 09:03 14341 Jun 28 03:14 14341 Sep 27 16:53	0°\$\text{0}\$1°\$49'51 30°\$\text{II}\$29°\$\text{I}50'05 -1°12' 29°\$\text{I}50'28 18.19 27°\$\text{I}48'19 0°\$\text{0}\$1°\$\text{903'29}  2°\$\text{900'39} -1°05' 2°\$\text{01'11} 20.22 2°\$\text{57'37} 6°\$\text{909'13}	evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct evening set  25  860 AU  conjunction	14347 Mar 21 11:22 14347 Jun 22 06:34 14347 Jul 08 03:18 14347 Jul 08 09:11 14347 Jul 23 23:13 14347 Aug 22 13:55 14347 Oct 23 17:24 14347 Dec 28 16:43 14348 Jan 07 22:49 14348 Mar 24 23:20 14348 Jun 12 11:00 14348 Jun 25 15:52	23°\$24'54 26°\$34'28 27°\$30'13	<b>A</b> U
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 11:00 14341 Feb 22 14:34 14341 May 08 09:34 14341 Jun 12 05:31 14341 Jun 12 05:31 14341 Jun 12 09:03 14341 Jun 28 03:14 14341 Sep 27 16:53 14341 Dec 12 07:17	0°\$\text{0.50}\$\text{1.00}\$\text{0.00}\$\text{0.00}\$\text{1.00}\$\text{0.00}\$\text{0.00}\$\text{1.00}\$\text{0.00}\$\text{0.00}\$\text{1.00}\$\text{0.00}\$\te	conjunction minimum elong max. Earth dist. morning rise retrograde retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	14347 Mar 21 11:22 14347 Jun 22 06:34  14347 Jul 08 03:18 14347 Jul 08 03:18 14347 Jul 08 09:11 14347 Jul 23 23:13 14347 Aug 22 13:55 14347 Oct 23 17:24 14347 Dec 28 16:43 14348 Jan 07 22:49 14348 Jan 07 17:02 14348 Mar 24 23:20 14348 Jun 12 11:00 14348 Jun 25 15:52  14348 Jul 11 12:25 14348 Jul 11 12:26	23°\$24'54 26°\$34'28 27°\$30'13	AU AU
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 11:00 14341 Feb 22 14:34 14341 May 08 09:34 14341 Jun 12 05:31 14341 Jun 12 05:31 14341 Jun 12 09:03 14341 Jun 28 03:14 14341 Sep 27 16:53 14341 Dec 12 07:17 14341 Dec 12 07:17	0°\$\text{0.50}\$\text{1.00}\$\text{0.00}\$\text{0.00}\$\text{1.00}\$\text{0.00}\$\text{0.00}\$\text{1.00}\$\text{0.00}\$\text{0.00}\$\text{1.00}\$\text{0.00}\$\te	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	14347 Mar 21 11:22 14347 Jun 22 06:34 14347 Jul 08 03:18 14347 Jul 08 09:11 14347 Jul 23 23:13 14347 Aug 22 13:55 14347 Oct 23 17:24 14347 Dec 28 16:43 14348 Jan 07 22:49 14348 Mar 24 23:20 14348 Jun 12 11:00 14348 Jun 25 15:52	23°\$24'54 26°\$34'28 27°\$30'13	AU AU
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 11:00 14341 Feb 22 14:34 14341 May 08 09:34 14341 Jun 12 05:31 14341 Jun 12 05:31 14341 Jun 12 09:03 14341 Jun 28 03:14 14341 Sep 27 16:53 14341 Dec 12 07:17 14341 Dec 12 03:03 14342 Feb 27 06:49	0°% 1°%49'51 30°RII 29°II 50'05 -1°12' 29°II 50'28 18.19 27°II 48'19 0°% 1°%03'29  2°%00'39 -1°05' 2°%00'39 1°06' 2°%01'11 20.22 2°%57'37 6°%09'13 4°%09'41 -1°11' 4°%10'07 18.25 2°%08'15 5°%22'29	evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  35  860 AU  conjunction minimum elong max. Earth dist. morning rise	14347 Mar 21 11:22 14347 Jun 22 06:34  14347 Jul 08 03:18 14347 Jul 08 03:18 14347 Jul 08 09:11 14347 Jul 23 23:13 14347 Aug 22 13:55 14347 Oct 23 17:24 14347 Dec 28 16:43 14348 Jan 07 22:49 14348 Jan 07 17:02 14348 Mar 24 23:20 14348 Jun 12 11:00 14348 Jun 25 15:52  14348 Jul 11 12:25 14348 Jul 11 12:26 14348 Jul 11 19:12 14348 Jul 27 08:09	23°\$24'54 26°\$34'28  27°\$30'13	AU AU
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 11:00 14341 Feb 22 14:34 14341 May 08 09:34 14341 Jun 12 05:31 14341 Jun 12 05:31 14341 Jun 12 09:03 14341 Jun 28 03:14 14341 Sep 27 16:53 14341 Dec 12 07:17 14341 Dec 12 07:17 14341 Dec 12 07:01 14342 May 31 20:01	0°\$\text{0.50}\$\text{1.00}\$\text{0.00}\$\text{0.00}\$\text{1.00}\$\text{0.00}\$\text{0.00}\$\text{1.00}\$\text{0.00}\$\text{0.00}\$\text{1.00}\$\text{0.00}\$\te	conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  set  conjunction minimum elong max. Earth dist.  direct  evening set  set  set  set  set  set  set  set	14347 Mar 21 11:22 14347 Jun 22 06:34  14347 Jul 08 03:18 14347 Jul 08 03:18 14347 Jul 08 09:11 14347 Jul 23 23:13 14347 Aug 22 13:55 14347 Oct 23 17:24 14347 Dec 28 16:43 14348 Jan 07 22:49 14348 Jan 07 17:02 14348 Mar 24 23:20 14348 Jun 12 11:00 14348 Jun 12 11:00 14348 Jul 11 12:25 14348 Jul 11 12:26 14348 Jul 11 19:12 14348 Jul 27 08:09 14348 Oct 27 03:42	23°\$24'54 26°\$34'28 27°\$30'13	AU AU
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 11:00 14341 Feb 22 14:34 14341 May 08 09:34 14341 Jun 12 05:31 14341 Jun 12 05:31 14341 Jun 12 09:03 14341 Jun 28 03:14 14341 Sep 27 16:53 14341 Dec 12 07:17 14341 Dec 12 07:17 14341 Dec 12 07:01	0°% 1°%49'51 30°RII 29°II 50'05 -1°12' 29°II 50'28 18.19 27°II 48'19 0°% 1°%03'29  2°%00'39 -1°05' 2°%00'39 1°06' 2°%01'11 20.22 2°%57'37 6°%09'13 4°%09'41 -1°11' 4°%10'07 18.25 2°%08'15 5°%22'29	conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  set  conjunction minimum elong max. Earth dist. morning rise  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	14347 Mar 21 11:22 14347 Jun 22 06:34  14347 Jul 08 03:18 14347 Jul 08 03:18 14347 Jul 08 09:11 14347 Jul 23 23:13 14347 Aug 22 13:55 14347 Oct 23 17:24 14347 Dec 28 16:43 14348 Jan 07 22:49 14348 Jan 07 17:02 14348 Mar 24 23:20 14348 Jun 12 11:00 14348 Jun 25 15:52  14348 Jul 11 12:25 14348 Jul 11 12:26 14348 Jul 11 19:12 14348 Jul 27 08:09	23°\$24'54 26°\$34'28  27°\$30'13	AU AU
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 11:00 14341 Feb 22 14:34 14341 May 08 09:34 14341 Jun 12 05:31 14341 Jun 12 05:31 14341 Jun 12 09:03 14341 Jun 28 03:14 14341 Sep 27 16:53 14341 Dec 12 07:17 14341 Dec 12 07:17 14341 Dec 12 07:01 14342 May 31 20:01	0°S 1°S49'51 30°R II 29°II 50'05 -1°12' 29°II 50'28 18.19 27°II 48'19 0°S 1°S03'29  2°S00'39 -1°06' 2°S01'11 20.22 2°S57'37 6°S09'13 4°S09'41 -1°11' 4°S10'07 18.25 2°S08'15 5°S22'29	conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition minimum elong max. Earth dist. morning rise retrograde opposition on min. Earth dist.	14347 Mar 21 11:22 14347 Jun 22 06:34  14347 Jul 08 03:18 14347 Jul 08 03:18 14347 Jul 08 09:11 14347 Jul 23 23:13 14347 Aug 22 13:55 14347 Oct 23 17:24 14347 Dec 28 16:43 14348 Jan 07 22:49 14348 Jan 07 17:02 14348 Mar 24 23:20 14348 Jun 12 11:00 14348 Jun 12 11:00 14348 Jul 11 12:25 14348 Jul 11 12:26 14348 Jul 11 19:12 14348 Jul 27 08:09 14348 Oct 27 03:42	23°\$24'54 26°\$34'28  27°\$30'13	AU AU
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 14:44 14340 Dec 07 11:00 14341 Feb 22 14:34 14341 May 08 09:34 14341 Jun 12 05:31 14341 Jun 12 05:31 14341 Jun 12 09:03 14341 Jun 28 03:14 14341 Sep 27 16:53 14341 Dec 12 07:17 14341 Dec 12 07:17 14341 Dec 12 03:03 14342 Feb 27 06:49 14342 Jun 16 18:54 14342 Jun 16 18:54	0°\$\text{1} \cdot \text{9'51} \\ 30°\$\text{II} \\ 29°\text{I50'05} \cdot -1°12' \\ 29°\text{I50'28} \\ 18.19 \\ 27°\text{I48'19} \\ 0°\$\text{1} \cdot \text{903'29} \\ 2°\$\text{900'39} \cdot -1°05' \\ 2°\$\text{900'39} \cdot 1°06' \\ 2°\$\text{901'11} \cdot 20.22 \\ 2°\$\text{57'37} \\ 6°\$\text{909'13} \\ 4°\$\text{909'41} \cdot -1°11' \\ 4°\$\text{910'07} \cdot 18.25 \\ 2°\$\text{908'15} \\ 5°\$\text{922'29} \\ 6°\$\text{19'24} \cdot -1°03' \\ 6°\$\text{19'24} \cdot 1°04' \\ 6°\$\text{19'24} \cdot 1°04'	conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  set  conjunction min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde  opposition	14347 Mar 21 11:22 14347 Jun 22 06:34  14347 Jul 08 03:18 14347 Jul 08 03:18 14347 Jul 08 09:11 14347 Jul 23 23:13 14347 Aug 22 13:55 14347 Oct 23 17:24 14347 Dec 28 16:43 14348 Jan 07 22:49 14348 Jan 07 17:02 14348 Mar 24 23:20 14348 Jun 12 11:00 14348 Jun 12 11:00 14348 Jul 11 12:25 14348 Jul 11 12:25 14348 Jul 11 12:26 14348 Jul 11 19:12 14348 Jul 27 08:09 14348 Oct 27 03:42 14349 Jan 11 11:26	23°\$24'54 26°\$34'28  27°\$30'13	AU AU
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 14:44 14340 Dec 07 11:00 14341 Feb 22 14:34 14341 May 08 09:34 14341 Jun 12 05:31 14341 Jun 12 05:31 14341 Jun 12 09:03 14341 Jun 28 03:14 14341 Sep 27 16:53 14341 Dec 12 07:17 14341 Dec 12 07:17 14341 Dec 12 03:03 14342 Feb 27 06:49 14342 Jun 16 18:54 14342 Jun 16 18:54 14342 Jun 16 18:54	0°\$\text{0}\$ 1°\$\text{49'51}\$ 30°\$\text{II}\$ 29°\$\text{I50'05}\$ -1°12' 29°\$\text{I50'28}\$ 18.19 27°\$\text{I48'19}\$ 0°\$\text{0}\$ 1°\$\text{03'29}\$  2°\$\text{00'39}\$ -1°05' 2°\$\text{01'11}\$ 20.22 2°\$\text{57'37}\$ 6°\$\text{09'41}\$ -1°11' 4°\$\text{10'07}\$ 18.25 2°\$\text{08'15}\$ 5°\$\text{22'29}\$  6°\$\text{19'24}\$ -1°03' 6°\$\text{19'24}\$ 1°04' 6°\$\text{20'09}\$ 20.29	conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition minimum elong max. Earth dist. morning rise retrograde opposition on min. Earth dist.	14347 Mar 21 11:22 14347 Jun 22 06:34  14347 Jul 08 03:18 14347 Jul 08 09:11 14347 Jul 08 09:11 14347 Jul 23 23:13 14347 Aug 22 13:55 14347 Oct 23 17:24 14347 Dec 28 16:43 14348 Jan 07 22:49 14348 Jan 07 17:02 14348 Mar 24 23:20 14348 Jun 12 11:00 14348 Jun 12 11:00 14348 Jul 11 12:25 14348 Jul 11 12:25 14348 Jul 11 12:26 14348 Jul 27 08:09 14348 Oct 27 03:42 14349 Jan 11 11:26 14349 Jan 11 11:26	23°\$24'54 26°\$34'28  27°\$30'13	AU AU
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	14340 Jul 18 10:47 14340 Sep 23 02:59 14340 Dec 03 14:58 14340 Dec 07 11:00 14341 Feb 22 14:34 14341 May 08 09:34 14341 Jun 12 05:31 14341 Jun 12 05:31 14341 Jun 12 09:03 14341 Jun 28 03:14 14341 Sep 27 16:53 14341 Dec 12 07:17 14341 Dec 12 07:17 14341 Dec 12 03:03 14342 Feb 27 06:49 14342 Jun 16 18:54 14342 Jun 16 18:54 14342 Jun 16 18:54 14342 Jun 16 23:58 14342 Jul 02 16:07	0°\$\text{1} \cdot \text{9'51} \\ 30°\$\text{II} \\ 29°\$\text{I50'05} \cdot \cdot \text{1} \\ 29°\$\text{I50'28} \\ 18.19 \\ 27°\$\text{I48'19} \\ 0°\$\text{1} \cdot \text{903'29} \\ 2°\$\text{900'39} \cdot \text{1} \\ 2°\$\text{900'39} \cdot \text{1} \\ 2°\$\text{900'39} \cdot \text{1} \\ 2°\$\text{901'11} \cdot \text{20.22} \\ 2°\$\text{957'37} \\ 6°\$\text{909'41} \cdot \cdot \text{1} \\ 4°\$\text{90'41} \cdot \cdot \text{1} \\ 4°\$\text{910'07} \cdot \text{18.25} \\ 2°\$\text{908'15} \\ 5°\$\text{22'29} \\ 6°\$\text{19'24} \cdot \cdot \text{1} \\ 6°\$\text{919'24} \cdot \cdot \text{1} \\ 6°\$\text{920'09} \cdot \text{20.29} \\ 7°\$\text{16'06} \\	conjunction minimum elong max. Earth dist. morning rise  retrograde  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 opposition retrograde opposition opposition min. Earth dist. direct evening set	14347 Mar 21 11:22 14347 Jul 08 03:18 14347 Jul 08 03:18 14347 Jul 08 09:11 14347 Jul 23 23:13 14347 Aug 22 13:55 14347 Oct 23 17:24 14348 Jan 07 22:49 14348 Jan 07 17:02 14348 Mar 24 23:20 14348 Jul 11 12:25 14348 Jul 11 12:25 14348 Jul 11 12:25 14348 Jul 11 12:26 14348 Jul 11 19:12 14348 Jul 27 08:09 14348 Oct 27 03:42 14349 Jan 11 11:26 14349 Jan 11 04:31 14349 Mar 29 14:00	23°\$24'54 26°\$34'28  27°\$30'13	AU AU

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conjunction	14349 Jul 15 20:52	5° <b>Ω</b> 47'40 -	0°45'05	minimum elong	14355 Aug 09 13:27	0° mp 10'16	0°21'09
minimum elong	14349 Jul 15 20:52	5° <b>Ω</b> 47'40	0°45'59	max. Earth dist.	14355 Aug 09 22:38	-	20.92798 AU
max. Earth dist.	14349 Jul 16 03:38	5° <b>Ω</b> 48'40 2	20.68647 AU	morning rise	14355 Aug 25 09:27	1° <b>m</b> )04'49	
morning rise	14349 Jul 31 16:35	6° <b>Ω</b> 42'57		retrograde	14355 Nov 25 14:34	4° <b>m</b> 09'41	
retrograde	14349 Oct 31 13:04	9° <b>Ω</b> 49'44		opposition	14356 Feb 10 14:39	2° m/11'45	-0°20'14
opposition	14350 Jan 15 23:31	7° <b>Ω</b> 51'22 -	0°47'59	min. Earth dist.	14356 Feb 10 06:07	2° m 12'37	18.94318 AU
min. Earth dist.	14350 Jan 15 16:57	7° <b>Ω</b> 52'02 1	18.71002 AU	direct	14356 Apr 27 11:48	0° Mp 13'46	
direct	14350 Apr 03 00:40	5° <b>Ω</b> 52'03		evening set	14356 Jul 27 23:25	3°M)16'51	
evening set	14350 Jul 04 08:37	8° <b>Ω</b> 58'59					
				conjunction	14356 Aug 12 19:06	4°M)11'16	-0°16'01
conjunction	14350 Jul 20 04:44	9° <b>Ω</b> 54'09 -	0°41'24	minimum elong	14356 Aug 12 19:07	4° Mp 11'16	0°16'34
minimum elong	14350 Jul 20 04:45	9° <b>Ω</b> 54'10	0°42'17	max. Earth dist.	14356 Aug 13 04:36	4° Mp 12'38	20.95730 AU
max. Earth dist.	14350 Jul 20 12:25	9° <b>Ω</b> 55'17 2	20.73276 AU	morning rise	14356 Aug 28 15:14	5° <b>m</b> 05'45	
morning rise	14350 Aug 05 00:22	10° <b>Ω</b> 49'16		retrograde	14356 Nov 28 23:42	8° <b>m</b> 10'30	
retrograde	14350 Nov 04 22:05	13° <b>Ω</b> 55'35		opposition	14357 Feb 14 00:06	6° Mp 12′38	-0°15'11
opposition	14351 Jan 20 10:59	11° <b>Ω</b> 57'17 -	0°43'47	min. Earth dist.	14357 Feb 13 14:34	6° Mp 13′35	18.97029 AU
min. Earth dist.	14351 Jan 20 03:02	11° <b>Ω</b> 58'05 1	18.75514 AU	direct	14357 May 01 21:01	4° <b>™</b> 14'50	
direct	14351 Apr 07 13:34	9° <b>Ω</b> 58′10		evening set	14357 Aug 01 05:02	7° <b>m</b> ,17′29	
evening set	14351 Jul 08 16:11	13° <b>Ω</b> 04'19					
				conjunction	14357 Aug 17 00:43	8° <b>m</b> 11'49	-0°11'26
conjunction	14351 Jul 24 12:02	13° <b>Ω</b> 59′20 -	0°37'32	minimum elong	14357 Aug 17 00:43	8° <b>m</b> 11'49	0°11'56
minimum elong	14351 Jul 24 12:03	13° <b>Ω</b> 59′20	0°38'21	behind sun begin	14357 Aug 16 20:08	8° <b>m</b> )11'11	
max. Earth dist.	14351 Jul 24 19:49	14° <b>Ω</b> 00′28 2	20.77681 AU	behind sun end	14357 Aug 17 05:18	8° Mp 12'28	
morning rise	14351 Aug 09 07:41	14° <b>Ω</b> 54'18		max. Earth dist.	14357 Aug 17 09:57		20.98209 AU
	14351 Aug 10 23:50	15° <b>Ω</b>		morning rise	14357 Sep 01 21:05	9° <b>m</b> 06'16	
retrograde	14351 Nov 09 06:29	18° <b>Ω</b> 00′13		retrograde	14357 Dec 03 06:17	12° <b>m</b> 10'55	
opposition	14352 Jan 24 22:05	16° <b>Ω</b> 01'59 -		opposition	14358 Feb 18 09:21	10° <b>m</b> 13'05	
min. Earth dist.	14352 Jan 24 14:31	16° <b>Ω</b> 02'44 1	18.79820 AU	min. Earth dist.	14358 Feb 18 01:05		18.99279 AU
	14352 Feb 20 20:46	15°R <b>Ω</b>		direct	14358 May 06 03:39	8° Mp 15'27	
direct	14352 Apr 10 23:12	14° <b>Ω</b> 03'05		evening set	14358 Aug 05 10:27	11° <b>m</b> 17'43	
	14352 May 29 05:14	15° <b>Ω</b>					
evening set	14352 Jul 11 23:08	17° <b>Ω</b> 08'31		conjunction	14358 Aug 21 06:18	12° <b>m</b> 12'00	
		_		minimum elong	14358 Aug 21 06:18	12° <b>m</b> 12'00	0°07'14
conjunction	14352 Jul 27 18:57	18° <b>Ω</b> 03'22 -		behind sun begin	14358 Aug 21 00:15	12° <b>m</b> 11'09	
minimum elong	14352 Jul 27 18:57	18° <b>Ω</b> 03'22		behind sun end	14358 Aug 21 12:21	12° <b>m</b> ) 12'51	
max. Earth dist.	14352 Jul 28 03:32	18° <b>Ω</b> 04'37 2	20.81882 AU	max. Earth dist.	14358 Aug 21 15:23	-•	21.00210 AU
morning rise	14352 Aug 12 14:35	18° <b>Ω</b> 58'13		morning rise	14358 Sep 06 02:52	13° Mp 06'24	
retrograde	14352 Nov 12 15:14	22° <b>Ω</b> 03'47		retrograde	14358 Dec 07 15:23	16° <b>m</b> )11'01	
opposition	14353 Jan 28 08:42	20° <b>Ω</b> 05'37 -		opposition	14359 Feb 22 18:21	14° <b>m</b> ) 13'11	
min. Earth dist.	14353 Jan 27 23:43	20° <b>Ω</b> 06'31 1	18.83894 AU	min. Earth dist.	14359 Feb 22 09:19		19.01010 AU
direct	14353 Apr 15 10:08	18° <b>Ω</b> 06'57		direct	14359 May 10 12:24	12° m 15'41	
evening set	14353 Jul 16 05:37	21° <b>Ω</b> 11'42		evening set	14359 Aug 09 15:47	15° Mp 17'36	
	14252 4 01 01 10	222 0 2 2 2 2	002011.7		14250 4 25 11 41	1.60 m. 1.1151	0002100
conjunction	14353 Aug 01 01:18	22°\O6'26 -		conjunction	14359 Aug 25 11:41	16° Mp 11'51	
minimum elong	14353 Aug 01 01:19	22° <b>Ω</b> 06'26		minimum elong	14359 Aug 25 11:41	16° Mp 11'51	0°02'30
max. Earth dist.	14353 Aug 01 10:01	22° <b>Ω</b> 07'41 2	20.85827 AU	behind sun begin	14359 Aug 25 05:06	16° Mp 10'56	
morning rise	14353 Aug 16 21:04	23° <b>Ω</b> 01'10		behind sun end max. Earth dist.	14359 Aug 25 18:15	16° Mp 12'46	21 01662 411
retrograde opposition	14353 Nov 16 22:45 14354 Feb 01 19:05	26° <b>Ω</b> 06'27 24° <b>Ω</b> 08'22 -	0°30'04	max. Earth dist. morning rise	14359 Aug 25 20:16 14359 Sep 10 08:30	16° IID 13'04 17° ID 06'14	21.01663 AU
min. Earth dist.	14354 Feb 01 19:05	24°Ω09'13 1		_	14359 Dec 11 21:44	-	
direct	14354 Apr 19 18:39	24 8€09 13 1 22°Ω09'56	16.67704 AU	retrograde asc. node	14360 Feb 09 10:36	20° Mp 10'51 18° Mp 54'30	
evening set	14354 Jul 20 11:49	25° <b>Ω</b> 14'05		opposition	14360 Feb 27 03:22	18° <b>m</b> ) 12'59	0°00'16
evening set	14334 Jul 20 11.49	23 661403		min. Earth dist.	14360 Feb 26 19:40		19.02197 AU
conjunction	14354 Aug 05 07:32	26° <b>Ω</b> 08'41 -	0024150	direct	14360 May 13 18:55	16° M) 15'34	19.02197 AU
minimum elong	14354 Aug 05 07:32	26°Ω08'41		evening set	14360 May 13 18.33	10 mg 13 34 19°mg 17'10	
max. Earth dist.	14354 Aug 05 16:46	$26^{\circ}\Omega 10'01 2$		evening set	14300 Aug 12 20.36	19 11/10	
morning rise	14354 Aug 03 10.40	$20^{\circ} \Omega_{1001}$ 2 $27^{\circ} \Omega_{03'19}$	20.07707 AU	conjunction	14360 Aug 28 17:04	20° m) 11'23	0°02'39
	14354 Nov 03 00:13	0°M)		minimum elong	14360 Aug 28 17:04	20° m) 11'23	0°02'39
retrograde	14354 Nov 21 07:36	0°Mp08′22		behind sun begin	14360 Aug 28 17:04 14360 Aug 28 10:30	20° m) 10'28	0 04 44
renograde	14354 Dec 09 18:07	0 11/08 22 30°RΩ		behind sun end	14360 Aug 28 23:39	20° m) 12'18	
opposition	14354 Dec 09 18:07 14355 Feb 06 04:49	30 και 28°Ω10'22 -	0°25'12	max. Earth dist.	14360 Aug 28 23.39 14360 Aug 29 01:26	-•	21.02588 AU
min. Earth dist.	14355 Feb 06 04.49	28° <b>Ω</b> 11'19 1		morning rise	14360 Aug 29 01.26 14360 Sep 13 14:11	20 m 05'46	21.02300 AU
direct	14355 Apr 24 04:25	26° <b>Ω</b> 12'09	10.71171 AU	retrograde	14360 Sep 13 14.11 14360 Dec 15 06:27	24° m) 10'24	
evening set	14355 Jul 24 17:50	20° <b>Ω</b> 15'45		opposition	14361 Mar 02 12:00	24 m/10 24 22° m/12'28	0°05'26
t tolling set	14355 Aug 06 14:35	0°M)		min. Earth dist.	14361 Mar 02 03:32		19.02851 AU
	1 1555 1145 00 14.55	עייי		direct	14361 May 18 03:11	20° m 15'06	17.02001 AU
conjunction	14355 Aug 09 13:27	0° mp 10'15 -	0°20'32	evening set	14361 Aug 17 02:01	20° m) 16'25	
conjunction	17333 Aug 07 13.41	0 IVIVI VII	0 20 32	evening set	17301 Aug 1/ 02.01	22 10 براا دے	

14367 Sep 10 09:13

evening set

17°**£**11'53

max. Earth dist.

