direct

morning max el

4102 Jan 25 23:03

4102 Feb 04 19:32

16°**る**49'31

22°る39'27 22°44'59

0°**)**€

 $0^{\circ}\Upsilon$ 

4101 Mar 10 17:54

4101 Mar 29 16:42

morning max el	4104 Jan 01 08:39	19° <b>₰</b> 54'29	20°07'17	direct	4104 Dec 07 15:25	29°M55'25	
	4104 Jan 09 13:53	8°0			4104 Dec 08 13:13	0° <b>∡</b> ¹	
desc. node	4104 Jan 19 20:58	14° <b>る</b> 59'37		morning max el	4104 Dec 14 14:51	3° <b>∡</b> ¹48'13	19°08'13
morning set	4104 Jan 28 13:21	28° <b>る</b> 14'09		-	4105 Jan 02 06:31	8°0	
Ü	4104 Jan 29 16:44	0° <b>≈</b>		desc. node	4105 Jan 05 17:58	5° <b>る</b> 23'52	
max. Earth dist.	4104 Feb 08 03:14	14°≈50'46	1.43863 AU	morning set	4105 Jan 06 16:19	6° <b>る</b> 50'42	
max. Earth dist.	41041'00 08 03.14	14 ~30 40	1.43603 AU	max. Earth dist.	4105 Jan 20 18:38		1.44924 AU
	4104 F 1 12 10 20	220 - 50152	200.412.6	max. Earth dist.			1.44924 AU
superior conj	4104 Feb 13 18:38	23°≈58'52			4105 Jan 21 11:44	0° <b>≈</b>	
minimum elong	4104 Feb 13 14:57	23° <b>≈</b> 43'49	2°04'17				
	4104 Feb 17 10:00	0° <b>ℋ</b>		superior conj	4105 Jan 23 09:08	2° <b>≈</b> 59'19	-1°43'09
evening rise	4104 Feb 26 16:39	15° <b>) (</b> 46′46		minimum elong	4105 Jan 23 00:21	2° <b>≈</b> 24'36	1°42'24
	4104 Mar 06 00:13	$0$ ° $\Upsilon$		evening rise	4105 Feb 07 02:23	26° <b>≈</b> 44'07	
asc. node	4104 Mar 10 21:00	7° <b>Ƴ</b> 35'37			4105 Feb 09 02:01	0° <b>∀</b>	
evening max el	4104 Mar 15 11:04	13° <b>Ƴ</b> 15'47	18°10'01	asc. node	4105 Feb 25 18:01	25° <b>)</b> € 20'55	
retrograde	4104 Mar 21 21:28	16° <b>Ƴ</b> 39'03		evening max el	4105 Feb 26 23:14	26° <b>)</b> 39'37	18°30'13
evening set	4104 Mar 24 18:03	15° <b>Υ</b> 57'20		evening max er	4105 Mar 03 21:20	0° <b>Υ</b>	10 30 13
•		13 <b>γ</b> 37 20 10° <b>γ</b> 43'36	3°31'19		4105 Mar 05 11:55	0° <b>Υ</b> 14'14	
inferior conj	4104 Mar 30 22:23			retrograde			
minimum elong	4104 Mar 30 23:35	10° <b>Y</b> 40′22	3°31'13		4105 Mar 07 02:08	30° <b>₹</b>	
min. Earth dist.	4104 Apr 02 16:37	7° <b>Ƴ</b> 47'46	0.62750 AU	evening set	4105 Mar 08 14:25	29° <b>∺</b> 20'30	
morning rise	4104 Apr 06 03:55	4° <b>Ƴ</b> 39'36		inferior conj	4105 Mar 14 09:40	23° <b>) (</b> 48′27	3°35'58
direct	4104 Apr 13 01:08	2° <b>Y</b> 03'51		minimum elong	4105 Mar 14 09:14	23° <b>) (</b> 49′44	3°35'57
desc. node	4104 Apr 16 20:11	2° <b>Y</b> 45'58		min. Earth dist.	4105 Mar 16 12:38	21° <b>ℋ</b> 18′07	0.64601 AU
morning max el	4104 Apr 27 01:13	10° <b>Ƴ</b> 02'22	27°49'57	morning rise	4105 Mar 20 03:25	17° <b>¥</b> 37'38	
	4104 May 12 14:53	0°8		direct	4105 Mar 26 21:50	14° <b>) (</b> 48′27	
	4104 May 29 18:37	0° <b>I</b>		desc. node	4105 Apr 03 17:12	17° <b>¥</b> 46'04	
		2° <b>II</b> 43'15				22° <b>)</b> (42'16	27920146
morning set	4104 May 31 03:15		1 22504 411	morning max el	4105 Apr 09 10:47		27-2046
max. Earth dist.	4104 Jun 05 13:42	14° <b>Ⅱ</b> 02'29	1.32594 AU		4105 Apr 15 21:29	0° <b>Υ</b>	
asc. node	4104 Jun 06 20:16	16° <b>Ⅱ</b> 46′38			4105 May 05 21:01	0°8	
				morning set	4105 May 14 18:58	16° <b>8</b> 26'45	
superior conj	4104 Jun 07 18:01	18° <b>Ⅱ</b> 44'18	0°09'30	max. Earth dist.	4105 May 19 12:30	25° <b>8</b> 56'47	1.33522 AU
minimum elong	4104 Jun 07 17:34	18° <b>Ⅱ</b> 41'50	0°09'24		4105 May 21 11:18	$\Pi$ $^{\circ}0$	
behind sun begin	4104 Jun 07 13:19	18° <b>Ⅱ</b> 18'50					
behind sun end	4104 Jun 07 21:49	19° <b>Ⅱ</b> 04'52		superior conj	4105 May 22 22:27	3° <b>Ⅱ</b> 05'14	-0°18'33
	4104 Jun 12 22:24	0°95		minimum elong	4105 May 22 23:24	3° <b>Ⅱ</b> 10'16	0°18'20
evening rise	4104 Jun 14 16:53	3°947'31		asc. node	4105 May 24 17:19	6° <b>П</b> 53'13	0 1020
evening rise	4104 Jun 28 19:33	0°Ω			•	18° <b>Ⅲ</b> 29'54	
			22047115	evening rise	4105 May 30 04:03		
evening max el	4104 Jul 08 16:04	12° <b>Ω</b> 19'47	23°4/15		4105 Jun 04 20:33	0.20	
desc. node	4104 Jul 13 19:27	16° <b>Ω</b> 27'26		evening max el	4105 Jun 20 07:04	22° <b>©</b> 44'48	22°10'43
retrograde	4104 Jul 22 08:35	19° <b>Ω</b> 12'24		desc. node	4105 Jun 30 16:27	28° <b>©</b> 53'27	
evening set	4104 Jul 26 16:17	18° <b>Ω</b> 31'19		retrograde	4105 Jul 03 03:39	29° <b>5</b> 07'33	
min. Earth dist.	4104 Aug 02 02:13	15° <b>Ω</b> 27'57	0.56090 AU	evening set	4105 Jul 06 00:52	28° <b>©</b> 49'04	
inferior conj	4104 Aug 04 08:33	14° <b>Ω</b> 05'51	-4°58'25	min. Earth dist.	4105 Jul 14 12:46	25° <b>©</b> 09'41	0.55029 AU
minimum elong	4104 Aug 04 03:53	14° <b>Ω</b> 12'55	4°57'54	inferior conj	4105 Jul 15 07:49	24°9542'51	-3°56'51
morning rise	4104 Aug 12 18:02	10° <b>Ω</b> 09'37		minimum elong	4105 Jul 14 23:19	24°954'50	3°54'39
direct	4104 Aug 15 12:54	9° <b>Ω</b> 49'59		morning rise	4105 Jul 23 23:34	20°952'18	
morning max el	4104 Aug 25 16:11	14° <b>Ω</b> 32'26	20°01'05	direct	4105 Jul 27 02:41	20°930'25	
=	0		20 01 03				21925122
asc. node	4104 Sep 02 19:28	24° <b>£</b> 56′08		morning max el	4105 Aug 07 21:06	25° <b>©</b> 59'49	21 23 33
	4104 Sep 05 19:10	0° Mp		Ā	4105 Aug 11 15:13	0° <b>N</b>	
morning set	4104 Sep 12 18:48	13° <b>m</b> 30'03		asc. node	4105 Aug 20 16:31	13° <b>Ω</b> 40'33	
				morning set	4105 Aug 28 03:28	28° <b>Ω</b> 16′09	
superior conj	4104 Sep 20 12:34	29° <b>m</b> 15'03	1°43'10		4105 Aug 28 23:24	0° <b>™</b>	
minimum elong	4104 Sep 20 13:27	29° <b>m</b> 19'25	1°43'09				
	4104 Sep 20 21:34	0∘ <b>⊽</b>		superior conj	4105 Sep 04 10:53	13° Mp 36'00	1°43'31
max. Earth dist.	4104 Sep 26 03:09	10° <b>£</b> 11'17	1.36922 AU	minimum elong	4105 Sep 04 10:17	13° m 32'52	1°43'31
evening rise	4104 Sep 29 22:35	17° <b>♀</b> 14'50		max. Earth dist.	4105 Sep 08 14:11		1.35141 AU
e vennig rise	4104 Oct 07 07:13	0°M		evening rise	4105 Sep 12 20:47	0° <b>£</b> 24'00	1.55111110
11.				evening rise	*		
desc. node	4104 Oct 09 18:44	4°M02'53			4105 Sep 12 15:44	0° <b>⊽</b>	
	4104 Oct 27 22:03	0° <b>∡</b> ¹		desc. node	4105 Sep 26 15:46	24° <b>≏</b> 18'06	
evening max el	4104 Nov 04 16:26	8° <b>∡</b> 740'43	25°42'13		4105 Sep 30 09:15	0°M	
retrograde	4104 Nov 16 23:49	15° <b>∡</b> ⁴43'18		evening max el	4105 Oct 18 04:55	22°M20'07	26°40'31
evening set	4104 Nov 23 00:32	13° <b>∡</b> 13′08		retrograde	4105 Oct 31 04:57	29°M35'22	
min. Earth dist.	4104 Nov 27 08:44	8° <b>≯</b> 29'33	0.67023 AU	evening set	4105 Nov 06 18:30	26°M56'03	
inferior conj	4104 Nov 28 15:46	6° <b>∡</b> ¹50'57	-0°23'04	min. Earth dist.	4105 Nov 10 19:48	22°M48'06	0.66015 AU
minimum elong	4104 Nov 28 16:22	6° <b>∡</b> 749'02	0°22'49	inferior conj	4105 Nov 12 14:25	20°M41'46	
asc. node	4104 Nov 29 18:42	5° <b>⊀</b> ¹26'20	-	minimum elong	4105 Nov 12 16:42	20°M34'59	
morning rise	4104 Nov 25 18:42 4104 Dec 04 08:33	0° <b>₹</b> 57'29		asc. node	4105 Nov 16 15:43	16°M22'58	
morning 1150	4104 Dec 06 17:52	30°RM		morning rise	4105 Nov 16 15:45 4105 Nov 18 15:40	14°M59'10	
	7107 DEC 00 17.32	JU KIIL		morning rise	+105 100 10 13.40	1サ 11639 10	

min. Earth dist.

4107 Oct 07 16:47

20°**2**30'49 0.62971 AU

30°R<u> </u>Ω

4106 Oct 31 20:32

evening rise	4111 Jun 08 19:03	27° <b>Ⅱ</b> 24'37		evening rise	4112 May 23 05:23	12° <b>I</b> I02'15	
	4111 Jun 10 00:35	0°95			4112 Jun 01 12:20	0°ಅ	
	4111 Jun 27 18:10	$0^{\circ}\Omega$		evening max el	4112 Jun 12 06:42	14° <b>9</b> 37'30	21°31'56
evening max el	4111 Jul 01 12:24	4° <b>Ω</b> 05'43	23°05'51	retrograde	4112 Jun 24 13:15	20°9540'28	
desc. node	4111 Jul 08 21:51	9° <b>Ω</b> 24'51		desc. node	4112 Jun 24 18:53	20°9640'21	
retrograde	4111 Jul 14 22:36	10° <b>Ω</b> 47'43		evening set	4112 Jun 27 00:09	20°526'45	
evening set	4111 Jul 18 14:25	10° <b>Ω</b> 18'27		inferior conj	4112 Jul 06 09:11	16° <b>5</b> 26'24	-3°16'05
min. Earth dist.	4111 Jul 25 21:33	7° <b>Ω</b> 01′20	0.55542 AU	minimum elong	4112 Jul 06 00:57	16° <b>©</b> 37'55	3°13'35
inferior conj	4111 Jul 27 14:16	6° <b>Ω</b> 02'08	-4°38'41	min. Earth dist.	4112 Jul 06 08:08	16° <b>©</b> 27'53	0.54852 AU
minimum elong	4111 Jul 27 07:21	6° <b>Ω</b> 12'14	4°37'27	morning rise	4112 Jul 15 02:43	12° <b>©</b> 32'32	
morning rise	4111 Aug 05 02:36	2° <b>Ω</b> 10′01		direct	4112 Jul 18 11:02	12° <b>©</b> 08'11	
direct	4111 Aug 08 00:40	1° <b>Ω</b> 49'41		morning max el	4112 Jul 30 20:33	17° <b>©</b> 58'52	22°06'36
morning max el	4111 Aug 18 20:35	6° <b>Ω</b> 51'31	20°34'38		4112 Aug 09 11:02	$0^{\circ}\Omega$	
asc. node	4111 Aug 28 22:03	20° <b>Ω</b> 10'48		asc. node	4112 Aug 14 19:06	9° <b>Ω</b> 08'53	
	4111 Sep 03 06:31	O°Mp		morning set	4112 Aug 21 05:15	21° <b>Ω</b> 55'52	
morning set	4111 Sep 06 19:20	7° Mp 06'27			4112 Aug 25 00:46	0° <b>m</b> )	
superior conj	4111 Sep 14 08:07	22° m 39'08	1°44'11	superior conj	4112 Aug 28 09:35	7° <b>m</b> 08'48	1°41'38
minimum elong	4111 Sep 14 08:19	22° mp 40'11	1°44'11	minimum elong	4112 Aug 28 08:29	7° m 02'59	1°41'35
	4111 Sep 18 00:04	0∘ <b>⊽</b>		max. Earth dist.	4112 Aug 31 22:28	14° <b>m</b> ) 29'57	1.34497 AU
max. Earth dist.	4111 Sep 19 07:31	2° <b>ჲ</b> 33'41	1.36130 AU	evening rise	4112 Sep 05 11:26	23° m/32'49	
evening rise	4111 Sep 23 06:58	10° <b>≏</b> 06'06			4112 Sep 08 21:16	0° <del>ح</del>	
desc. node	4111 Oct 04 21:12	0°M02'03		desc. node	4112 Sep 20 18:13	20° <b>≏</b> 08'32	
	4111 Oct 04 20:41	o° <b>m</b>			4112 Sep 27 11:35	0° <b>M</b>	
	4111 Oct 27 02:31	0°⊀		evening max el	4112 Oct 10 11:17	15°M27'00	26°59'15
evening max el	4111 Oct 28 22:37	1° <b>≯</b> 51'03	26°09'16	retrograde	4112 Oct 23 16:19	22°M43'42	
retrograde	4111 Nov 10 13:48	8° <b>₹</b> 59'49		evening set	4112 Oct 30 10:45	20°ML02'43	
evening set	4111 Nov 16 20:07	6° <b>₹</b> 25'24		min. Earth dist.	4112 Nov 03 09:25	16° <b>M</b> L09'57	0.65483 AU
min. Earth dist.	4111 Nov 21 01:26	1° <b>₹</b> 56'42	0.66637 AU	inferior conj	4112 Nov 05 09:05	13° <b>M</b> 53'37	-1°48'41
inferior conj	4111 Nov 22 13:12	0° <b>√</b> 06'03	-0°47'57	minimum elong	4112 Nov 05 12:09	13° <b>M</b> 44'53	1°47'26
minimum elong	4111 Nov 22 14:29	0° <b>х</b> 02′04	0°47'24	asc. node	4112 Nov 10 18:19	8°M44'56	
	4111 Nov 22 15:09	30°RM		morning rise	4112 Nov 11 14:25	8°M16'34	
asc. node	4111 Nov 24 21:15	27° <b>M</b> 19'34		direct	4112 Nov 14 08:35	7°MJ35'14	
morning rise	4111 Nov 28 09:21	24°M16'36		morning max el	4112 Nov 20 20:42	11°ML05'14	18°11'46
direct	4111 Dec 01 11:57	23°M21'27			4112 Dec 04 02:47	0°⊀	
morning max el	4111 Dec 08 06:29	27°M05'25	18°47'47	morning set	4112 Dec 09 12:15	8° <b>≯</b> ¹48'33	
	4111 Dec 10 21:03	0°⊀		desc. node	4112 Dec 17 17:28	22° <b>҂</b> ¹07'33	
morning set	4111 Dec 29 18:56	28° <b>҂</b> 13'47			4112 Dec 22 16:03	0°ರ	
	4111 Dec 30 21:58	0°రె					
desc. node	4111 Dec 31 20:27	1° <b>る</b> 28'22		superior conj	4112 Dec 24 08:13	2° <b>る</b> 38'48	-0°44'19
max. Earth dist.	4112 Jan 14 02:50	22° <b>る</b> 17'17	1.45166 AU	minimum elong	4112 Dec 24 02:39	2° <b>る</b> 16'49	0°43'33
				max. Earth dist.	4112 Dec 26 22:28	6° <b>る</b> 43'53	1.45197 AU
superior conj	4112 Jan 15 04:43	23° <b>る</b> 58'56		evening rise	4113 Jan 09 15:27	28° <b>る</b> 07'52	
minimum elong	4112 Jan 14 19:27	23° <b>る</b> 22'32	1°27'25		4113 Jan 10 20:17	0° <b>≈</b>	
	4112 Jan 19 00:24	0° <b>≈</b>		greatest brilliancy	4113 Jan 21 19:36	16°≈55'46	-0.7m
evening rise	4112 Jan 30 13:57	18° <b>≈</b> 26'44			4113 Jan 31 01:52	0° <b>∀</b>	
	4112 Feb 06 17:58	0° <b>∀</b>		evening max el	4113 Feb 02 22:28	3° <b>¥</b> 15′24	19°29'02
evening max el	4112 Feb 20 14:48	19° <b>)</b> (44′38	18°44'16	asc. node	4113 Feb 06 17:36	6° <b>∺</b> 22'19	
asc. node	4112 Feb 20 20:32	19° <b>)</b> 59'01		retrograde	4113 Feb 10 03:40	7° <b>¥</b> 24'30	
retrograde	4112 Feb 27 06:44	23° <b>)</b> €27'03		evening set	4113 Feb 13 16:12	6° <b>₩</b> 11'50	2016140
evening set	4112 Mar 01 12:04	22° <b>)</b> (27'47	2022150	inferior conj	4113 Feb 19 03:41	0° <b>)</b> 17'04	
inferior conj	4112 Mar 07 04:26	16° <b>)</b> 48'37		minimum elong	4113 Feb 19 01:42	0° <b>₩</b> 23'35	3°16'21
minimum elong	4112 Mar 07 03:25	16° <b>)</b> €51'43		i matra	4113 Feb 19 08:54	30°R≈	0.66570 ATT
min. Earth dist.	4112 Mar 09 00:45	14° <b>)</b> (33'11	0.65282 AU	min. Earth dist.	4113 Feb 20 08:59	28°≈41'16	0.66572 AU
morning rise	4112 Mar 12 18:20	10° <b>)</b> (36'32		morning rise	4113 Feb 24 10:58	24°≈03'08	
direct	4112 Mar 19 09:45	7° <b>)</b> (45'54		direct	4113 Mar 02 15:32	21°≈18'04	25050157
desc. node	4112 Mar 28 19:38	12° <b>)</b> € 02'23 15° <b>)</b> € 33'01	26°58'57	morning max el desc. node	4113 Mar 15 01:22 4113 Mar 15 16:40	28°≈41'22 29°≈20'34	25°50'56
morning max el	4112 Apr 01 15:42 4112 Apr 13 12:42	0°Υ	20 3031	uese. Houe	4113 Mar 15 16:40 4113 Mar 16 07:40	29° <b>≈</b> 20°34 0° <b>∺</b>	
	4112 Apr 13 12:42 4112 May 02 07:39	0° <b>8</b>			4113 Mar 16 07:40 4113 Apr 07 07:35	0° <b>Υ</b>	
morning set	4112 May 02 07:39 4112 May 07 09:15	9° <b>8</b> 26'20		morning set	4113 Apr 07 07:35 4113 Apr 20 06:21	0° γ 22° <b>Υ</b> 09'51	
max. Earth dist.			1.34066 AU	max. Earth dist.	4113 Apr 24 02:26	29° <b>Y</b> 22'15	1.35656 AU
man. Larui Uist.	4112 May 11 10.20	IX-CALITIES	1.2 TOUU AU	mun. Lai in Uist.	1112 / 101 4T U4.4U	47 14413	1.55050 AU
	4112 May 11 19:29	18° <b>8</b> 10'06			4113 Apr 24 10:18	$6^{\circ}B$	
superior conj	4112 May 11 19:29 4112 May 15 19:44	26° <b>8</b> 25'21				0°8	
superior conj minimum elong	-		-0°30'51	superior conj		0°8 10°809'13	-1°00'02
	4112 May 15 19:44	26° <b>8</b> 25'21	-0°30'51	superior conj minimum elong	4113 Apr 24 10:18		
	4112 May 15 19:44 4112 May 15 21:21	26° <b>8</b> 25'21 26° <b>8</b> 33'50	-0°30'51		4113 Apr 24 10:18 4113 Apr 29 13:49	10° <b>8</b> 09'13	

morning set

max. Earth dist.

4114 Apr 02 08:09

4114 Apr 05 23:55

3°**Y**53′59

10°**Υ**24'45 1.37630 AU

max. Earth dist.

4115 Mar 18 18:54

4115 Mar 23 09:59

21°**¥**52'35 1.39807 AU

 $0^{\circ}\Upsilon$ 

4116 Mar 07 08:05

superior conj

16° **\( \)** 59'59 -2°05'26

superior conj	4117 Feb 16 02:50	27°≈13'57	-2°05'54	morning set	4118 Jan 10 02:54	10°る10'02	
minimum elong	4117 Feb 16 00:06	27°≈02'42		morning set	4118 Jan 22 19:50	0°≈	
	4117 Feb 17 18:54	0° <b>)</b> €		max. Earth dist.	4118 Jan 23 17:36	1° <b>≈</b> 25'47	1.44806 AU
evening rise	4117 Feb 28 18:28	18° <b>)</b> 44'44					
-	4117 Mar 07 06:31	$0^{\circ}\mathbf{\Upsilon}$		superior conj	4118 Jan 26 20:32	6° <b>≈</b> 22'21	-1°47'38
asc. node	4117 Mar 13 04:59	9° <b>Ƴ</b> 32'47		minimum elong	4118 Jan 26 12:14	5° <b>≈</b> 49'25	1°47'00
evening max el	4117 Mar 18 07:11	15° <b>Ƴ</b> 57'13	18°08'33	evening rise	4118 Feb 10 07:38	29° <b>≈</b> 50'38	
retrograde	4117 Mar 24 18:05	19° <b>Ƴ</b> 20′03			4118 Feb 10 09:54	0° <b>)</b> €	
evening set	4117 Mar 27 13:44	18° <b>Ƴ</b> 40′08		asc. node	4118 Feb 28 02:01	27° <b>)</b> €25'28	
inferior conj	4117 Apr 02 19:44	13° <b>Y</b> 29'14	3°28'54	evening max el	4118 Mar 01 19:36	29° <b>∺</b> 20′09	18°26'06
minimum elong	4117 Apr 02 21:13	13° <b>Y</b> 25′21	3°28'46		4118 Mar 02 12:03	0° <b>Υ</b>	
min. Earth dist.	4117 Apr 05 16:04	10° <b>Y</b> 30′56	0.62446 AU	retrograde	4118 Mar 08 07:29	2° <b>Y</b> 52'23	
morning rise	4117 Apr 09 03:20	7° <b>Y</b> 26'33		evening set	4118 Mar 11 09:01	2° <b>Y</b> 00'33	
direct	4117 Apr 16 00:13	4° <b>Y</b> 53'59			4118 Mar 14 00:19	30° <b>₹</b>	
desc. node	4117 Apr 19 04:00	5°Υ23'08	27051122	inferior conj	4118 Mar 17 05:26	26° <b>)</b> √31'16	
morning max el	4117 Apr 30 01:42	12° <b>Y</b> 52'43	27°51'23	minimum elong	4118 Mar 17 05:13	26° <b>)</b> ₹31'53	
	4117 May 13 17:27	0° <b>B</b>		min. Earth dist.	4118 Mar 19 10:48	23° <b>)</b> 56'04	0.64344 AU
marning gat	4117 May 31 06:10 4117 Jun 02 22:12	0°Ⅲ 5°Ⅲ18'40		morning rise	4118 Mar 23 00:41 4118 Mar 29 19:59	20° <b>)</b> 21'07 17° <b>)</b> 32'54	
morning set max. Earth dist.	4117 Jun 02 22:12 4117 Jun 08 11:14	16° <b>Ц</b> 54'30	1.32490 AU	direct desc. node		20° <b>H</b> 04'54	
asc. node	4117 Jun 09 04:18	18° <b>I</b> I26'21	1.32490 AU	morning max el	4118 Apr 06 01:03 4118 Apr 12 11:01	20 <del>X</del> 04 34 25° <del>X</del> 28'34	2702711
asc. Houe	411/ Juli 09 04.16	16 112021		morning max er	4118 Apr 16 14:37	23 χ2634 0° <b>Υ</b>	2/2/11
superior conj	4117 Jun 10 11:26	21° <b>I</b> I15'01	0°13'34		4118 May 07 05:19	0°8	
minimum elong	4117 Jun 10 10:48	21° <b>I</b> I1'33	0°13'26	morning set	4118 May 17 15:26	19° <b>8</b> 07'28	
behind sun begin	4117 Jun 10 08:00	20° <b>I</b> 56'19	0 13 20	max. Earth dist.	4118 May 22 11:27	28° <b>8</b> 53'30	1.33352 AU
behind sun end	4117 Jun 10 13:36	21° <b>Ⅱ</b> 26'48			4118 May 23 00:15	0°Щ	
	4117 Jun 14 11:46	0ංම			,		
evening rise	4117 Jun 17 09:37	6°9୍ଗ16'08		superior conj	4118 May 25 16:42	5° <b>∏</b> 39′25	-0°14'10
	4117 Jun 29 21:39	$0^{\circ}\Omega$		minimum elong	4118 May 25 17:26	5° <b>Ⅱ</b> 43'15	0°14'01
evening max el	4117 Jul 11 19:22	15° <b>Ω</b> 27'36	24°01'44	behind sun begin	4118 May 25 14:48	5° <b>Ⅱ</b> 29'15	
desc. node	4117 Jul 16 03:15	19° <b>Ω</b> 03'16		behind sun end	4118 May 25 20:04	5° <b>Ⅱ</b> 57'16	
retrograde	4117 Jul 25 13:42	22° <b>Ω</b> 23'25		asc. node	4118 May 27 01:21	8° <b>Ⅱ</b> 33'30	
evening set	4117 Jul 30 02:55	21° <b>Ω</b> 37'35		evening rise	4118 Jun 01 21:03	21° <b>∏</b> 00'05	
min. Earth dist.	4117 Aug 05 05:48	18° <b>Ω</b> 38'26			4118 Jun 06 06:26	0.20 0.20	2222445
inferior conj	4117 Aug 07 16:12	17° <b>Ω</b> 08'40		evening max el	4118 Jun 23 09:38	25° <b>©</b> 51'48	22°24'45
minimum elong morning rise	4117 Aug 07 12:28 4117 Aug 16 00:37	17° <b>Ω</b> 14'27 13° <b>Ω</b> 10'24	5°03'00	desc. node	4118 Jun 28 15:31 4118 Jul 03 00:16	0°Ω 1°Ω53'17	
direct	4117 Aug 16 00.37 4117 Aug 18 18:23	13 <b>8€</b> 10 24 12° <b>Ω</b> 50'59		retrograde	4118 Jul 06 10:26	2°Ω20'20	
morning max el	4117 Aug 18 18:23 4117 Aug 28 16:10	$17^{\circ} \Omega 27'21$	19°50'13	evening set	4118 Jul 09 11:58	1°Ω59'37	
asc. node	4117 Sep 05 03:32	26° <b>Ω</b> 52'08	17 30 13	evening set	4118 Jul 14 19:06	30°Rூ	
use. Houe	4117 Sep 07 01:40	0°m)		min. Earth dist.	4118 Jul 17 16:30	28°526'23	0.55134 AU
morning set	4117 Sep 15 12:22	16° Mp 00'03		inferior conj	4118 Jul 18 17:30	27° <b>©</b> 50'59	
5 - 5	4117 Sep 22 10:02	0∘ <del>⊽</del>		minimum elong	4118 Jul 18 09:12		4°07'30
	•			morning rise	4118 Jul 27 08:25	24° <b>©</b> 00'33	
superior conj	4117 Sep 23 08:08	1° <b>≙</b> 50'14	1°42'28	direct	4118 Jul 30 10:02	23° <b>©</b> 39'13	
minimum elong	4117 Sep 23 09:15	1° <b>≙</b> 55'49	1°42'25	morning max el	4118 Aug 10 22:50	29° <b>©</b> 01'27	21°11'47
max. Earth dist.	4117 Sep 29 03:45	13° <b>≏</b> 06'00	1.37212 AU		4118 Aug 11 23:05	$0^{\circ}\Omega$	
evening rise	4117 Oct 02 22:24	20° <b>ഫ</b> 02'19		asc. node	4118 Aug 23 00:37	15° <b>Ω</b> 31′02	
	4117 Oct 08 16:00	0° <b>M</b>			4118 Aug 30 11:56	0°Щ	
desc. node	4117 Oct 12 02:36	5° <b>M</b> ₊39'48		morning set	4118 Aug 30 20:31	0° <b>™</b> 44'21	
	4117 Oct 28 20:00	0° <b>∡</b>					
evening max el	4117 Nov 07 16:11	11° <b>∡</b> 18'46	25°32'05	superior conj	4118 Sep 07 05:11	16° Mp 07'10	1°43'55
retrograde	4117 Nov 19 20:44	18° <b>₹</b> 18'56		minimum elong	4118 Sep 07 04:47	16° Mp 05'06	1°43'54
evening set min. Earth dist.	4117 Nov 25 19:23 4117 Nov 30 04:36	15° <b>₹</b> 50'32	0.67143 AU	max. Earth dist.	4118 Sep 11 13:34 4118 Sep 14 03:30	24° പൂ37'02 0° <b>ഫ</b>	1.35387 AU
inferior conj	4117 Nov 30 04.30 4117 Dec 01 09:59	9° <b>×</b> 27'25		evening rise	4118 Sep 14 03:30 4118 Sep 15 18:12	0 <b>==</b> 3° <b>⊆</b> 04'31	
minimum elong	4117 Dec 01 09:39	9° <b>₹</b> 26'14		desc. node	4118 Sep 28 23:36	25° <b>⊆</b> 57'16	
transit middle	4117 Dec 01 10:21	9° <b>×</b> <sup>7</sup> 26'14		acce. node	4118 Oct 01 14:17	0°M	
transit begin	4117 Dec 01 10:21 4117 Dec 01 09:00	9° <b>×</b> <sup>7</sup> 30'33	· - · • •	evening max el	4118 Oct 21 04:40	24°M58'57	26°33'03
transit end	4117 Dec 01 11:42	9° <b>∡</b> 121'55		<i>5</i>	4118 Oct 27 10:37	0° <b>∡</b> 7	
asc. node	4117 Dec 02 02:44	8° <b>∡</b> ³33'58		retrograde	4118 Nov 03 02:42	2° <b>҂</b> 13′02	
morning rise	4117 Dec 07 01:40	3° <b>∡</b> ³32'33			4118 Nov 09 01:39	30°RM₊	
direct	4117 Dec 10 10:05	2° <b>∡</b> 127'55		evening set	4118 Nov 09 14:24	29°M34'48	
morning max el	4117 Dec 17 11:35	6° <b>⊀</b> 24'26	19°15'59	min. Earth dist.	4118 Nov 13 16:44	25°M21'23	0.66186 AU
greatest brilliancy	4117 Dec 31 01:50	24° <b>∡</b> ¹42'54	-0.7m	inferior conj	4118 Nov 15 09:32	23°M18'56	-1°13'28
	4118 Jan 03 12:57	0°₹		minimum elong	4118 Nov 15 11:34	23°M12'52	1°12'36
desc. node	4118 Jan 08 01:53	7° <b>る</b> 00'09		asc. node	4118 Nov 18 23:49	19°M21'45	