morning rise

14373 Oct 20 09:01

14373 Nov 05 08:19

12°M25'29

13°M20'42

20.77222 AU

	14373 Dec 07 07:14	15° <b>M</b> ₊		opposition	14380 May 20 00:50	9° <b>√</b> 31'18	1°13'49
retrograde	14374 Feb 07 04:12	16°M29'58		min. Earth dist.	14380 May 20 00:50		18.41304 AU
retrograde	14374 Apr 12 23:43	15°RM		direct	14380 Aug 03 04:52	7° <b>∡</b> 31'41	10.11501710
opposition	14374 Apr 25 05:51	14°M30'20	1°02'05	evening set	14380 Nov 02 09:08	10° <b>₹</b> 39'34	
min. Earth dist.	14374 Apr 25 03:10		18.74861 AU	<i>3</i>			
direct	14374 Jul 09 18:58	12°M32'17		conjunction	14380 Nov 18 13:55	11° <b>∡</b> ³36'34	1°06'49
	14374 Sep 27 18:17	15°M		minimum elong	14380 Nov 18 13:54	11° <b>∡</b> ³36'34	1°07'47
evening set	14374 Oct 08 13:56	15°M35'58		max. Earth dist.	14380 Nov 18 13:14	11° <b>∡</b> ³36′28	20.38280 AU
C				morning rise	14380 Dec 04 20:57	12° <b>∡</b> ³33'55	
conjunction	14374 Oct 24 15:07	16°M31'33	0°57'20	retrograde	14381 Mar 09 02:41	15° <b>∡</b> ¹47'57	
minimum elong	14374 Oct 24 15:06	16°M31'33	0°58'00	opposition	14381 May 24 13:35	13° <b>∡</b> ⁴46'39	1°14'27
max. Earth dist.	14374 Oct 24 17:35	16°M31'54	20.72371 AU	min. Earth dist.	14381 May 24 13:38	13° <b>∡</b> ′46′38	18.35290 AU
morning rise	14374 Nov 09 18:33	17° <b>M</b> 27'28		direct	14381 Aug 07 17:02	11° <b>∡</b> ⁴46'47	
retrograde	14375 Feb 11 17:14	20°M37'20		evening set	14381 Nov 06 23:00	14° <b>₹</b> 55'34	
opposition	14375 Apr 29 16:05	18°M37'25	1°04'54				
min. Earth dist.	14375 Apr 29 13:16	18°M37'43	18.69825 AU	conjunction	14381 Nov 23 04:31	15° <b>₹</b> 52'51	1°07'11
direct	14375 Jul 14 04:12	16°M39'07		minimum elong	14381 Nov 23 04:30	15° <b>₹</b> 52'51	1°08'10
evening set	14375 Oct 12 23:25	19°M43'22		max. Earth dist.	14381 Nov 23 04:07	15° <b>₹</b> 52'48	20.32234 AU
				morning rise	14381 Dec 09 11:59	16° <b>₹</b> 50′28	
conjunction	14375 Oct 29 01:10	20°M39'08	0°59'43	retrograde	14382 Mar 13 17:34	20° <b>₹</b> 05'16	
minimum elong	14375 Oct 29 01:10	20°M39'08	1°00'28	opposition	14382 May 29 02:51	18° <b>₹</b> 03'49	1°14'41
max. Earth dist.	14375 Oct 29 03:24	20°M39'28	20.67163 AU	min. Earth dist.	14382 May 29 03:40	18° <b>₹</b> 03'43	18.29222 AU
morning rise	14375 Nov 14 05:07	21°M35'16		direct	14382 Aug 12 04:35	16° <b>₹</b> 03'44	
retrograde	14376 Feb 16 04:03	24°M45'46		evening set	14382 Nov 11 13:48	19° <b>х</b> 13′27	
opposition	14376 May 03 02:47	22°M45'35	1°07'24				
min. Earth dist.	14376 May 03 01:12	22°M45'45	18.64476 AU	conjunction	14382 Nov 27 19:51	20° <b>х</b> 11′01	1°07'11
direct	14376 Jul 17 12:42	$20^{\circ}$ M47'01		minimum elong	14382 Nov 27 19:51	20° <b>х</b> 11′01	1°08'12
evening set	14376 Oct 16 09:38	23°M51'52		max. Earth dist.	14382 Nov 27 18:02	20° <b>∡</b> 10'44	20.26160 AU
				morning rise	14382 Dec 14 04:05	21° <b>尽</b> 08'54	
conjunction	14376 Nov 01 11:56	24°M47'52	1°01'48	retrograde	14383 Mar 18 10:42	24° <b>₹</b> ¹24'30	
minimum elong	14376 Nov 01 11:56	24°M47'52	1°02'35	opposition	14383 Jun 02 16:48	22° <b>₹</b> 22'54	1°14'30
max. Earth dist.	14376 Nov 01 13:14	24°M48'04	20.61698 AU	min. Earth dist.	14383 Jun 02 18:00	22° <b>₹</b> 22'46	18.23129 AU
morning rise	14376 Nov 17 16:33	25°M44'13		direct	14383 Aug 16 17:33	20° <b>≯</b> 22'35	
retrograde	14377 Feb 19 18:06	28°M55'22		evening set	14383 Nov 16 05:20	23° <b>∡</b> ³33'16	
opposition	14377 May 07 13:32	26°M54'55	1°09'34				
min. Earth dist.	14377 May 07 11:49		18.58905 AU	conjunction	14383 Dec 02 12:11	24° <b>∡</b> ³31′07	1°06'48
direct	14377 Jul 21 22:53	24°M56'04		minimum elong	14383 Dec 02 12:11	24° <b>∡</b> ³31′07	1°07'49
evening set	14377 Oct 20 20:27	28°M01'36		max. Earth dist.	14383 Dec 02 10:40	24° <b>∡</b> ³30'54	20.20032 AU
				morning rise	14383 Dec 18 20:51	25° <b>₹</b> 29'17 _	
conjunction	14377 Nov 05 23:24	28°M57'51	1°03'34	retrograde	14384 Mar 22 03:44	28° <b>₹</b> 45'41	
minimum elong	14377 Nov 05 23:24	28°M57'51	1°04'25	opposition	14384 Jun 06 07:24	26° <b>₹</b> 43'56	1°13'53
max. Earth dist.	14377 Nov 06 00:39		20.56018 AU	min. Earth dist.	14384 Jun 06 09:22		18.16965 AU
morning rise	14377 Nov 22 04:31	29°M54'26		direct	14384 Aug 20 06:51	24° <b>₹</b> 43'23	
. 1	14377 Nov 23 19:35	0° 🗖		evening set	14384 Nov 19 22:07	27° <b>₹</b> 55'03	
retrograde	14378 Feb 24 05:57	3° <b>∡</b> 706'15	1011100		14204 D 06 05 20	200 750112	100 (100
opposition	14378 May 12 00:53	1° 🗷 05'34		conjunction	14384 Dec 06 05:29	28° 🖈 53'12	1°06'02
min. Earth dist.	14378 May 12 00:12		18.53146 AU	minimum elong	14384 Dec 06 05:29	28° 🖈 53'12	
direct	14378 Jun 09 00:36 14378 Jul 26 07:40	30°RM 29°M06'27		max. Earth dist. morning rise	14384 Dec 06 02:04	28°×'52'41 29°×'51'38	20.13838 AU
direct		29°1160627 0° <b>√</b> 1		morning rise	14384 Dec 22 14:53	29° <b>ズ</b> ・31'38	
	14378 Sep 10 06:42				14384 Dec 25 00:25		
evening set	14378 Oct 25 07:55	2° <b>≯</b> 12'43		retrograde	14385 Mar 26 22:02 14385 Jun 10 22:29	3°る08'48 1°る06'55	101250
conjunction	14378 Nov 10 11:24	3° <b>₹</b> 09'12	1°05'00	opposition min. Earth dist.	14385 Jun 11 01:20		18.10733 AU
minimum elong	14378 Nov 10 11:24 14378 Nov 10 11:23	3° <b>₹</b> 10912 3° <b>₹</b> 109'11	1°05'53	iiiii. Eatui uist.	14385 Jul 08 22:09	1 00037 30°R.∡7	16.10/33 AU
max. Earth dist.	14378 Nov 10 11:23		20.50197 AU	direct	14385 Aug 24 21:00	29° <b>х</b> 106′03	
morning rise	14378 Nov 10 11:41 14378 Nov 26 17:11	4°×706'01	20.30197 AU	direct	14385 Oct 09 11:32	29 <b>メ</b> ・00 03	
retrograde	14379 Feb 28 21:11	7° <b>√</b> 18'33		evening set	14385 Nov 24 15:40	0 3 2° <b>る</b> 18'44	
opposition	14379 May 16 12:35	5° <b>₹</b> 17'38	1°12'47	evening set	17303 110V 24 13.40	2 01044	
min. Earth dist.	14379 May 16 11:45		18.47270 AU	conjunction	14385 Dec 10 23:51	3°る17'10	1°04'53
direct	14379 Jul 30 19:00	3° <b>₹</b> 17 <b>44</b>	10270710	minimum elong	14385 Dec 10 23:51	3°る17'10	
evening set	14379 Oct 29 20:07	6° <b>₹</b> ¹25'19		max. Earth dist.	14385 Dec 10 20:30		20.07554 AU
2. cg 500	1.57, 000 27 20.07	U A 20 17		morning rise	14385 Dec 27 09:37	4°る15'53	20.0,001110
conjunction	14379 Nov 15 00:18	7° <b>∡</b> ¹22'04	1°06'05	retrograde	14386 Mar 31 16:43	7°る33'47	
minimum elong	14379 Nov 15 00:18	7° 🖈 22'04		opposition	14386 Jun 15 14:20	5° <b>る</b> 31'43	1°11'22
max. Earth dist.	14379 Nov 15 00:47		20.44266 AU	min. Earth dist.	14386 Jun 15 17:46		18.04407 AU
morning rise	14379 Dec 01 06:34	8° <b>₹</b> 19'08	200710	direct	14386 Aug 29 11:49	3° <b>ට</b> 31'21	
retrograde	14380 Mar 04 10:21	11° <b>₹</b> 32'25		evening set	14386 Nov 29 10:03	6° <b>පි</b> 44'12	
	01 10.21			- · 5 5 5 5 5			

conjunction	14386 Dec 15 18:43	7° <b>る</b> 42'55	1003'20	retrograde	14393 May 02 19:10	9° <b>≈</b> 13'11	
minimum elong	14386 Dec 15 18:43	7°る42'55	1°04'23	opposition	14393 Jul 16 20:14	7°≈09'44	0°49'15
max. Earth dist.	14386 Dec 15 13:23		20.01211 AU	min. Earth dist.	14393 Jul 17 03:10	7°≈08'59	
			20.01211 AU				17.03085 AU
morning rise	14387 Jan 01 05:12	8° <b>3</b> 41'54		direct	14393 Sep 29 15:12	5°≈06'10	
retrograde	14387 Apr 05 12:27	12° <b>ろ</b> 00'32	1000107	evening set	14393 Dec 31 16:31	8° <b>≈</b> 26′25	
opposition	14387 Jun 20 06:48	9° <b>る</b> 58'15			1,004 \$ 15.05.10	00 05100	00.4010.5
min. Earth dist.	14387 Jun 20 11:11		17.98053 AU	conjunction	14394 Jan 17 05:12	9°≈27'00	0°42'05
direct	14387 Sep 03 03:27	7°る56'44		minimum elong	14394 Jan 17 05:12	9° <b>≈</b> 27'00	0°42'57
evening set	14387 Dec 04 05:13	11ºる11'21		max. Earth dist.	14394 Jan 16 21:39		19.60684 AU
		—		morning rise	14394 Feb 02 18:20	10° <b>≈</b> 27'41	
conjunction	14387 Dec 20 14:42	12° <b>ろ</b> 10'22	1°01'24	retrograde	14394 May 07 18:43	13° <b>≈</b> 50′18	
minimum elong	14387 Dec 20 14:42	12° <b>ठ</b> 10'22	1°02'27	opposition	14394 Jul 21 16:20	11° <b>≈</b> 46'44	0°44'34
max. Earth dist.	14387 Dec 20 09:43	12° <b>ろ</b> 09'36	19.94859 AU	min. Earth dist.	14394 Jul 21 22:20	11° <b>≈</b> 46′05	17.58412 AU
morning rise	14388 Jan 06 01:33	13° <b>る</b> 09'37		direct	14394 Oct 04 12:46	9° <b>≈</b> 42'56	
retrograde	14388 Apr 09 08:32	16° <b>පි</b> 28'54		evening set	14395 Jan 05 16:50	13° <b>≈</b> 04'05	
opposition	14388 Jun 23 23:38	14° <b>ろ</b> 26'24	1°07'07				
min. Earth dist.	14388 Jun 24 04:17		17.91719 AU	conjunction	14395 Jan 22 05:48	14° <b>≈</b> 04'52	0°37'44
direct	14388 Sep 06 19:30	12° <b>る</b> 24'32		minimum elong	14395 Jan 22 05:48	14° <b>≈</b> 04'52	0°38'34
evening set	14388 Dec 08 01:20	15° <b>る</b> 40'07		max. Earth dist.	14395 Jan 21 21:39	14° <b>≈</b> 03'37	19.56237 AU
					14395 Feb 06 05:08	15° <b>≈</b>	
conjunction	14388 Dec 24 11:18	16° <b>る</b> 39'24	0°59'05	morning rise	14395 Feb 07 19:12	15° <b>≈</b> 05'45	
minimum elong	14388 Dec 24 11:18	16° <b>る</b> 39'24	1°00'07	retrograde	14395 May 12 16:53	18° <b>≈</b> 28'49	
max. Earth dist.	14388 Dec 24 04:27	16° <b>る</b> 38'22	19.88575 AU	opposition	14395 Jul 26 13:09	16° <b>≈</b> 25′13	0°39'34
morning rise	14389 Jan 09 22:49	17° <b>る</b> 38'56		min. Earth dist.	14395 Jul 26 20:11	16° <b>≈</b> 24′27	17.54197 AU
retrograde	14389 Apr 14 05:25	20° <b>る</b> 58'51			14395 Aug 31 14:25	15° <b>R</b> ≈	
opposition	14389 Jun 28 17:08	18° <b>る</b> 56'07	1°04'21	direct	14395 Oct 09 08:46	14° <b>≈</b> 21'13	
min. Earth dist.	14389 Jun 28 22:51	18° <b>る</b> 55'30	17.85497 AU		14395 Nov 16 12:39	15° <b>≈</b>	
direct	14389 Sep 11 12:27	16° <b>る</b> 53'52		evening set	14396 Jan 10 17:56	17° <b>≈</b> 43'14	
evening set	14389 Dec 12 22:01	20° <b>る</b> 10'25					
				conjunction	14396 Jan 27 07:18	18° <b>≈</b> 44'13	0°33'06
conjunction	14389 Dec 29 08:44	21° <b>る</b> 09'59	0°56'23	minimum elong	14396 Jan 27 07:18	18° <b>≈</b> 44'13	0°33'52
minimum elong	14389 Dec 29 08:44	21° <b>る</b> 09'59	0°57'25	max. Earth dist.	14396 Jan 26 23:26	18° <b>≈</b> 43′00	19.52259 AU
max. Earth dist.	14389 Dec 29 02:29	21° <b>る</b> 09'02	19.82429 AU	morning rise	14396 Feb 12 20:50	19° <b>≈</b> 45'16	
morning rise	14390 Jan 14 20:30	22° <b>る</b> 09'46		retrograde	14396 May 16 17:39	23° <b>≈</b> 08'45	
retrograde	14390 Apr 19 02:27	25° <b>පි</b> 30'16		opposition	14396 Jul 30 10:10	21° <b>≈</b> 05′09	0°34'16
opposition	14390 Jul 03 11:03	23° <b>る</b> 27'20	1°01'10	min. Earth dist.	14396 Jul 30 16:25	21° <b>≈</b> 04'28	17.50434 AU
min. Earth dist.	14390 Jul 03 16:31	23° <b>る</b> 26'45	17.79444 AU	direct	14396 Oct 13 07:57	19° <b>≈</b> 00'59	
direct	14390 Sep 16 06:22	21° <b>る</b> 24'44		evening set	14397 Jan 14 19:50	22° <b>≈</b> 23'50	
evening set	14390 Dec 17 19:38	24° <b>₹</b> 42′13		_			
				conjunction	14397 Jan 31 09:24	23° <b>≈</b> 25′00	0°28'14
conjunction	14391 Jan 03 06:44	25° <b>る</b> 42'03	0°53'20	minimum elong	14397 Jan 31 09:25	23° <b>≈</b> 25′01	0°28'57
minimum elong	14391 Jan 03 06:44	25°る42'03	0°54'19	max. Earth dist.	14397 Jan 31 01:11	23° <b>≈</b> 23'44	19.48709 AU
max. Earth dist.	14391 Jan 02 22:59	25° <b>る</b> 40'52	19.76500 AU	morning rise	14397 Feb 16 22:58	24° <b>≈</b> 26′12	
morning rise	14391 Jan 19 19:04	26° <b>පි</b> 42'05		retrograde	14397 May 21 16:37	27° <b>≈</b> 50'03	
	14391 Apr 13 01:32	0° <b>≈</b>		opposition	14397 Aug 04 08:01	25° <b>≈</b> 46′29	0°28'44
retrograde	14391 Apr 23 23:37	0° <b>≈</b> 03'10		min. Earth dist.	14397 Aug 04 15:30	25° <b>≈</b> 45'40	17.47097 AU
	14391 May 04 21:04	30°Ŗる		direct	14397 Oct 18 05:06	23° <b>≈</b> 42′10	
opposition	14391 Jul 08 05:39	28° <b>පි</b> 00'01	0°57'35	evening set	14398 Jan 19 22:11	27° <b>≈</b> 05'48	
min. Earth dist.	14391 Jul 08 12:08	27° <b>る</b> 59'19	17.73658 AU				
direct	14391 Sep 21 00:14	25° <b>る</b> 57'04		conjunction	14398 Feb 05 11:54	28° <b>≈</b> 07'08	0°23'10
evening set	14391 Dec 22 17:44	29° <b>る</b> 15'29		minimum elong	14398 Feb 05 11:54	28° <b>≈</b> 07'08	0°23'50
-	14392 Jan 03 23:44	0° <b>≈</b>		max. Earth dist.	14398 Feb 05 03:20	28° <b>≈</b> 05'48	19.45577 AU
				morning rise	14398 Feb 22 01:28	29° <b>≈</b> 08'27	
conjunction	14392 Jan 08 05:32	0°≈15'35	0°49'55		14398 Mar 08 15:55	0° <b>∀</b>	
minimum elong	14392 Jan 08 05:33	0° <b>≈</b> 15'35	0°50'52	retrograde	14398 May 26 18:14	2° <b>)</b> €32'36	
max. Earth dist.	14392 Jan 07 22:31	0° <b>≈</b> 14'31	19.70866 AU	opposition	14398 Aug 09 06:13	0° <b>)</b> €29'03	0°22'59
morning rise	14392 Jan 24 18:08	1°≈15'51	-	min. Earth dist.	14398 Aug 09 12:58		17.44158 AU
retrograde	14392 Apr 27 21:54	4° <b>≈</b> 37'29			14398 Aug 20 11:23	30°R≈	=-
opposition	14392 Jul 12 00:38	2° <b>≈</b> 34'09	0°53'36	direct	14398 Oct 23 05:55	28° <b>≈</b> 24'37	
min. Earth dist.	14392 Jul 12 06:31		17.68181 AU		14398 Dec 23 07:39	0° <b>∀</b>	
direct	14392 Sep 24 20:16	0°≈30'53		evening set	14399 Jan 25 01:09	1° <b>)</b> 48′57	
evening set	14392 Dec 26 16:52	3°≈50'14				, , , , , , ,	
		2 . 2 . 0 . 1 4		conjunction	14399 Feb 10 15:00	2° <b>¥</b> 50'24	0°17'56
conjunction	14393 Jan 12 05:00	4° <b>≈</b> 50'34	0°46'09	minimum elong	14399 Feb 10 15:01	2° <b>H</b> 50'24	
minimum elong	14393 Jan 12 05:00	4°≈50'34	0°47'05	max. Earth dist.	14399 Feb 10 06:29		19.42822 AU
max. Earth dist.	14393 Jan 11 20:50		19.65568 AU	morning rise	14399 Feb 27 04:24	3° <b>¥</b> 51′50	
morning rise	14393 Jan 28 17:59	5°≈51'03	,	retrograde	14399 May 31 18:00	7° <b>∺</b> 16'12	
					2.2.2.3.0		

opposition	14399 Aug 14 04:55	5° <b>)</b> 12'41	0°17'03	evening set	14405 Feb 22 23:46	0° <b>Υ</b> 20'21	
min. Earth dist.	14399 Aug 14 12:51	5° <b>)</b> 11′50	17.41598 AU				
direct	14399 Oct 28 04:36	3° <b>)</b> €08'06		conjunction	14405 Mar 11 12:45	1° <b>Y</b> 22'02	
evening set	14400 Jan 30 04:33	6° <b>)</b> 33′04		minimum elong	14405 Mar 11 12:45	1° <b>Y</b> 22'02	0°14'59
				behind sun begin	14405 Mar 11 10:27	1° <b>Y</b> 21'41	
conjunction	14400 Feb 15 18:23	7° <b>)</b> (34′37	0°12'34	behind sun end	14405 Mar 11 15:03	1° <b>Y</b> ′22'23	
minimum elong	14400 Feb 15 18:24	7° <b>)</b> 34'37	0°13'05	max. Earth dist.	14405 Mar 11 04:34		19.35218 AU
behind sun begin	14400 Feb 15 14:27	7° <b>)</b> (34′01		morning rise	14405 Mar 28 00:07	2°Υ23'31	
behind sun end	14400 Feb 15 22:20	7° <b>)</b> ₹35'13		retrograde	14405 Jun 28 23:34	5° <b>Y</b> 47'37	
max. Earth dist.	14400 Feb 15 08:58	7° <b>)</b> (33′10	19.40460 AU	opposition	14405 Sep 11 01:51	3°Υ44'13	
morning rise	14400 Mar 03 07:46	8° <b>)</b> €36'08		min. Earth dist.	14405 Sep 11 09:01		17.35411 AU
retrograde	14400 Jun 04 19:48	12° <b>)</b> €00'39	0011100	direct	14405 Nov 25 11:29	1° <b>Υ</b> 38'55 5° <b>Υ</b> 05'44	
opposition	14400 Aug 18 03:54	9° <b>¥</b> 57'09	0°11'00 17.39425 AU	evening set	14406 Feb 28 03:24	5*1105'44	
min. Earth dist. direct	14400 Aug 18 11:15 14400 Nov 01 05:55	7° <b>H</b> 52'24	17.39423 AU	aaniumatian	14406 Mar. 16, 15:47	6° <b>Ƴ</b> 07'21	0920126
evening set	14400 Nov 01 03.33	11° <del>X</del> 17'54		conjunction minimum elong	14406 Mar 16 15:47 14406 Mar 16 15:46	6° <b>Υ</b> 07'21	0°20'27
evening set	14401 Feb 03 08.13	11 π1/34		max. Earth dist.	14406 Mar 16 07:03		19.35748 AU
conjunction	14401 Feb 19 22:05	12° <b>¥</b> 19'33	0°07'06	morning rise	14406 Apr 02 02:43	7° <b>Υ</b> '08'45	19.55746 AU
minimum elong	14401 Feb 19 22:06	12 <b>X</b> 1933	0°07'31	retrograde	14406 Apr 02 02.43	10° <b>Υ</b> 32'35	
behind sun begin	14401 Feb 19 15:58	12° <b>X</b> 1933	0 0/31	opposition	14406 Sep 16 01:42	8° <b>Υ</b> 29'14	-0°25'41
behind sun end	14401 Feb 20 04:13	12° <b>X</b> 20'29		min. Earth dist.	14406 Sep 16 08:29		17.36255 AU
max. Earth dist.	14401 Feb 19 13:13		19.38477 AU	direct	14406 Nov 30 13:21	6°Υ23'54	17.30233 110
morning rise	14401 Mar 08 11:04	13° <b>¥</b> 21'06	19.50177110	evening set	14407 Mar 05 06:47	9° <b>Υ</b> 50'44	
retrograde	14401 Jun 09 20:32	16° <b>)</b> (45'41		7 · · · · · · · · · · · · · · · · · · ·			
opposition	14401 Aug 23 03:13	14° <b>)</b> (42'12	0°04'50	conjunction	14407 Mar 21 18:50	10° <b>Y</b> 52'15	-0°25'39
min. Earth dist.	14401 Aug 23 11:24	14° <b>)</b> 41'19	17.37650 AU	minimum elong	14407 Mar 21 18:50	10° <b>Y</b> 52'15	0°25'44
direct	14401 Nov 06 05:47	12° <b>)</b> 37'19		max. Earth dist.	14407 Mar 21 11:47	10° <b>Y</b> 51′09	19.36895 AU
evening set	14402 Feb 08 12:07	16° <b>)</b> €03'16		morning rise	14407 Apr 07 05:02	11° <b>Y</b> 53'31	
				retrograde	14407 Jul 08 22:04	15° <b>Ƴ</b> 17'01	
conjunction	14402 Feb 25 01:46	17° <b>)</b> €04'58	0°01'34	opposition	14407 Sep 21 01:21	13° <b>Y</b> 13'48	-0°31'24
minimum elong	14402 Feb 25 01:45	17° <b>)</b> €04'58	0°01'55	min. Earth dist.	14407 Sep 21 07:13	13° <b>Y</b> 13'09	17.37708 AU
behind sun begin	14402 Feb 24 19:00	17° <b>)</b> €03'56		direct	14407 Dec 05 16:25	11° <b>Y</b> ′08'30	
behind sun end	14402 Feb 25 08:29	17° <b>∺</b> 05'59		evening set	14408 Mar 09 10:06	14° <b>Y</b> 35'15	
max. Earth dist.	14402 Feb 24 15:51	17° <b>)</b> €03'26	19.36932 AU				
morning rise	14402 Mar 13 14:34	18° <b>)</b> €06'33		conjunction	14408 Mar 25 21:29	15° <b>Y</b> 36'39	
desc. node	14402 Jun 10 13:07	21° <b>∺</b> 30'36		minimum elong	14408 Mar 25 21:29	15° <b>Ƴ</b> 36'39	
retrograde	14402 Jun 14 21:55	21° <b>∺</b> 31′08		max. Earth dist.	14408 Mar 25 14:09		19.38659 AU
opposition	14402 Aug 28 02:42	19° <b>∺</b> 27'39		morning rise	14408 Apr 11 07:07	16° <b>Ƴ</b> 37'47	
min. Earth dist.	14402 Aug 28 10:18		17.36335 AU	retrograde	14408 Jul 12 20:15	20° <b>Y</b> ′00'54	
direct	14402 Nov 11 06:51	17° <b>¥</b> 22'37		opposition	14408 Sep 25 01:08	17° <b>Y</b> ′57'50	
evening set	14403 Feb 13 15:52	20° <b>)</b> 48′56		min. Earth dist.	14408 Sep 25 06:51		17.39787 AU
				direct	14408 Dec 09 17:45	15° <b>Y</b> 52'37	
conjunction	14403 Mar 02 05:30	21° <b>)</b> 50'39		evening set	14409 Mar 14 12:50	19° <b>Ƴ</b> 19'14	
minimum elong	14403 Mar 02 05:29	21° <b>)</b> 50'39	0°03'51		14400 14 20 22 42	2000020120	0025120
behind sun begin	14403 Mar 01 22:49	21° <b>)</b> (49'38		conjunction	14409 Mar 30 23:43	20° <b>Υ</b> 20'29	
behind sun end	14403 Mar 02 12:09	21° <b>)</b> 51'40	10.25047.444	minimum elong	14409 Mar 30 23:43	20° <b>Υ</b> 20'29	0°35'45
max. Earth dist.	14403 Mar 01 20:45	21° <del>X</del> 49'18 22° <del>X</del> 52'14	19.35847 AU	max. Earth dist.	14409 Mar 30 17:50	20°°° 19'34 21°° 19'34	19.41033 AU
morning rise retrograde	14403 Mar 18 17:48 14403 Jun 19 23:03	26° <del>X</del> 16'43		morning rise retrograde	14409 Apr 16 08:33 14409 Jul 17 20:13	$24^{\circ}$ <b>Y</b> 44'09	
opposition	14403 Juli 19 23:03 14403 Sep 02 02:24	26 <del>X</del> 1043 24° <del>X</del> 13'16	0007124	opposition	14409 Sep 30 00:41	24 <b>γ</b> 44 09 22° <b>γ</b> 41'18	0.42,06
min. Earth dist.	14403 Sep 02 02:24 14403 Sep 02 10:18		17.35491 AU	min. Earth dist.	14409 Sep 30 05:10		17.42435 AU
direct	14403 Nov 16 07:52	24 X 12 24 22° <del>X</del> 08'08	17.33491 AU	direct	14409 Dec 14 20:36	20° <b>Y</b> 36'13	17.42433 AU
evening set	14404 Feb 18 19:57	25° <b>)</b> 34'42		evening set	14410 Mar 19 15:22	24°Υ02'36	
evening set	14404160 10 17.57	23 /(3442		evening set	14410 Willi 17 13.22	24   02 30	
conjunction	14404 Mar 06 09:08	26° <b>)</b> 36′24	-0°09'37	conjunction	14410 Apr 05 01:30	25° <b>Y</b> ′03'41	-0°40'03
minimum elong	14404 Mar 06 09:07	26°\(\)36'24		minimum elong	14410 Apr 05 01:30	25°Υ03'41	0°40'23
behind sun begin	14404 Mar 06 03:32	26° <b>)</b> 35'33	* ** =*	max. Earth dist.	14410 Apr 04 19:46		19.43949 AU
behind sun end	14404 Mar 06 14:43	26° <b>∺</b> 37'16		morning rise	14410 Apr 21 09:39	26°Υ°04'30	
max. Earth dist.	14404 Mar 05 23:24		19.35264 AU	retrograde	14410 Jul 22 18:13	29° <b>Y</b> 26'43	
morning rise	14404 Mar 22 21:10	27° <b>)</b> €37'58		opposition	14410 Oct 05 00:13	27° <b>Y</b> °24'05	-0°47'04
Č	14404 May 06 15:11	0° <b>Υ</b>		min. Earth dist.	14410 Oct 05 04:57		17.45612 AU
retrograde	14404 Jun 23 22:55	1° <b>Y</b> 02'18		direct	14410 Dec 19 20:59	25° <b>Y</b> 19'10	
	14404 Aug 12 15:37	30° <b>₹</b> ₩		evening set	14411 Mar 24 17:22	28° <b>Y</b> 45'15	
opposition	14404 Sep 06 02:00	28° <b>¥</b> 58'51	-0°13'43				
min. Earth dist.	14404 Sep 06 09:32	28° <b>¥</b> 58′01	17.35177 AU	conjunction	14411 Apr 10 02:54	29° <b>Y</b> 46'09	-0°44'20
direct	14404 Nov 20 09:08	26° <b>∺</b> 53'36		minimum elong	14411 Apr 10 02:53	29° <b>Y</b> 46'09	0°44'45
	14405 Feb 17 09:06	$0$ ° $\gamma$		max. Earth dist.	14411 Apr 09 22:00	29° <b>Y</b> 45'23	19.47356 AU