morning rise	4118 Nov 21 09:24	17°M34'24		direct	4119 Nov 08 03:06	0° <b>M</b> 54'45	
direct	4118 Nov 24 08:01	16°M45'46		morning max el	4119 Nov 14 14:42	4°M21'57	18°01'32
morning max el	4118 Nov 30 23:09	20°M22'59	18°30'22		4119 Dec 01 17:23	0°⊀	
	4118 Dec 08 10:47	0° <b>∡</b> ¹		morning set	4119 Dec 02 08:42	1° <b>≮</b> ¹03'48	
morning set	4118 Dec 21 02:58	19° <b>∡</b> 752'32		desc. node	4119 Dec 12 19:55	18° <b>∡</b> 15'57	
desc. node	4118 Dec 25 22:54	27° <b>∡</b> ³34′00					
	4118 Dec 27 11:44	5°0		superior conj	4119 Dec 16 08:03	23° <b>∡</b> ¹53'34	-0°23'57
				minimum elong	4119 Dec 16 05:06	23° <b>҂</b> ¹41'47	0°23'32
superior conj	4119 Jan 05 23:33	14° <b>る</b> 56'52	-1°10'52	· ·	4119 Dec 20 04:27	0°₹	
minimum elong	4119 Jan 05 15:09	14° <b>る</b> 23'57	1°09'51	max. Earth dist.	4119 Dec 20 06:57	0°る09'48	1.44983 AU
max. Earth dist.	4119 Jan 06 11:41	15°₹44'30	1.45264 AU	evening rise	4120 Jan 01 15:19	19° <b>る</b> 23'49	
iidii. Darui dibi.	4119 Jan 15 13:40	0°≈	1201110	evening noe	4120 Jan 08 12:58	0°≈	
evening rise	4119 Jan 21 21:25	9°≈59'15		greatest brilliancy	4120 Jan 15 13:46	10°≈36'54	-0.6m
greatest brilliancy	4119 Jan 31 06:31	24°≈49'13	-0.8m	evening max el	4120 Jan 27 11:18	26°≈21'01	19°52'51
greatest brilliancy	4119 Feb 03 15:02	24 <b>≈</b> 4913	-0.6111	evening max er	4120 Jan 27 11:18 4120 Feb 01 03:07	20 <b>≈</b> 2101 0° <b>H</b>	19 32 31
		0 <del>X</del> 12° <b>¥</b> 49'08	10001125			0° <b> ★</b> 18'28	
evening max el	4119 Feb 13 05:36		19°01'25	asc. node	4120 Feb 01 20:08		
asc. node	4119 Feb 14 23:04	14° <b>₩</b> 25'22		retrograde	4120 Feb 04 00:06	0° <b>)</b> 43'44	
retrograde	4119 Feb 20 02:28	16° <b>)</b> 41′57			4120 Feb 06 17:51	30°R≈	
evening set	4119 Feb 23 10:38	15° <b>∺</b> 37'17		evening set	4120 Feb 07 16:07	29° <b>≈</b> 25'07	
inferior conj	4119 Mar 01 00:37	9° <b>∺</b> 51′25		inferior conj	4120 Feb 13 02:18	23° <b>≈</b> 24'50	
minimum elong	4119 Feb 28 23:08			minimum elong	4120 Feb 13 00:03	23° <b>≈</b> 32'19	3°05'55
min. Earth dist.	4119 Mar 02 14:31	7° <b>₩</b> 51'51	0.65876 AU	min. Earth dist.	4120 Feb 14 01:42	22° <b>≈</b> 06'42	0.66994 AU
morning rise	4119 Mar 06 11:16	3° <b>∺</b> 38′08		morning rise	4120 Feb 18 07:46	17° <b>≈</b> 10′53	
direct	4119 Mar 12 22:36	0° <b>)</b> 48′07		direct	4120 Feb 24 06:54	14°≈31'00	
desc. node	4119 Mar 23 22:07	6° <b>)</b> 34'45		morning max el	4120 Mar 07 05:50	21° <b>≈</b> 39'22	25°16'39
morning max el	4119 Mar 25 20:56	8° <b>)</b> 27'41	26°32'36	desc. node	4120 Mar 09 19:08	24° <b>≈</b> 22'41	
C	4119 Apr 11 16:51	$0^{\circ}\mathbf{\Upsilon}$			4120 Mar 14 12:12	0° <b>∀</b>	
	4119 Apr 29 15:38	0°8			4120 Apr 03 22:52	$0^{\circ}\Upsilon$	
morning set	4119 Apr 30 21:08	2° <b>8</b> 18'16		morning set	4120 Apr 12 10:42	14° <b>Ƴ</b> 38'03	
max. Earth dist.	4119 May 05 00:38	_	1.34682 AU	max. Earth dist.	4120 Apr 16 02:45	21° <b>Υ</b> 22'23	1.36458 AU
max. Lartii dist.	4117 May 03 00.36	10 01703	1.54002 AC	max. Lartii dist.	4120 Apr 10 02:43 4120 Apr 20 14:54	0° <b>8</b>	1.50450 AC
superior conj	4119 May 09 15:39	19° <b>8</b> 40'10	0042114		4120 Apr 20 14.54	00	
	•	19° <b>8</b> 52'04			4120 4 22 05.27	20 00145	1912106
minimum elong	4119 May 09 17:57	_	0 42 48	superior conj	4120 Apr 22 05:27	3° <b>8</b> 09'45	
asc. node	4119 May 13 22:22	28° <b>8</b> 35'16		minimum elong	4120 Apr 22 09:18	3° <b>8</b> 28'46	1°11'28
	4119 May 14 14:32	0°II		asc. node	4120 Apr 29 19:24	18° <b>8</b> 27'43	
evening rise	4119 May 17 06:09	5° <b>Ⅱ</b> 31'51		evening rise	4120 Apr 30 10:43	19° <b>8</b> 45'14	
	4119 May 30 19:39	$0$ $\circ$ $\odot$			4120 May 05 15:54	$\Pi^{\circ}0$	
evening max el	4119 Jun 05 08:24	6° <b>©</b> 36'10	20°55'52	evening max el	4120 May 17 19:16	17° <b>Ⅱ</b> 58'59	19°43'37
retrograde	4119 Jun 16 23:12	12° <b>©</b> 17'29		retrograde	4120 May 27 16:12	22° <b>Ⅱ</b> 47'21	
evening set	4119 Jun 19 02:45	12° <b>©</b> 06'35		evening set	4120 May 29 15:08	22° <b>Ⅲ</b> 36′52	
desc. node	4119 Jun 19 21:19	11° <b>©</b> 57'32		desc. node	4120 Jun 05 18:20	19° <b>Ⅱ</b> 36′06	
inferior conj	4119 Jun 28 10:48	8° <b>©</b> 09'13	-2°29'17	inferior conj	4120 Jun 07 10:40	18° <b>Ⅲ</b> 34′26	-0°29'52
minimum elong	4119 Jun 28 03:58	8° <b>©</b> 18'53	2°26'57	minimum elong	4120 Jun 07 09:18	18° <b>Ⅲ</b> 36′32	0°29'22
min. Earth dist.	4119 Jun 29 04:02	7° <b>5</b> 044'48	0.54846 AU	min. Earth dist.	4120 Jun 09 17:09	17° <b>Ⅲ</b> 10′01	0.55523 AU
morning rise	4119 Jul 07 05:03	4° <b>©</b> 07'43		morning rise	4120 Jun 16 01:11	14° <b>Ⅱ</b> 04'19	
direct	4119 Jul 10 19:22	3° <b>©</b> 39'50		direct	4120 Jun 20 11:06	13° <b>Ⅱ</b> 21'10	
morning max el	4119 Jul 23 18:50	9° <b>©</b> 52'29	22°49'30	morning max el	4120 Jul 04 09:02	20° <b>Ⅱ</b> 17'23	24°32'54
. 8	4119 Aug 07 09:06	$0^{\circ}\Omega$			4120 Jul 12 15:57	0ಂಣ	
asc. node	4119 Aug 09 21:40	4° <b>Ω</b> 41'14		asc. node	4120 Jul 26 18:41	24°9514'33	
morning set	4119 Aug 15 07:20	15° <b>£</b> 36′03		morning set	4120 Jul 29 19:06	0° <b>£</b> 29'52	
morning set	411) Mug 13 07.20	13 0630 03		morning set	4120 Jul 29 13:27	0°Ω	
superior conj	4119 Aug 22 09:22	0° Mp 44'33	1°38'30		4120 Jul 27 13.27	0 86	
	-			aumorior coni	4120 Aug 05 19:05	150 024100	1027142
minimum elong	4119 Aug 22 07:51	0° Mp 36'26	1°38'32	superior conj	4120 Aug 05 18:05	15° <b>Ω</b> 34'09	
and the	4119 Aug 22 01:01	0° m/y	1 22025 477	minimum elong	4120 Aug 05 15:55	15° <b>Ω</b> 22'20	
max. Earth dist.	4119 Aug 25 08:10	6° m 58'08	1.33925 AU	max. Earth dist.	4120 Aug 07 11:26		1.32874 AU
evening rise	4119 Aug 30 04:16	16° mp 47'20			4120 Aug 12 13:04	0° <b>m</b>	
	4119 Sep 06 05:27	0∘ <b>⊽</b>		evening rise	4120 Aug 13 00:43	0° <b>т</b> 59'33	
desc. node	4119 Sep 15 20:37	15° <b>≙</b> 53'30			4120 Aug 29 04:24	0∘ <b>ত</b>	
	4119 Sep 26 00:55	0°M₊		desc. node	4120 Sep 01 17:39	5° <b>≏</b> 18'59	
evening max el	4119 Oct 03 17:12	8°M29'07	27°13'32	evening max el	4120 Sep 15 04:02	21° <b>≏</b> 36′01	27°26'44
retrograde	4119 Oct 17 02:53	15°M47'04		retrograde	4120 Sep 28 20:32	28° <b>≏</b> 51'57	
evening set	4119 Oct 24 01:14	13°ML06'00		evening set	4120 Oct 06 00:51	26° <b>≏</b> 17'35	
min. Earth dist.	4119 Oct 27 21:25	9° <b>M</b> 27'47	0.64881 AU	min. Earth dist.	4120 Oct 09 16:28	23° <b>≏</b> 11'24	0.63243 AU
inferior conj	4119 Oct 30 02:13	7°ML02'28		inferior conj	4120 Oct 12 09:17	20° <b>£</b> 31′03	-3°15'55
minimum elong	4119 Oct 30 06:02	6°M51'56		minimum elong	4120 Oct 12 14:40	20° <b>£</b> 17'42	3°14'09
morning rise	4119 Nov 05 11:53	1° <b>M</b> 31'19		morning rise	4120 Oct 19 05:56	15° <b>≙</b> 16'49	
asc. node	4119 Nov 05 20:53	1°ML21'44		direct	4120 Oct 21 16:21	14° <b>≏</b> 48'41	
	<del>-</del>						

	4120 0-4 22 17.55	14° <b>£</b> 54'11			4121 0 20 10.52	200p m	
asc. node	4120 Oct 22 17:55		17050114		4121 Sep 29 18:52	30°RM)	
morning max el	4120 Oct 28 07:19		17°50'14	morning rise	4121 Oct 02 11:39	28° m 43'07	
	4120 Nov 05 19:42	0°M		direct	4121 Oct 04 20:07	28° Tp 20'22	
morning set	4120 Nov 13 15:29	13°M27'31		asc. node	4121 Oct 09 14:56	29° <b>m</b> 58'22	
	4120 Nov 23 06:02	0°⊀			4121 Oct 09 15:53	0∘ <b>⊽</b>	
				morning max el	4121 Oct 11 21:57	1° <b>≏</b> 52'39	17°57'26
superior conj	4120 Nov 25 14:45	3° <b>∡</b> ¹56'57	0°21'24	morning set	4121 Oct 27 16:52	26° <b>≏</b> 44'18	
minimum elong	4120 Nov 25 16:55	4° <b>∡</b> ¹05'55	0°21'06		4121 Oct 29 11:32	0° <b>M</b>	
desc. node	4120 Nov 28 16:56	9° <b>∡</b> 02'09					
max. Earth dist.	4120 Dec 02 00:31	14° <b>₹</b> ¹24'02	1.44000 AU	superior conj	4121 Nov 07 00:18	15° <b>M</b> ₊19'23	0°57'48
evening rise	4120 Dec 11 00:53	28° <b>х</b> 34′10		minimum elong	4121 Nov 07 04:23	15° <b>M</b> ₊37'16	
**************************************	4120 Dec 11 23:11	0°る		max. Earth dist.	4121 Nov 14 13:28	28°M08'48	1.42432 AU
	4121 Jan 01 09:05	0° <b>≈</b>		desc. node	4121 Nov 15 13:58	29°M49'35	1.12132710
avanina may al	4121 Jan 09 11:32	0 <b>~</b> 9° <b>≈</b> 53'32	20057152	desc. flode	4121 Nov 15 15:36 4121 Nov 15 16:31	20° <b>√</b> 1	
evening max el			20 37 32				
retrograde	4121 Jan 17 22:05	14°≈53'09		evening rise	4121 Nov 20 18:18	8° <b>∡</b> 10'11	
asc. node	4121 Jan 18 17:10	14°≈49'42			4121 Dec 05 04:03	0°る	
evening set	4121 Jan 21 23:31	13° <b>≈</b> 19'34		evening max el	4121 Dec 23 06:20	23° <b>る</b> 27'28	22°12'44
inferior conj	4121 Jan 27 07:57	7°≈07'26	2°35'20	retrograde	4122 Jan 01 18:41	29° <b>る</b> 07'09	
minimum elong	4121 Jan 27 05:28	7°≈15'59	2°34'37	asc. node	4122 Jan 05 14:11	27° <b>る</b> 49'48	
min. Earth dist.	4121 Jan 27 18:20	6° <b>≈</b> 31'41	0.67695 AU	evening set	4122 Jan 06 07:08	27° <b>る</b> 17'49	
morning rise	4121 Feb 01 11:15	0° <b>≈</b> 54'28		inferior conj	4122 Jan 11 15:33	20° <b>る</b> 57'14	1°56'08
	4121 Feb 02 14:27	30°Ŗる		minimum elong	4122 Jan 11 13:18	21° <b>පි</b> 05'00	1°55'21
direct	4121 Feb 06 20:01	28° <b>る</b> 32'44		min. Earth dist.	4122 Jan 11 14:13	21° <b>ට</b> 01'50	0.68004 AU
	4121 Feb 11 12:40	0° <b>≈</b>		morning rise	4122 Jan 16 19:21	14° <b>る</b> 46'39	
morning max el	4121 Feb 17 14:25	4°≈57'38	23°49'26	direct	4122 Jan 21 13:15	12° <b>る</b> 47'04	
desc. node	4121 Feb 24 16:09	13° <b>≈</b> 06'02		morning max el	4122 Jan 31 01:24	18° <b>る</b> 22'57	22°20'50
dese. Hode	4121 Mar 08 21:06	0° <b>∀</b>		morning max or	4122 Feb 09 17:10	0°≈	22 20 30
morning set	4121 Mar 25 02:18	25° <b>)</b> 50'59		desc. node	4122 Feb 11 13:12	0 <b>~</b> 2° <b>≈</b> 29'30	
morning set	4121 Mar 27 11:53	23 <b>γ</b> (30 39		desc. node	4122 Mar 02 00:43	2 <b>∞</b> 29 30	
F 41 F 4			1 20540 ATT	. ,			
max. Earth dist.	4121 Mar 28 22:33	2° <b>Ƴ</b> 32'35	1.38549 AU	morning set	4122 Mar 05 14:19	5° <b>)</b> (43'48	1 4070 ( 111
	4101 4 05 06 00	1.5000.5010.0	1020120	max. Earth dist.	4122 Mar 10 19:12	14° <b>)</b> €21'15	1.40726 AU
superior conj	4121 Apr 05 06:29	15° <b>Y</b> 58′22					
minimum elong	4121 Apr 05 11:14	16° <b>Y</b> 20′50	1°37'46	superior conj	4122 Mar 18 14:11	27° <b>)</b> ₹54'58	
	4121 Apr 12 12:40	0°8		minimum elong	4122 Mar 18 18:15	28° <b>¥</b> 13′10	1°58'11
evening rise	4121 Apr 14 08:08	3° <b>8</b> 32'43			4122 Mar 19 17:58	$0^{\circ}$ Y	
asc. node	4121 Apr 16 16:26	8° <b>8</b> 06'04		evening rise	4122 Mar 28 19:07	16° <b>Ƴ</b> 45'53	
evening max el	4121 Apr 30 17:21	0° <b>Ⅱ</b> 02'14	18°51'19	asc. node	4122 Apr 03 13:28	27° <b>Y</b> ′24'34	
	4121 Apr 30 16:27	$\Pi$ $^{\circ}0$			4122 Apr 05 00:47	$9^{\circ}$ 8	
retrograde	4121 May 09 01:12	4° <b>Ⅱ</b> 06'47		evening max el	4122 Apr 13 23:40	12° <b>8</b> 38'46	18°19'18
evening set	4121 May 11 04:28	3° <b>Ⅱ</b> 51'44		retrograde	4122 Apr 21 05:09	16° <b>8</b> 14'44	
-	4121 May 18 13:31	30°R <b>∀</b>		evening set	4122 Apr 23 15:00	15° <b>8</b> 51'40	
inferior conj	4121 May 19 04:33	29° <b>8</b> 33'01	1°15'46	inferior conj	4122 Apr 30 19:58	11° <b>8</b> 12'57	2°31'01
minimum elong	4121 May 19 07:17	29° <b>8</b> 28'05	1°14'50	minimum elong	4122 Apr 30 23:35	11° <b>8</b> 05'17	
min. Earth dist.	4121 May 22 09:16	27° <b>8</b> 15'34	0.57014 AU	min. Earth dist.	4122 May 04 06:25	8° <b>8</b> 20'04	0.59030 AU
desc. node	4121 May 23 15:20	26° <b>8</b> 25'28	***************************************	morning rise	4122 May 08 05:16	5° <b>8</b> 36'51	
morning rise	4121 May 27 06:51	24° <b>8</b> 27'04		desc. node	4122 May 10 12:22	4° <b>8</b> 34'07	
direct	4121 Jun 01 16:00	23° <b>8</b> 17'16		direct	4122 May 10 12:22 4122 May 14 10:54	3° <b>8</b> 52'07	
direct		0° <b>I</b>			4122 May 28 20:16	11° <b>8</b> 39'35	27015122
	4121 Jun 15 05:03		26906129	morning max el	•		21 13 22
morning max el	4121 Jun 16 00:04	0° <b>Ⅱ</b> 44'55	26°06'38		4122 Jun 12 04:04	0°Ⅱ	
•	4121 Jul 06 12:49	0.20		morning set	4122 Jun 28 15:00	0°©03'15	
asc. node	4121 Jul 13 15:42	14°504'41			4122 Jun 28 14:23	0°50	
morning set	4121 Jul 14 06:14	15° <b>©</b> 21'10		asc. node	4122 Jun 30 12:43	4° <b>©</b> 05'14	
	4121 Jul 20 23:54	$0$ $\circ$ $\Omega$					
				superior conj	4122 Jul 05 17:03	15° <b>©</b> 23'44	0°52'01
superior conj	4121 Jul 21 05:16	0° <b>Ω</b> 29'37	1°11'58	minimum elong	4122 Jul 05 15:02	15° <b>©</b> 12'35	0°51'38
minimum elong	4121 Jul 21 02:56	0° <b>Ω</b> 16'47	1°11'36	max. Earth dist.	4122 Jul 05 08:15	14° <b>©</b> 35'13	1.32004 AU
max. Earth dist.	4121 Jul 21 20:42	1° <b>Ω</b> 54'33	1.32236 AU		4122 Jul 12 09:49	$0^{\circ}\Omega$	
evening rise	4121 Jul 28 04:28	15° <b>Ω</b> 32'16		evening rise	4122 Jul 12 12:55	0° <b>Ω</b> 16′24	
	4121 Aug 04 12:14	0° <b>m</b>			4122 Jul 28 17:41	0° <b>™</b>	
desc. node	4121 Aug 19 14:39	24° <b>m</b> 01'14		desc. node	4122 Aug 06 11:39	11° <b>m</b> 41'36	
	4121 Aug 24 11:39	0∘ <u>⊽</u>		evening max el	4122 Aug 10 10:05	15° <b>m</b> )49'11	26°15'44
evening max el	4121 Aug 28 10:28	4° <b>Ω</b> 06'13	27°07'47	retrograde	4122 Aug 24 09:25	22° m 58'37	
retrograde	4121 Sep 11 07:04	11° <b>⊆</b> 18'50		evening set	4122 Aug 30 21:56	21° m) 14'16	
evening set	4121 Sep 11 07:04 4121 Sep 18 09:21	9° <b>₽</b> 03'11		min. Earth dist.	4122 Sep 03 23:06	18° <b>m</b> ) 39'14	0.59253 AU
min. Earth dist.	4121 Sep 22 00:48	6° <b>£</b> 20'18	0.61323 AU	inferior conj	4122 Sep 03 25:00 4122 Sep 07 05:37	16° My 09'49	
inferior conj	4121 Sep 25 03:36	3° <b>£</b> 36'55		minimum elong	4122 Sep 07 03.37 4122 Sep 07 10:04	16°M)01'18	
minimum elong	4121 Sep 25 09:35	3° <b>£</b> 3033		morning rise	4122 Sep 07 10:04 4122 Sep 15 00:24	11° Mp 38'43	-T J-T U-2
minimum ciong	7121 Sep 23 07.33	J == 23 40	-f 10 4 I	morning 1150	7122 SCP 13 00.24	11 III 30 43	