14417 Aug 23 21:57

retrograde

1°**I**52'53

max. Earth dist.

morning rise

14430 Jul 04 08:59

14430 Jul 19 23:04

24°9528'49

25°523'45

20.53345 AU

morning rise

retrograde

20°**Ω**05'14

23°**Ω**10'46

14436 Aug 12 23:51

14436 Nov 13 00:42

page 28

14442 Dec 08 00:28

17° m 19'10

retrograde

agniumation	14448 Sep 13 22:57	7° <b>£</b> 14'31	0°21'23	ratra ara da	14455 Ion 26 04:20	5° <b>™</b> 20'22	
conjunction		7° <b>2</b> 14'31		retrograde	14455 Jan 26 04:30		0953133
minimum elong	14448 Sep 13 22:57		0°21'25	opposition	14455 Apr 13 09:19	3°M21'20	
max. Earth dist.	14448 Sep 14 06:56		21.01494 AU	min. Earth dist.	14455 Apr 13 03:41		18.87628 AU
morning rise	14448 Sep 29 21:27	8° <b>₾</b> 09'01		direct	14455 Jun 28 05:08	1°M23'47	
retrograde	14448 Dec 31 20:52	11° <b>Ω</b> 14'08		evening set	14455 Sep 26 21:19	4°M26'06	
opposition	14449 Mar 19 05:38	9° <b>Ω</b> 15'40	0°26'05			w	
min. Earth dist.	14449 Mar 18 21:37		19.01005 AU	conjunction	14455 Oct 12 20:54	5°M21'07	
direct	14449 Jun 03 14:17	7° <b>≏</b> 18'14		minimum elong	14455 Oct 12 20:53	5° <b>™</b> 21′07	0°49'29
evening set	14449 Sep 02 07:05	10° <b>≏</b> 19'07		max. Earth dist.	14455 Oct 13 01:45		20.85766 AU
				morning rise	14455 Oct 28 22:34	6°M16′28	
conjunction	14449 Sep 18 04:23	11° <b>≏</b> 13'27	0°25'47	retrograde	14456 Jan 30 13:50	9° <b>™</b> 24'36	
minimum elong	14449 Sep 18 04:22	11° <b>≙</b> 13'27	0°25'52	opposition	14456 Apr 16 18:53	7°M25'24	0°56'01
max. Earth dist.	14449 Sep 18 11:58	11° <b>≏</b> 14'32	21.00409 AU	min. Earth dist.	14456 Apr 16 14:56	7° <b>M</b> 25′48	18.83825 AU
morning rise	14449 Oct 04 03:20	12° <b>≏</b> 08'02		direct	14456 Jul 01 11:06	5° <b>™</b> 27'43	
retrograde	14450 Jan 05 03:55	15° <b>≏</b> 13'26		evening set	14456 Sep 30 05:19	8°M30'26	
opposition	14450 Mar 23 13:55	13° <b>≏</b> 14'52	0°30'53				
min. Earth dist.	14450 Mar 23 07:03	13° <b>≙</b> 15'34	18.99751 AU	conjunction	14456 Oct 16 05:26	9° <b>™</b> 25'37	0°52'08
direct	14450 Jun 07 19:38	11° <b>≏</b> 17'27		minimum elong	14456 Oct 16 05:25	9°M25'37	0°52'42
evening set	14450 Sep 06 12:24	14° <b>≏</b> 18'24		max. Earth dist.	14456 Oct 16 09:30	9°M26'13	20.81735 AU
C	•			morning rise	14456 Nov 01 07:40	10°M21'09	
conjunction	14450 Sep 22 10:04	15° <b>≙</b> 12'48	0°30'03	retrograde	14457 Feb 03 02:05	13°M29'48	
minimum elong	14450 Sep 22 10:03	15° <b>Ω</b> 12'48	0°30'13	opposition	14457 Apr 21 04:22	11°M30'24	0°59'25
max. Earth dist.	14450 Sep 22 17:42		20.98983 AU	min. Earth dist.	14457 Apr 21 00:15		18.79565 AU
morning rise	14450 Oct 08 09:23	16° <b>⊆</b> 07'28	20.90903710	direct	14457 Jul 05 20:13	9°M32'32	10.77505710
retrograde	14451 Jan 09 13:35	19° <b>⊆</b> 13'13		evening set	14457 Oct 04 13:50	12°M35'43	
opposition	14451 Mar 27 22:08	17° <b>⊆</b> 14'35	0°35'32	evening set	14437 001 04 13.30	12 11033 43	
min. Earth dist.	14451 Mar 27 14:25		18.98140 AU	agniumation	14457 Oct 20 14:27	13°M31'05	0°55'03
	14451 Jun 12 02:41	17 <b>≥</b> 13 21 15° <b>⊆</b> 17'10	18.98140 AU	conjunction minimum elong	14457 Oct 20 14:26	13°M31'05	
direct	14451 Sep 10 18:09	13 <b>≗</b> 17 10 18° <b>£</b> 18'16		max. Earth dist.	14457 Oct 20 17:46		20.77255 AU
evening set	14431 Sep 10 18.09	18 == 18 10					20.77233 AU
	14451 0 26 16 05	100 0 10146	0024110	morning rise	14457 Nov 05 17:13	14°M26'48	
conjunction	14451 Sep 26 16:05	19° <b>Ω</b> 12'46	0°34'10		14457 Nov 15 16:30	15°M	
minimum elong	14451 Sep 26 16:05	19° <b>Ω</b> 12'46	0°34'25	retrograde	14458 Feb 07 12:32	17°M36'01	1000101
max. Earth dist.	14451 Sep 26 23:17		20.97183 AU	opposition	14458 Apr 25 14:20	15°M36'23	1°02'31
morning rise	14451 Oct 12 15:52	20° <b>Ω</b> 07'33		min. Earth dist.	14458 Apr 25 11:48		18.74894 AU
retrograde	14452 Jan 13 21:30	23° <b>≏</b> 13'41			14458 May 10 16:45	15°RM	
opposition	14452 Mar 31 06:43	21° <b>≏</b> 14'58	0°40'02	direct	14458 Jul 10 03:02	13°M38'18	
min. Earth dist.	14452 Mar 31 00:19		18.96158 AU		14458 Sep 05 21:28	15° <b>M</b>	
direct	14452 Jun 15 07:58	19° <b>≏</b> 17'34		evening set	14458 Oct 08 22:40	16°M41'59	
evening set	14452 Sep 14 00:08	22° <b>≙</b> 18'52					
				conjunction	14458 Oct 24 23:48	17°M37'32	0°57'43
conjunction	14452 Sep 29 22:31	23° <b>≙</b> 13'28	0°38'09	minimum elong	14458 Oct 24 23:47	17° <b>M</b> 37'32	0°58'25
minimum elong	14452 Sep 29 22:31	23° <b>≏</b> 13'28	0°38'27	max. Earth dist.	14458 Oct 25 02:29	17° <b>M</b> 37'56	20.72418 AU
max. Earth dist.	14452 Sep 30 05:32	23° <b>≏</b> 14'29	20.95009 AU	morning rise	14458 Nov 10 03:08	18° <b>M</b> 33'27	
morning rise	14452 Oct 15 22:46	24° <b>ഫ</b> 08'22		retrograde	14459 Feb 12 01:06	21° <b>M</b> 43'17	
retrograde	14453 Jan 17 08:13	27° <b>≙</b> 14'57		opposition	14459 Apr 30 00:27	19°M43'23	1°05'19
opposition	14453 Apr 04 15:19	25° <b>≙</b> 16′09	0°44'21	min. Earth dist.	14459 Apr 29 21:34	19° <b>M</b> 43'40	18.69901 AU
min. Earth dist.	14453 Apr 04 08:21	25° <b>≙</b> 16'51	18.93771 AU	direct	14459 Jul 14 12:43	17° <b>M</b> 45'03	
direct	14453 Jun 19 15:30	23° <b>₽</b> 18'44		evening set	14459 Oct 13 08:10	20°M49'18	
evening set	14453 Sep 18 06:47	26° <b>≏</b> 20′20					
				conjunction	14459 Oct 29 09:51	21°M45'04	1°00'05
conjunction	14453 Oct 04 05:29	27° <b>₽</b> 15'03	0°41'57	minimum elong	14459 Oct 29 09:50	21°M45'04	1°00'49
minimum elong	14453 Oct 04 05:29	27° <b>≏</b> 15'03	0°42'21	max. Earth dist.	14459 Oct 29 12:10	21°M45'24	20.67278 AU
max. Earth dist.	14453 Oct 04 11:47	27° <b>£</b> 15'58	20.92394 AU	morning rise	14459 Nov 14 13:44	22° <b>M</b> 41'11	
morning rise	14453 Oct 20 06:12	28° <b>♀</b> 10'06		retrograde	14460 Feb 16 12:47	25°M51'39	
	14453 Nov 25 13:26	0°M		opposition	14460 May 03 11:00	23°M51'29	1°07'48
retrograde	14454 Jan 21 16:43	1° <b>M</b> 17'09		min. Earth dist.	14460 May 03 09:26		18.64645 AU
retrograde	14454 Mar 22 09:30	30°R <b>Ω</b>		direct	14460 Jul 17 20:46	21°M52'55	10.01015110
opposition	14454 Apr 09 00:10	29° <b>£</b> 18'16	0°48'28	evening set	14460 Oct 16 18:13	24°M57'47	
min. Earth dist.	14454 Apr 08 18:52		18.90936 AU	evening set	17700 001 10 10.13	27 IIV3/4/	
direct	14454 Jun 23 20:51	29 <b>2</b> 1848 27° <b>2</b> 20'48	10.70930 AU	conjunction	14460 Nov 01 20:29	25°M53'46	1°02'08
uncci				·			
	14454 Sep 15 18:04	0°M		minimum elong	14460 Nov 01 20:28	25°M53'46	1°02'57
evening set	14454 Sep 22 13:51	0°M22'44		max. Earth dist.	14460 Nov 01 22:06		20.61918 AU
	14454 0 4 00 12 01	10 <b>m</b> 1773	0945124	morning rise	14460 Nov 18 01:00	26°M50'07	
conjunction	14454 Oct 08 13:01	1°M17'36	0°45'34	, .	14461 Feb 13 01:48	0° <b>₹</b>	
minimum elong	14454 Oct 08 13:00	1°M17'36	0°46'00	retrograde	14461 Feb 20 02:14	0° <b>∡</b> 701'14	
max. Earth dist.	14454 Oct 08 18:42		20.89329 AU	*.*	14461 Feb 27 01:18	30°₹M	100017
morning rise	14454 Oct 24 14:11	2°M12'47		opposition	14461 May 07 21:47	28°M00'50	1°09'56

min. Earth dist.	14461 May 07 19:51		18.59185 AU	max. Earth dist.	14467 Dec 02 18:54		20.20680 AU
direct	14461 Jul 22 06:35	26°M02'00		morning rise	14467 Dec 19 05:22	26° <b>₹</b> 35'47	
evening set	14461 Oct 21 04:59	29° <b>M</b> .07'33		retrograde	14468 Mar 22 12:17	29° <b>₹</b> 52'08	
	14461 Nov 05 06:06	0° <b>∡</b> ¹		opposition	14468 Jun 06 15:54	27° <b>₹</b> 50'27	
. ,.	14461 N 06 07 50	00 703146	1002152	min. Earth dist.	14468 Jun 06 18:14		18.17555 AU
conjunction	14461 Nov 06 07:50	0° <b>₹</b> 03'46 0° <b>₹</b> 03'46	1°03'53 1°04'44	direct	14468 Aug 20 15:05 14468 Nov 20 06:51	25° ₹ 49'56 29° ₹ 01'33	
minimum elong max. Earth dist.	14461 Nov 06 07:49 14461 Nov 06 09:12		20.56356 AU	evening set	14408 NOV 20 U0:51	29° <b>X</b> '01'33	
morning rise	14461 Nov 22 12:51	1°× 00'21	20.30330 AO	conjunction	14468 Dec 06 14:09	29° <b>₹</b> 59'40	1°06'12
retrograde	14462 Feb 24 14:48	4°×712'08		minimum elong	14468 Dec 06 14:09	29° × 59'40	1°07'14
opposition	14462 May 12 09:03	2° <b>∡</b> 11'31	1°11'42	max. Earth dist.	14468 Dec 06 10:22		20.14354 AU
min. Earth dist.	14462 May 12 08:16	2° <b>∡</b> 11'36	18.53549 AU		14468 Dec 06 16:23	8°0	
direct	14462 Jul 26 16:13	0° <b>∡</b> 12'27		morning rise	14468 Dec 22 23:27	0° <b>る</b> 58'05	
evening set	14462 Oct 25 16:26	3° <b>∡</b> 18'44		retrograde	14469 Mar 27 07:04	4° <b>る</b> 15'11	
				opposition	14469 Jun 11 07:10	2° <b>る</b> 13'18	1°13'00
conjunction	14462 Nov 10 19:51	4° <b>∡</b> 15'11	1°05'18	min. Earth dist.	14469 Jun 11 10:10		18.11169 AU
minimum elong	14462 Nov 10 19:51	4° <b>∡</b> 15'11	1°06'12	direct	14469 Aug 25 05:43	0° <b>る</b> 12'27	
max. Earth dist.	14462 Nov 10 20:26		20.50664 AU	evening set	14469 Nov 25 00:19	3° <b>る</b> 25'02	
morning rise	14462 Nov 27 01:33	5° 🗷 12'00			14460 75 11 00 22	407000	1005101
retrograde	14463 Mar 01 05:13	8° ×724'31	1012107	conjunction	14469 Dec 11 08:23	4°る23'27	1°05'01
opposition	14463 May 16 20:47	6° ×723'41	1°13'06	minimum elong	14469 Dec 11 08:23	4°る23'27	1°06'04 20.07910 AU
min. Earth dist. direct	14463 May 16 19:39 14463 Jul 31 02:39	4° <b>×</b> 23'48	18.47799 AU	max. Earth dist. morning rise	14469 Dec 11 04:41 14469 Dec 27 18:04	5° <b>る</b> 22'34	20.07910 AU
evening set	14463 Oct 30 04:31	7° <b>⋌</b> '31'26		retrograde	14470 Apr 01 01:12	8°る39'57	
evening set	14403 000 30 04.51	7 × 31 20		opposition	14470 Jun 15 23:00	6° <b>る</b> 37'52	1°11'30
conjunction	14463 Nov 15 08:38	8° <b>×</b> 728'09	1°06'22	min. Earth dist.	14470 Jun 16 02:45		18.04686 AU
minimum elong	14463 Nov 15 08:37	8° <b>∡</b> ¹28'09	1°07'17	direct	14470 Aug 29 20:44	4° <b>ට</b> 36'41	
max. Earth dist.	14463 Nov 15 09:11	8° <b>∡</b> 128'14	20.44852 AU	evening set	14470 Nov 29 18:43	7° <b>る</b> 50'14	
morning rise	14463 Dec 01 14:51	9° <b>∡</b> ¹25'13					
retrograde	14464 Mar 04 19:08	12° <b>∡</b> ³38′28		conjunction	14470 Dec 16 03:18	8° <b>る</b> 48'56	1°03'27
opposition	14464 May 20 09:08	10° <b>∡</b> ³37'27	1°14'07	minimum elong	14470 Dec 16 03:19	8° <b>る</b> 48'56	1°04'30
min. Earth dist.	14464 May 20 09:01	10° <b>∡</b> ³37′28	18.41938 AU	max. Earth dist.	14470 Dec 15 21:46		20.01427 AU
direct	14464 Aug 03 13:26	8° <b>∡</b> ³37'55		morning rise	14471 Jan 01 13:43	9° <b>る</b> 47'54	
evening set	14464 Nov 02 17:37	11° <b>∡</b> ′45'48		retrograde	14471 Apr 05 20:36	13° <b>ろ</b> 06'26	
	1446437 10 22 10	100 7 10117	1005105	opposition	14471 Jun 20 15:22	11°る04'06	1°09'34
conjunction	14464 Nov 18 22:19	12° <b>х</b> 42'47	1°07'05	min. Earth dist.	14471 Jun 20 19:52		17.98211 AU
minimum elong max. Earth dist.	14464 Nov 18 22:19 14464 Nov 18 21:48	12° <b>x</b> <sup>7</sup> 42'47	1°08'02 20.38958 AU	direct	14471 Sep 03 12:22 14471 Dec 04 13:43	9°る02'33 12°る17'04	
max. Earth dist.	14464 Dec 05 05:16	13° <b>x</b> '42'43	20.38938 AU	evening set	144/1 Dec 04 13:43	12.01/04	
retrograde	14465 Mar 09 10:50	16° <b>x</b> '40'07		conjunction	14471 Dec 20 23:09	13° <b>ට</b> 16'04	1°01'29
opposition	14465 May 24 21:47	14° <b>×</b> 52'56	1°14'43	minimum elong	14471 Dec 20 23:09	13°る16'04	1°02'31
min. Earth dist.	14465 May 24 21:39		18.36000 AU	max. Earth dist.	14471 Dec 20 18:03		19.94971 AU
direct	14465 Aug 08 01:08	12° <b>₹</b> ′53′10		morning rise	14472 Jan 06 09:56	14° <b>る</b> 15'18	
evening set	14465 Nov 07 07:32	16° <b>∡</b> ¹01'57		retrograde	14472 Apr 09 16:32	17° <b>る</b> 34'30	
				opposition	14472 Jun 24 08:16	15° <b>る</b> 31'57	1°07'12
conjunction	14465 Nov 23 12:57	16° <b>₹</b> ′59′12	1°07'25	min. Earth dist.	14472 Jun 24 13:06	15° <b>る</b> 31'26	17.91790 AU
minimum elong	14465 Nov 23 12:57	16° <b>₹</b> ′59′12	1°08'25	direct	14472 Sep 07 05:05	13° <b>る</b> 30'03	
max. Earth dist.	14465 Nov 23 12:27		20.32966 AU	evening set	14472 Dec 08 09:47	16° <b>る</b> 45'33	
morning rise	14465 Dec 09 20:22	17° <b>⋌</b> ¹56'48				_	
retrograde	14466 Mar 14 02:04	21°×711'35	101.415.6	conjunction	14472 Dec 24 19:39	17°₹44'49	0°59'08
opposition	14466 May 29 11:14	19° 🗷 10'14	1°14'56	minimum elong	14472 Dec 24 19:39	17° <b>3</b> 44'49	1°00'10
min. Earth dist. direct	14466 May 29 12:10 14466 Aug 12 12:46	19° <b>×</b> ′10′08 17° <b>×</b> ′10′15	18.29960 AU	max. Earth dist. morning rise	14472 Dec 24 12:48 14473 Jan 10 07:05	17° <b>5</b> 43°46 18° <b>5</b> 44'19	19.88619 AU
evening set	14466 Nov 11 22:17	17 <b>x</b> · 10 13 20° <b>x</b> · 19'57		retrograde	14473 Jan 10 07.03	18 344 19 22° <b>る</b> 04'10	
evening set	14400 NOV 11 22.17	20 8 1937		opposition	14473 Apr 14 12.30 14473 Jun 29 01:36	22 304 10 20°る01'24	1°04'23
conjunction	14466 Nov 28 04:15	21° <b>х</b> 17'29	1°07'24	min. Earth dist.	14473 Jun 29 07:16	20° <b>පි</b> 00'48	
minimum elong	14466 Nov 28 04:15	21° <b>х</b> 17'29	1°08'24	direct	14473 Sep 11 21:29	17° <b>る</b> 59'07	17.00021110
max. Earth dist.	14466 Nov 28 02:24		20.26887 AU	evening set	14473 Dec 13 06:23	21° <b>る</b> 15'37	
morning rise	14466 Dec 14 12:23	22° <b>∡</b> 15′21		J			
retrograde	14467 Mar 18 19:37	25° <b>х</b> 30′56		conjunction	14473 Dec 29 17:00	22°る15'10	0°56'25
opposition	14467 Jun 03 01:17	23° <b>∡</b> ¹29'25	1°14'43	minimum elong	14473 Dec 29 17:01	22° <b>る</b> 15'10	0°57'24
min. Earth dist.	14467 Jun 03 02:32	23° <b>∡</b> ¹29'17	18.23826 AU	max. Earth dist.	14473 Dec 29 10:54	22° <b>る</b> 14'14	19.82449 AU
direct	14467 Aug 17 01:58	21° <b>∡</b> ¹29'10		morning rise	14474 Jan 15 04:43	23° <b>る</b> 14'55	
evening set	14467 Nov 16 14:04	24° <b>₹</b> ³39'49		retrograde	14474 Apr 19 10:22	26° <b>පි</b> 35'24	
		=		opposition	14474 Jul 03 19:32	24° <b>る</b> 32'27	1°01'10
conjunction	14467 Dec 02 20:48	25° <b>7</b> 37'39	1°06'59	min. Earth dist.	14474 Jul 04 01:02		17.79467 AU
minimum elong	14467 Dec 02 20:48	25° <b>∡</b> '37'39	1,08,01	direct	14474 Sep 16 15:29	22° <b>る</b> 29'50	

evening set	14474 Dec 18 03:48	25° <b>る</b> 47'17		minimum elong	14481 Jan 31 17:50	24° <b>≈</b> 31'46	0°28'43
				max. Earth dist.	14481 Jan 31 09:19	24° <b>≈</b> 30′27	19.48860 AU
conjunction	14475 Jan 03 14:49	26° <b>る</b> 47'06	0°53'19	morning rise	14481 Feb 17 07:20	25° <b>≈</b> 32'58	
minimum elong	14475 Jan 03 14:50	26° <b>る</b> 47'06	0°54'18	retrograde	14481 May 22 01:36	28° <b>≈</b> 56'55	
max. Earth dist.	14475 Jan 03 07:17	26° <b>る</b> 45'57	19.76533 AU	opposition	14481 Aug 04 16:52	26° <b>≈</b> 53'25	0°28'29
morning rise	14475 Jan 20 03:07	27° <b>る</b> 47'07		min. Earth dist.	14481 Aug 05 00:31	26° <b>≈</b> 52'35	17.47193 AU
	14475 Mar 03 13:22	0°≈		direct	14481 Oct 18 14:02	24° <b>≈</b> 49′12	
retrograde	14475 Apr 24 07:21	1° <b>≈</b> 08'13		evening set	14482 Jan 20 06:49	28° <b>≈</b> 12'52	
	14475 Jun 16 12:31	30°Ŗる					
opposition	14475 Jul 08 14:07	29° <b>る</b> 05'04	0°57'32	conjunction	14482 Feb 05 20:30	29° <b>≈</b> 14'12	0°22'56
min. Earth dist.	14475 Jul 08 20:27	29° <b>る</b> 04'23	17.73706 AU	minimum elong	14482 Feb 05 20:30	29° <b>≈</b> 14'12	0°23'33
direct	14475 Sep 21 09:03	27° <b>る</b> 02'07		max. Earth dist.	14482 Feb 05 11:44	29° <b>≈</b> 12'51	19.45603 AU
	14475 Dec 17 06:47	0° <b>≈</b>			14482 Feb 18 04:08	0° <b>)</b>	
evening set	14475 Dec 23 01:58	0° <b>≈</b> 20'33		morning rise	14482 Feb 22 10:01	0° <b>)</b> 15′32	
				retrograde	14482 May 27 03:02	3° <b>)</b> (39′46	
conjunction	14476 Jan 08 13:42	1° <b>≈</b> 20′38	0°49'52	opposition	14482 Aug 09 15:07	1° <b>)</b> 36′15	0°22'41
minimum elong	14476 Jan 08 13:42	1° <b>≈</b> 20′38	0°50'48	min. Earth dist.	14482 Aug 09 22:02	1° <b>)</b> 35′30	17.44110 AU
max. Earth dist.	14476 Jan 08 06:59	1° <b>≈</b> 19′36	19.70934 AU		14482 Sep 20 18:17	30° <b>R</b> ≈	
morning rise	14476 Jan 25 02:13	2° <b>≈</b> 20'53		direct	14482 Oct 23 14:29	29° <b>≈</b> 31′50	
retrograde	14476 Apr 28 06:22	5° <b>≈</b> 42'33			14482 Nov 24 21:59	0° <b>∀</b>	
opposition	14476 Jul 12 09:02	3° <b>≈</b> 39'16	0°53'31	evening set	14483 Jan 25 09:42	2° <b>升</b> 56'11	
min. Earth dist.	14476 Jul 12 14:51	3° <b>≈</b> 38'38	17.68279 AU				
direct	14476 Sep 25 04:14	1° <b>≈</b> 36′02		conjunction	14483 Feb 10 23:31	3° <b>¥</b> 57'39	0°17'40
evening set	14476 Dec 27 01:06	4° <b>≈</b> 55'24		minimum elong	14483 Feb 10 23:32	3° <b>¥</b> 57'39	0°18'13
				max. Earth dist.	14483 Feb 10 14:33	3° <b>¥</b> 56'15	19.42694 AU
conjunction	14477 Jan 12 13:09	5° <b>≈</b> 55'45	0°46'04	morning rise	14483 Feb 27 12:56	4° <b>)</b> 59′05	
minimum elong	14477 Jan 12 13:10	5° <b>≈</b> 55'45	0°46'58	retrograde	14483 Jun 01 02:35	8° <b>)</b> €23'30	
max. Earth dist.	14477 Jan 12 05:10	5° <b>≈</b> 54'31	19.65699 AU	opposition	14483 Aug 14 13:55	6° <b>)</b> 19′58	0°16'44
morning rise	14477 Jan 29 02:06	6° <b>≈</b> 56'14		min. Earth dist.	14483 Aug 14 22:03	6° <b>米</b> 19′05	17.41386 AU
retrograde	14477 May 03 04:08	10° <b>≈</b> 18′26		direct	14483 Oct 28 13:33	4° <b>)</b> 15′21	
opposition	14477 Jul 17 04:46	8° <b>≈</b> 15′02	0°49'08	evening set	14484 Jan 30 13:06	7° <b>)</b> 40′18	
min. Earth dist.	14477 Jul 17 11:28	8° <b>≈</b> 14'19	17.63249 AU				
direct	14477 Sep 29 23:15	6°≈11'33		conjunction	14484 Feb 16 02:56	8° <b>)</b> 41′52	0°12'16
evening set	14478 Jan 01 00:39	9° <b>≈</b> 31'52		minimum elong	14484 Feb 16 02:56	8° <b>)</b> 41′52	0°12'44
				behind sun begin	14484 Feb 15 22:46	8° <b>)</b> (41′14	
conjunction	14478 Jan 17 13:16	10° <b>≈</b> 32′26	0°41'58	behind sun end	14484 Feb 16 07:06	8° <b>)</b> 42′30	
minimum elong	14478 Jan 17 13:17	10° <b>≈</b> 32′26	0°42'51	max. Earth dist.	14484 Feb 15 17:15	8° <b>)</b> 40′22	19.40170 AU
max. Earth dist.	14478 Jan 17 06:05	10° <b>≈</b> 31′20	19.60878 AU	morning rise	14484 Mar 03 16:16	9° <b>)</b> 43′22	
morning rise	14478 Feb 03 02:22	11° <b>≈</b> 33′08		retrograde	14484 Jun 05 04:41	13° <b>∺</b> 07'55	
retrograde	14478 May 08 03:53	14° <b>≈</b> 55'51		opposition	14484 Aug 18 12:45	11° <b>∺</b> 04'20	0°10'38
opposition	14478 Jul 22 00:56	12° <b>≈</b> 52′23	0°44'25	min. Earth dist.	14484 Aug 18 20:11		17.39060 AU
min. Earth dist.	14478 Jul 22 06:49	12° <b>≈</b> 51'45	17.58629 AU	direct	14484 Nov 01 15:02	8° <b>)</b> 59'32	
direct	14478 Oct 04 20:16	10° <b>≈</b> 48'43		evening set	14485 Feb 03 16:43	12° <b>∺</b> 24'59	
evening set	14479 Jan 06 01:12	14° <b>≈</b> 09'55					
	14479 Jan 19 16:43	15° <b>≈</b>		conjunction	14485 Feb 20 06:35	13° <b>∺</b> 26′38	0°06'47
				minimum elong	14485 Feb 20 06:35	13° <b>∺</b> 26′38	0°07'11
conjunction	14479 Jan 22 14:05	15° <b>≈</b> 10'43	0°37'35	behind sun begin	14485 Feb 20 00:23	13° <b>¥</b> 25'42	
minimum elong	14479 Jan 22 14:06	15° <b>≈</b> 10'43	0°38'23	behind sun end	14485 Feb 20 12:47	13° <b>¥</b> 27'35	
max. Earth dist.	14479 Jan 22 05:59	15° <b>≈</b> 09′28	19.56474 AU	max. Earth dist.	14485 Feb 19 21:21		19.38050 AU
morning rise	14479 Feb 08 03:28	16° <b>≈</b> 11'36		morning rise	14485 Mar 08 19:34	14° <b>∺</b> 28'12	
retrograde	14479 May 13 02:05	19° <b>≈</b> 34'48		retrograde	14485 Jun 10 04:29	17° <b>)</b> € 52'46	
opposition	14479 Jul 26 21:44	17° <b>≈</b> 31'18	0°39'22	opposition	14485 Aug 23 12:07	15° <b>)</b> 49'11	0°04'27
min. Earth dist.	14479 Jul 27 04:45		17.54438 AU	min. Earth dist.	14485 Aug 23 20:24		17.37165 AU
direct	14479 Oct 09 16:46	15° <b>≈</b> 27′26		direct	14485 Nov 06 14:31	13° <b>)</b> 44′12	
evening set	14480 Jan 11 02:22	18° <b>≈</b> 49'31		evening set	14486 Feb 08 20:23	17° <b>∺</b> 10'05	
	14400 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	100 5	0000:		14406	1001/4	0001:
conjunction	14480 Jan 27 15:41	19° <b>≈</b> 50'32	0°32'55	conjunction	14486 Feb 25 10:01	18° <b>)</b> 11'46	0°01'12
minimum elong	14480 Jan 27 15:42	19°≈50'32	0°33'41	minimum elong	14486 Feb 25 10:01	18° <b>)</b> 11'46	0°01'32
max. Earth dist.	14480 Jan 27 07:54		19.52487 AU	behind sun begin	14486 Feb 25 03:16	18° <b>)</b> (10'44	
morning rise	14480 Feb 13 05:10	20°≈51'35		behind sun end	14486 Feb 25 16:46	18° <b>)</b> 12'48	10.06100 :=:
retrograde	14480 May 17 02:47	24°≈15'12		max. Earth dist.	14486 Feb 25 00:04		19.36400 AU
opposition	14480 Jul 30 18:58	22°≈11'42	0°34'03	morning rise	14486 Mar 13 22:52	19° <b>)</b> 13′21	
min. Earth dist.	14480 Jul 31 01:18	22°≈11'01	17.50634 AU	desc. node	14486 May 17 11:25	22° <b>)</b> 15′15	
direct	14480 Oct 13 15:46	20°≈07'39		retrograde	14486 Jun 15 06:25	22° <b>)</b> 37'55	
evening set	14481 Jan 15 04:21	23° <b>≈</b> 30′35		opposition	14486 Aug 28 11:32	20° <b>)</b> (34′18	
				min. Earth dist.	14486 Aug 28 19:03		17.35760 AU
conjunction	14481 Jan 31 17:50	24° <b>≈</b> 31'46	0°28'02	direct	14486 Nov 11 16:30	18° <b>¥</b> 29′09	