28°**Ω**01'26 5°11'36

evening set

minimum elong

4123 Aug 19 12:07

13°**Ω**25'46

4124 Jul 21 01:36

	4126 Jun 19 08:08	30°R∏		retrograde	4127 May 20 08:27	14° <b>∏</b> 49'52	
inferior conj	4126 Jun 19 13:27	29° <b>∏</b> 52'14	-1°38'50	evening set	4127 May 20 08:27 4127 May 22 08:27	14° <b>∏</b> 38'04	
minimum elong	4126 Jun 19 08:48	29° <b>I</b> 59'02	1°37'08	inferior conj	4127 May 30 20:06	10° <b>Д</b> 29'58	0°18'05
min. Earth dist.	4126 Jun 20 23:44	29° <b>I</b> 102'10	0.55013 AU	minimum elong	4127 May 30 20:50 4127 May 30 20:51	10° <b>I</b> I29'30	0°17'47
morning rise	4126 Jun 28 07:10	25° <b>I</b> I40'13	0.55015710	desc. node	4127 May 30 20:31 4127 May 31 20:47	9° <b>∏</b> 49'03	0 17 17
direct	4126 Jul 02 04:40	25° <b>I</b> 107'25		min. Earth dist.	4127 Jun 02 14:20		0.56071 AU
	4126 Jul 13 18:20	0°9		morning rise	4127 Jun 08 06:15	5° <b>∏</b> 44'13	0.00071110
morning max el	4126 Jul 15 15:51		23°33'47	direct	4127 Jun 13 01:57	4° <b>П</b> 50'55	
	4126 Aug 03 20:33	0°N		morning max el	4127 Jun 27 05:44	12° <b>∏</b> 02'59	25°14'51
asc. node	4126 Aug 04 00:10	0° <b>Ω</b> 17'44			4127 Jul 11 01:43	0	
morning set	4126 Aug 08 09:35	9° <b>Ω</b> 16'45		asc. node	4127 Jul 21 21:11	19° <b>©</b> 58'50	
3				morning set	4127 Jul 23 21:14	24° <b>©</b> 09'48	
superior conj	4126 Aug 15 09:53	24° <b>Ω</b> 22'08	1°34'39	Č	4127 Jul 26 14:27	$0^{\circ}\Omega$	
minimum elong	4126 Aug 15 08:02	24° <b>Ω</b> 12'08	1°34'29				
max. Earth dist.	4126 Aug 17 19:44	29° <b>Ω</b> 31'23	1.33418 AU	superior conj	4127 Jul 30 19:53	9° <b>Ω</b> 15'00	1°21'35
	4126 Aug 18 01:09	O° Mp		minimum elong	4127 Jul 30 17:35	9° <b>Ω</b> 02'25	1°21'17
evening rise	4126 Aug 22 22:53	10° <b>m</b> 06'48		max. Earth dist.	4127 Aug 01 01:40	11° <b>Ω</b> 57'48	1.32549 AU
<b>8</b>	4126 Sep 02 17:03	0∘ <del>⊽</del>		evening rise	4127 Aug 06 22:46	24° <b>Ω</b> 28'41	
desc. node	4126 Sep 09 23:01	11° <b>≏</b> 33'25		<i>8</i> 21	4127 Aug 09 16:20	0° mp	
	4126 Sep 24 11:20	0°M			4127 Aug 27 08:01	0° <u>ۍ</u>	
evening max el	4126 Sep 25 22:49	1°M27'18	27°22'47	desc. node	4127 Aug 27 20:03	0° <b>£</b> 42'17	
retrograde	4126 Oct 09 11:58	8°M45'40		evening max el	4127 Sep 08 08:04	14° <b>£</b> 19'52	27°22'51
evening set	4126 Oct 16 13:40	6°M₀05'43		retrograde	4127 Sep 22 03:00	21° <b>≏</b> 35'05	
min. Earth dist.	4126 Oct 20 07:26		0.64221 AU	evening set	4127 Sep 29 07:24	19° <b>♀</b> 07'13	
inferior conj	4126 Oct 22 17:34	0°M08'47		min. Earth dist.	4127 Oct 02 22:08	16° <b>≙</b> 12'11	0.62445 AU
minimum elong	4126 Oct 22 22:07	29° <b>£</b> 56'48		inferior conj	4127 Oct 05 19:37	13° <b>Ω</b> 28'39	
	4126 Oct 22 20:54	30° <b>Ŗ</b> Ω		minimum elong	4127 Oct 06 01:25	13° <b>≙</b> 14'56	
morning rise	4126 Oct 29 07:51	24° <b>Ω</b> 44'44		morning rise	4127 Oct 12 21:07	8° <b>£</b> 22'42	
asc. node	4126 Oct 30 23:23	24° <b>£</b> 16′18		direct	4127 Oct 15 06:12	7° <b>£</b> 57'19	
direct	4126 Oct 31 20:36	24° <b>£</b> 12'18		asc. node	4127 Oct 17 20:24	8° <b>ഫ</b> 28'23	
morning max el	4126 Nov 07 08:53	27° <b>£</b> 37'51	17°54'35	morning max el	4127 Oct 22 01:02	11° <b>≏</b> 25'09	17°50'59
	4126 Nov 09 11:56	0°M			4127 Nov 03 11:28	0°M	
morning set	4126 Nov 24 09:42	23°M32'39		morning set	4127 Nov 07 01:10	6°M21'13	
Ü	4126 Nov 28 05:08	0° <b>√</b>		Č			
desc. node	4126 Dec 06 22:19	14° <b>∡</b> ¹25'22		superior conj	4127 Nov 18 06:16	25°M58'36	0°38'09
desc. node	4126 Dec 06 22:19	14° <b>₹</b> 25'22		superior conj minimum elong	4127 Nov 18 06:16 4127 Nov 18 09:38	25°M58'36 26°M12'52	0°38'09 0°37'41
	4126 Dec 06 22:19 4126 Dec 07 12:05	14° <b>₹</b> 25'22 15° <b>₹</b> 21'10	-0°03'59	superior conj minimum elong			
superior conj			-0°03'59 0°03'54		4127 Nov 18 09:38	26°M12'52	
superior conj minimum elong	4126 Dec 07 12:05	15° <b>⊀</b> 21'10		minimum elong	4127 Nov 18 09:38 4127 Nov 20 15:39	26°M12'52 0°⊀ 5°⊀12'45	
superior conj	4126 Dec 07 12:05 4126 Dec 07 11:37	15° <b>⊀</b> 21'10 15° <b>≮</b> 19'18		minimum elong  desc. node max. Earth dist.	4127 Nov 18 09:38 4127 Nov 20 15:39 4127 Nov 23 19:20	26°M12'52 0°⊀ 5°⊀12'45	0°37'41
superior conj minimum elong behind sun begin	4126 Dec 07 12:05 4126 Dec 07 11:37 4126 Dec 07 01:44	15° <b>4</b> 21'10 15° <b>4</b> 19'18 14° <b>4</b> 39'16		minimum elong desc. node	4127 Nov 18 09:38 4127 Nov 20 15:39 4127 Nov 23 19:20 4127 Nov 25 07:05	26°M12'52 0°⊀ 5°⊀12'45 7°⊀38'18	0°37'41
superior conj minimum elong behind sun begin behind sun end	4126 Dec 07 12:05 4126 Dec 07 11:37 4126 Dec 07 01:44 4126 Dec 07 21:30 4126 Dec 12 15:43	15° 🗷 21'10 15° 🗷 19'18 14° 🗷 39'16 15° 🗷 59'17	0°03'54	minimum elong  desc. node max. Earth dist.	4127 Nov 18 09:38 4127 Nov 20 15:39 4127 Nov 23 19:20 4127 Nov 25 07:05 4127 Dec 03 00:37 4127 Dec 09 14:51	26°M.12'52 0° ♂ 5° ♂ 12'45 7° ♂ 38'18 19° ♂ 54'19	0°37'41
superior conj minimum elong behind sun begin behind sun end max. Earth dist.	4126 Dec 07 12:05 4126 Dec 07 11:37 4126 Dec 07 01:44 4126 Dec 07 21:30	15° 🖈 21'10 15° 🖈 19'18 14° 🖈 39'16 15° 🖈 59'17 23° 🖈 36'14	0°03'54	minimum elong  desc. node max. Earth dist.	4127 Nov 18 09:38 4127 Nov 20 15:39 4127 Nov 23 19:20 4127 Nov 25 07:05 4127 Dec 03 00:37	26°M12'52 0° Å 5° Å 12'45 7° Å 38'18 19° Å 54'19 0°중	0°37'41 1.43388 AU
superior conj minimum elong behind sun begin behind sun end	4126 Dec 07 12:05 4126 Dec 07 11:37 4126 Dec 07 01:44 4126 Dec 07 21:30 4126 Dec 12 15:43 4126 Dec 16 17:11	15°ズ21'10 15°ズ19'18 14°ズ39'16 15°ズ59'17 23°ズ36'14 0°る	0°03'54	minimum elong desc. node max. Earth dist. evening rise evening max el	4127 Nov 18 09:38 4127 Nov 20 15:39 4127 Nov 23 19:20 4127 Nov 25 07:05 4127 Dec 03 00:37 4127 Dec 09 14:51 4127 Dec 31 03:14	26°M12'52 0°\$\frac{1}{2}\$ 5°\$\frac{1}{2}'45 7°\$\frac{1}{2}'54'19 0°\$\frac{1}{2}\$ 0°\$\infty	0°37'41 1.43388 AU
superior conj minimum elong behind sun begin behind sun end max. Earth dist.	4126 Dec 07 12:05 4126 Dec 07 11:37 4126 Dec 07 01:44 4126 Dec 07 21:30 4126 Dec 12 15:43 4126 Dec 16 17:11 4126 Dec 23 13:39	15° \$\frac{7}{21'10} 15° \$\frac{7}{21'10} 15° \$\frac{7}{39'16} 15° \$\frac{7}{39'17} 23° \$\frac{7}{36'14} 0° \frac{7}{30'27}	0°03'54	minimum elong desc. node max. Earth dist. evening rise	4127 Nov 18 09:38 4127 Nov 20 15:39 4127 Nov 23 19:20 4127 Nov 25 07:05 4127 Dec 03 00:37 4127 Dec 09 14:51 4127 Dec 31 03:14 4128 Jan 02 20:56 4128 Jan 11 18:14	26° M 12'52 0° 🖈 5° 🖈 12'45 7° 🖈 38'18 19° 🖈 54'19 0° 云 0° ≈ 3° ≈ 00'10	0°37'41 1.43388 AU
superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise	4126 Dec 07 12:05 4126 Dec 07 11:37 4126 Dec 07 01:44 4126 Dec 07 21:30 4126 Dec 12 15:43 4126 Dec 16 17:11 4126 Dec 23 13:39 4127 Jan 05 08:49 4127 Jan 19 23:00	15° ₹21'10 15° ₹19'18 14° ₹39'16 15° ₹59'17 23° ₹36'14 0° ₹37'27 0° ≈	0°03'54 1.44643 AU	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node	4127 Nov 18 09:38 4127 Nov 20 15:39 4127 Nov 23 19:20 4127 Nov 25 07:05 4127 Dec 03 00:37 4127 Dec 09 14:51 4127 Dec 31 03:14 4128 Jan 02 20:56 4128 Jan 11 18:14 4128 Jan 13 19:40	26°M12'52 0° ₹ 5° ₹12'45 7° ₹38'18 19° ₹54'19 0° ₹ 0° ≈ 3° ≈ 00'10 8° ≈ 16'43	0°37'41 1.43388 AU
superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise	4126 Dec 07 12:05 4126 Dec 07 11:37 4126 Dec 07 01:44 4126 Dec 07 21:30 4126 Dec 12 15:43 4126 Dec 16 17:11 4126 Dec 23 13:39 4127 Jan 05 08:49	15° 水21'10 15° 水19'18 14° 水39'16 15° 水59'17 23° 水36'14 0° でる 10° でる37'27 0° ≈ 19° ≈26'13	0°03'54 1.44643 AU	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde	4127 Nov 18 09:38 4127 Nov 20 15:39 4127 Nov 23 19:20 4127 Nov 25 07:05 4127 Dec 03 00:37 4127 Dec 09 14:51 4127 Dec 31 03:14 4128 Jan 02 20:56 4128 Jan 11 18:14	26°M12'52 0°ズ 5°ズ12'45 7°ズ38'18 19°ズ54'19 0°云 0°≈ 3°≈00'10 8°≈16'43 7°≈53'44	0°37'41 1.43388 AU 21°28'51
superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node	4126 Dec 07 12:05 4126 Dec 07 11:37 4126 Dec 07 01:44 4126 Dec 07 21:30 4126 Dec 12 15:43 4126 Dec 16 17:11 4126 Dec 23 13:39 4127 Jan 05 08:49 4127 Jan 19 23:00 4127 Jan 26 22:39	15° 水21'10 15° 水19'18 14° 水39'16 15° 水59'17 23° 水36'14 0° で 10° で337'27 0° ≈ 19° ≈26'13 23° ≈59'56	0°03'54 1.44643 AU	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set	4127 Nov 18 09:38 4127 Nov 20 15:39 4127 Nov 23 19:20 4127 Nov 25 07:05 4127 Dec 03 00:37 4127 Dec 09 14:51 4127 Dec 31 03:14 4128 Jan 02 20:56 4128 Jan 11 18:14 4128 Jan 13 19:40 4128 Jan 16 00:04	26° M 12'52 0° ₹ 5° ₹ 12'45 7° ₹ 38'18 19° ₹ 54'19 0° ₹ 0° ≈ 3° ≈ 00'10 8° ≈ 16'43 7° ≈ 53'44 6° ≈ 36'46	0°37'41  1.43388 AU  21°28'51  2°19'39
superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde	4126 Dec 07 12:05 4126 Dec 07 11:37 4126 Dec 07 01:44 4126 Dec 07 21:30 4126 Dec 12 15:43 4126 Dec 16 17:11 4126 Dec 23 13:39 4127 Jan 05 08:49 4127 Jan 19 23:00 4127 Jan 26 22:39 4127 Jan 27 20:39	15° ズ21'10 15° ズ19'18 14° ズ39'16 15° ズ59'17 23° ズ36'14 0° で 10°でる37'27 0°≈ 19°≈26'13 23°≈59'56 24°≈04'31	0°03'54 1.44643 AU	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set inferior conj	4127 Nov 18 09:38 4127 Nov 20 15:39 4127 Nov 23 19:20 4127 Nov 25 07:05 4127 Dec 03 00:37 4127 Dec 09 14:51 4127 Dec 31 03:14 4128 Jan 02 20:56 4128 Jan 11 18:14 4128 Jan 13 19:40 4128 Jan 16 00:04 4128 Jan 21 08:19	26° M.12'52 0° ₹ 5° ₹ 12'45 7° ₹ 38'18 19° ₹ 54'19 0° ₹ 0° ≈ 3° ≈00'10 8° ≈16'43 7° ≈53'44 6° ≈36'46 0° ≈20'48	0°37'41  1.43388 AU  21°28'51  2°19'39
superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj	4126 Dec 07 12:05 4126 Dec 07 11:37 4126 Dec 07 01:44 4126 Dec 07 21:30 4126 Dec 12 15:43 4126 Dec 16 17:11 4126 Dec 23 13:39 4127 Jan 05 08:49 4127 Jan 19 23:00 4127 Jan 26 22:39 4127 Jan 27 20:39 4127 Jan 31 16:23	15° ズ21'10 15° ズ19'18 14° ズ39'16 15° ズ59'17 23° ズ36'14 0° 石 10° 石37'27 0° ≈ 19° ≈26'13 23° ≈59'56 24° ≈04'31 22° ≈39'48	0°03'54 1.44643 AU 20°19'01	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong	4127 Nov 18 09:38 4127 Nov 20 15:39 4127 Nov 23 19:20 4127 Nov 25 07:05 4127 Dec 03 00:37 4127 Dec 09 14:51 4127 Dec 31 03:14 4128 Jan 02 20:56 4128 Jan 11 18:14 4128 Jan 13 19:40 4128 Jan 16 00:04 4128 Jan 21 08:19 4128 Jan 21 05:53	26° M.12'52 0° ₹ 5° ₹ 12'45 7° ₹ 38'18 19° ₹ 54'19 0° ₹ 0° ≈ 3° ≈00'10 8° ≈16'43 7° ≈53'44 6° ≈36'46 0° ≈20'48 0° ≈29'14	0°37'41  1.43388 AU  21°28'51  2°19'39 2°18'53
superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set	4126 Dec 07 12:05 4126 Dec 07 11:37 4126 Dec 07 01:44 4126 Dec 07 21:30 4126 Dec 12 15:43 4126 Dec 16 17:11 4126 Dec 23 13:39 4127 Jan 05 08:49 4127 Jan 19 23:00 4127 Jan 26 22:39 4127 Jan 27 20:39 4127 Jan 31 16:23 4127 Feb 06 01:35	15° ズ21'10 15° ズ19'18 14° ズ39'16 15° ズ59'17 23° ズ36'14 0° で 10° で37'27 0° ≈ 19° ≈26'13 23° ≈59'56 24° ≈04'31 22° ≈39'48 16° ≈34'01	0°03'54  1.44643 AU  20°19'01  2°54'19	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong	4127 Nov 18 09:38 4127 Nov 20 15:39 4127 Nov 23 19:20 4127 Nov 25 07:05 4127 Dec 03 00:37 4127 Dec 09 14:51 4127 Dec 31 03:14 4128 Jan 02 20:56 4128 Jan 11 18:14 4128 Jan 13 19:40 4128 Jan 16 00:04 4128 Jan 21 08:19 4128 Jan 21 05:53 4128 Jan 21 13:41	26° M.12'52 0° ₹ 5° ₹ 12'45 7° ₹ 38'18 19° ₹ 54'19 0° ₹ 0° ≈ 3° ≈00'10 8° ≈16'43 7° ≈53'44 6° ≈36'46 0° ≈20'48 0° ≈20'48 0° ≈29'14 0° ≈02'13	0°37'41  1.43388 AU  21°28'51  2°19'39 2°18'53
superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	4126 Dec 07 12:05 4126 Dec 07 11:37 4126 Dec 07 01:44 4126 Dec 07 21:30 4126 Dec 12 15:43 4126 Dec 16 17:11 4126 Dec 23 13:39 4127 Jan 05 08:49 4127 Jan 19 23:00 4127 Jan 26 22:39 4127 Jan 27 20:39 4127 Jan 31 16:23 4127 Feb 06 01:35 4127 Feb 05 23:10	15° ズ21'10 15° ズ19'18 14° ズ39'16 15° ズ59'17 23° ズ36'14 0° で 10° で37'27 0° ≈ 19° ≈26'13 23° ≈59'56 24° ≈04'31 22° ≈39'48 16° ≈34'01 16° ≈42'10	0°03'54  1.44643 AU  20°19'01  2°54'19 2°53'44	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	4127 Nov 18 09:38 4127 Nov 20 15:39 4127 Nov 23 19:20 4127 Nov 25 07:05 4127 Dec 03 00:37 4127 Dec 09 14:51 4127 Dec 31 03:14 4128 Jan 02 20:56 4128 Jan 11 18:14 4128 Jan 13 19:40 4128 Jan 16 00:04 4128 Jan 21 08:19 4128 Jan 21 05:53 4128 Jan 21 13:41 4128 Jan 21 13:41	26° M.12'52 0° ₹ 5° ₹ 12'45 7° ₹ 38'18 19° ₹ 54'19 0° ₹ 0° ≈ 3° ≈00'10 8° ≈16'43 7° ≈53'44 6° ≈36'46 0° ≈20'48 0° ≈20'48 0° ≈29'14 0° ≈02'13 30° ₹ ₹	0°37'41  1.43388 AU  21°28'51  2°19'39 2°18'53
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superior conj minimum elong behind sun begin behind sun end max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.	4126 Dec 07 12:05 4126 Dec 07 11:37 4126 Dec 07 01:44 4126 Dec 07 21:30 4126 Dec 12 15:43 4126 Dec 16 17:11 4126 Dec 23 13:39 4127 Jan 05 08:49 4127 Jan 19 23:00 4127 Jan 26 22:39 4127 Jan 27 20:39 4127 Jan 31 16:23 4127 Feb 06 01:35 4127 Feb 06 19:18 4127 Feb 10 22:51 4127 Feb 10 22:51 4127 Feb 10 22:51 4127 Feb 12:51 4127 Feb 12:35 4127 Mar 12 23:33 4127 Apr 01 11:16 4127 Apr 05 10:59 4127 Apr 09 02:07	15° ₹21'10 15° ₹19'18 14° ₹39'16 15° ₹59'17 23° ₹36'14 0° ₹5 10° ₹37'27 0° ≈ 19° ≈26'13 23° ≈59'56 24° ≈04'31 22° ≈39'48 16° ≈34'01 16° ≈42'10 15° ≈33'51 10° ≈20'01 7° ≈47'02 14° ≈38'59 19° ≈34'36 0° ₹ 0° ₹ 0° ₹ 0° ₹ 13° ₹24'42	0°03'54  1.44643 AU  20°19'01  2°54'19 2°53'44 0.67339 AU  24°40'15  1.37317 AU -1°23'45	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.  morning rise direct morning max el desc. node morning set max. Earth dist.	4127 Nov 18 09:38 4127 Nov 20 15:39 4127 Nov 23 19:20 4127 Nov 25 07:05 4127 Dec 03 00:37 4127 Dec 09 14:51 4127 Dec 31 03:14 4128 Jan 02 20:56 4128 Jan 11 18:14 4128 Jan 13 19:40 4128 Jan 16 00:04 4128 Jan 21 08:19 4128 Jan 21 05:53 4128 Jan 21 13:41 4128 Jan 21 13:41 4128 Jan 21 13:41 4128 Jan 31 14:02 4128 Feb 10 19:24 4128 Feb 10 19:24 4128 Feb 19 18:36 4128 Mar 05 16:15 4128 Mar 20 21:03 4128 Mar 23 20:20	26°M12'52 0°ズ 5°ズ12'45 7°ズ38'18 19°ズ54'19 0°云 0°≈ 3°≈00'10 8°≈16'43 7°≈53'44 6°≈36'46 0°≈20'48 0°≈29'14 0°≈02'13 30°Rउ 24°उ08'31 21°उ55'38 27°उ59'57 0°≈ 8°≈37'10 0°米 17° ₩34'11 24° ₩46'59 0°°Υ	0°37'41  1.43388 AU  21°28'51  2°19'39 2°18'53 0.67872 AU  23°11'20  1.39486 AU  -1°47'52
superior conj minimum elong behind sun begin behind sun end max. Earth dist.  evening rise  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.	4126 Dec 07 12:05 4126 Dec 07 11:37 4126 Dec 07 01:44 4126 Dec 07 21:30 4126 Dec 12 15:43 4126 Dec 16 17:11 4126 Dec 23 13:39 4127 Jan 05 08:49 4127 Jan 19 23:00 4127 Jan 26 22:39 4127 Jan 27 20:39 4127 Jan 31 16:23 4127 Feb 06 01:35 4127 Feb 05 23:10 4127 Feb 06 19:18 4127 Feb 10 22:51 4127 Feb 10 22:51 4127 Feb 11 05:45 4127 Feb 12:51 4127 Feb 28 10:24 4127 Mar 04 21:35 4127 Apr 01 11:16 4127 Apr 05 10:59 4127 Apr 09 02:07	15° ₹21'10 15° ₹19'18 14° ₹39'16 15° ₹59'17 23° ₹36'14 0° ₹5 10° ₹37'27 0° ≈ 19° ≈26'13 23° ≈59'56 24° ≈04'31 22° ≈39'48 16° ≈34'01 16° ≈42'10 15° ≈33'51 10° ≈20'01 7° ≈47'02 14° ≈38'59 19° ≈34'36 0° ₹ 0° ₹ 0° ₹ 0° ₹ 26° ₹02'05	0°03'54  1.44643 AU  20°19'01  2°54'19 2°53'44 0.67339 AU  24°40'15  1.37317 AU -1°23'45	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.  morning rise direct morning max el desc. node morning set max. Earth dist.	4127 Nov 18 09:38 4127 Nov 20 15:39 4127 Nov 23 19:20 4127 Nov 25 07:05 4127 Dec 03 00:37 4127 Dec 09 14:51 4127 Dec 31 03:14 4128 Jan 02 20:56 4128 Jan 11 18:14 4128 Jan 13 19:40 4128 Jan 16 00:04 4128 Jan 21 08:19 4128 Jan 21 13:41 4128 Jan 21 13:41 4128 Jan 21 13:41 4128 Jan 21 14:19 4128 Jan 31 14:02 4128 Feb 10 19:24 4128 Feb 10 19:24 4128 Feb 10 19:24 4128 Feb 19 18:36 4128 Mar 05 16:15 4128 Mar 16 15:26 4128 Mar 20 21:03 4128 Mar 23 20:20	26°M12'52 0°ズ 5°ズ12'45 7°ズ38'18 19°ズ54'19 0°云 0°≈ 3°≈00'10 8°≈16'43 7°≈53'44 6°≈36'46 0°≈20'48 0°≈20'48 0°≈20'13 30°Rउ 24°उ08'31 21°उ55'38 27°उ59'57 0°≈ 8°≈37'10 0°ዢ 17° ₭34'11 24° ₭46'59 0°°Y	0°37'41  1.43388 AU  21°28'51  2°19'39 2°18'53 0.67872 AU  23°11'20  1.39486 AU  -1°47'52
superior conj minimum elong behind sun begin behind sun end max. Earth dist.  evening rise  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.	4126 Dec 07 12:05 4126 Dec 07 11:37 4126 Dec 07 01:44 4126 Dec 07 21:30 4126 Dec 12 15:43 4126 Dec 16 17:11 4126 Dec 23 13:39 4127 Jan 05 08:49 4127 Jan 19 23:00 4127 Jan 26 22:39 4127 Jan 27 20:39 4127 Jan 31 16:23 4127 Feb 06 01:35 4127 Feb 06 19:18 4127 Feb 06 19:18 4127 Feb 10 22:51 4127 Feb 10 22:51 4127 Feb 12:51 4127 Feb 28 10:24 4127 Mar 04 21:35 4127 Apr 05 10:59 4127 Apr 09 02:07 4127 Apr 15 18:41 4127 Apr 15 18:41 4127 Apr 15 23:02	15° ₹21'10 15° ₹19'18 14° ₹39'16 15° ₹59'17 23° ₹36'14 0° ₹5 10° ₹37'27 0° ≈ 19° ≈26'13 23° ≈59'56 24° ≈04'31 22° ≈39'48 16° ≈34'01 16° ≈42'10 15° ≈33'51 10° ≈20'01 7° ≈47'02 14° ≈38'59 19° ≈34'36 0° ₹ 0° ₹ 0° ₹ 0° ₹ 26° ₹23'14	0°03'54  1.44643 AU  20°19'01  2°54'19 2°53'44 0.67339 AU  24°40'15  1.37317 AU -1°23'45	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.  morning rise direct morning max el desc. node morning set max. Earth dist.	4127 Nov 18 09:38 4127 Nov 20 15:39 4127 Nov 23 19:20 4127 Nov 25 07:05 4127 Dec 03 00:37 4127 Dec 09 14:51 4127 Dec 31 03:14 4128 Jan 02 20:56 4128 Jan 11 18:14 4128 Jan 13 19:40 4128 Jan 16 00:04 4128 Jan 21 08:19 4128 Jan 21 13:41 4128 Jan 21 13:41 4128 Jan 21 13:41 4128 Jan 21 14:19 4128 Jan 31 14:02 4128 Feb 10 19:24 4128 Feb 10 19:24 4128 Feb 10 19:24 4128 Mar 05 16:15 4128 Mar 05 16:15 4128 Mar 20 21:03 4128 Mar 23 20:20 4128 Mar 28 13:00 4128 Mar 28 13:00	26°M12'52 0°ズ 5°ズ12'45 7°ズ38'18 19°ズ54'19 0°उ 0°≈ 3°≈00'10 8°≈16'43 7°≈53'44 6°≈36'46 0°≈20'48 0°≈20'13 30°Rउ 24°З08'31 21°З55'38 27°З59'57 0°≈ 8°≈37'10 0°Ҡ 17°Ҡ34'11 24°Ҡ46'59 0°℃	0°37'41  1.43388 AU  21°28'51  2°19'39 2°18'53 0.67872 AU  23°11'20  1.39486 AU  -1°47'52
superior conj minimum elong behind sun begin behind sun end max. Earth dist.  evening rise  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.  superior conj minimum elong	4126 Dec 07 12:05 4126 Dec 07 11:37 4126 Dec 07 01:44 4126 Dec 07 21:30 4126 Dec 12 15:43 4126 Dec 16 17:11 4126 Dec 23 13:39 4127 Jan 05 08:49 4127 Jan 19 23:00 4127 Jan 26 22:39 4127 Jan 27 20:39 4127 Jan 31 16:23 4127 Feb 06 01:35 4127 Feb 06 19:18 4127 Feb 10 22:51 4127 Feb 10 22:51 4127 Feb 11 05:45 4127 Feb 12:51 4127 Feb 28 10:24 4127 Mar 04 21:35 4127 Apr 01 11:16 4127 Apr 05 10:59 4127 Apr 09 02:07 4127 Apr 15 18:41 4127 Apr 15 23:02 4127 Apr 17 19:17	15° *721'10 15° *719'18 14° *739'16 15° *759'17 23° *736'14 0° *3 10° *337'27 0° *≈ 19° *≈26'13 23° *≈59'56 24° *≈04'31 22° *≈39'48 16° *≈34'01 16° *≈42'10 15° *≈33'51 10° *≈20'01 7° *≈47'02 14° *≈38'59 19° *≈34'36 0° *↑ 0° *↑ 6° *↑53'37 13° *↑24'42 26° *↑02'05 26° *↑23'14 0° *8	0°03'54  1.44643 AU  20°19'01  2°54'19 2°53'44 0.67339 AU  24°40'15  1.37317 AU -1°23'45	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.  morning rise direct morning max el desc. node morning set max. Earth dist.	4127 Nov 18 09:38 4127 Nov 20 15:39 4127 Nov 23 19:20 4127 Nov 25 07:05 4127 Dec 03 00:37 4127 Dec 09 14:51 4127 Dec 31 03:14 4128 Jan 02 20:56 4128 Jan 11 18:14 4128 Jan 13 19:40 4128 Jan 21 08:19 4128 Jan 21 05:53 4128 Jan 21 13:41 4128 Jan 21 13:41 4128 Jan 21 13:41 4128 Jan 21 14:19 4128 Jan 21 14:19 4128 Jan 21 15:14 4128 Jan 21 15:44 4128 Jan 21 15:44 4128 Jan 21 15:44 4128 Jan 21 15:44 4128 Jan 21 16:54 4128 Jan 21 16:54 4128 Jan 21 16:54 4128 Mar 05 16:15 4128 Mar 20 21:03 4128 Mar 20 21:03 4128 Mar 28 13:00 4128 Mar 28 17:43 4128 Mar 27 01:20	26°M12'52 0°ズ 5°ズ12'45 7°ズ38'18 19°ズ54'19 0°云 0°≈ 3°≈00'10 8°≈16'43 7°≈53'44 6°≈36'46 0°≈20'48 0°≈20'13 30°Rउ 24°З08'31 21°З55'38 27°З59'57 0°≈ 8°≈37'10 0°Ж 17°Ж34'11 24°Ж46'59 0°Y 8°Y30'50 8°Y52'41 26°Y35'13	0°37'41  1.43388 AU  21°28'51  2°19'39 2°18'53 0.67872 AU  23°11'20  1.39486 AU  -1°47'52
superior conj minimum elong behind sun begin behind sun end max. Earth dist.  evening rise  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.  superior conj minimum elong	4126 Dec 07 12:05 4126 Dec 07 11:37 4126 Dec 07 01:44 4126 Dec 07 21:30 4126 Dec 12 15:43 4126 Dec 16 17:11 4126 Dec 23 13:39 4127 Jan 05 08:49 4127 Jan 19 23:00 4127 Jan 26 22:39 4127 Jan 27 20:39 4127 Jan 31 16:23 4127 Feb 06 01:35 4127 Feb 06 19:18 4127 Feb 10 22:51 4127 Feb 11 05:45 4127 Feb 16 22:51 4127 Feb 28 10:24 4127 Mar 04 21:35 4127 Apr 01 11:16 4127 Apr 05 10:59 4127 Apr 09 02:07 4127 Apr 15 18:41 4127 Apr 15 23:02 4127 Apr 17 19:17 4127 Apr 24 07:55	15° *721'10 15° *719'18 14° *739'16 15° *759'17 23° *736'14 0° *3 10° *337'27 0° *≈ 19° *≈26'13 23° *≈59'56 24° *≈04'31 22° *≈39'48 16° *≈34'01 16° *≈42'10 15° *≈33'51 10° *≈20'01 7° *≈47'02 14° *≈38'59 19° *≈34'36 0° *↑ 0° *↑ 6° *↑53'37 13° *↑24'42 26° *↑02'05 26° *↑23'14 0° *8 13° *801'00	0°03'54  1.44643 AU  20°19'01  2°54'19 2°53'44 0.67339 AU  24°40'15  1.37317 AU -1°23'45	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.  morning rise direct morning max el desc. node morning set max. Earth dist.	4127 Nov 18 09:38 4127 Nov 20 15:39 4127 Nov 23 19:20 4127 Nov 25 07:05 4127 Dec 03 00:37 4127 Dec 09 14:51 4127 Dec 31 03:14 4128 Jan 02 20:56 4128 Jan 11 18:14 4128 Jan 13 19:40 4128 Jan 21 08:19 4128 Jan 21 05:53 4128 Jan 21 13:41 4128 Jan 21 13:41 4128 Jan 21 13:41 4128 Jan 21 14:19 4128 Jan 21 14:19 4128 Jan 31 14:02 4128 Feb 10 19:24 4128 Feb 10 19:24 4128 Feb 12 16:54 4128 Feb 19 18:36 4128 Mar 05 16:15 4128 Mar 16 15:26 4128 Mar 20 21:03 4128 Mar 28 17:43 4128 Apr 07 01:20 4128 Apr 08 20:05	26°M12'52 0°ズ 5°ズ12'45 7°ズ38'18 19°ズ54'19 0°云 0°≈ 3°≈00'10 8°≈16'43 7°≈53'44 6°≈36'46 0°≈20'48 0°≈20'13 30°Rउ 24°उ08'31 21°उ55'38 27°उ59'57 0°≈ 8°≈37'10 0°升 17° 升34'11 24°升46'59 0°Υ 8° Υ30'50 8° Υ52'41 26° Υ35'13 0°႘	0°37'41  1.43388 AU  21°28'51  2°19'39 2°18'53 0.67872 AU  23°11'20  1.39486 AU  -1°47'52 1°47'25
superior conj minimum elong behind sun begin behind sun end max. Earth dist.  evening rise  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.  superior conj minimum elong	4126 Dec 07 12:05 4126 Dec 07 11:37 4126 Dec 07 01:44 4126 Dec 07 21:30 4126 Dec 12 15:43 4126 Dec 16 17:11 4126 Dec 23 13:39 4127 Jan 05 08:49 4127 Jan 19 23:00 4127 Jan 26 22:39 4127 Jan 27 20:39 4127 Jan 31 16:23 4127 Feb 06 01:35 4127 Feb 06 19:18 4127 Feb 10 22:51 4127 Feb 11 05:45 4127 Feb 16 22:51 4127 Feb 28 10:24 4127 Mar 04 21:35 4127 Apr 01 11:16 4127 Apr 05 10:59 4127 Apr 15 18:41 4127 Apr 15 18:41 4127 Apr 15 13:02 4127 Apr 17 19:17 4127 Apr 24 07:55 4127 Apr 24 07:55 4127 Apr 24 21:56	15° *721'10 15° *719'18 14° *739'16 15° *759'17 23° *736'14 0° *3 10° *337'27 0° ※ 19° ※26'13 23° ※59'56 24° ※04'31 22° ※39'48 16° ※33'51 10° ※20'01 7° ※47'02 14° ※38'59 19° ※34'36 0° *H 0° *Y 6° *Y 53'37 13° *Y 24'42 26° *Y 02'05 26° *Y 23'14 0° *B 13° *B 01'00 14° *B 10'47	0°03'54  1.44643 AU  20°19'01  2°54'19 2°53'44 0.67339 AU  24°40'15  1.37317 AU -1°23'45 1°23'06	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.  morning rise direct morning max el desc. node  morning set max. Earth dist.	4127 Nov 18 09:38 4127 Nov 20 15:39 4127 Nov 23 19:20 4127 Dec 03 00:37 4127 Dec 09 14:51 4127 Dec 31 03:14 4128 Jan 02 20:56 4128 Jan 11 18:14 4128 Jan 13 19:40 4128 Jan 21 08:19 4128 Jan 21 05:53 4128 Jan 21 13:41 4128 Jan 21 13:41 4128 Jan 21 13:41 4128 Jan 21 13:41 4128 Jan 21 14:19 4128 Jan 21 14:19 4128 Jan 21 15:53 4128 Jan 21 15:44 4128 Jan 21 15:53 4128 Jan 21 15:44 4128 Jan 21 15:53 4128 Jan 21 15:54 4128 Jan 21 15:56	26°M12'52 0°ズ 5°ズ12'45 7°ズ38'18 19°ズ54'19 0°云 0°≈ 3°≈00'10 8°≈16'43 7°≈53'44 6°≈36'46 0°≈20'48 0°≈29'14 0°≈02'13 30°Rउ 24°उ08'31 21°उ55'38 27°उ59'57 0°≈ 8°≈37'10 0°升 17°升34'11 24°升46'59 0°Υ 8°Υ30'50 8°Υ52'41 26°Υ35'13 0°엉 3°엉41'42	0°37'41  1.43388 AU  21°28'51  2°19'39 2°18'53 0.67872 AU  23°11'20  1.39486 AU  -1°47'52 1°47'25