evening set	14487 Feb 14 00:11	21° <b>¥</b> 55′22		min. Earth dist.	14492 Sep 25 15:14		17.39415 AU
. ,.	1440734 02 12 47	2201/57106	000.4120	direct	14492 Dec 10 01:37	16° <b>℃</b> 57'55	
conjunction	14487 Mar 02 13:47	22° <b>)</b> 57'06		evening set	14493 Mar 14 21:04	20° <b>Y</b> 24'36	
minimum elong	14487 Mar 02 13:47	22° <b>)</b> 57'05	0°04'15		1440234 21 07 50	2100025152	0025154
behind sun begin	14487 Mar 02 07:09	22°\(\)\(56'05\)		conjunction	14493 Mar 31 07:58	21° <b>Y</b> 25'52 21° <b>Y</b> 25'52	
behind sun end	14487 Mar 02 20:25	22°¥58'06	19.35243 AU	minimum elong	14493 Mar 31 07:58		19.40678 AU
max. Earth dist.	14487 Mar 02 04:59	22° <del>K</del> 55'44 23° <del>K</del> 58'40	19.35243 AU	max. Earth dist.	14493 Mar 31 02:21	21°°° 125°00 22°° 126'52	19.406/8 AU
morning rise	14487 Mar 19 02:07 14487 Jun 20 06:08	23° ★ 38°40 27° ★ 23'08		morning rise	14493 Apr 16 16:50	25° <b>Y</b> 49'41	
retrograde		25° <b>¥</b> 19'31	0007150	retrograde	14493 Jul 18 05:17	23° <b>Y</b> 4941 23° <b>Y</b> 46'51	00.4212.6
opposition	14487 Sep 02 11:05		17.34869 AU	opposition min. Earth dist.	14493 Sep 30 09:28 14493 Sep 30 13:58		17.42079 AU
min. Earth dist.	14487 Sep 02 19:01	23° <del>X</del> 18'39 23° <del>X</del> 14'14	17.34809 AU	direct		23° \ 46 22 21°\ \ 41'49	17.42079 AU
direct	14487 Nov 16 16:46	26° <del>X</del> 40'43			14493 Dec 15 04:19	25° <b>Y</b> '08'17	
evening set	14488 Feb 19 04:09	20° <b>π</b> 40'43		evening set	14494 Mar 19 23:39	25 1 08 1 /	
conjunction	14488 Mar 06 17:19	27° <b>)</b> 42′26	0°10'01	conjunction	14494 Apr 05 09:48	26° <b>Y</b> ′09'24	0040128
minimum elong	14488 Mar 06 17:19	27° <b>)</b> (42'26	0°09'51	minimum elong	14494 Apr 05 09:47	26°Υ09'24	0°40'50
behind sun begin	14488 Mar 06 11:51	27° <b>)</b> (42'26' 27° <b>)</b> (41'36'	0 09 31	max. Earth dist.	14494 Apr 05 04:03		19.43581 AU
behind sun end	14488 Mar 06 22:47	27°\\\41'30			14494 Apr 21 18:00	20 Y 08 30 27°Y 10'14	19.43381 AU
		_, ,,	10.24624 ATT	morning rise	1		
max. Earth dist.	14488 Mar 06 07:43		19.34634 AU		14494 Jun 18 15:29	0°8	
morning rise	14488 Mar 23 05:24	28° <b>)</b> (43′59		retrograde	14494 Jul 23 03:23	0° <b>8</b> 32'37	
	14488 Apr 14 01:13	0°Υ ••••••			14494 Aug 27 10:12	30°₹ <b>Υ</b>	
retrograde	14488 Jun 24 07:18	2° <b>Y</b> ′08'17		opposition	14494 Oct 05 09:08	28° <b>Y</b> ′30′00	
opposition	14488 Sep 06 10:44	0° <b>Y</b> ′04'41		min. Earth dist.	14494 Oct 05 13:54		17.45217 AU
min. Earth dist.	14488 Sep 06 17:58		17.34551 AU	direct	14494 Dec 20 05:28	26° <b>Y</b> °25′08	
	14488 Sep 08 05:35	30°₽ <b>,</b> ₩		evening set	14495 Mar 25 01:53	29° <b>Y</b> ′51′19	
direct	14488 Nov 20 18:57	27° <b>¥</b> 59'18			14495 Mar 27 10:49	0°8	
	14489 Jan 29 08:48	$0^{\circ}$ $\Upsilon$					
evening set	14489 Feb 23 07:46	1° <b>Y</b> 25'58		conjunction	14495 Apr 10 11:25	0° <b>8</b> 52'14	
				minimum elong	14495 Apr 10 11:25	0° <b>8</b> 52'14	0°45'11
conjunction	14489 Mar 11 20:44	2° <b>Y</b> 27'39	-0°15'29	max. Earth dist.	14495 Apr 10 06:34	0° <b>8</b> 51'29	19.46922 AU
minimum elong	14489 Mar 11 20:44	2° <b>Y</b> 27'39	0°15'26	morning rise	14495 Apr 26 18:49	1° <b>8</b> 52'52	
behind sun begin	14489 Mar 11 19:05	2° <b>Y</b> ′27'24		retrograde	14495 Jul 28 02:48	5° <b>8</b> 14'43	
behind sun end	14489 Mar 11 22:23	2° <b>Y</b> ′27'54		opposition	14495 Oct 10 08:23	3° <b>8</b> 12'21	-0°52'08
max. Earth dist.	14489 Mar 11 12:48	2° <b>Y</b> 26'25	19.34601 AU	min. Earth dist.	14495 Oct 10 12:05	3° <b>8</b> 11'57	17.48745 AU
morning rise	14489 Mar 28 08:06	3° <b>Y</b> 29'08		direct	14495 Dec 25 08:03	1° <b>8</b> 07'39	
retrograde	14489 Jun 29 06:49	6° <b>Ƴ</b> 53'14		evening set	14496 Mar 29 03:42	4° <b>8</b> 33'27	
opposition	14489 Sep 11 10:33	4° <b>Ƴ</b> 49'42	-0°20'13				
min. Earth dist.	14489 Sep 11 17:30	4° <b>Ƴ</b> 48'56	17.34823 AU	conjunction	14496 Apr 14 12:27	5° <b>8</b> 34'10	-0°48'43
direct	14489 Nov 25 20:09	2° <b>Y</b> ′44'17		minimum elong	14496 Apr 14 12:27	5° <b>8</b> 34'10	0°49'14
evening set	14490 Feb 28 11:28	6° <b>Y</b> 11'03		max. Earth dist.	14496 Apr 14 07:41	5° <b>8</b> 33'26	19.50627 AU
S				morning rise	14496 Apr 30 19:03	6° <b>8</b> 34'36	
conjunction	14490 Mar 16 23:51	7° <b>Ƴ</b> 12'39	-0°20'51	retrograde	14496 Aug 01 00:08	9° <b>8</b> 55'53	
minimum elong	14490 Mar 16 23:50	7° <b>Υ</b> 12'39		opposition	14496 Oct 14 07:42	7° <b>8</b> 53'44	-0°56'22
max. Earth dist.	14490 Mar 16 15:21		19.35192 AU	min. Earth dist.	14496 Oct 14 11:54		17.52632 AU
morning rise	14490 Apr 02 10:49	8° <b>Υ</b> 14'04	19.30192110	direct	14496 Dec 29 08:19	5° <b>8</b> 49'11	17.02002110
retrograde	14490 Jul 04 07:00	11° <b>Y</b> '37'55		evening set	14497 Apr 03 04:41	9° <b>8</b> 14'31	
opposition	14490 Sep 16 10:17	9° <b>Y</b> ′34'28	-0°26'09	evening sec	11.07.11p1 05 01.11	, 01.01	
min. Earth dist.	14490 Sep 16 16:37		17.35742 AU	conjunction	14497 Apr 19 12:42	10° <b>8</b> 15'00	-0°52'21
direct	14490 Nov 30 21:54	7° <b>Υ</b> 29'03		minimum elong	14497 Apr 19 12:41	10°815'00	
evening set	14491 Mar 05 14:48	10° <b>Υ</b> 55'52		max. Earth dist.	14497 Apr 19 08:26		19.54676 AU
evening set	14471 14101 03 14.40	10 1 33 32		morning rise	14497 May 05 18:30	11° <b>8</b> 15'12	17.54070710
conjunction	14491 Mar 22 02:53	11° <b>Y</b> ′57'24	-0°26'04	retrograde	14497 Aug 05 22:47	14° <b>8</b> 35'51	
minimum elong	14491 Mar 22 02:53	11° <b>Υ</b> '57'24		opposition	14497 Oct 19 06:32	12° <b>8</b> 33'55	1°00'13
max. Earth dist.	14491 Mar 21 20:08		19.36425 AU	min. Earth dist.	14497 Oct 19 00:32		17.56830 AU
		11 <b>γ</b> 36 21 12° <b>γ</b> 58'41	19.30423 AU	direct	14497 Oct 19 09.21 14498 Jan 03 09:49	12 <b>8</b> 33 30	17.30830 AU
morning rise	14491 Apr 07 13:07	12 <b>γ</b> 3841 16° <b>γ</b> 22'14					
retrograde	14491 Jul 09 06:40	$16^{\circ}$ <b>Y</b> 22 14 $14^{\circ}$ <b>Y</b> 18'57	0°31'52	evening set	14498 Apr 08 05:07	13° <b>8</b> 54'17	
opposition	14491 Sep 21 10:04			aaminus -ti	14409 4 24 12 22	140954122	0055120
min. Earth dist.	14491 Sep 21 15:41	14°° <b>Y</b> ′18'20 12° <b>Y</b> ′13'38	17.37277 AU	conjunction	14498 Apr 24 12:23	14° <b>8</b> 54'33	
direct	14491 Dec 06 00:01			minimum elong	14498 Apr 24 12:22	14° <b>8</b> 54'33	
evening set	14492 Mar 09 18:10	15° <b>Ƴ</b> 40′25		max. Earth dist.	14498 Apr 24 08:43	_	19.59016 AU
	1440025	1.0000	0001105		14498 Apr 25 23:28	15° <b>8</b>	
conjunction	14492 Mar 26 05:33	16° <b>Y</b> 41'49		morning rise	14498 May 10 17:21	15° <b>8</b> 54'30	
minimum elong	14492 Mar 26 05:32	16° <b>Y</b> 41'49		retrograde	14498 Aug 10 19:17	19° <b>8</b> 14'29	
max. Earth dist.	14492 Mar 25 22:25		19.38265 AU	opposition	14498 Oct 24 04:59	17° <b>8</b> 12'43	
morning rise	14492 Apr 11 15:13	17° <b>Y</b> ′42'59		min. Earth dist.	14498 Oct 24 08:26		17.61322 AU
retrograde	14492 Jul 13 05:40	21° <b>Y</b> ′06'12		direct	14499 Jan 08 09:19	15° <b>8</b> 08'31	
opposition	14492 Sep 25 09:48	19° <b>Ƴ</b> 03'07	-0°37'22	evening set	14499 Apr 13 04:48	18° <b>8</b> 32'37	