		4.4					
evening set	4128 May 03 07:26	26° <b>8</b> 12'46		evening set	4129 Apr 16 01:31	8° <b>8</b> 30'52	
inferior conj	4128 May 10 23:06	21° <b>8</b> 45'55		inferior conj	4129 Apr 22 23:16	3° <b>8</b> 43'05	
minimum elong	4128 May 11 02:34	21° <b>8</b> 39'13	1°50'37	minimum elong	4129 Apr 23 02:33	3° <b>8</b> 35'40	2°52'33
min. Earth dist.	4128 May 14 08:16	19° <b>8</b> 10'36	0.57841 AU	min. Earth dist.	4129 Apr 26 07:55	0° <b>8</b> 42'56	0.59970 AU
desc. node	4128 May 17 17:49	16° <b>8</b> 57'59			4129 Apr 27 04:35	30° <b>ŖƳ</b>	
morning rise	4128 May 18 18:30	16° <b>8</b> 26'13		morning rise	4129 Apr 30 01:10	27° <b>Ƴ</b> 57'41	
direct	4128 May 24 13:25	15° <b>8</b> 01'47		desc. node	4129 May 04 14:50	26° <b>Ƴ</b> 08'47	
morning max el	4128 Jun 07 22:22	22° <b>8</b> 38'48	26°39'31	direct	4129 May 06 13:16	25° <b>Ƴ</b> 58'18	
	4128 Jun 14 11:05	$\Pi^{\circ}0$			4129 May 16 12:01	0° <b>႘</b>	
	4128 Jul 02 22:10	0°€		morning max el	4129 May 20 21:15	3° <b>8</b> 49'59	27°34'18
morning set	4128 Jul 07 07:32	8° <b>5</b> 57'31			4129 Jun 09 02:54	$\Pi^{\circ}0$	
asc. node	4128 Jul 07 18:13	9°\$53'56		morning set	4129 Jun 21 14:50	23° <b>Ⅲ</b> 34'34	
				asc. node	4129 Jun 24 15:17	29° <b>Ⅲ</b> 58′02	
superior conj	4128 Jul 14 07:32	24° <b>©</b> 10'29	1°03'59		4129 Jun 24 15:39	0° <b>©</b>	
minimum elong	4128 Jul 14 05:17	23° <b>©</b> 58'02	1°03'35	max. Earth dist.	4129 Jun 28 00:03	7° <b>©</b> 17'54	1.32038 AU
max. Earth dist.	4128 Jul 14 12:22		1.32094 AU				
	4128 Jul 16 23:03	0° <b>N</b>		superior conj	4129 Jun 28 19:07	9° <b>5</b> 02'50	0°42'27
evening rise	4128 Jul 21 04:49	9° <b>Ω</b> 07'18		minimum elong	4129 Jun 28 17:21	8°953'12	0°42'05
e vennig rise	4128 Aug 01 00:52	0° m)		evening rise	4129 Jul 05 14:43	23°955'09	0 12 03
desc. node	4128 Aug 13 17:05	19° <b>m</b> )00'40		evening rise	4129 Jul 08 12:45	0°Ω	
evening max el	4128 Aug 20 12:05	26° Mp 31'27	26°49'38		4129 Jul 26 08:48	0°m)	
evening max ci	=	0° <b>⊡</b>	20 49 38	desc. node	4129 Jul 31 14:07	6°Mp08'14	
ratra ara da	4128 Aug 24 16:04					~	25°44'31
retrograde	4128 Sep 03 10:06	3° <b>Ω</b> 42'02		evening max el	4129 Aug 02 08:41	7° Mp 54'41	25-44-31
evening set	4128 Sep 10 07:59	1° <b>≏</b> 38'46		retrograde	4129 Aug 16 07:51	15° Mp 01'28	
	4128 Sep 12 19:29	30°R, Mp	0.60444.477	evening set	4129 Aug 22 10:41	13° <b>m</b> 33'08	0.50205.444
min. Earth dist.	4128 Sep 14 02:11	29° Mp 01'08	0.60444 AU	min. Earth dist.	4129 Aug 26 20:47	10° m 55'59	0.58387 AU
inferior conj	4128 Sep 17 07:26	26° Tp 21'46		inferior conj	4129 Aug 30 01:34	8° m 38'40	
minimum elong	4128 Sep 17 13:06	26° Mp 10'01	4°31'11	minimum elong	4129 Aug 30 04:26	~	5°05'42
morning rise	4128 Sep 24 20:08	21° <b>m</b> 37'04		morning rise	4129 Sep 07 00:26	4°M)17'16	
direct	4128 Sep 27 04:43	21°Mp15'45		direct	4129 Sep 09 11:46	3° Mp 57'46	
asc. node	4128 Oct 03 17:27	24° Mp 07'25		morning max el	4129 Sep 17 19:44	7° Mp 56'09	18°42'15
morning max el	4128 Oct 04 13:43	24° Mp 54'01	18°06'24	asc. node	4129 Sep 20 14:30	10° <b>m</b> 59'29	
	4128 Oct 08 19:27	0∘ <b>⊽</b>			4129 Oct 02 01:35	0∘ <b>⊽</b>	
morning set	4128 Oct 20 08:42	19° <b>≙</b> 55′20		morning set	4129 Oct 04 03:32	4° <b>≏</b> 01'47	
	4128 Oct 25 18:34	0°M					
				superior conj	4129 Oct 12 19:18	20° <b>≏</b> 45′23	1°30'39
superior conj	4128 Oct 30 02:15	7° <b>M</b> 50'56	1°09'55	minimum elong	4129 Oct 12 22:19	20° <b>≏</b> 59'39	1°30'23
minimum elong	4128 Oct 30 06:21	8°M09'15	1°09'25		4129 Oct 17 19:42	0° <b>M</b>	
max. Earth dist.	4128 Nov 06 17:51	21°M06'40	1.41630 AU	max. Earth dist.	4129 Oct 19 23:56	3°M52'25	1.39587 AU
desc. node	4128 Nov 09 16:22	25° <b>™</b> 59'17		evening rise	4129 Oct 24 00:39	10° <b>M</b> ₊49'36	
evening rise	4128 Nov 12 01:28	29°M51'21		desc. node	4129 Oct 27 13:24	16° <b>M</b> ₊41'49	
	4128 Nov 12 03:37	0° <b>∡</b> ¹			4129 Nov 05 00:40	0° <b>∡</b> 7	
	4128 Dec 02 04:12	8°0			4129 Nov 27 21:45	0°ರ	
evening max el	4128 Dec 15 13:57	16° <b>る</b> 35'53	22°46'33	evening max el	4129 Nov 28 03:37	0°る14'42	24°06'23
retrograde	4128 Dec 25 13:39	22° <b>る</b> 31'36		retrograde	4129 Dec 09 05:45	6° <b>ප්</b> 45'36	
evening set	4128 Dec 30 07:19	20° <b>る</b> 35'30		evening set	4129 Dec 14 12:33	4° <b>る</b> 33'28	
asc. node	4128 Dec 30 16:43	20° <b>ට</b> 15'11		asc. node	4129 Dec 17 13:45	1° <b>る</b> 18'11	
inferior conj	4129 Jan 04 16:11	14° <b>る</b> 12'48	1°37'21		4129 Dec 18 14:02	30°R. <b>✓</b>	
minimum elong	4129 Jan 04 14:11	14° <b>る</b> 19'43	1°36'37	inferior conj	4129 Dec 19 23:24	28° <b>₹</b> 07'55	0°48'34
min. Earth dist.	4129 Jan 04 10:11	14° <b>る</b> 33'34	0.68023 AU	minimum elong	4129 Dec 19 22:16	28° 🖍 '07' 22	0°48'07
morning rise	4129 Jan 09 20:57	8° <b>る</b> 03'56	0.00023710	min. Earth dist.	4129 Dec 19 06:32	29°×704'54	0.67814 AU
direct	4129 Jan 14 08:49	6° <b>ප</b> 13'56		morning rise	4129 Dec 15 08:32 4129 Dec 25 08:02	22° <b>×</b> <sup>7</sup> 04'18	0.07614 AC
morning max el	4129 Jan 23 08:23	11° <b>る</b> 28'49	21044'53	direct	4129 Dec 29 06:10	20° × 36'53	
desc. node		28° <b>ප</b> 14'08	21 44 33		4130 Jan 06 04:28	25° × 30 33	20°27'44
desc. node	4129 Feb 05 15:38	28 O1408 0°≈		morning max el		23 <b>x</b> ·0910	20 27 44
	4129 Feb 06 21:27			4 4.	4130 Jan 10 11:06		
morning set	4129 Feb 24 15:06	26°≈52'25		desc. node	4130 Jan 23 12:39	18° <b>る</b> 16'02	
e a e	4129 Feb 26 13:49	0° <b>∀</b>	1 41 61 5 4 7 7		4130 Jan 31 07:06	0° <b>≈</b>	
max. Earth dist.	4129 Mar 02 20:25	/° <b>大</b> 00'16	1.41617 AU	morning set	4130 Feb 03 15:34	5°≈09'58	
	410035 10 11 5	2001/02:::	200.4100	max. Earth dist.	4130 Feb 13 03:15	20° <b>≈</b> 08′29	1.43419 AU
superior conj	4129 Mar 10 11:53	20° <b>)</b> (02'41				003/-	
minimum elong	4129 Mar 10 14:51	20° <b>)</b> 15′42	2°03'54	superior conj	4130 Feb 19 10:29	0° <b>)</b> €27'00	
	4129 Mar 16 01:51	0° <b>Υ</b>		minimum elong	4130 Feb 19 08:41	0° <b>)</b> 19'30	2°06'56
evening rise	4129 Mar 21 06:43	9° <b>Ƴ</b> 31'33			4130 Feb 19 03:59	0° <b>∀</b>	
asc. node	4129 Mar 28 16:01	22° <b>Y</b> 50'14		evening rise	4130 Mar 03 19:51	21° <b>¥</b> 41′00	
	4129 Apr 02 03:46	$9^{\circ}$ 8			4130 Mar 08 13:58	$0^{\circ}$ Y	
evening max el	4129 Apr 06 15:08	5° <b>8</b> 29'42	18°11'38	asc. node	4130 Mar 15 13:04	11° <b>Y</b> ′29'01	
retrograde	4129 Apr 13 12:45	8° <b>8</b> 58'15		evening max el	4130 Mar 21 03:19	18° <b>Ƴ</b> 38'38	18°07'33