conjunction	14499 Apr 29 11:17	19° <b>8</b> 32'37	-0°58'32	retrograde	14505 Sep 12 01:44	20° <b>Ⅲ</b> 56′22	
minimum elong	14499 Apr 29 11:16	19° <b>8</b> 32'37	0°59'15	opposition	14505 Nov 26 04:02	18° <b>II</b> 55'56	-1°15'09
max. Earth dist.	14499 Apr 29 07:42	_	19.63650 AU	min. Earth dist.	14505 Nov 26 01:32		18.00474 AU
morning rise	14499 May 15 15:33	20° <b>8</b> 32'19	19.03030 AU	direct	14506 Feb 10 23:39	16° <b>Ⅱ</b> 53'17	18.00474 AU
•	•	23° <b>8</b> 51'34				10 <b>Д</b> 3317 20° <b>Д</b> 11'21	
retrograde	14499 Aug 15 16:23	_	1007140	evening set	14506 May 16 01:13	20° <b>H</b> 11'21	
opposition	14499 Oct 29 02:57	21° <b>8</b> 50'00			14506 1 01 02 27	2101120122	1007121
min. Earth dist.	14499 Oct 29 04:56	_	17.66083 AU	conjunction	14506 Jun 01 02:37	21° <b>Ⅲ</b> 09'23	
direct	14500 Jan 13 10:03	19° <b>8</b> 45'57		minimum elong	14506 Jun 01 02:37	21° <b>Ⅱ</b> 09'23	1°08'31
evening set	14500 Apr 18 03:35	23° <b>8</b> 09'19		max. Earth dist.	14506 Jun 01 05:31		20.03701 AU
				morning rise	14506 Jun 17 01:53	22° <b>Ⅲ</b> 07′08	
conjunction	14500 May 04 09:20	24° <b>8</b> 09'04	-1°01'03	retrograde	14506 Sep 16 16:35	25° <b>Ⅱ</b> 20'56	
minimum elong	14500 May 04 09:19	24° <b>8</b> 09'04	1°01'49	opposition	14506 Nov 30 22:13	23° <b>Ⅲ</b> 20′48	-1°14'57
max. Earth dist.	14500 May 04 06:55	24° <b>8</b> 08'41	19.68537 AU	min. Earth dist.	14506 Nov 30 19:43	23° <b>Ⅲ</b> 21′03	18.06997 AU
morning rise	14500 May 20 12:42	25° <b>8</b> 08'29		direct	14507 Feb 15 19:03	21° <b>Ⅱ</b> 18'30	
retrograde	14500 Aug 20 11:12	28° <b>8</b> 26'59		evening set	14507 May 20 17:56	24° <b>Ⅱ</b> 35'38	
opposition	14500 Nov 03 00:36	26° <b>8</b> 25'34	-1°09'14	5 · 5 · · · · · · · · · · · · · · · · ·			
min. Earth dist.	14500 Nov 03 03:01	_	17.71111 AU	conjunction	14507 Jun 05 18:31	25° <b>Ⅲ</b> 33'22	-1°07'10
	14501 Jan 18 09:11	24° <b>8</b> 21'41	17.71111 AO	v		25° <b>II</b> 33'22	1°08'12
direct		_		minimum elong	14507 Jun 05 18:31		
evening set	14501 Apr 23 01:32	27° <b>8</b> 44'15		max. Earth dist.	14507 Jun 05 20:56		20.10269 AU
				morning rise	14507 Jun 21 17:23	26° <b>Ⅲ</b> 30'51	
conjunction	14501 May 09 06:24	28° <b>8</b> 43'43	-1°03'09	retrograde	14507 Sep 21 08:23	29° <b>Ⅱ</b> 43'56	
minimum elong	14501 May 09 06:24	28° <b>8</b> 43'43	1°03'59	opposition	14507 Dec 05 15:55	27° <b>Ⅱ</b> 44'03	-1°14'20
max. Earth dist.	14501 May 09 04:00	28° <b>8</b> 43'21	19.73709 AU	min. Earth dist.	14507 Dec 05 12:24	27° <b>Ⅱ</b> 44'25	18.13589 AU
morning rise	14501 May 25 09:10	29° <b>8</b> 42'52		direct	14508 Feb 20 13:55	25° <b>Ⅱ</b> 42'05	
-	14501 May 30 04:04	$\Pi^{\circ}0$		evening set	14508 May 24 09:33	28° <b>Ⅲ</b> 58'17	
retrograde	14501 Aug 25 06:27	3° <b>I</b> I00'35		Ç	,		
opposition	14501 Nov 07 21:30	0° <b>П</b> 59'19	-1°11'21	conjunction	14508 Jun 09 09:40	29° <b>∏</b> 55'45	-1°06'26
min. Earth dist.	14501 Nov 07 22:15		17.76423 AU	minimum elong	14508 Jun 09 09:40		1°07'28
iiiii. Lattii dist.	14501 Dec 02 04:48	30°R <b>B</b>	17.70423 AU	max. Earth dist.	14508 Jun 09 13:49		20.16856 AU
Ľ .				max. Earth dist.			20.10630 AU
direct	14502 Jan 23 09:00	28° <b>8</b> 55'37			14508 Jun 10 13:52	0₀æ	
_	14502 Mar 14 21:21	0°II		morning rise	14508 Jun 25 07:50	0°©52'58	
evening set	14502 Apr 27 22:23	2° <b>Ⅱ</b> 17'19		retrograde	14508 Sep 24 22:09	4° <b>©</b> 05'19	
				opposition	14508 Dec 09 09:12	2° <b>©</b> 05'42	-1°13'17
conjunction	14502 May 14 02:38	3° <b>Ⅱ</b> 16'31	-1°04'51	min. Earth dist.	14508 Dec 09 05:33	2° <b>5</b> 06'05	18.20152 AU
minimum elong	14502 May 14 02:38	3° <b>Ⅱ</b> 16'31	1°05'45	direct	14509 Feb 24 08:15	0°904'06	
max. Earth dist.	14502 May 14 01:56	3° <b>Ⅱ</b> 16′24	19.79158 AU	evening set	14509 May 29 00:36	3° <b>5</b> 19'19	
morning rise	14502 May 30 04:32	4° <b>Ⅱ</b> 15'23					
retrograde	14502 Aug 29 23:37	7° <b>Ⅲ</b> 32'17		conjunction	14509 Jun 13 23:58	4°9516'30	-1°05'19
opposition	14502 Nov 12 18:03	5° <b>Ⅱ</b> 31'11	-1°13'00	minimum elong	14509 Jun 13 23:58	4°9516'30	
min. Earth dist.	14502 Nov 12 18:57		17.82020 AU	max. Earth dist.			20.23391 AU
direct	14302 NOV 12 10.37	3 11 03	17.02020 AU	max. Laith dist.	1/1509 Jun 1/1 03:78		20.23371 AU
unect	14502 Ion 29 07:27	20 <b>T</b> つ714つ		morning rise	14509 Jun 14 03:28		
	14503 Jan 28 07:37	3° <b>Ⅱ</b> 27'42		morning rise	14509 Jun 29 21:50	5° <b>©</b> 13'28	
evening set	14503 Jan 28 07:37 14503 May 02 18:33	3° <b>Ⅱ</b> 27'42 6° <b>Ⅱ</b> 48'31		retrograde	14509 Jun 29 21:50 14509 Sep 29 12:33	5°©13'28 8°©25'07	1011110
	14503 May 02 18:33	6° <b>Ⅱ</b> 48'31		retrograde opposition	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44	5°©13'28 8°©25'07 6°©25'44	
conjunction	14503 May 02 18:33 14503 May 18 21:54	6° <b>Ⅱ</b> 48'31 7° <b>Ⅱ</b> 47'24		retrograde opposition min. Earth dist.	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29	5°\$13'28 8°\$25'07 6°\$25'44 6°\$26'11	-1°11'49 18.26647 AU
	14503 May 02 18:33 14503 May 18 21:54 14503 May 18 21:54	6°Щ48'31 7°Щ47'24 7°Щ47'24	1°07'03	retrograde opposition min. Earth dist. direct	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44	5°©13'28 8°©25'07 6°©25'44	
conjunction minimum elong max. Earth dist.	14503 May 02 18:33 14503 May 18 21:54	6°Щ48'31 7°Щ47'24 7°Щ47'24		retrograde opposition min. Earth dist.	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29	5°\$13'28 8°\$25'07 6°\$25'44 6°\$26'11	
conjunction minimum elong	14503 May 02 18:33 14503 May 18 21:54 14503 May 18 21:54	6°Щ48'31 7°Щ47'24 7°Щ47'24	1°07'03	retrograde opposition min. Earth dist. direct	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12	5°\$13'28 8°\$25'07 6°\$25'44 6°\$26'11 4°\$24'27	
conjunction minimum elong max. Earth dist.	14503 May 02 18:33 14503 May 18 21:54 14503 May 18 21:54 14503 May 18 21:06	6°П48'31 7°П47'24 7°П47'24 7°П47'17	1°07'03	retrograde opposition min. Earth dist. direct	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12	5°\$13'28 8°\$25'07 6°\$25'44 6°\$26'11 4°\$24'27	18.26647 AU
conjunction minimum elong max. Earth dist. morning rise	14503 May 02 18:33 14503 May 18 21:54 14503 May 18 21:54 14503 May 18 21:06 14503 Jun 03 23:13	6°П48'31 7°П47'24 7°П47'24 7°П47'17 8°П46'00	1°07'03 19.84905 AU	retrograde opposition min. Earth dist. direct evening set	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12 14510 Jun 02 14:40	5°\$13'28 8°\$25'07 6°\$25'44 6°\$26'11 4°\$24'27 7°\$38'43	18.26647 AU -1°03'51
conjunction minimum elong max. Earth dist. morning rise retrograde	14503 May 02 18:33 14503 May 18 21:54 14503 May 18 21:54 14503 May 18 21:06 14503 Jun 03 23:13 14503 Sep 03 17:05 14503 Nov 17 13:49	6°П48'31 7°П47'24 7°П47'17 8°П46'00 12°П02'07 10°П01'12	1°07'03 19.84905 AU -1°14'10	retrograde opposition min. Earth dist. direct evening set conjunction	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12 14510 Jun 02 14:40 14510 Jun 18 13:41 14510 Jun 18 13:41	5°\$13'28 8°\$25'07 6°\$25'44 6°\$26'11 4°\$24'27 7°\$38'43 8°\$35'39 8°\$35'39	18.26647 AU -1°03'51
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	14503 May 02 18:33 14503 May 18 21:54 14503 May 18 21:54 14503 May 18 21:06 14503 Jun 03 23:13 14503 Sep 03 17:05 14503 Nov 17 13:49 14503 Nov 17 12:58	6°П48'31 7°П47'24 7°П47'17 8°П46'00 12°П02'07 10°П01'12 10°П01'17	1°07'03 19.84905 AU	retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12 14510 Jun 02 14:40 14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 13:41	5°\$13'28 8°\$25'07 6°\$25'44 6°\$26'11 4°\$24'27 7°\$38'43 8°\$35'39 8°\$35'39 8°\$36'23	18.26647 AU -1°03'51 1°04'53
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	14503 May 02 18:33 14503 May 18 21:54 14503 May 18 21:54 14503 May 18 21:06 14503 Jun 03 23:13 14503 Sep 03 17:05 14503 Nov 17 13:49 14503 Nov 17 12:58 14504 Feb 02 06:02	6°Щ48'31 7°Щ47'24 7°Щ47'17 8°Щ46'00 12°Щ02'07 10°Щ01'12 10°Щ01'17 7°Щ57'56	1°07'03 19.84905 AU -1°14'10	retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12 14510 Jun 02 14:40 14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 18:36 14510 Jul 04 10:59	5°@13'28 8°@25'07 6°@25'44 6°@26'11 4°@24'27 7°@38'43 8°@35'39 8°@35'39 8°@36'23 9°@32'22	18.26647 AU -1°03'51 1°04'53
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	14503 May 02 18:33 14503 May 18 21:54 14503 May 18 21:54 14503 May 18 21:06 14503 Jun 03 23:13 14503 Sep 03 17:05 14503 Nov 17 13:49 14503 Nov 17 12:58	6°П48'31 7°П47'24 7°П47'17 8°П46'00 12°П02'07 10°П01'12 10°П01'17	1°07'03 19.84905 AU -1°14'10	retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12 14510 Jun 02 14:40 14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 18:36 14510 Jul 04 10:59 14510 Oct 04 01:28	5°@13'28 8°@25'07 6°@25'44 6°@26'11 4°@24'27 7°@38'43 8°@35'39 8°@35'39 8°@36'23 9°@32'22 12°@43'18	18.26647 AU -1°03'51 1°04'53 20.29814 AU
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	14503 May 02 18:33 14503 May 18 21:54 14503 May 18 21:54 14503 May 18 21:06 14503 Jun 03 23:13 14503 Sep 03 17:05 14503 Nov 17 13:49 14503 Nov 17 12:58 14504 Feb 02 06:02 14504 May 06 13:41	6°Щ48'31  7°Щ47'24  7°Щ47'17  8°Щ46'00 12°Щ02'07 10°Щ01'12 10°Щ01'17 7°Щ57'56 11°Щ17'52	1°07'03 19.84905 AU -1°14'10 17.87915 AU	retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12 14510 Jun 02 14:40 14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 18:36 14510 Jul 04 10:59 14510 Oct 04 01:28 14510 Dec 18 17:50	5°@13'28 8°@25'07 6°@25'44 6°@26'11 4°@24'27 7°@38'43 8°@35'39 8°@35'39 8°@36'23 9°@32'22 12°@43'18 10°@44'09	18.26647 AU -1°03'51 1°04'53 20.29814 AU -1°09'59
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction	14503 May 02 18:33 14503 May 18 21:54 14503 May 18 21:54 14503 May 18 21:06 14503 Jun 03 23:13 14503 Sep 03 17:05 14503 Nov 17 13:49 14503 Nov 17 12:58 14504 Feb 02 06:02 14504 May 06 13:41 14504 May 22 16:27	6°Щ48'31  7°Щ47'24  7°Щ47'17  8°Щ46'00 12°Щ02'07 10°Щ01'12 10°Щ01'17 7°Щ57'56 11°Щ17'52	1°07'03 19.84905 AU -1°14'10 17.87915 AU -1°07'01	retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12 14510 Jun 02 14:40 14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 18:36 14510 Jul 04 10:59 14510 Oct 04 01:28 14510 Dec 18 17:50 14510 Dec 18 13:25	5°@13'28 8°@25'07 6°@25'44 6°@26'11 4°@24'27 7°@38'43 8°@35'39 8°@35'39 8°@36'23 9°@32'22 12°@43'18 10°@44'09 10°@44'37	18.26647 AU -1°03'51 1°04'53 20.29814 AU
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	14503 May 02 18:33 14503 May 18 21:54 14503 May 18 21:54 14503 May 18 21:06 14503 Jun 03 23:13 14503 Sep 03 17:05 14503 Nov 17 13:49 14504 Feb 02 06:02 14504 May 06 13:41 14504 May 22 16:27 14504 May 22 16:26	6°Щ48'31  7°Щ47'24  7°Щ47'17  8°Щ46'00 12°Щ02'07 10°Щ01'12 10°Щ01'17  7°Щ57'56 11°Щ17'52  12°Щ16'28 12°Щ16'28	1°07'03 19.84905 AU -1°14'10 17.87915 AU -1°07'01 1°07'59	retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12 14510 Jun 02 14:40 14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 18:36 14510 Jul 04 10:59 14510 Oct 04 01:28 14510 Dec 18 17:50 14510 Dec 18 13:25 14511 Mar 05 18:28	5°@13'28 8°@25'07 6°@25'44 6°@26'11 4°@24'27 7°@38'43 8°@35'39 8°@35'39 8°@36'23 9°@32'22 12°@43'18 10°@44'09 10°@44'37 8°@43'11	18.26647 AU -1°03'51 1°04'53 20.29814 AU -1°09'59
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	14503 May 02 18:33 14503 May 18 21:54 14503 May 18 21:06 14503 May 18 21:06 14503 Jun 03 23:13 14503 Sep 03 17:05 14503 Nov 17 13:49 14504 Feb 02 06:02 14504 May 06 13:41 14504 May 22 16:27 14504 May 22 16:26 14504 May 22 17:36	6°Щ48'31  7°Щ47'24  7°Щ47'17  8°Щ46'00 12°Щ02'07 10°Щ01'12 10°Щ01'17  7°Щ57'56 11°Щ17'52  12°Щ16'28 12°Щ16'28 12°Щ16'39	1°07'03 19.84905 AU -1°14'10 17.87915 AU -1°07'01	retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12 14510 Jun 02 14:40 14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 18:36 14510 Jul 04 10:59 14510 Oct 04 01:28 14510 Dec 18 17:50 14510 Dec 18 13:25	5°@13'28 8°@25'07 6°@25'44 6°@26'11 4°@24'27 7°@38'43 8°@35'39 8°@35'39 8°@36'23 9°@32'22 12°@43'18 10°@44'09 10°@44'37	18.26647 AU -1°03'51 1°04'53 20.29814 AU -1°09'59
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	14503 May 02 18:33 14503 May 18 21:54 14503 May 18 21:54 14503 May 18 21:06 14503 Jun 03 23:13 14503 Sep 03 17:05 14503 Nov 17 13:49 14504 Feb 02 06:02 14504 May 06 13:41 14504 May 22 16:27 14504 May 22 16:26 14504 May 22 17:36 14504 Jun 07 16:55	6° II 48'31  7° II 47'24  7° II 47'17  8° II 46'00  12° II 02'07  10° II 01'17  7° II 57'56  11° II 17'52  12° II 16'28  12° II 16'39  13° II 14'46	1°07'03 19.84905 AU -1°14'10 17.87915 AU -1°07'01 1°07'59	retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12 14510 Jun 02 14:40  14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 18:36 14510 Jul 04 10:59 14510 Oct 04 01:28 14510 Dec 18 17:50 14510 Dec 18 13:25 14511 Mar 05 18:28 14511 Jun 07 04:07	5°\$13'28 8°\$25'07 6°\$25'44 6°\$26'11 4°\$24'27 7°\$38'43 8°\$35'39 8°\$35'39 8°\$36'23 9°\$32'22 12°\$43'18 10°\$44'09 10°\$44'37 8°\$43'11 11°\$56'29	18.26647 AU -1°03'51 1°04'53 20.29814 AU -1°09'59 18.32979 AU
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	14503 May 02 18:33  14503 May 18 21:54 14503 May 18 21:54 14503 May 18 21:06 14503 Jun 03 23:13 14503 Sep 03 17:05 14503 Nov 17 13:49 14504 Feb 02 06:02 14504 May 06 13:41  14504 May 22 16:26 14504 May 22 16:26 14504 May 22 17:36 14504 Jun 07 16:55 14504 Sep 07 09:08	6° \( \Pi 48'31\) 7° \( \Pi 47'24\) 7° \( \Pi 47'24\) 7° \( \Pi 47'17\) 8° \( \Pi 46'00\) 12° \( \Pi 02'07\) 10° \( \Pi 01'12\) 10° \( \Pi 01'17\) 7° \( \Pi 57'56\) 11° \( \Pi 17'52\) 12° \( \Pi 16'28\) 12° \( \Pi 16'28\) 12° \( \Pi 16'39\) 13° \( \Pi 14'46\) 16° \( \Pi 30'06\)	1°07'03 19.84905 AU -1°14'10 17.87915 AU -1°07'01 1°07'59 19.90939 AU	retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12 14510 Jun 02 14:40 14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 18:36 14510 Jul 04 10:59 14510 Oct 04 01:28 14510 Dec 18 17:50 14510 Dec 18 13:25 14511 Mar 05 18:28 14511 Jun 07 04:07	5°@13'28 8°@25'07 6°@25'44 6°@26'11 4°@24'27 7°@38'43 8°@35'39 8°@35'39 8°@36'23 9°@32'22 12°@43'18 10°@44'09 10°@44'37 8°@43'11 11°@56'29	18.26647 AU -1°03'51 1°04'53 20.29814 AU -1°09'59 18.32979 AU -1°02'02
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	14503 May 02 18:33 14503 May 18 21:54 14503 May 18 21:54 14503 May 18 21:06 14503 Jun 03 23:13 14503 Sep 03 17:05 14503 Nov 17 13:49 14504 Feb 02 06:02 14504 May 06 13:41 14504 May 22 16:27 14504 May 22 16:26 14504 May 22 17:36 14504 Jun 07 16:55	6° \( \Pi 48'31\) 7° \( \Pi 47'24\) 7° \( \Pi 47'24\) 7° \( \Pi 47'17\) 8° \( \Pi 46'00\) 12° \( \Pi 02'07\) 10° \( \Pi 01'12\) 10° \( \Pi 01'17\) 7° \( \Pi 57'56\) 11° \( \Pi 17'52\) 12° \( \Pi 16'28\) 12° \( \Pi 16'28\) 12° \( \Pi 16'39\) 13° \( \Pi 14'46\) 16° \( \Pi 30'06\) 14° \( \Pi 29'25\)	1°07'03 19.84905 AU -1°14'10 17.87915 AU -1°07'01 1°07'59 19.90939 AU	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	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12 14510 Jun 02 14:40  14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 18:36 14510 Jul 04 10:59 14510 Oct 04 01:28 14510 Dec 18 17:50 14510 Dec 18 13:25 14511 Mar 05 18:28 14511 Jun 07 04:07  14511 Jun 23 02:27 14511 Jun 23 02:28	5°@13'28 8°@25'07 6°@25'44 6°@26'11 4°@24'27 7°@38'43 8°@35'39 8°@35'39 8°@36'23 9°@32'22 12°@43'18 10°@44'09 10°@44'37 8°@43'11 11°@56'29	18.26647 AU  -1°03'51 1°04'53 20.29814 AU  -1°09'59 18.32979 AU  -1°02'02 1°03'05
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	14503 May 02 18:33  14503 May 18 21:54 14503 May 18 21:54 14503 May 18 21:06 14503 Jun 03 23:13 14503 Sep 03 17:05 14503 Nov 17 13:49 14504 Feb 02 06:02 14504 May 06 13:41  14504 May 22 16:26 14504 May 22 16:26 14504 May 22 17:36 14504 Jun 07 16:55 14504 Sep 07 09:08	6° \( \Pi 48'31\) 7° \( \Pi 47'24\) 7° \( \Pi 47'24\) 7° \( \Pi 47'17\) 8° \( \Pi 46'00\) 12° \( \Pi 02'07\) 10° \( \Pi 01'12\) 10° \( \Pi 01'17\) 7° \( \Pi 57'56\) 11° \( \Pi 17'52\) 12° \( \Pi 16'28\) 12° \( \Pi 16'28\) 12° \( \Pi 16'39\) 13° \( \Pi 14'46\) 16° \( \Pi 30'06\) 14° \( \Pi 29'25\)	1°07'03 19.84905 AU -1°14'10 17.87915 AU -1°07'01 1°07'59 19.90939 AU	retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12 14510 Jun 02 14:40 14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 18:36 14510 Jul 04 10:59 14510 Oct 04 01:28 14510 Dec 18 17:50 14510 Dec 18 13:25 14511 Mar 05 18:28 14511 Jun 07 04:07	5°@13'28 8°@25'07 6°@25'44 6°@26'11 4°@24'27 7°@38'43 8°@35'39 8°@35'39 8°@36'23 9°@32'22 12°@43'18 10°@44'09 10°@44'37 8°@43'11 11°@56'29	18.26647 AU -1°03'51 1°04'53 20.29814 AU -1°09'59 18.32979 AU -1°02'02
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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.	14503 May 02 18:33  14503 May 18 21:54 14503 May 18 21:54 14503 May 18 21:06 14503 Jun 03 23:13 14503 Sep 03 17:05 14503 Nov 17 13:49 14504 Feb 02 06:02 14504 May 06 13:41  14504 May 22 16:27 14504 May 22 16:26 14504 May 22 17:36 14504 Jun 07 16:55 14504 Sep 07 09:08 14504 Nov 21 09:19 14504 Nov 21 08:19	6° \( \Pi 48'31\) 7° \( \Pi 47'24\) 7° \( \Pi 47'24\) 7° \( \Pi 47'17\) 8° \( \Pi 46'00\) 12° \( \Pi 02'07\) 10° \( \Pi 01'12\) 10° \( \Pi 01'17\) 7° \( \Pi 57'56\) 11° \( \Pi 17'52\) 12° \( \Pi 16'28\) 12° \( \Pi 16'28\) 12° \( \Pi 16'39\) 13° \( \Pi 14'46\) 16° \( \Pi 30'06\) 14° \( \Pi 29'25\) 14° \( \Pi 29'31\)	1°07'03 19.84905 AU -1°14'10 17.87915 AU -1°07'01 1°07'59 19.90939 AU	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.	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12 14510 Jun 02 14:40  14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 18:36 14510 Jul 04 10:59 14510 Dec 18 17:50 14510 Dec 18 17:50 14511 Jun 07 04:07  14511 Jun 23 02:27 14511 Jun 23 02:28 14511 Jun 23 02:28 14511 Jun 23 06:36	5°@13'28 8°@25'07 6°@25'44 6°@26'11 4°@24'27 7°@38'43 8°@35'39 8°@35'39 8°@36'23 9°@32'22 12°@43'18 10°@44'09 10°@44'37 8°@43'11 11°@56'29 12°@53'09 12°@53'09 12°@53'46	18.26647 AU  -1°03'51 1°04'53 20.29814 AU  -1°09'59 18.32979 AU  -1°02'02 1°03'05
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	14503 May 02 18:33  14503 May 18 21:54 14503 May 18 21:54 14503 May 18 21:06 14503 Jun 03 23:13 14503 Sep 03 17:05 14503 Nov 17 13:49 14503 Nov 17 12:58 14504 Feb 02 06:02 14504 May 06 13:41  14504 May 22 16:27 14504 May 22 16:27 14504 May 22 16:26 14504 May 22 17:36 14504 Jun 07 16:55 14504 Sep 07 09:08 14504 Nov 21 09:19 14504 Nov 21 08:19 14505 Feb 06 03:02	6° \( \Pi 48'31\) 7° \( \Pi 47'24\) 7° \( \Pi 47'17\) 8° \( \Pi 46'00\) 12° \( \Pi 00'17\) 10° \( \Pi 01'12\) 10° \( \Pi 01'17\) 7° \( \Pi 57'56\) 11° \( \Pi 17'52\) 12° \( \Pi 16'28\) 12° \( \Pi 16'39\) 13° \( \Pi 14'46\) 16° \( \Pi 30'06\) 14° \( \Pi 29'31\) 12° \( \Pi 26'28\)	1°07'03 19.84905 AU -1°14'10 17.87915 AU -1°07'01 1°07'59 19.90939 AU	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	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12 14510 Jun 02 14:40  14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 18:36 14510 Jul 04 10:59 14510 Oct 04 01:28 14510 Dec 18 17:50 14510 Dec 18 13:25 14511 Mar 05 18:28 14511 Jun 07 04:07  14511 Jun 23 02:27 14511 Jun 23 02:28 14511 Jun 23 06:36 14511 Jul 08 23:30	5°@13'28 8°@25'07 6°@25'44 6°@26'11 4°@24'27 7°@38'43 8°@35'39 8°@35'39 8°@36'23 9°@32'22 12°@43'18 10°@44'09 10°@44'37 8°@43'11 11°@56'29 12°@53'09 12°@53'09 12°@53'46 13°@49'38 16°@59'54	18.26647 AU  -1°03'51 1°04'53 20.29814 AU  -1°09'59 18.32979 AU  -1°02'02 1°03'05 20.36054 AU
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	14503 May 02 18:33  14503 May 18 21:54 14503 May 18 21:54 14503 May 18 21:06 14503 Jun 03 23:13 14503 Sep 03 17:05 14503 Nov 17 13:49 14504 Feb 02 06:02 14504 May 06 13:41  14504 May 22 16:27 14504 May 22 16:27 14504 May 22 16:26 14504 May 22 17:36 14504 Jun 07 16:55 14504 Sep 07 09:08 14504 Nov 21 09:19 14504 Nov 21 08:19 14505 Feb 06 03:02 14505 May 11 07:53	6° II 48'31  7° II 47'24  7° II 47'24  7° II 47'17  8° II 46'00  12° II 02'07  10° II 01'17  7° II 57'56  11° II 17'52  12° II 16'28  12° II 16'28  12° II 16'39  13° II 14'46  16° II 30'06  14° II 29'25  14° II 29'31  12° II 26'28  15° II 45'27	1°07'03 19.84905 AU -1°14'10 17.87915 AU -1°07'01 1°07'59 19.90939 AU -1°14'53 17.94081 AU	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	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12 14510 Jun 02 14:40  14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 18:36 14510 Jul 04 10:59 14510 Dec 18 17:50 14510 Dec 18 17:50 14510 Dec 18 13:25 14511 Mar 05 18:28 14511 Jun 07 04:07  14511 Jun 23 02:27 14511 Jun 23 02:28 14511 Jun 23 02:28 14511 Jun 08 23:30 14511 Oct 08 14:19 14511 Dec 23 09:21	5°@13'28 8°@25'07 6°@25'44 6°@26'11 4°@24'27 7°@38'43 8°@35'39 8°@35'39 8°@36'23 9°@32'22 12°@43'18 10°@44'09 10°@44'37 8°@43'11 11°@56'29 12°@53'09 12°@53'46 13°@49'38 16°@59'54 15°@00'56	18.26647 AU  -1°03'51 1°04'53 20.29814 AU  -1°09'59 18.32979 AU  -1°02'02 1°03'05 20.36054 AU  -1°07'45
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	14503 May 02 18:33  14503 May 18 21:54 14503 May 18 21:54 14503 May 18 21:06 14503 Jun 03 23:13 14503 Sep 03 17:05 14503 Nov 17 13:49 14504 Feb 02 06:02 14504 May 06 13:41  14504 May 22 16:27 14504 May 22 16:26 14504 May 22 16:26 14504 May 22 17:36 14504 Jun 07 16:55 14504 Sep 07 09:08 14504 Nov 21 09:19 14504 Nov 21 09:19 14505 Feb 06 03:02 14505 May 11 07:53	6° II 48'31  7° II 47'24  7° II 47'24  7° II 47'17  8° II 46'00  12° II 02'07  10° II 01'17  7° II 57'56  11° II 17'52  12° II 16'28  12° II 16'28  12° II 16'39  13° II 14'46  16° II 30'06  14° II 29'31  12° II 26'28  15° II 45'27  16° II 43'46	1°07'03 19.84905 AU -1°14'10 17.87915 AU -1°07'01 1°07'59 19.90939 AU -1°14'53 17.94081 AU	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. morning rise retrograde opposition minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12 14510 Jun 02 14:40  14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 18:36 14510 Jul 04 10:59 14510 Oct 04 01:28 14510 Dec 18 17:50 14510 Dec 18 13:25 14511 Mar 05 18:28 14511 Jun 07 04:07  14511 Jun 23 02:28 14511 Jun 23 02:28 14511 Jun 23 02:28 14511 Jun 08 23:30 14511 Oct 08 14:19 14511 Dec 23 09:21 14511 Dec 23 09:21	5°@13'28 8°@25'07 6°@25'44 6°@26'11 4°@24'27 7°@38'43 8°@35'39 8°@35'39 8°@36'23 9°@32'22 12°@43'18 10°@44'09 10°@44'37 8°@43'11 11°@56'29 12°@53'09 12°@53'46 13°@49'38 16°@59'54 15°@00'56 15°@01'25	18.26647 AU  -1°03'51 1°04'53 20.29814 AU  -1°09'59 18.32979 AU  -1°02'02 1°03'05 20.36054 AU
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	14503 May 02 18:33  14503 May 18 21:54  14503 May 18 21:54  14503 May 18 21:06  14503 Jun 03 23:13  14503 Sep 03 17:05  14503 Nov 17 13:49  14504 Feb 02 06:02  14504 May 06 13:41  14504 May 22 16:27  14504 May 22 16:26  14504 May 22 16:26  14504 May 22 17:36  14504 Jun 07 16:55  14504 Sep 07 09:08  14504 Nov 21 09:19  14505 Feb 06 03:02  14505 May 11 07:53  14505 May 27 09:47  14505 May 27 09:47	6° II 48'31  7° II 47'24  7° II 47'24  7° II 47'17  8° II 46'00  12° II 02'07  10° II 01'17  7° II 57'56  11° II 17'52  12° II 16'28  12° II 16'28  12° II 16'39  13° II 14'46  16° II 30'06  14° II 29'25  14° II 29'31  12° II 26'28  15° II 45'27  16° II 43'46  16° II 43'46	1°07'03 19.84905 AU -1°14'10 17.87915 AU -1°07'01 1°07'59 19.90939 AU -1°14'53 17.94081 AU	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. morning rise retrograde opposition minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12 14510 Jun 02 14:40  14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 18:36 14510 Jul 04 10:59 14510 Dec 18 17:50 14510 Dec 18 13:25 14511 Mar 05 18:28 14511 Jun 07 04:07  14511 Jun 23 02:27 14511 Jun 23 02:28 14511 Jun 23 02:28 14511 Jun 23 06:36 14511 Jul 08 23:30 14511 Oct 08 14:19 14511 Dec 23 09:21 14511 Dec 23 04:37 14512 Mar 09 09:25	5°@13'28 8°@25'07 6°@25'44 6°@26'11 4°@24'27 7°@38'43 8°@35'39 8°@35'39 8°@35'22 12°@43'18 10°@44'09 10°@44'37 8°@43'11 11°@56'29 12°@53'09 12°@53'46 13°@49'38 16°@59'54 15°@00'56 15°@01'25 13°@00'14	18.26647 AU  -1°03'51 1°04'53 20.29814 AU  -1°09'59 18.32979 AU  -1°02'02 1°03'05 20.36054 AU  -1°07'45
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	14503 May 02 18:33  14503 May 18 21:54 14503 May 18 21:54 14503 May 18 21:06 14503 Jun 03 23:13 14503 Sep 03 17:05 14503 Nov 17 13:49 14504 Feb 02 06:02 14504 May 06 13:41  14504 May 22 16:27 14504 May 22 16:26 14504 May 22 16:26 14504 May 22 17:36 14504 Jun 07 16:55 14504 Sep 07 09:08 14504 Nov 21 09:19 14504 Nov 21 09:19 14505 Feb 06 03:02 14505 May 11 07:53	6° II 48'31  7° II 47'24  7° II 47'24  7° II 47'17  8° II 46'00  12° II 02'07  10° II 01'17  7° II 57'56  11° II 17'52  12° II 16'28  12° II 16'28  12° II 16'39  13° II 14'46  16° II 30'06  14° II 29'25  14° II 29'31  12° II 26'28  15° II 45'27  16° II 43'46  16° II 43'46	1°07'03 19.84905 AU -1°14'10 17.87915 AU -1°07'01 1°07'59 19.90939 AU -1°14'53 17.94081 AU	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. morning rise retrograde opposition minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	14509 Jun 29 21:50 14509 Sep 29 12:33 14509 Dec 14 01:44 14509 Dec 13 21:29 14510 Mar 01 01:12 14510 Jun 02 14:40  14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 13:41 14510 Jun 18 18:36 14510 Jul 04 10:59 14510 Oct 04 01:28 14510 Dec 18 17:50 14510 Dec 18 13:25 14511 Mar 05 18:28 14511 Jun 07 04:07  14511 Jun 23 02:28 14511 Jun 23 02:28 14511 Jun 23 02:28 14511 Jun 08 23:30 14511 Oct 08 14:19 14511 Dec 23 09:21 14511 Dec 23 09:21	5°@13'28 8°@25'07 6°@25'44 6°@26'11 4°@24'27 7°@38'43 8°@35'39 8°@35'39 8°@36'23 9°@32'22 12°@43'18 10°@44'09 10°@44'37 8°@43'11 11°@56'29 12°@53'09 12°@53'46 13°@49'38 16°@59'54 15°@00'56 15°@01'25	18.26647 AU  -1°03'51 1°04'53 20.29814 AU  -1°09'59 18.32979 AU  -1°02'02 1°03'05 20.36054 AU  -1°07'45

agniumation	14512 Jun 26 14:20	179600100	0950154		14519 Cap. 12 10:24	15° <b>Ω</b>	
conjunction	14512 Jun 26 14:39	17°509'00			14518 Sep 13 19:24	15° <b>δ</b> ι 16° <b>Ω</b> 10'46	
minimum elong	14512 Jun 26 14:39	17°509'00	1°00'55	retrograde	14518 Nov 06 16:09		
max. Earth dist.	14512 Jun 26 20:05	17°509'49	20.42088 AU		14519 Jan 02 00:50	15°RΩ	00.42122
morning rise	14512 Jul 12 11:13	18° <b>©</b> 05'15		opposition	14519 Jan 22 04:56	14° <b>Ω</b> 12'32	
retrograde	14512 Oct 12 02:24	21° <b>©</b> 14'51		min. Earth dist.	14519 Jan 21 20:46		18.76230 AU
opposition	14512 Dec 27 00:17	19° <b>©</b> 16'03	-1°05'10	direct	14519 Apr 09 06:42	12° <b>Ω</b> 13′28	
min. Earth dist.	14512 Dec 26 19:09	19° <b>©</b> 16'34	18.45031 AU		14519 Jul 04 15:11	15° <b>Ω</b>	
direct	14513 Mar 14 01:47	17° <b>©</b> 15'36		evening set	14519 Jul 10 10:42	15° <b>Ω</b> 19'37	
evening set	14513 Jun 15 04:16	20° <b>©</b> 26'58					
				conjunction	14519 Jul 26 06:38	16° <b>Ω</b> 14'37	-0°37'09
conjunction	14513 Jul 01 01:47	21°523'09	-0°57'26	minimum elong	14519 Jul 26 06:39	16° <b>Ω</b> 14'37	0°37'56
minimum elong	14513 Jul 01 01:48	21° <b>5</b> 23'10	0°58'26	max. Earth dist.	14519 Jul 26 14:31	16°Ω15'45	20.78509 AU
max. Earth dist.	14513 Jul 01 06:36		20.47883 AU	morning rise	14519 Aug 11 02:23	17°Ω09'35	20.70007110
morning rise	14513 Jul 16 22:17	22° <b>©</b> 19'11	20.47003710	retrograde	14519 Nov 11 01:11	20°Ω15'26	
-		25°\$28'08		-		$18^{\circ}\Omega 17'18$	0020155
retrograde	14513 Oct 16 13:57		1002115	opposition	14520 Jan 26 16:04		
opposition	14513 Dec 31 14:34	23°S29'27		min. Earth dist.	14520 Jan 26 08:09		18.80741 AU
min. Earth dist.	14513 Dec 31 09:21		18.50713 AU	direct	14520 Apr 12 16:29	16° <b>Ω</b> 18'30	
direct	14514 Mar 18 15:01	21° <b>©</b> 29'13		evening set	14520 Jul 13 17:40	19° <b>Ω</b> 23'56	
evening set	14514 Jun 19 15:05	24° <b>©</b> 39'38					
				conjunction	14520 Jul 29 13:37	20° <b>Ω</b> 18'47	-0°33'02
conjunction	14514 Jul 05 12:24	25° <b>©</b> 35'36	-0°54'40	minimum elong	14520 Jul 29 13:38	20° <b>Ω</b> 18'47	0°33'48
minimum elong	14514 Jul 05 12:24	25° <b>©</b> 35'36	0°55'39	max. Earth dist.	14520 Jul 29 22:32	20° <b>Ω</b> 20′05	20.82885 AU
max. Earth dist.	14514 Jul 05 18:30	25°536'30	20.53450 AU	morning rise	14520 Aug 14 09:18	21° <b>Ω</b> 13'37	
morning rise	14514 Jul 21 08:32	26°531'25		retrograde	14520 Nov 14 10:01	24°Ω19'08	
retrograde	14514 Oct 21 00:48	29°539'43		opposition	14521 Jan 30 02:38	22° <b>Ω</b> 21'07	-0°34'17
opposition	14515 Jan 05 04:03	27°5941'07	-0°59'01	min. Earth dist.	14521 Jan 29 17:45		18.84956 AU
min. Earth dist.	14515 Jan 04 22:13		18.56161 AU	direct	14521 Apr 17 03:10	20°Ω22'34	10.04930 AU
			16.30101 AU		-		
direct	14515 Mar 23 06:10	25°5541'07		evening set	14521 Jul 18 00:20	23° <b>Ω</b> 27′20	
evening set	14515 Jun 24 01:15	28° <b>©</b> 50'35			14501 4 00 00 00	240 02202	0000145
				conjunction	14521 Aug 02 20:06	24° <b>Ω</b> 22'03	
conjunction	14515 Jul 09 22:05	29° <b>©</b> 46'20		minimum elong	14521 Aug 02 20:06	24° <b>Ω</b> 22'03	
minimum elong	14515 Jul 09 22:06	29° <b>©</b> 46'20	0°52'35	max. Earth dist.	14521 Aug 03 04:35		20.86935 AU
max. Earth dist.	14515 Jul 10 03:49		20.58805 AU	morning rise	14521 Aug 18 15:58	25° <b>Ω</b> 16'47	
	14515 Jul 13 18:44	$0 {\circ} \Omega$		retrograde	14521 Nov 18 17:52	28° <b>Ω</b> 22'00	
morning rise	14515 Jul 25 18:09	0° <b>Ω</b> 41'57		opposition	14522 Feb 03 13:02	26° <b>Ω</b> 24'05	-0°29'29
retrograde	14515 Oct 25 11:23	3° <b>Ω</b> 49'40		min. Earth dist.	14522 Feb 03 04:48	26° <b>Ω</b> 24'54	18.88832 AU
opposition	14516 Jan 09 17:11	1° <b>Ω</b> 51′08	-0°55'30	direct	14522 Apr 21 12:03	24° <b>Ω</b> 25'45	
min. Earth dist.	14516 Jan 09 11:11	1°Ω51'45	18.61436 AU	evening set	14522 Jul 22 06:38	27° <b>Ω</b> 29'55	
	14516 Mar 08 02:41	30°Rூ				_, 00_, 00	
direct	14516 Mar 26 18:16	29°951'20		conjunction	14522 Aug 07 02:26	28° <b>Ω</b> 24'31	-0°24'25
direct	14516 Apr 14 07:43	0°Ω		minimum elong	14522 Aug 07 02:26	28° <b>Ω</b> 24'31	
evening set	14516 Jun 27 10:23	2° <b>Ω</b> 59'55		max. Earth dist.	14522 Aug 07 02:20		20.90616 AU
evening set	14510 Juli 27 10.25	2 663933			Č	29° <b>Ω</b> 19'08	20.90010 AU
	14516 1 1 12 07 04	20 0 5 512 6	0040101	morning rise	14522 Aug 22 22:17		
conjunction	14516 Jul 13 07:04	3° <b>Ω</b> 55'26			14522 Sep 04 07:13	0° my	
minimum elong	14516 Jul 13 07:05	3° <b>Ω</b> 55′26		retrograde	14522 Nov 23 02:50	2°Mp24'07	
max. Earth dist.	14516 Jul 13 14:16		20.63996 AU	opposition	14523 Feb 07 22:54	0° <b>™</b> 26'17	
morning rise	14516 Jul 29 02:53	4° <b>Ω</b> 50'53		min. Earth dist.	14523 Feb 07 13:55	0°Mp27'11	18.92296 AU
retrograde	14516 Oct 28 21:12	7° <b>Ω</b> 58′03			14523 Feb 18 23:20	$30^{\circ}$ R $\Omega$	
opposition	14517 Jan 13 05:40	5° <b>€</b> 59'36	-0°51'42	direct	14523 Apr 25 21:58	28° <b>Ω</b> 28′10	
min. Earth dist.	14517 Jan 12 22:35	6° <b>Ω</b> 00'19	18.66539 AU		14523 Jun 27 01:38	0° <b>m</b> ⁄	
direct	14517 Mar 31 07:53	4° <b>Ω</b> 00'03		evening set	14523 Jul 26 12:47	1°Mp31'47	
evening set	14517 Jul 01 19:08	7° <b>Ω</b> 07'45		-			
C				conjunction	14523 Aug 11 08:26	2°M/26'16	-0°19'56
conjunction	14517 Jul 17 15:27	8° <b>Ω</b> 03'05	-0°44'49	minimum elong	14523 Aug 11 08:26	2° m) 26'16	
minimum elong	14517 Jul 17 15:27	8° <b>Ω</b> 03'05		max. Earth dist.	14523 Aug 11 16:59	-•	20.93861 AU
max. Earth dist.	14517 Jul 17 13:27		20.69021 AU		•	3°M 20'49	20.73001 AC
morning rise	14517 Aug 02 11:16	8° <b>Ω</b> 58'21	20.07021 AU	morning rise	14523 Aug 27 04:28 14523 Nov 27 09:50	6° Mp 25'36	
•	•			retrograde		-	0010122
retrograde	14517 Nov 02 07:10	12° <b>Ω</b> 05'02	00.47/20	opposition	14524 Feb 12 08:48	4° Mp 27'48	
opposition	14518 Jan 17 17:31	10°Ω06'41		min. Earth dist.	14524 Feb 12 00:43	-•	18.95320 AU
min. Earth dist.	14518 Jan 17 10:25		18.71488 AU	direct	14524 Apr 29 05:42	2°m/29'53	
direct	14518 Apr 04 18:35	8° <b>Ω</b> 07'21		evening set	14524 Jul 29 18:26	5° Mp 32′58	
evening set	14518 Jul 06 03:08	11° <b>Ω</b> 14'16					
				conjunction	14524 Aug 14 14:13	6° Mp 27′22	-0°15'22
conjunction	14518 Jul 21 23:24	12° <b>Ω</b> 09′26	-0°41'04	minimum elong	14524 Aug 14 14:14	6° Mp 27′22	0°15'52
minimum elong	14518 Jul 21 23:24	12° <b>Ω</b> 09′26	0°41'56	behind sun begin	14524 Aug 14 12:57	6°Mp27'11	
max. Earth dist.	14518 Jul 22 07:33	12° <b>Ω</b> 10'37	20.73879 AU	behind sun end	14524 Aug 14 15:30	6° m 27'33	
morning rise	14518 Aug 06 19:04	13° <b>Ω</b> 04'32		max. Earth dist.	14524 Aug 14 23:14		20.96641 AU
<i>3</i>						4	

marning rise	14524 Aug 20 10:21	70 m 21150		direct	14520 May 24 02:20	26° m 27'42	
morning rise	14524 Aug 30 10:21	7° m) 21'50			14530 May 24 03:30	~	
retrograde	14524 Nov 30 18:44	10° Tp 26'29	001.412.6	evening set	14530 Aug 23 00:53	29° m 28'43	
opposition	14525 Feb 15 18:13	8° m, 28'42			14530 Sep 01 05:48	0∘ <b>⊽</b>	
min. Earth dist.	14525 Feb 15 09:29		18.97836 AU		145000 05 05 04 06	00.000.55	0010115
direct	14525 May 03 15:16	6° Mp 30'56		conjunction	14530 Sep 07 21:26	0° <b>Ω</b> 22'55	
evening set	14525 Aug 03 00:08	9° m 33'32		minimum elong	14530 Sep 07 21:26	0° <b>£</b> 22'55	0°12'39
				behind sun begin	14530 Sep 07 17:13	0° <b>Ω</b> 22'19	
conjunction	14525 Aug 18 19:51	10° m/27'52		behind sun end	14530 Sep 08 01:40	0° <b>£</b> 23'30	
minimum elong	14525 Aug 18 19:52	10° m/27'52	0°11'11	max. Earth dist.	14530 Sep 08 05:34		21.03057 AU
behind sun begin	14525 Aug 18 14:58	10° Mp 27'10		morning rise	14530 Sep 23 19:09	1° <b>≙</b> 17'18	
behind sun end	14525 Aug 19 00:46	10° <b>m</b> 28'33		retrograde	14530 Dec 25 13:54	4° <b>Ω</b> 21'55	
max. Earth dist.	14525 Aug 19 03:59		20.98893 AU	opposition	14531 Mar 12 21:39	2° <b>Ω</b> 23'39	
morning rise	14525 Sep 03 16:17	11°Mp22'17		min. Earth dist.	14531 Mar 12 13:27	2° <b>≏</b> 24'29	19.02946 AU
retrograde	14525 Dec 05 01:11	14° <b>m</b> 26'48		direct	14531 May 28 11:10	0° <b>ჲ</b> 26'12	
opposition	14526 Feb 20 03:22	12° <b>m</b> 28'59	-0°09'16	evening set	14531 Aug 27 05:45	3° <b>£</b> 27′05	
min. Earth dist.	14526 Feb 19 19:50	12° <b>m</b> 29'45	18.99831 AU				
direct	14526 May 07 22:02	10° <b>m</b> 31'19		conjunction	14531 Sep 12 02:25	4° <b>≙</b> 21'18	0°17'20
evening set	14526 Aug 07 05:28	13° <b>m</b> 33'30		minimum elong	14531 Sep 12 02:25	4° <b>≙</b> 21'18	0°17'18
				max. Earth dist.	14531 Sep 12 10:05	4° <b>£</b> 22'24	21.02739 AU
conjunction	14526 Aug 23 01:25	14°M)27'46	-0°06'05	morning rise	14531 Sep 28 00:33	5° <b>≏</b> 15'45	
minimum elong	14526 Aug 23 01:24	14° <b>m</b> 27'46	0°06'27	retrograde	14531 Dec 29 20:50	8° <b>ഫ</b> 20'33	
behind sun begin	14526 Aug 22 19:12	14° <b>m</b> 26'54		opposition	14532 Mar 16 05:51	6° <b>£</b> 22'13	0°21'38
behind sun end	14526 Aug 23 07:36	14° <b>m</b> 28'38		min. Earth dist.	14532 Mar 15 22:38	6° <b>£</b> 22'56	19.02468 AU
max. Earth dist.	14526 Aug 23 09:46	14° <b>m</b> 28'57	21.00629 AU	direct	14532 May 31 15:59	4° <b>£</b> 24'48	
morning rise	14526 Sep 07 21:57	15° <b>m</b> 22'09		evening set	14532 Aug 30 10:30	7° <b>£</b> 25'38	
retrograde	14526 Dec 09 09:28	18° Mp 26'35					
opposition	14527 Feb 24 12:14	16° m 28'43	-0°04'05	conjunction	14532 Sep 15 07:34	8° <b>≏</b> 19'54	0°21'49
min. Earth dist.	14527 Feb 24 04:00	16° m 29'32	19.01300 AU	minimum elong	14532 Sep 15 07:34	8° <b>≏</b> 19'54	0°21'51
direct	14527 May 12 07:18	14° <b>m</b> 31'07		max. Earth dist.	14532 Sep 15 15:39	8° <b>≏</b> 21'04	21.02091 AU
evening set	14527 Aug 11 10:31	17° m) 32'54		morning rise	14532 Oct 01 06:02	9° <b>£</b> 14'24	
<b>3</b>				retrograde	14533 Jan 02 05:10	12° <b>Ω</b> 19'27	
conjunction	14527 Aug 27 06:28	18° <b>m</b> ) 27'08	-0°01'22	opposition	14533 Mar 20 13:50	10° <b>£</b> 21′03	0°26'34
minimum elong	14527 Aug 27 06:28	18° m) 27'08	0°01'41	min. Earth dist.	14533 Mar 20 05:43		19.01635 AU
behind sun begin	14527 Aug 26 23:53	18° Mp 26'12	0 01 11	direct	14533 Jun 04 23:20	8° <b>£</b> 23'40	19.01030110
behind sun end	14527 Aug 27 13:03	18° m) 28'03		evening set	14533 Sep 03 15:41	11° <b>Ω</b> 24'33	
max. Earth dist.	14527 Aug 27 14:10		21.01853 AU	evening set	14333 вер 03 13.41	11 =2+33	
morning rise	14527 Sep 12 03:22	19° m) 21'29	21.01033710	conjunction	14533 Sep 19 12:56	12° <b>≏</b> 18'52	0°26'12
asc. node	14527 Dec 12 23:58	22° m) 25'53		minimum elong	14533 Sep 19 12:56	12° <b>⊆</b> 18'52	
retrograde	14527 Dec 12 25:58	22° m) 25'53		max. Earth dist.	14533 Sep 19 12:30		21.01071 AU
opposition	14528 Feb 28 21:03	20° m) 27'55	0°01'08		14533 Sep 19 20:23	13° <b>⊆</b> 13'26	21.010/1 AO
min. Earth dist.			19.02301 AU	morning rise	14534 Jan 06 12:21		
	14528 Feb 28 13:51		19.02301 AU	retrograde		16° <b>Ω</b> 18'48	0021122
direct	14528 May 15 13:33	18° Mp 30'21		opposition	14534 Mar 24 21:58	14° <b>£</b> 20′20	
evening set	14528 Aug 14 15:22	21°Mp31'48		min. Earth dist.	14534 Mar 24 15:07 14534 Jun 09 03:49	14 <b>≗</b> 21 01 12° <b>£</b> 22'59	19.00436 AU
agniumation	14528 Aug 30 11:35	220 m 26100	0°03'28	direct			
conjunction	14528 Aug 30 11:33	22° Th 26'00		evening set	14534 Sep 07 21:01	15° <b>≏</b> 23'57	
minimum elong	2	22° m 26'00	0°03'13		14524 9 22 19.40	16001001	0°30'28
behind sun begin	14528 Aug 30 05:02	22° m 25'05		conjunction	14534 Sep 23 18:40	16° <b>Ω</b> 18'21	
behind sun end	14528 Aug 30 18:07	22° Tp 26'55	21.02641 AU	minimum elong max. Earth dist.	14534 Sep 23 18:39	16° <b>Ω</b> 18'21	0°30'39 20.99687 AU
max. Earth dist.	14528 Aug 30 19:44	-	21.02041 AU	morning rise	14534 Sep 24 02:22		20.99087 AU
morning rise	14528 Sep 15 08:41	23° Th 20'21		U	14534 Oct 09 17:55	17° <b>£</b> 13'00	
retrograde	14528 Dec 16 23:39	26° M) 24'45	0006120	retrograde	14535 Jan 10 21:46	20° <b>£</b> 18'43	092701
opposition	14529 Mar 04 05:18	24° Tp 26'41	0°06'20	opposition	14535 Mar 29 06:11	18° <b>£</b> 20'11	
min. Earth dist.	14529 Mar 03 21:11	24° Tp 27'30	19.02882 AU	min. Earth dist.	14535 Mar 28 22:35		18.98849 AU
direct	14529 May 19 21:55	22° m/29'09		direct	14535 Jun 13 11:05	16° <b>£</b> 22'51	
evening set	14529 Aug 18 20:13	25° Mp 30'21		evening set	14535 Sep 12 02:39	19° <b>≏</b> 23'58	
	14520.6 02 16 22	2(0m-24)22	0000100		14525 0 20 00 22	200 0 1000	0924126
conjunction	14529 Sep 03 16:30	26° m/24'32	0°08'08	conjunction	14535 Sep 28 00:32	20° <b>£</b> 18'27	0°34'36
minimum elong	14529 Sep 03 16:30	26° Mp 24'32	0°07'58	minimum elong	14535 Sep 28 00:32	20° <b>£</b> 18′27	0°34'51
behind sun begin	14529 Sep 03 10:36	26° m 23'43		max. Earth dist.	14535 Sep 28 07:33		20.97890 AU
behind sun end	14529 Sep 03 22:24	26° m) 25'22	21 02025 111	morning rise	14535 Oct 14 00:17	21° <b>Ω</b> 13'13	
max. Earth dist.	14529 Sep 04 00:07	-	21.03025 AU	retrograde	14536 Jan 15 05:41	24° <b>£</b> 19'20	0040121
morning rise	14529 Sep 19 14:00	27° m) 18'54		opposition	14536 Apr 01 14:45	22° <b>Ω</b> 20'43	
	14529 Nov 20 09:38	0∘ <b>⊽</b>		min. Earth dist.	14536 Apr 01 08:38		18.96846 AU
retrograde	14529 Dec 21 06:15	0° <b>ჲ</b> 23'23		direct	14536 Jun 16 16:08	20° <b>Ω</b> 23'24	
	14530 Jan 21 17:29	30°R, Mp	00111	evening set	14536 Sep 15 08:46	23° <b>≏</b> 24'43	
opposition	14530 Mar 08 13:37	28° <b>m</b> 25'12					
min. Earth dist.	14530 Mar 08 06:28	28° <b>m</b> 25'55	19.03092 AU	conjunction	14536 Oct 01 07:06	24° <b>≏</b> 19'19	0°38'35

Mathematic   March	minimum alana	14526 Oat 01 07:06	249 0 10/10	0020154	may Earth dist	14542 Oct 26 10:22	100 <b>m</b> 42100	20 72505 AII
moning incompanies         1855 0ct 17 07.15         28 4712 2000         composition (1857) nm 18 100         28 20024 5         composition (1857) nm 18 100         28 20024 5         composition (1857) nm 18 100         28 20242 20         64430 mm 12	minimum elong	14536 Oct 01 07:06			max. Earth dist.			20.72505 AU
cromposed         4537 Jan 18 160         269 207 1         opposition         1451 May 10 161-03         269 207 1         4547 May 10 161-03         27 20 161-03				20.95665 AU	•			
opposition in Earth dist.         1557 pp of 16 3210         Cept 2011 at 1814 at 16 1817 at 16 1822         246240 at 20 cents of 16 1870 at 18 1870 at 1877 by 18 18 18 18 18 18 18 18 18 18 18 18 18	Ü				-			
min Indide         4575 pp. 10 Sed         269-224 by         89-884 by         69-88 by         1875 may 20 Sed         22 Page 2006           conjunction         16375 pp. 10 Sed         78-2007 by         1620 by         1620 by         2018 by         170 by         2018 by         170 by         2018 by <t< td=""><td>-</td><td>14537 Jan 18 16:01</td><td></td><td></td><td>11</td><td>•</td><td></td><td></td></t<>	-	14537 Jan 18 16:01			11	•		
direct         1837 No. 9         23.22         2"A-24"0         conjunction         1543 No. 9         15.22         2"A-24"0         conjunction         1454 No. 10         20         1844 No. 10         17.22         2"Half May 10" (12")           conjunction         1453 No. 10         1540 No. 10         28"AL078         0"4223         minimum clong         1455 No. 10         2"10,400         20"AL17 AU           morning rise         1453 No. 10         1453 No. 10         2"3"AL17 AU         morning rise         1455 No. 10         2"3"AL17 AU         1550 No. 10         2"3"AL17 AU           etosgand         1453 No. 10         0.05         2"3"AL17 O         recognide         1454 No. 10         2"10.00         1854 No. 10         2"10.00         1862 No. 10         1870 No. 10         1862 No. 10         2"10.00         1862 No. 10	opposition		26° <b>≏</b> 22'02	0°44'50	min. Earth dist.	14543 May 01 04:49	20° <b>™</b> 47'36	18.70011 AU
1945   1945	min. Earth dist.	14537 Apr 05 16:39	26° <b>≏</b> 22'41	18.94384 AU	direct	14543 Jul 15 21:16	18° <b>M</b> 48'51	
conjunction	direct	14537 Jun 20 23:22	24° <b>≏</b> 24'40		evening set	14543 Oct 14 15:50	21°M52'59	
1457 0ct   1542   1542   1544   1545 0ct	evening set	14537 Sep 19 15:24	27° <b>≏</b> 26'16					
minimardowng   1437 Oct   05   402   28   22   29   24   20   29   20   20   20   20   20   20					conjunction	14543 Oct 30 17:26	22°M48'43	1°00'26
max. Earth dist         1457 Oct 1142         29°AD 148         20°2949 AU         meming rise         1454 Nov 12 134         22°TM-149         22°TM-149         1457 Nov 14 00 047         0°R         refrograde         1454 May 0°R 18.22         22°TM-159         22°TM-159         186 May 10         0°R         186 May 10         187 May 10         186 May 10         186 May 10         187 May 10         186 May 10         20°R	conjunction	14537 Oct 05 14:02	28° <b>≏</b> 20'59	0°42'23	minimum elong	14543 Oct 30 17:25	22°M48'43	1°01'12
moning rise   1457 Nov 2   1442   29°4   1600   composition   1454 May 0   1632   24°185 Nov 10   1637 Nov 10   1637 Nov 10   1637 Nov 10   1638 Nov 10	minimum elong	14537 Oct 05 14:02	28° <b>♀</b> 20'59	0°42'46	max. Earth dist.	14543 Oct 30 19:42	22°M49'03	20.67417 AU
Mathematics	max. Earth dist.	14537 Oct 05 19:48	28° <b>₽</b> 21'48	20.92949 AU	morning rise	14543 Nov 15 21:16	23°M44'49	
1453 Nay 2 9055   278239   .	morning rise	14537 Oct 21 14:42	29° <b>₽</b> 16'00		•	14544 Feb 17 18:40	26°M₅55'08	
Proposition   14538 Apr 10 0319   078276   078256   078	8				-			1°08'11
opposition in Earth dist.         14538 Apr 10 only 0 mB. 241 or 1487 by 18 1942 Ab wereing set 1 4544 Vol 18 0150 26 mB. 07 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	retrograde				**	•		
min. Earth dist.	•			0°48'56		•		10.04023 710
Marce   1458 Apr 2   0828   0826		•						
March   14518 Nam   25 0520   28°426743   14518 Nam   25 0520   28°426743   14518 Nam   25 0520   14518 Nam	mm. Earth dist.	•		18.91420 AU	evening set	14344 Oct 18 01.50	20 11601 00	
Part	1	-	•			1454431 02 04 02	260 <b>m</b> 56150	1002120
Persing set   14538 Sep 23 22.16   178L2873   max Earth dist	direct							
Conjunction		•			_			
conjunction         4538 Oct 0 9 21-24         2°E,3228         6°4579         retrograde         14545 Rep 1 1 8-13         0°F,2         150 Mort           max. Earth dist.         14538 Oct 1 0 22-12         2°E,3228         8°B,027         retrograde         14545 Apr 15 1:234         30°KIL           croposition         14538 Apr 1 12-112         4°E,020         9°E,020         min. Earth dist.         14545 May 0 0 04:57         29°E,0070         180 Mort         190 Mort         29°E,0040         190 Mort         190 Mor	evening set	14538 Sep 23 22:16	1°11L28'37					20.62139 AU
minimum elong					morning rise	14544 Nov 19 08:27		
max. Earth dist.         14538 Oct 10 02:43         2°R.2°H 2 10 20.89741 AU         opposition         14545 Apr 15 12:34         30°R.R.         191018           retrograde         14539 Apr 14 17:12         4°R.27076         o°S250         direct         14545 May 09 04:57         29°R.04702         18:9458 AU           opposition         14539 Apr 14 17:12         4°R.27076         0°S250         direct         14545 Oct 21 11:15         0°Z         18:9458 AU           direct         14539 Apr 14 17:12         4°R.27076         0°S250         14545 Oct 21 11:15         0°Z         0°Z </td <td>conjunction</td> <td>14538 Oct 09 21:24</td> <td>2°M23'28</td> <td>0°45'59</td> <td></td> <td>14544 Dec 31 18:12</td> <td>0°<b>∡</b></td> <td></td>	conjunction	14538 Oct 09 21:24	2°M23'28	0°45'59		14544 Dec 31 18:12	0° <b>∡</b>	
morning rise         14538 Oct 25 22.29         3°M.18'37         opposition         14545 May 09 02.45         29°M.0349         19'10'18           orposation         14539 Jan 27 11.55         6°M.20'00'0         c"82.25'0         direc         14545 May 09 02.45         27°M.04'56         18'04'00'0         18.5948 AU           omin. Earth dist.         14539 Apr 14 12:01         4°M.27'37         18.87962 AU         15455 Oct 19 11:15         0°%************************************	minimum elong	14538 Oct 09 21:23	2°M23'28	0°46'27	retrograde	14545 Feb 21 08:59	1° <b>∡</b> °04'15	
Petrograde   1459 Jan   27   1755   678,2607   67250   direct   1454 May 09   02-45   27870,476   176,07	max. Earth dist.	14538 Oct 10 02:43	2°M24'14	20.89741 AU		14545 Apr 15 12:34	30°RM₊	
opposition in Internation and direct distance with internation and direct and state of the properties of the proper	morning rise	14538 Oct 25 22:29	3° <b>M</b> ₊18'37		opposition	14545 May 09 04:57	29° <b>™</b> 03'49	1°10'18
opposition in Internation and direct distance with internation and direct and state of the properties of the proper	retrograde	14539 Jan 27 11:55	6° <b>M</b> 26′07		min. Earth dist.	14545 May 09 02:45	29°M04'02	18.59458 AU
min. Earth dist.         14539 Apr 14 12:01         4*R2737 1 8*R962 AU         evening set         14545 Oct 2 12:32         0°\$         ************************************	-	14539 Apr 14 17:12	4° <b>M</b> 27′06	0°52'50	direct	14545 Jul 23 15:00	27°M04'56	
direct         14539 Jun 29 13:11         2°R.931 Jun 29 13:11         2°R.931 Jun 29 13:11         2°R.931 Jun 29 13:12         2°R.931 Jun 29 13:12         0°R.931 Jun 29 13:13		•	4°M27'37	18.87962 AU		14545 Oct 19 11:15	0° <b>∡</b> ¹	
Pereining set   14539 Sep 28 05:44   5°EN.3146   Feb.	direct		2°ML29'31		evening set	14545 Oct 22 12:32	0° <b>√</b> 10'24	
conjunction								
conjunction         14539 Oct 14 05:15 06"8.2645 0°49"23         minimum elong minimum elong 14539 Oct 14 09:29 06"8.2722 0°80028 AU         minimum elong 14539 Oct 14 09:29 06"8.2722 0°80028 AU         minimum elong morning rise         14545 Nov 07 16:18 17.25 0°57.455 0°5058 AU         "ROW REAL BLAND NO 15 16:45 17.25 0°5058 AU         7.250050 00.00 0	evening see	1.037 Sep 20 00	5 11051 10		conjunction	14545 Nov 07 15:18	1° <b>∡</b> 706'36	1°04'13
minimum elong         14539 Oct 14 05:15 06**Lo 06**Lo 09:29 06**Lo 09:29 06**Lo 09:20 09:20 06**Lo 09:20 09:20 06**Lo 09:20 09:20 06**Lo 09:20 06**Lo 09:20 06**Lo 09:20 06**Lo 09:20 06**Lo 09:20 06**Lo 09:20 09:20 06**Lo 09:20 09:2	conjunction	14530 Oct 14 05:15	6°M 26'45	0°40'23				
max. Earth dist.         4539 Oct 14 09:29         6°RL2722         20.86028 AU         morning rise         14546 Feb 25 20:59         5°x*1/450           retrograde         14530 Oct 30 06:54         7°RL2205         retrograde         14546 Feb 25 20:59         5°x*1/415         1200           opposition         14540 Apr 18 02:35         8°RL3070         0°5628         min. Earth dist.         14546 May 13 15:20         3°x*1/418         18.53935 AU           direct         14540 Apr 17 23:00         8°RL3111         18.84023 AU         direct         14546 May 13 15:20         3°x*1/418         18.53935 AU           evening set         14540 Oct 01 13:28         9°RL3748         "         0°5232         minimum elong         14546 Nov 12 03:09         5°x*1746         1°0536           conjunction         14540 Oct 17 13:34         10°RL3052         0°5232         minimum elong         14546 Nov 12 03:09         5°x*1746         1°0536           max. Earth dist.         14540 Oct 17 13:34         10°RL3052         0°53122         minimum elong         14546 Nov 12 03:09         5°x*1744         1°0536           max. Earth dist.         14540 Oct 17 13:34         10°RL3625         0°83182         max. Earth dist.         14547 Nov 16 0.00         5°x*1744         1°0536           morring rise <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td>					_			
moming rise   14539 Oct 30 06:54   7°RL2205   7°RL2205   7°RL2305   7°RL230	Č							20.30083 AU
Petrograde   14540 Jan 3   21:22   10°M300'S   0°5628   min. Earth dist.   14546 May 13   15:20   3°\$7   14'18   18.5935 AU   min. Earth dist.   14546 May 13   15:20   3°\$7   14'18   18.5935 AU   min. Earth dist.   14546 May 13   15:20   3°\$7   14'18   18.5935 AU   min. Earth dist.   14546 May 13   15:20   3°\$7   14'18   18.5935 AU   min. Earth dist.   14546 May 13   15:20   3°\$7   14'18   18.5935 AU   min. Earth dist.   14540 May 13   15:20   3°\$7   14'18   18.5935 AU   min. Earth dist.   14540 Oct 2   23:47   4°\$7   17.54   17.00   18.00   19.00   18.00   19.00				20.86028 AU	-			
opposition         14540 Apr 18 02:35         8°BL30150         0°5628         min. Earth dist.         14546 May 13 15:20         3°x 1418         18.53935 AU           direct         14540 Jul 27 22:58         14x9107         123:05         8°BL3111         18.84023 AU         direct         14546 Jul 27 22:58         12x9 1507         12x100	-				-			1010100
min. Earth dist.         14540 Apr 17 2 3:05         8°R.31'11 18.84023 AU direct         direct (14540 Jul 02 20:00 6°R.3304 6°R.330	-					•		
direct   14540 \( \) \( \) \( \) \( 2 \) 20.00   6 \( \) \( 1 \) 33.04   0 \( \) \(\) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \(		1				•		18.53935 AU
evening set   14540 Cet 10 13:28   9°R.35'42   conjunction   14546 Nov 12 03:09   5° \$17'46   1°05'36   minimum elong   14546 Nov 12 03:09   5° \$17'46   1°05'36   minimum elong   14546 Nov 12 03:09   5° \$17'46   1°06'29   minimum elong   14546 Nov 12 04:06   5° \$17'54   1°06'29   max. Earth dist.   14546 Nov 12 04:06   5° \$17'54   1°06'29   max. Earth dist.   14546 Nov 12 04:06   5° \$17'54   1°06'29   max. Earth dist.   14546 Nov 12 04:06   5° \$17'54   1°10'629   max. Earth dist.   14546 Nov 12 04:06   5° \$17'54   1°10'629   max. Earth dist.   14540 Nov 02 15:45   1° \$1.26'21   cretograde   14541 Feb   04 09:18   1° \$1.35'42   copposition   14541 May 12 02:33   9° \$2'00'1   1°13'26   copposition   14541 Apr 22 12:01   12° \$1.35'42   s.79671 AU   direct   14547 May 18 04:03   7° \$2'614   1°13'26   copposition   14541 Apr 22 12:01   12° \$1.35'42   s.79671 AU   direct   14547 May 18 04:03   7° \$2'615   s.8292 AU   min. Earth dist.   14541 Oct 05 21:48   13° \$1.26'21   s.79671 AU   direct   14547 Aug 01 10:23   5° \$2'65'4   s.8292 AU   direct   14547 Aug 01 10:23   5° \$2'65'4   s.8292 AU   direct   14547 Nov 16 16:00   9° \$3'037   1°06'39   copposition   14541 Oct 22 12:19   14° \$1.35'49   0°55'27   minimum elong   14547 Nov 16 16:00   9° \$3'037   1°07'35   minimum elong   14541 Oct 22 12:19   14° \$1.35'49   0°55'27   minimum elong   14547 Nov 16 16:00   9° \$3'037   1°07'35   minimum elong   14541 Oct 22 12:19   15° \$1.35'49   0°55'27   minimum elong   14544 Nov 16 16:00   9° \$3'037   1°07'35   minimum elong   14541 Oct 22 12:19   15° \$1.35'49   0°55'27   minimum elong   14544 Nov 16 16:00   9° \$3'037   1°07'35   minimum elong   14544 Nov 16 16:40   9° \$3'037   1°07'35   minimum elong   14544 Nov 16 16:40   9° \$3'037   1°07'35   minimum elong   14544 Nov 16 16:40   9° \$3'037   1°07'35   1°	min. Earth dist.	•		18.84023 AU	direct	14546 Jul 27 22:58		
conjunction         14540 Oct 17 13:34         10°RJ3052         0°5232         minimum elong         14546 Nov 12 03:09         5° x7 1746         1°0536           minimum elong         14540 Oct 17 13:34         10°RJ3052         0°5232         minimum elong         14546 Nov 12 03:09         5° x7 1754         1°0629           max. Earth dist.         14540 Nov 10 17 13:34         10°RJ3125         20.81881 AU         morning rise         14546 Nov 12 03:09         5° x7 1754         20.51106 AU           retrograde         14540 Nov 02 15:45         11°RL3621         retrograde         14547 Mar 02 12:33         9° x7 26*11         1°1326           opposition         14541 Apr 22 12:01         12°RJ3523         0°5951         min. Earth dist.         14547 May 18 02:39         7° x7 26*19         18.88292 AU           direct         14541 Oct 02 2:188         13°RL4029         18° 96*714         18'9671 AU         direct         14547 Nay 18 02:39         7° x7 26*19         18.88292 AU           direct         14541 Oct 02 2:1281         13°RL4029         18° 96*71 AU         direct         14547 Nay 18 04:00         9° x7 30'37         1°0639           conjunction         14541 Oct 21 2:19         14°RJ3549         0°55'27         minimum elong         14547 Nov 16 16:00         9° x7 30'3         1°073'24 <td>direct</td> <td></td> <td>6°<b>™</b>33'04</td> <td></td> <td>evening set</td> <td>14546 Oct 26 23:47</td> <td>4°<b>₹</b>21'19</td> <td></td>	direct		6° <b>™</b> 33'04		evening set	14546 Oct 26 23:47	4° <b>₹</b> 21'19	
conjunction         14540 Oct 17 13:34         10°M30'52         0°52'32         minimum elong minimum elong         14546 Nov 12 03:09         5° x7 17:46         1°06'29           minimum elong minimum elong minimum elong         14540 Oct 17 17:23         10°M30'52         0°53'08         max. Earth dist.         14546 Nov 12 03:09         5° x7 17:54         20.51106 AU           max. Earth dist.         14540 Oct 17 17:23         10°M31'25         20.81881 AU         morning rise         14546 Nov 28 08:45         6° x7 17:33         9° x7 2700           retrograde         14541 Feb 04 09:18         14°M34'52         opposition         14547 May 18 00:39         7° x7 26'11         1°12'6           opposition         14541 Apr 22 10:01         12°M35'23         0°59'51         min. Earth dist.         14547 May 18 00:39         7° x7 26'11         1°12'6           direct         14541 Apr 22 08:06         12°M35'47         18.79671 AU         direct         14547 Aug 01 10:23         5° x7 30'51         18.48292 AU           mini Earth dist.         14541 Oct 02 12:148         13°M40'25         0°55'27         minimum elong         14547 Nov 16 16:00         9° x7 30'37         1°06'39           conjunction         14541 Oct 21 22:18         14°M35'49         0°56'06         max. Earth dist.         14547 Nov 16 16:00         9°	evening set	14540 Oct 01 13:28	9° <b>™</b> 35'42					
minimum elong max. Earth dist.  14540 Oct 17 17:23  10° IL30′52  20.81881 AU morning rise  14546 Nov 12 04:06  14547 May 18 02:13  14° 212:01  12° 113° 22  12° 1110 AU max. Earth dist.  14540 Nov 02 15:45  11° IL26′21  retrograde  14547 May 18 02:03  9° 227:00  14547 May 18 02:33  9° 227:00  14541 Apr 22 12:01  12° IL35′37  30° 59′51  min. Earth dist.  14541 Apr 22 12:01  12° IL35′37  18° 18′951  min. Earth dist.  14541 Apr 22 18:06  12° IL35′37  18° 18′951  min. Earth dist.  14541 Apr 22 18:06  12° IL35′37  18° 18′951  min. Earth dist.  14541 Apr 21 08:06  12° IL35′37  18° IL3971 AU direct  14541 Oct 12 12:18  13° IL40′29  min. Earth dist.  14541 Oct 12 12:18  14° IL35′49  max. Earth dist.  14541 Oct 12 12:18  14° IL35′49  max. Earth dist.  14541 Oct 12 12:18  14° IL35′49  max. Earth dist.  14541 Oct 12 12:18  14° IL35′49  14° IL35′49  14541 Oct 12 12:18  14° IL35′49  14° IL35′49  14541 Oct 12 12:18  14° IL35′49  14541 Oct 12 12:18  14° IL35′49  14° IL35′49  14541 Oct 12 12:18  14° IL35′49  14° IL35′49  14541 Oct 12 12:18  14° IL35′49  14° IL36′49  14541 Oct 12 12:18  14° IL36′49  14541 Oct 12 12:18  14° IL35′49  14° IL36′49  14542 Oct 10 16:00  15° IL36′49  14542 Oct					conjunction	14546 Nov 12 03:09	5° <b>∡</b> 17'46	1°05'36
max. Earth dist.         14540 Oct 17 17:23         10°RL3125         20.81881 AU         morning rise         14546 Nov 28 08:45         6°\$14'33         Part of the pretrograde         14540 Nov 02 15:45         11°RL2621         retrograde         14547 Mar 02 12:33         9°\$2700         Part of the pretrograde         14541 Feb 04 09:18         14°RL3452         opposition         14547 May 18 04:03         7°\$26'11         1°13'26           opposition         14541 Feb 04 09:18         14°RL3452         0°59'51         min. Earth dist.         14547 May 18 02:39         7°\$26'11         18'326           min. Earth dist.         14541 Apr 2 10:01         0°437         18°ML3724         devening set         14547 Aug 01 10:23         5°\$26'54         48.8292 AU           direct         14541 Jul 07 04:37         10°RL37'24         devening set         14547 Oct 31 11:59         8°\$33'55         8°\$3'35'5           cevening set         14541 Oct 2         21:28         13°RL40'29         8°\$5'27         minimum elong         14547 Nov 16 16:00         9°\$3'037         10°0'39           conjunction         14541 Oct 2         21:218         14°RL35'49         0°56'06         max. Earth dist.         14547 Nov 16 16:00         9°\$3'03'3         10°0'39           max. Earth dist.         14547 Nov 16 16:01         9°\$3'04'32	conjunction	14540 Oct 17 13:34	10°M30'52	0°52'32	minimum elong	14546 Nov 12 03:09	5° <b>∡</b> 17'46	1°06'29
morning rise	minimum elong	14540 Oct 17 13:34	10°M30'52	0°53'08	max. Earth dist.	14546 Nov 12 04:06	5° <b>∡</b> 17'54	20.51106 AU
retrograde	max. Earth dist.	14540 Oct 17 17:23	10°MJ31'25	20.81881 AU	morning rise	14546 Nov 28 08:45	6° <b>҂</b> 14'33	
retrograde	morning rise	14540 Nov 02 15:45	11° <b>M</b> 26'21		retrograde	14547 Mar 02 12:33	9° <b>∡</b> ¹27'00	
poposition	-	14541 Feb 04 09:18	14°MJ34'52		-	14547 May 18 04:03	7° <b>∡</b> ¹26'11	1°13'26
min. Earth dist.         14541 Apr 22 0 8:06         12°R35'47         18.79671 AU         direct         14547 Aug 0 1 10:23         5°\$26'54         4 direct         14541 Jul 07 04:37         10°R37'24         evening set         14547 Oct 31 11:59         8°\$33'55         4 cevening set         14541 Oct 05 2 1:48         13°R40'29         conjunction         14547 Nov 16 16:00         9°\$30'37         1°06'39           conjunction         14541 Oct 21 22:19         14°R35'49         0°55'27         minimum elong         14547 Nov 16 16:00         9°\$30'37         1°06'39           minimum elong         14541 Oct 21 22:18         14°R35'49         0°56'06         max. Earth dist.         14547 Nov 16 16:01         9°\$30'37         20.45394 AU           max. Earth dist.         14541 Oct 22 01:20         14°R35'49         0°56'06         max. Earth dist.         14547 Nov 16 16:41         9°\$30'43         20.45394 AU           morning rise         14541 Nov 07 01:01         15°R1         retrograde         14548 Max 06 02:12         13°\$40'52         10°\$2740           retrograde         14542 Feb 08 18:55         18°R140'34         min. Earth dist.         14548 May 21 16:14         11°\$39'55         18'42520 AU           opposition         14542 Apr 26 19:23         16°R141'04         18.74973 AU         evening set         145	-		12°MJ35'23	0°59'51		•	7° <b>∡</b> ¹26'19	18.48292 AU
direct         14541 Jul   07 04:37         10°M.37'24   sevening set         evening set         14547 Oct 31 11:59         8° x³ 3'55         Levening set           evening set         14541 Oct 05 21:48         13°M.40'29         conjunction         14547 Nov 16 16:00         9° x³ 30'37         1°06'39           conjunction         14541 Oct 21 22:19         14° M.35'49         0°55'27         minimum elong         14547 Nov 16 16:00         9° x³ 30'37         1°07'35           minimum elong         14541 Oct 21 22:18         14° M.35'49         0°56'06         max. Earth dist.         14547 Nov 16 16:40         9° x³ 30'37         20.45394 AU           max. Earth dist.         14541 Oct 22 01:20         14° M.36'15         20.77339 AU         morning rise         14548 Mar 06 02:12         10° x³ 27'40         20.45394 AU           morning rise         14541 Nov 07 01:01         15° M.1'3         retrograde         14548 May 21 16:19         11° x³ 39'55         18' 42'5           retrograde         14542 Feb 08 18:55         18° M.40'34         min. Earth dist.         14548 May 21 16:19         11° x³ 39'55         18' 4250 AU           opposition         14542 Apr 26 19:23         16° M.40'50         1° 02'57         direct         14548 Nov 04 01:03         12° x³ 48'19         10° x³ 43'15         1° 07'20	• •	•			direct	•		
evening set		•		10.77071110		-		
conjunction 14541 Oct 21 22:19 14° 11.35'49 0°55'27 minimum elong 14547 Nov 16 16:00 9° 30'37 1°06'39 minimum elong 14541 Oct 21 22:18 14° 11.35'49 0°56'06 max. Earth dist. 14547 Nov 16 16:01 9° 30'43 20.45394 AU max. Earth dist. 14547 Nov 16 16:41 9° 30'43 20.45394 AU max. Earth dist. 14547 Dec 02 22:09 10° 32'74 14541 Oct 22 01:20 14° 11.36'15 20.77339 AU morning rise 14548 Mar 06 02:12 13° 3740'52 14541 Nov 07 01:01 15° 11.31'30 15° 11.31'30 14548 May 21 16:19 11° 3739'53 18.42520 AU opposition 14542 Feb 08 18:55 18° 11.40'50 1°02'57 direct 14548 May 21 16:14 11° 3739'53 18.42520 AU opposition 14542 Apr 26 19:23 16° 11.40'14 18.74973 AU evening set 14548 Nov 04 01:03 12° 3745'17 1°07'20 14542 Aug 06 12:06 15° 11.51 11.57 14° 11.40'14 18.74973 AU evening set 14548 Nov 20 05:42 13° 3745'17 1°07'20 14542 Aug 06 12:06 15° 11.51 11.57 14° 11.51 14° 11.51 14° 14.51 14.51 14.548 Nov 20 05:42 13° 3745'17 1°07'20 14.51 14.542 Aug 06 12:06 15° 11.51 14					evening set	14547 Oct 51 11.57	0 7 33 33	
conjunction         14541 Oct 21 22:19         14°N35'49         0°55'27         minimum elong         14547 Nov 16 16:00         9°₹3'037         1°07'35           minimum elong         14541 Oct 21 22:18         14°N35'49         0°56'06         max. Earth dist.         14547 Nov 16 16:41         9°₹3'0'43         20.45394 AU           max. Earth dist.         14541 Oct 22 01:20         14°N36'15         20.77339 AU         morning rise         14547 Dec 02 22:09         10°₹2'740         10°₹2'740           morning rise         14541 Nov 07 01:01         15°N         retrograde         14548 Mar 06 02:12         13°₹40'52         1°14'25           retrograde         14542 Feb 08 18:55         18°N40'34         min. Earth dist.         14548 May 21 16:19         11°₹3'955         18.42520 AU           opposition         14542 Apr 26 21:49         16°N40'50         1°02'57         direct         14548 Nov 04 01:03         12°₹48'19         18.42520 AU           direct         14542 Jul 11 11:57         16°N41'04         18.74973 AU         evening set         14548 Nov 04 01:03         12°₹48'19         1°07'20           direct         14542 Jul 11 11:57         14°N42'38         conjunction         14548 Nov 20 05:42         13°₹45'17         1°07'20           evening set         14542 Oct 10 06:33	evening set	14341 Oct 03 21.46	13 11640 29		aamiumatian	14547 Nov. 16 16:00	09.720127	1906120
minimum elong max. Earth dist.		14541 0-+ 21 22-10	1.40 <b>m</b> 2.5140	0955127				
max. Earth dist.					_			
14541 Oct 28 21:07   15°	Č							20.45394 AU
morning rise 14541 Nov 07 01:01 15°	max. Earth dist.			20.77339 AU	-			
retrograde 14542 Feb 08 18:55 18°\text{\$^{\text{N}}\$40'34} \ min. Earth dist. 14548 May 21 16:14 11°\text{\$^{\text{N}}\$39'55} 18.42520 AU opposition 14542 Apr 26 21:49 16°\text{\$^{\text{N}}\$40'50} 1°02'57 direct 14548 Aug 04 19:38 9°\text{\$^{\text{N}}\$40'26} \ min. Earth dist. 14542 Apr 26 19:23 16°\text{\$^{\text{N}}\$41'04} 18.74973 AU evening set 14548 Nov 04 01:03 12°\text{\$^{\text{N}}\$48'19} \ direct 14542 Jun 15 04:26 15°\text{\$^{\text{N}}\$\text{\$^{\text{\$^{\text{N}}\$\text{\$^{\text{N}}\$\text{\$^{\text{N}}\$\text{\$^{\text{N}}\$\text{\$^{\text{N}}\$\text{\$^{\text{N}}\$\text{\$^{\text{\$^{\text{N}}\$\text{\$^{\text{N}}\$\text{\$^{\text{N}}\$\text{\$^{\text{N}}\$\text{\$^{\text{N}}\$\text{\$^{\text{\$^{\text{\$^{\text{N}}}}}\$\text{\$^{\text{\$^{\text{N}}}\$\text{\$^{\text{N}}\$\$^{\text{\$		14541 Oct 28 21:07			-		13° <b>∡</b> ′40′52	
opposition 14542 Apr 26 21:49 16° M-40'50 1°02'57 direct 14548 Aug 04 19:38 9° 🗷 40'26 min. Earth dist. 14542 Apr 26 19:23 16° M-41'04 18.74973 AU evening set 14548 Nov 04 01:03 12° 🗷 48'19 direct 14542 Jul 11 11:57 14° M-42'38 conjunction 14548 Nov 20 05:42 13° 🗷 45'17 1°07'20 minimum elong set 14548 Nov 20 05:41 13° 🗷 45'17 1°08'18 evening set 14542 Oct 10 06:33 17° M-46'12 max. Earth dist. 14548 Nov 20 05:27 13° 🗷 45'15 20.39568 AU morning rise 14548 Dec 06 12:32 14° 🗷 42'36 conjunction 14542 Oct 26 07:38 18° M-41'44 0°58'05 retrograde 14549 Mar 10 18:58 17° 🗷 56'36 evening set 14549 Mar 10 18:58 17° 🗷 56'36 evening set 14549 Mar 10 18:58 17° 🗷 56'36 evening set 14549 Mar 10 18:58 17° 🗷 56'36 evening set 14549 Mar 10 18:58 17° 🗷 56'36 evening set 14549 Mar 10 18:58 17° 🗷 56'36 evening set 14549 Mar 10 18:58 17° 🗷 56'36 evening set 14549 Mar 10 18:58 17° 🗷 56'36 evening set 14549 Mar 10 18:58 17° 🗷 56'36 evening set 14549 Mar 10 18:58 17° 🗷 56'36 evening set 14549 Mar 10 18:58 17° 🗷 56'36 evening set 14549 Mar 10 18:58 17° 🗷 56'36 evening set 14549 Mar 10 18:58 17° 18° 18° 18° 18° 18° 18° 18° 18° 18° 18	morning rise				opposition	•	11° <b>₹</b> 39'54	1°14'25
min. Earth dist.	retrograde	14542 Feb 08 18:55	18° <b>M</b> ₊40'34		min. Earth dist.	14548 May 21 16:14	11° <b>∡</b> ³39'55	18.42520 AU
14542 Jun   15   04:26   15°RM	opposition	14542 Apr 26 21:49	16°M40'50	1°02'57	direct	14548 Aug 04 19:38	9° <b>∡</b> 140′26	
14542 Jun   15   04:26   15°RM   14542 Jun   11   11:57   14°M42'38   conjunction   14548 Nov 20   05:42   13° ₹45'17   1°07'20   14542 Aug   06   12:06   15°M   minimum elong   14548 Nov 20   05:41   13° ₹45'17   1°08'18   evening set   14542 Oct   10   06:33   17°M46'12   max. Earth dist.   14548 Nov 20   05:27   13° ₹45'15   20.39568 AU   morning rise   14548 Dec   06   12:32   14° ₹42'36   14548 Nov 20   05:27   13° ₹45'15   16° ₹45'15	min. Earth dist.	14542 Apr 26 19:23	16°M41'04	18.74973 AU	evening set	14548 Nov 04 01:03	12° <b>∡</b> ⁴48'19	
direct 14542 Jul 11 11:57 14° M.42'38 conjunction 14548 Nov 20 05:42 13° 🗷 15° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10		•	15°RM		-			
14542 Aug 06 12:06   15°ML   minimum elong   14548 Nov 20 05:41   13°√√45'17   1°08'18     evening set   14542 Oct 10 06:33   17°M√46'12   max. Earth dist.   14548 Nov 20 05:27   13°√√45'15   20.39568 AU     morning rise   14548 Dec 06 12:32   14°√√42'36     conjunction   14542 Oct 26 07:38   18°M√41'44   0°58'05   retrograde   14549 Mar 10 18:58   17°√√56'36	direct				conjunction	14548 Nov 20 05:42	13° <b>∡</b> ¹45'17	1°07'20
evening set 14542 Oct 10 06:33 17°					-			
morning rise 14548 Dec 06 12:32 14° ₹ 42'36 conjunction 14542 Oct 26 07:38 18° ₹ 41'44 0°58'05 retrograde 14549 Mar 10 18:58 17° ₹ 56'36	evening set	-			Č			
conjunction 14542 Oct 26 07:38 18°M⋅41'44 0°58'05 retrograde 14549 Mar 10 18:58 17° ₹ 56'36	evening set	17372 001 10 00.33	17 HV7012					20.57500 AU
·	conjunction	14542 Oat 26 07:29	100 <b>m</b> /11//	0.28102	-			
minimum ciong 14542 Oct 20 07.57 16 11641 44 0758 48 opposition 14549 May 26 05:07 15°x*55'29 1°15'00					-			1015100
	mmmum ciong	17374 OCT 40 U/.3/	10 11641 44	0 2040	оррознин	17577 May 20 US.U/	15 8.33.49	1 13 00

min. Earth dist.	14549 May 26 04:58	150 🗷 55'30	18.36623 AU	conjunction	14555 Dec 22 06:16	14° <b>る</b> 19'20	1°01'36
direct	14549 Aug 09 07:59	13° <b>x</b> 55'49	18.30023 AU	minimum elong	14555 Dec 22 06:16	14° <b>ろ</b> 19'20	1°02'38
evening set	14549 Nov 08 14:58	17° <b>×</b> 04'36		max. Earth dist.	14555 Dec 22 00:57		19.94927 AU
evening sec	113171107 00 11.30	17 7 0130		morning rise	14556 Jan 07 16:58	15° <b>る</b> 18'34	19.9 1927 110
conjunction	14549 Nov 24 20:15	18° <b>∡</b> ′01'51	1°07'40	retrograde	14556 Apr 10 23:02	18° <b>る</b> 37'46	
minimum elong	14549 Nov 24 20:15	18° <b>×</b> 01'51	1°08'39	opposition	14556 Jun 25 15:22	16° <b>る</b> 35'13	1°07'18
max. Earth dist.	14549 Nov 24 19:42		20.33583 AU	min. Earth dist.	14556 Jun 25 20:23		17.91722 AU
morning rise	14549 Dec 11 03:33	18° <b>₹</b> 59'25		direct	14556 Sep 08 12:11	14° <b>る</b> 33'19	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
retrograde	14550 Mar 15 10:09	22° <b>х</b> 14′14		evening set	14556 Dec 09 16:54	17° <b>る</b> 48'49	
opposition	14550 May 30 18:37	20° <b>х</b> 12′58	1°15'11	7 · 8 · ·		-, •	
min. Earth dist.	14550 May 30 19:50		18.30559 AU	conjunction	14556 Dec 26 02:41	18° <b>る</b> 48'04	0°59'13
direct	14550 Aug 13 19:28	18° <b>х</b> 13′05		minimum elong	14556 Dec 26 02:42	18° <b>る</b> 48'04	1°00'13
evening set	14550 Nov 13 05:53	21° <b>×</b> <sup>7</sup> 22'48		max. Earth dist.	14556 Dec 25 19:48		19.88536 AU
				morning rise	14557 Jan 11 14:03	19° <b>る</b> 47'34	
conjunction	14550 Nov 29 11:45	22° <b>х</b> 20′20	1°07'37	retrograde	14557 Apr 15 19:52	23° <b>る</b> 07'27	
minimum elong	14550 Nov 29 11:45	22° <b>₹</b> 20′20	1°08'39	opposition	14557 Jun 30 08:48	21°る04'40	1°04'28
max. Earth dist.	14550 Nov 29 09:48		20.27445 AU	min. Earth dist.	14557 Jun 30 14:19		17.85432 AU
morning rise	14550 Dec 15 19:45	23°×18'11		direct	14557 Sep 13 05:04	19° <b>る</b> 02'23	
retrograde	14551 Mar 20 03:32	26° × 33'47		evening set	14557 Dec 14 13:21	22° <b>る</b> 18'52	
opposition	14551 Jun 04 08:40	24° × 33'47	1°14'57	evening set	14337 Dec 14 13.21	22 01032	
min. Earth dist.	14551 Jun 04 10:09		18.24333 AU	conjunction	14557 Dec 30 23:53	23° <b>♂</b> 18'24	0°56'28
direct	14551 Aug 18 08:54	22° <b>x</b> 32'12	10.24333 AC	minimum elong	14557 Dec 30 23:54	23°る18'25	0°57'28
	=	25° <b>x</b> 42'52		max. Earth dist.	14557 Dec 30 17:50		19.82352 AU
evening set	14551 Nov 17 21:37	23 × 42 32		morning rise	14558 Jan 16 11:31	23 <b>3</b> 1729 24° <b>3</b> 18'10	19.82332 AU
	14551 D 04 04:15	26° <b>√</b> 40'41	1907!12	-		24 81810 27° <b>る</b> 38'40	
conjunction	14551 Dec 04 04:15		1°07'12	retrograde	14558 Apr 20 16:59		1001112
minimum elong	14551 Dec 04 04:15	26° <b>х</b> 40'41	1°08'13	opposition	14558 Jul 05 02:49	25° <b>る</b> 35'42	
max. Earth dist.	14551 Dec 04 01:54		20.21118 AU	min. Earth dist.	14558 Jul 05 08:15		17.79374 AU
morning rise	14551 Dec 20 12:45	27° 🗷 38'49		direct	14558 Sep 17 22:35	23° <b>る</b> 33'05	
	14552 Feb 05 20:00	0° <b>ප</b>		evening set	14558 Dec 19 10:53	26° <b>る</b> 50'32	
retrograde	14552 Mar 23 20:19	0° <b>궁</b> 55'11				_	
	14552 May 11 01:44	30°Ŗ <b>⋌</b> ¹		conjunction	14559 Jan 04 21:50	27° <b>ප්</b> 50'21	0°53'20
opposition	14552 Jun 07 23:24	28° <b>₹</b> 53'34	1°14'18	minimum elong	14559 Jan 04 21:50	27° <b>る</b> 50'21	0°54'18
min. Earth dist.	14552 Jun 08 02:08		18.17917 AU	max. Earth dist.	14559 Jan 04 14:20		19.76448 AU
direct	14552 Aug 21 22:32	26° <b>₹</b> 53'06		morning rise	14559 Jan 21 10:03	28° <b>る</b> 50'22	
	14552 Nov 20 05:51	0° <b>ろ</b>			14559 Feb 10 20:12	0° <b>≈</b>	
evening set	14552 Nov 21 14:19	0° <b>る</b> 04'44		retrograde	14559 Apr 25 14:40	2° <b>≈</b> 11'29	
				opposition	14559 Jul 09 21:22	0° <b>≈</b> 08'20	
conjunction	14552 Dec 07 21:32	1° <b>る</b> 02'50	1°06'23	min. Earth dist.	14559 Jul 10 03:25	0° <b>≈</b> 07'41	17.73636 AU
minimum elong	14552 Dec 07 21:32	1° <b>る</b> 02'50	1°07'26		14559 Jul 13 02:46	30°Ŗる	
max. Earth dist.	14552 Dec 07 17:25	1° <b>る</b> 02'13	20.14638 AU	direct	14559 Sep 22 16:17	28° <b>る</b> 05'24	
morning rise	14552 Dec 24 06:43	2° <b>る</b> 01'14			14559 Nov 29 11:07	0° <b>≈</b>	
retrograde	14553 Mar 28 14:11	5° <b>る</b> 18'21		evening set	14559 Dec 24 09:04	1° <b>≈</b> 23'49	
opposition	14553 Jun 12 14:29	3° <b>る</b> 16'30	1°13'12				
min. Earth dist.	14553 Jun 12 17:42	3° <b>ප</b> 16'10	18.11377 AU	conjunction	14560 Jan 09 20:45	2° <b>≈</b> 23'55	0°49'51
direct	14553 Aug 26 13:21	1°る15'42		minimum elong	14560 Jan 09 20:45	2° <b>≈</b> 23'55	0°50'47
evening set	14553 Nov 26 07:45	4° <b>ප</b> 28'18		max. Earth dist.	14560 Jan 09 14:08	2° <b>≈</b> 22'54	19.70877 AU
				morning rise	14560 Jan 26 09:12	3° <b>≈</b> 24'10	
conjunction	14553 Dec 12 15:44	5° <b>る</b> 26'42	1°05'11	retrograde	14560 Apr 29 13:24	6° <b>≈</b> 45'52	
minimum elong	14553 Dec 12 15:44	5° <b>⋜</b> 26'42	1°06'13	opposition	14560 Jul 13 16:31	4° <b>≈</b> 42'35	0°53'30
max. Earth dist.	14553 Dec 12 11:35	5° <b>る</b> 26'04	20.08054 AU	min. Earth dist.	14560 Jul 13 22:10	4° <b>≈</b> 41'58	17.68235 AU
morning rise	14553 Dec 29 01:20	6° <b>る</b> 25'22		direct	14560 Sep 26 11:51	2° <b>≈</b> 39'23	
retrograde	14554 Apr 02 08:11	9° <b>ප</b> 43'12		evening set	14560 Dec 28 08:13	5° <b>≈</b> 58'46	
opposition	14554 Jun 17 06:19	7° <b>る</b> 41'08	1°11'40				
min. Earth dist.	14554 Jun 17 10:22	7° <b>る</b> 40'42	18.04770 AU	conjunction	14561 Jan 13 20:11	6° <b>≈</b> 59'06	0°46'02
direct	14554 Aug 31 04:17	5° <b>る</b> 39'58		minimum elong	14561 Jan 13 20:12	6° <b>≈</b> 59'07	0°46'56
evening set	14554 Dec 01 01:54	8° <b>ප</b> 53'31		max. Earth dist.	14561 Jan 13 12:17	6° <b>≈</b> 57'54	19.65668 AU
				morning rise	14561 Jan 30 09:05	7° <b>≈</b> 59'36	
conjunction	14554 Dec 17 10:26	9° <b>ප</b> 52'12	1°03'35	retrograde	14561 May 04 11:22	11° <b>≈</b> 21'52	
minimum elong	14554 Dec 17 10:26	9° <b>ප</b> 52'12		opposition	14561 Jul 18 12:18	9° <b>≈</b> 18'30	0°49'05
max. Earth dist.	14554 Dec 17 04:43		20.01462 AU	min. Earth dist.	14561 Jul 18 18:47		17.63221 AU
morning rise	14555 Jan 02 20:46	10°る51'09		direct	14561 Oct 01 06:32	7°≈15'03	
retrograde	14555 Apr 07 03:35	14° <b>る</b> 09'42		evening set	14562 Jan 02 07:59	10° <b>≈</b> 35'24	
opposition		30772		J. J 500	Jun 02 01.37	10.00027	
SPPOSITION	•	12°云07'22	1°09'42				
min. Earth dist	14555 Jun 21 22:38	12°る07'22 12°る06'54		conjunction	14562 Jan 18 20:33	11°≈35'59	0°41'54
min. Earth dist.	14555 Jun 21 22:38 14555 Jun 22 03:09	12° <b>る</b> 06'54	1°09'42 17.98201 AU	conjunction	14562 Jan 18 20:33	11°≈35'59	0°41'54 0°42'45
direct	14555 Jun 21 22:38 14555 Jun 22 03:09 14555 Sep 04 20:13	12°පි06'54 10°පි05'50		minimum elong	14562 Jan 18 20:34	11° <b>≈</b> 35'59	0°42'45
	14555 Jun 21 22:38 14555 Jun 22 03:09	12° <b>る</b> 06'54		•		11° <b>≈</b> 35'59	

	14562 Mar 22 14:10	15° <b>≈</b>		morning rise	14568 Mar 05 00:18	10° <b>)</b> 48′13	
retrograde	14562 May 09 11:38	15° <b>≈</b> 59′28		retrograde	14568 Jun 06 12:42	14° <b>米</b> 12′53	
	14562 Jun 27 11:19	15°R <b>≈</b>		opposition	14568 Aug 19 21:19	12° <b>米</b> 09′15	
opposition	14562 Jul 23 08:37	13° <b>≈</b> 56′03	0°44'19	min. Earth dist.	14568 Aug 20 04:53	12° <b>)</b> €08′26	17.38121 AU
min. Earth dist.	14562 Jul 23 14:33	13° <b>≈</b> 55′25	17.58584 AU	direct	14568 Nov 02 23:32	10° <b>)</b> €04'25	
direct	14562 Oct 06 04:00	11° <b>≈</b> 52′26		evening set	14569 Feb 05 00:40	13° <b>¥</b> 29′58	
	14563 Jan 03 13:03	15° <b>≈</b>					
evening set	14563 Jan 07 08:38	15° <b>≈</b> 13'41		conjunction	14569 Feb 21 14:29	14° <b>)</b> 31′38	0°06'28
				minimum elong	14569 Feb 21 14:30	14° <b>)</b> €31'38	0°06'51
conjunction	14563 Jan 23 21:28	16° <b>≈</b> 14'30	0°37'29	behind sun begin	14569 Feb 21 08:14	14° <b>)</b> 30'41	
minimum elong	14563 Jan 23 21:28	16° <b>≈</b> 14'30	0°38'17	behind sun end	14569 Feb 21 20:45	14° <b>)</b> 32′36	
max. Earth dist.	14563 Jan 23 13:15	16° <b>≈</b> 13'14	19.56398 AU	max. Earth dist.	14569 Feb 21 05:13	14° <b>¥</b> 30′13	19.37060 AU
morning rise	14563 Feb 09 10:50	17°≈15'24		morning rise	14569 Mar 10 03:30	15° <b>¥</b> 33'14	
retrograde	14563 May 14 10:13	20° <b>≈</b> 38'41		retrograde	14569 Jun 11 12:38	18° <b>)</b> 57'59	
opposition	14563 Jul 28 05:39	18° <b>≈</b> 35'14	0°39'14	opposition	14569 Aug 24 20:42	16° <b>¥</b> 54'19	0°04'06
min. Earth dist.	14563 Jul 28 12:48		17.54312 AU	min. Earth dist.	14569 Aug 25 05:08		17.36134 AU
direct	14563 Oct 11 00:04	16° <b>≈</b> 31'24		direct	14569 Nov 07 23:22	14° <b>)(</b> 49'17	
evening set	14564 Jan 12 10:03	19°≈53'33		evening set	14570 Feb 10 04:27	18° <b>)</b> 15'17	
evening set	14304 Juli 12 10.03	17 70 33 33		evening set	14370100 10 04.27	10 /(1317	
conjunction	14564 Jan 28 23:19	20° <b>≈</b> 54'34	0°32'47	conjunction	14570 Feb 26 18:05	19° <b>¥</b> 17'00	0°00'52
minimum elong	14564 Jan 28 23:20	20°≈54'34	0°33'31	minimum elong	14570 Feb 26 18:06	19° <b>¥</b> 17'00	
max. Earth dist.	14564 Jan 28 15:26		19.52294 AU	behind sun begin	14570 Feb 26 11:21	19° <b>¥</b> 15'59	
morning rise	14564 Feb 14 12:44	21°≈55'38	19.82291110	behind sun end	14570 Feb 27 00:50	19° <b>¥</b> 18'02	
retrograde	14564 May 18 11:22	25°≈19'21		max. Earth dist.	14570 Feb 26 08:21		19.35340 AU
opposition	14564 Aug 01 02:59	23°≈15'52	0°33'53	morning rise	14570 Mar 15 06:57	20° <b>¥</b> 18'38	17.55540 AC
min. Earth dist.	14564 Aug 01 09:38		17.50364 AU	desc. node	14570 Apr 25 08:51	22°\(\)31'20	
direct	14564 Oct 14 23:34	23 ≈13 09 21°≈11'51	17.30304 AU		14570 Apr 25 08:31 14570 Jun 16 14:15	23° <del>)(</del> 43'22	
				retrograde opposition		23 <b>X</b> 43 22 21° <b>X</b> 39'41	0002110
evening set	14565 Jan 16 12:13	24° <b>≈</b> 34'50		* *	14570 Aug 29 20:04		
	14565 F 1 02 01 20	250 26102	0007151	min. Earth dist.	14570 Aug 30 03:31		17.34684 AU
conjunction	14565 Feb 02 01:38	25°≈36'02	0°27'51	direct	14570 Nov 13 01:11	19° <b>)</b> (34′29	
minimum elong	14565 Feb 02 01:38	25°≈36'02	0°28'32	evening set	14571 Feb 15 08:16	23° <b>)</b> €00'50	
max. Earth dist.	14565 Feb 01 16:42		19.48505 AU		1455134 02 21 50	2 40 1/ 02/2 5	0004151
morning rise	14565 Feb 18 15:08	26°≈37'15		conjunction	14571 Mar 03 21:50	24° <b>)</b> (02'35	
_	14565 May 16 13:01	0° <b>)</b> {		minimum elong	14571 Mar 03 21:51	24° <b>)</b> €02'36	0°04'38
retrograde	14565 May 23 10:14	0° <b>∺</b> 01'19		behind sun begin	14571 Mar 03 15:15	24° <b>₭</b> 01'35	
	14565 May 30 08:32	30°R <b>≈</b>		behind sun end	14571 Mar 04 04:27	24° <b>)</b> €03'36	
opposition	14565 Aug 06 01:08	27° <b>≈</b> 57'48	0°28'16	max. Earth dist.	14571 Mar 03 13:12		19.34160 AU
min. Earth dist.	14565 Aug 06 09:04	27° <b>≈</b> 56'56	17.46746 AU	morning rise	14571 Mar 20 10:13	25° <b>米</b> 04'13	
direct	14565 Oct 19 21:07	25° <b>≈</b> 53'34		retrograde	14571 Jun 21 14:52	28° <b>¥</b> 28'51	
evening set	14566 Jan 21 14:37	29° <b>≈</b> 17'18		opposition	14571 Sep 03 19:47	26° <b>米</b> 25′11	-0°08'25
	14566 Feb 02 04:24	0° <b>∀</b>		min. Earth dist.	14571 Sep 04 03:38	26° <b>)</b> (24′19	17.33794 AU
				direct	14571 Nov 18 01:27	24° <b>) 1</b> 9′52	
conjunction	14566 Feb 07 04:18	0° <b>)</b> 18′40	0°22'44	evening set	14572 Feb 20 12:15	27° <b>) (</b> 46′29	
minimum elong	14566 Feb 07 04:18	0° <b>)</b> 18'40	0°23'20				
max. Earth dist.	14566 Feb 06 19:23	0° <b>₩</b> 17'17	19.45062 AU	conjunction	14572 Mar 08 01:25	28° <b>)</b> 48′14	-0°10'24
morning rise	14566 Feb 23 17:48	1° <b>∺</b> 20′01		minimum elong	14572 Mar 08 01:24	28° <b>)</b> 48′14	0°10'17
retrograde	14566 May 28 11:53	4° <b>){</b> 44′22		behind sun begin	14572 Mar 07 20:06	28° <b>) (</b> 47′26	
opposition	14566 Aug 10 23:32	2° <b>)</b> 40′48	0°22'27	behind sun end	14572 Mar 08 06:43	28° <b>¥</b> 49′03	
min. Earth dist.	14566 Aug 11 06:44	2° <b>)</b> 40′01	17.43472 AU	max. Earth dist.	14572 Mar 07 16:10	28° <b>)</b> (46′48	19.33573 AU
direct	14566 Oct 24 22:33	0° <b>)</b> 36′22		morning rise	14572 Mar 24 13:28	29° <b>)</b> 49′50	
evening set	14567 Jan 26 17:42	4° <b>)</b> €00'47			14572 Mar 27 08:15	$0^{\circ}\Upsilon$	
				retrograde	14572 Jun 25 15:45	3° <b>Y</b> 14′20	
conjunction	14567 Feb 12 07:29	5° <b>¥</b> 02'17	0°17'25	opposition	14572 Sep 07 19:26	1° <b>Y</b> 10'41	-0°14'36
minimum elong	14567 Feb 12 07:29	5° <b>)</b> 02′17	0°17'57	min. Earth dist.	14572 Sep 08 02:18	1° <b>Y</b> ′09'56	17.33522 AU
max. Earth dist.	14567 Feb 11 22:09		19.41970 AU		14572 Oct 06 10:47	30°₽ <b>)</b> €	
morning rise	14567 Feb 28 20:54	6° <b>)</b> €03'44		direct	14572 Nov 22 03:07	29° <b>)</b> €05'17	
retrograde	14567 Jun 02 10:55	9° <b>¥</b> 28'17			14573 Jan 06 18:11	0°Υ	
opposition	14567 Aug 15 22:17	7° <b>¥</b> 24'41	0°16'27	evening set	14573 Feb 24 16:02	2° <b>Υ</b> '32'07	
min. Earth dist.	14567 Aug 16 06:44		17.40581 AU			5207	
direct	14567 Oct 29 21:24	5° <b>¥</b> 20′03	-,	conjunction	14573 Mar 13 05:00	3° <b>Y</b> 33'50	-0°15'53
evening set	14568 Jan 31 21:06	8° <b>)</b> (45'04		minimum elong	14573 Mar 13 04:59	3° <b>Υ</b> 33'50	
evening set	17500 Jan 51 21.00	0 <b>//</b> 7204		behind sun begin	14573 Mar 13 04:28	3° <b>Υ</b> 33'45	0 10 00
conjunction	14568 Feb 17 10:57	9° <b>){</b> 46'40	0°11'59	behind sun begin	14573 Mar 13 04:28	3°Υ33'55	
	14568 Feb 17 10:57	9° <b>H</b> 46'40		max. Earth dist.			19.33613 AU
minimum elong	14568 Feb 17 10:57 14568 Feb 17 06:38	9° <del>X</del> 46'40 9° <b>X</b> 46'01	0 12 20		14573 Mar 12 21:24 14573 Mar 29 16:22	3° γ 32'39 4° γ 35'22	17.33013 AU
behind sun begin				morning rise		4° γ 35'22 7° <b>Υ</b> 59'40	
behind sun end	14568 Feb 17 15:16	9° <b>)</b> (47'19	10.20207 433	retrograde	14573 Jun 30 16:21		0020141
max. Earth dist.	14568 Feb 17 01:15	y <sup>-</sup> 大45'10	19.39296 AU	opposition	14573 Sep 12 19:22	5° <b>Y</b> 56′06	-U-20'41

min. Earth dist. direct	14573 Sep 13 02:02 14573 Nov 27 04:09	3° <b>Y</b> ′50'42	17.33884 AU	conjunction minimum elong	14580 Apr 15 21:40 14580 Apr 15 21:40	6° <b>8</b> 42'51 6° <b>8</b> 42'51	0°49'42
evening set	14574 Mar 01 19:44	7° <b>Ƴ</b> 17'37		max. Earth dist. morning rise	14580 Apr 15 16:37 14580 May 02 04:19	6° <b>8</b> 42'04 7° <b>8</b> 43'18	19.49643 AU
conjunction	14574 Mar 18 08:08	8° <b>Y</b> 19'17	-0°21'16	retrograde	14580 Aug 02 09:31	11° <b>8</b> 04'40	
minimum elong	14574 Mar 18 08:08	8° <b>Y</b> 19'17	0°21'19	opposition	14580 Oct 15 17:21	9° <b>8</b> 02'23	-0°56'53
max. Earth dist.	14574 Mar 18 00:02		19.34306 AU	min. Earth dist.	14580 Oct 15 21:32	_	17.51603 AU
morning rise	14574 Apr 03 19:09	9° <b>Y</b> ′20'44		direct	14580 Dec 30 17:47	6° <b>8</b> 57'44	
retrograde	14574 Jul 05 16:05	12° <b>Y</b> ′44'48		evening set	14581 Apr 04 14:02	10° <b>8</b> 23'05	
opposition	14574 Sep 17 19:16	10° <b>Υ</b> 41'21			14501 4 20 20 07	1101/2010	00.50140
min. Earth dist.	14574 Sep 18 01:09	8° <b>Y</b> 35'59	17.34899 AU	conjunction	14581 Apr 20 22:07	11° <b>8</b> 23'36	
direct evening set	14574 Dec 02 06:12 14575 Mar 06 23:18	12° <b>Υ</b> 02'58		minimum elong max. Earth dist.	14581 Apr 20 22:06 14581 Apr 20 17:46	_	19.53600 AU
evening set	143/3 Widi 00 23.18	12 1 02 30		morning rise	14581 May 07 03:58	12° <b>8</b> 23'50	19.33000 AO
conjunction	14575 Mar 23 11:25	13° <b>Y</b> ′04'32	-0°26'30	morning rise	14581 Jun 27 16:45	15°8	
minimum elong	14575 Mar 23 11:25	13° <b>Y</b> °04'32		retrograde	14581 Aug 07 08:17	15° <b>8</b> 44'33	
max. Earth dist.	14575 Mar 23 05:01		19.35625 AU	8	14581 Sep 18 01:40	15°R <b>8</b>	
morning rise	14575 Apr 08 21:40	14° <b>Y</b> 05'52		opposition	14581 Oct 20 16:09	13° <b>8</b> 42'27	-1°00'43
retrograde	14575 Jul 10 16:05	17° <b>Y</b> 29'37		min. Earth dist.	14581 Oct 20 19:03	13° <b>8</b> 42'08	17.55716 AU
opposition	14575 Sep 22 19:05	15° <b>Y</b> ′26′22		direct	14582 Jan 04 20:06	11° <b>8</b> 37'56	
min. Earth dist.	14575 Sep 23 00:36		17.36506 AU		14582 Apr 08 20:34	15° <b>8</b>	
direct	14575 Dec 07 08:17	13° <b>Y</b> ′21′06		evening set	14582 Apr 09 14:26	15° <b>8</b> 02'42	
evening set	14576 Mar 11 02:52	16° <b>Ƴ</b> 48'02					
. ,.	14576 M 27 14 16	1700040120	0021122	conjunction	14582 Apr 25 21:45	16° <b>8</b> 02'59	
conjunction	14576 Mar 27 14:16	17° <b>Y</b> 49'30 17° <b>Y</b> 49'29		minimum elong max. Earth dist.	14582 Apr 25 21:45	16° <b>8</b> 02'59	19.57869 AU
minimum elong max. Earth dist.	14576 Mar 27 14:15 14576 Mar 27 07:18		19.37517 AU	morning rise	14582 Apr 25 17:51 14582 May 12 02:49	10 <b>8</b> 02 23	19.37809 AU
morning rise	14576 Apr 12 23:59	18° <b>Y</b> '50'42	19.37317 AU	retrograde	14582 Aug 12 03:50	20° <b>8</b> 22'59	
retrograde	14576 Jul 14 15:04	22° <b>Υ</b> 14'06		opposition	14582 Oct 25 14:42	18° <b>8</b> 21'04	-1°04'09
opposition	14576 Sep 26 19:02	20° <b>Υ</b> 11'02	-0°37'52	min. Earth dist.	14582 Oct 25 18:07	_	17.60147 AU
min. Earth dist.	14576 Sep 27 00:17		17.38672 AU	direct	14583 Jan 09 19:15	16° <b>8</b> 16'42	
direct	14576 Dec 11 10:28	18° <b>Y</b> ′05'52		evening set	14583 Apr 14 14:06	19° <b>8</b> 40'49	
evening set	14577 Mar 16 05:50	21° <b>Y</b> ′32'41					
				conjunction	14583 Apr 30 20:39	20° <b>8</b> 40'50	
conjunction	14577 Apr 01 16:46	22° <b>Y</b> '33'59		minimum elong	14583 Apr 30 20:38	20° <b>8</b> 40'50	
minimum elong	14577 Apr 01 16:45	22° <b>Y</b> 33'59	0°36'39	max. Earth dist.	14583 Apr 30 17:08	_	19.62458 AU
max. Earth dist.	14577 Apr 01 11:18		19.39924 AU	morning rise	14583 May 17 00:58	21° <b>8</b> 40'34	
morning rise	14577 Apr 18 01:39 14577 Jul 19 14:47	23° <b>Y</b> 35'02 26° <b>Y</b> 58'02		retrograde opposition	14583 Aug 17 01:36 14583 Oct 30 12:35	24° <b>8</b> 59'51 22° <b>8</b> 58'06	1007'00
retrograde opposition	14577 Oct 01 18:53	26 <b>γ</b> 55'10	-0°43'07	min. Earth dist.	14583 Oct 30 14:29	_	17.64886 AU
min. Earth dist.	14577 Oct 01 18:33		17.41306 AU	direct	14584 Jan 14 20:50	20° <b>8</b> 53'54	17.04000 AC
direct	14577 Dec 16 13:18	22° <b>Y</b> ′50'08		evening set	14584 Apr 18 12:54	24° <b>8</b> 17'16	
evening set	14578 Mar 21 08:44	26° <b>Y</b> 16'43		Ü	Ī	_	
_				conjunction	14584 May 04 18:41	25° <b>8</b> 17'02	-1°01'27
conjunction	14578 Apr 06 18:53	27° <b>Y</b> °17'51	-0°40'55	minimum elong	14584 May 04 18:41	25° <b>8</b> 17'02	1°02'14
minimum elong	14578 Apr 06 18:52	27° <b>Y</b> °17′51		max. Earth dist.	14584 May 04 16:17	_	19.67354 AU
max. Earth dist.	14578 Apr 06 12:56		19.42776 AU	morning rise	14584 May 20 22:09	26° <b>8</b> 16'30	
morning rise	14578 Apr 23 03:08	28° <b>Y</b> 18'43		retrograde	14584 Aug 20 19:38	29° <b>8</b> 35'02	
	14578 May 23 02:29	0°8		opposition	14584 Nov 03 10:14	27° <b>8</b> 33'27	
retrograde	14578 Jul 24 12:58 14578 Sep 28 11:26	1° <b>8</b> 41'14 30° <b>₹Υ</b>		min. Earth dist. direct	14584 Nov 03 12:25 14585 Jan 18 18:43	25° <b>6</b> 29'25	17.69955 AU
opposition	14578 Oct 06 18:33	29° <b>Υ</b> 38'34	-0°48'03	evening set	14585 Apr 23 10:38	23 <b>6</b> 2923 28° <b>6</b> 52'00	
min. Earth dist.	14578 Oct 06 23:18		17.44377 AU	evening set	14303 Apr 23 10.30	20 032 00	
direct	14578 Dec 21 14:41	27° <b>Υ</b> '33'39	17.113777110	conjunction	14585 May 09 15:36	29° <b>8</b> 51'30	-1°03'32
	14579 Mar 09 10:23	0°8		minimum elong	14585 May 09 15:35	29° <b>8</b> 51'30	
evening set	14579 Mar 26 11:04	0° <b>と</b> 59'55		max. Earth dist.	14585 May 09 13:34	29° <b>8</b> 51'11	19.72595 AU
					14585 May 11 22:42	$\Pi$ $^{\circ}0$	
conjunction	14579 Apr 11 20:40	2° <b>8</b> 00'52	-0°45'12	morning rise	14585 May 25 18:25	0° <b>Ⅱ</b> 50'41	
minimum elong	14579 Apr 11 20:39	2° <b>8</b> 00'52		retrograde	14585 Aug 25 16:02	4° <b>Ⅱ</b> 08'27	
max. Earth dist.	14579 Apr 11 15:43		19.46036 AU	opposition	14585 Nov 08 07:10	2° <b>Ⅱ</b> 07'03	
morning rise	14579 Apr 28 04:05	3° <b>8</b> 01'32		min. Earth dist.	14585 Nov 08 07:32		17.75365 AU
retrograde	14579 Jul 29 12:25	6° <b>8</b> 23'30	0052120	direct	14586 Jan 23 19:08	0° <b>Π</b> 03'14	
opposition min. Earth dist.	14579 Oct 11 18:02	4° <b>8</b> 21'02	-0°52'39 17.47813 AU	evening set	14586 Apr 28 07:37	3° <b>Ⅱ</b> 24'59	
direct	14579 Oct 11 21:49 14579 Dec 26 17:23	2° <b>8</b> 16'15	17.77013 AU	conjunction	14586 May 14 11:54	4° <b>∏</b> 24'12	-1°05'12
evening set	14579 Dec 20 17:25 14580 Mar 30 12:55	5° <b>8</b> 42'06		minimum elong	14586 May 14 11:54	4° <b>Π</b> 24'12	
3.0	- 1000 Mai 50 12.55	5 0 12 00		max. Earth dist.	14586 May 14 11:31		19.78170 AU

14599 Jul 10 07:50

0° Ω55'32 -0°51'34

min. Earth dist.

14592 Dec 09 15:33

3°516'12 18.19951 AU

conjunction

minimum elong	14599 Jul 10 07:50	0° <b>Ω</b> 55'32	0°52'31
max. Earth dist.	14599 Jul 10 13:48	0° <b>Ω</b> 56′25	20.58905 AU
morning rise	14599 Jul 26 03:57	1° <b>Q</b> 51′09	
retrograde	14599 Oct 25 20:22	4° <b>Ω</b> 58'45	
opposition	14600 Jan 10 02:47	3° <b>Ω</b> 00'09	-0°55'24
min. Earth dist.	14600 Jan 09 20:18	3° <b>Ω</b> 00'49	18.61621 AU
direct	14600 Mar 28 04:40	1° <b>Ω</b> 00′17	
evening set	14600 Jun 28 20:10	4° <b>Ω</b> 08'47	
conjunction	14600 Jul 14 16:55	5° <b>Ω</b> 04'18	-0°48'15
minimum elong	14600 Jul 14 16:55	5° <b>Ω</b> 04'18	0°49'09
max. Earth dist.	14600 Jul 15 00:25	5° <b>Ω</b> 05'24	20.64268 AU
morning rise	14600 Jul 30 12:45	5° <b>Ω</b> 59'43	
retrograde	14600 Oct 30 06:36	9° <b>Ω</b> 06'47	
opposition	14601 Jan 14 15:08	7° <b>Ω</b> 08'19	-0°51'34
min. Earth dist.	14601 Jan 14 07:50	7° <b>Ω</b> 09'03	18.66899 AU
direct	14601 Apr 01 17:42	5° <b>Ω</b> 08'43	
evening set	14601 Jul 03 04:50	8° <b>Ω</b> 16′22	
conjunction	14601 Jul 19 01:13	9° <b>Ω</b> 11'42	-0°44'42
minimum elong	14601 Jul 19 01:13	9° <b>Ω</b> 11'42	0°45'34
max. Earth dist.	14601 Jul 19 08:20	9° <b>Ω</b> 12'44	20.69464 AU
morning rise	14601 Aug 03 21:07	10° <b>Ω</b> 06′57	
retrograde	14601 Nov 03 15:52	13° <b>Ω</b> 13'33	