minimum elong	4132 Jan 09 02:46	17° <b>る</b> 46'00	1°16'21	max. Earth dist.	4132 Dec 22 05:56	2° <b>る</b> 42'33	1.45078 AU
max. Earth dist.	4132 Jan 09 10:20	18° <b>る</b> 15'42	1.45245 AU	evening rise	4133 Jan 04 01:54	22° <b>る</b> 42'09	
	4132 Jan 16 21:36	0° <b>≈</b>			4133 Jan 08 19:23	0° <b>≈</b>	
evening rise	4132 Jan 25 05:33	13° <b>≈</b> 12'12		greatest brilliancy	4133 Jan 17 10:35	13° <b>≈</b> 08′19	-0.7m
greatest brilliancy	4132 Feb 02 18:31	26° <b>≈</b> 48′02	-0.8m	evening max el	4133 Jan 29 08:50	29° <b>≈</b> 00'29	19°44'13
	4132 Feb 04 19:28	0° <b>∀</b>			4133 Jan 30 09:07	0° <b>∀</b>	
evening max el	4132 Feb 16 02:27	15° <b>∺</b> 29'02	18°55'06	asc. node	4133 Feb 03 04:09	2° <b>)</b> 41′35	
asc. node	4132 Feb 17 07:09	16° <b>∺</b> 37'35		retrograde	4133 Feb 05 18:48	3° <b>¥</b> 18′08	
retrograde	4132 Feb 22 21:25	19° <b>)</b> 17′56		evening set	4133 Feb 09 09:36	2° <b>)</b> €01'34	
evening set	4132 Feb 26 04:35	18° <b>∺</b> 15′09			4133 Feb 11 15:34	30°R <b>≈</b>	
inferior conj	4132 Mar 02 19:21	12° <b>)</b> (31'41	3°29'43	inferior conj	4133 Feb 14 20:12	26°≈03'09	3°10'14
minimum elong	4132 Mar 02 18:01	12° <b>)</b> ₹35'50	3°29'35	minimum elong	4133 Feb 14 18:02	26°≈10'19	3°09'50
min. Earth dist.	4132 Mar 04 11:29	10° <b>¥</b> 26′22	0.65678 AU	min. Earth dist.	4133 Feb 15 21:37	24°≈38'52	0.66858 AU
morning rise	4132 Mar 08 07:04	6° <b>)</b> 18'48		morning rise	4133 Feb 20 02:14	19°≈49'14	
direct desc. node	4132 Mar 14 19:57 4132 Mar 25 05:55	3° <b>∺</b> 28'16 8° <b>∺</b> 41'14		direct	4133 Feb 26 03:19 4133 Mar 10 06:09	17°≈07'24 24°≈21'06	25°28'54
morning max el	4132 Mar 27 21:01		26°42'17	morning max el desc. node	4133 Mar 12 02:57	24 ≈21 00 26°≈18'51	23 28 34
morning max er	4132 Mai 27 21:01 4132 Apr 11 20:15	0° <b>Υ</b>	20 42 17	desc. Hode	4133 Mar 15 08:04	20 <b>≈</b> 1831	
	4132 Apr 30 02:14	0°8			4133 Mai 13 08:04 4133 Apr 05 06:40	0°Υ	
morning set	4132 May 02 19:12	5° <b>8</b> 03'40		morning set	4133 Apr 15 11:29	17° <b>Y</b> ′31'48	
max. Earth dist.	4132 May 07 00:56	_	1.34457 AU	max. Earth dist.	4133 Apr 19 04:41	24° <b>Υ</b> 24'40	1.36169 AU
max. Dartii dist.	1132 May 07 00.30	13 010 17	1.5 1 15 / 110	max. Earth dist.	4133 Apr 22 02:41	0°8	1.5010) 110
superior conj	4132 May 11 10:47	22° <b>8</b> 17'13	-0°38'49		.133 11p1 22 02.11	Ů <b>O</b>	
minimum elong	4132 May 11 12:51	22° <b>8</b> 27'55		superior conj	4133 Apr 25 02:08	5° <b>8</b> 51'52	-1°07'51
asc. node	4132 May 15 06:25	0° <b>Ⅱ</b> 16'27		minimum elong	4133 Apr 25 05:46	6° <b>8</b> 09'59	1°07'13
	4132 May 15 03:18	$\Pi^{\circ}$		asc. node	4133 May 02 03:27	20° <b>8</b> 10'41	
evening rise	4132 May 18 23:29	8° <b>Ⅲ</b> 03′22		evening rise	4133 May 03 04:53	22° <b>8</b> 20'01	
C	4132 May 30 18:35	0°ಅ		Č	4133 May 07 01:16	0°II	
evening max el	4132 Jun 07 09:29	9°538'25	21°08'08	evening max el	4133 May 20 18:28	20° <b>∏</b> 55′02	19°53'09
retrograde	4132 Jun 19 05:55	15° <b>5</b> 27'23		retrograde	4133 May 30 21:40	25° <b>Ⅱ</b> 51'18	
evening set	4132 Jun 21 11:42	15° <b>©</b> 15'41		evening set	4133 Jun 01 20:27	25° <b>Ⅱ</b> 41′08	
desc. node	4132 Jun 21 05:09	15° <b>©</b> 18'19		desc. node	4133 Jun 08 02:11	23° <b>Ⅱ</b> 15′07	
inferior conj	4132 Jun 30 20:27	11° <b>©</b> 17'43	-2°46'33	inferior conj	4133 Jun 10 18:29	21° <b>Ⅱ</b> 40′09	-0°47'42
minimum elong	4132 Jun 30 13:00	11° <b>5</b> 28'11	2°44'04	minimum elong	4133 Jun 10 16:16	21° <b>Ⅱ</b> 43'31	0°46'54
min. Earth dist.	4132 Jul 01 07:23	11° <b>5</b> 02'20	0.54828 AU	min. Earth dist.	4133 Jun 12 20:05	20° <b>Ⅱ</b> 24'38	0.55360 AU
morning rise	4132 Jul 09 14:33	7° <b>5</b> 19'18		morning rise	4133 Jun 19 10:07	17° <b>Ⅱ</b> 15′13	
direct	4132 Jul 13 02:43	6°952'45		direct	4133 Jun 23 16:39	16° <b>∏</b> 35′11	
morning max el	4132 Jul 25 21:28	12° <b>©</b> 57'49	22°34'22	morning max el	4133 Jul 07 12:11	23° <b>∏</b> 25'27	24°17'49
	4132 Aug 07 15:50	0°N			4133 Jul 13 10:16	0.22	
asc. node	4132 Aug 11 05:38	6° <b>Ω</b> 27'50		asc. node	4133 Jul 29 02:40	25°\$58'28	
morning set	4132 Aug 17 00:07	18° <b>Ω</b> 03'35		. ,	4133 Jul 31 01:56	0°N	
	4132 Aug 22 14:34	0° <b>m</b>		morning set	4133 Aug 01 11:51	2° <b>Ω</b> 57'45	
superior conj	4132 Aug 24 02:53	3° <b>m</b> 13'29	1°30'40	superior conj	4133 Aug 08 11:03	18° <b>Ω</b> 01'55	1°29'43
minimum elong	4132 Aug 24 02:33 4132 Aug 24 01:30	3°M)06'08	1°39'45	minimum elong	4133 Aug 08 11:03 4133 Aug 08 08:57	17° <b>Ω</b> 50'30	1°29'29
max. Earth dist.	4132 Aug 27 06:30	9° m 50'34	1.34115 AU	max. Earth dist.	4133 Aug 10 08:39	22°Ω08'25	1.33001 AU
evening rise	4132 Sep 01 00:05	19° Mp 23'26	1.54115710	max. Earth dist.	4133 Aug 14 01:52	0° m)	1.55001 710
e vennig rise	4132 Sep 06 15:17	0∘ <b>ಹ</b>		evening rise	4133 Aug 15 19:11	3° mp 31'58	
desc. node	4132 Sep 17 04:28	17° <b>≏</b> 36'22		8	4133 Aug 30 09:28	0∘ <u>v</u>	
	4132 Sep 25 21:58	0° <b>M</b>		desc. node	4133 Sep 04 01:29	7° <b>≏</b> 07'26	
evening max el	4132 Oct 05 17:08	11° <b>M</b> J10'47	27°09'05	evening max el	4133 Sep 18 04:16	24° <b>≏</b> 21'45	27°26'40
retrograde	4132 Oct 19 01:15	18°ML28'14			4133 Sep 25 17:47	$0^{\circ}$ M	
evening set	4132 Oct 25 22:18	15°ML47'05		retrograde	4133 Oct 01 19:52	1°M38'16	
min. Earth dist.	4132 Oct 29 19:22	12°ML03'48	0.65100 AU		4133 Oct 07 12:17	30°Ŗ <b>Ω</b>	
inferior conj	4132 Oct 31 22:21	9°M41'33	-2°05'30	evening set	4133 Oct 08 23:48	29° <b>ჲ</b> 02'02	
minimum elong	4132 Nov 01 01:53	9°M31'38	2°04'06	min. Earth dist.	4133 Oct 12 15:52	25° <b>≙</b> 51'37	0.63508 AU
morning rise	4132 Nov 07 06:28	4° <b>M</b> 08'11		inferior conj	4133 Oct 15 07:01	23° <b>≙</b> 12'46	
asc. node	4132 Nov 07 04:51	4° <b>™</b> 10′06		minimum elong	4133 Oct 15 12:12	22° <b>≏</b> 59'42	3°05'06
direct	4132 Nov 09 22:40	3°M30'00		morning rise	4133 Oct 22 02:00	17° <b>≏</b> 55'58	
morning max el	4132 Nov 16 10:17	6°M57'57	18°04'45	direct	4133 Oct 24 12:58	17° <b>≏</b> 26'47	
	4132 Dec 02 01:27	0°⊀		asc. node	4133 Oct 25 01:53	17° <b>≏</b> 28′13	
morning set	4132 Dec 04 11:20	3° <b>∡</b> 759'37		morning max el	4133 Oct 31 02:58	20° <b>♀</b> 51'57	17°50'49
desc. node	4132 Dec 14 03:44	19° <b>∡</b> 749'40		_	4133 Nov 07 00:29	0°M	
	4100 B 40 10 0	270 71000	0021112	morning set	4133 Nov 16 14:48	16°M13'55	
superior conj	4132 Dec 18 18:00	27° ₹ 10'40			4133 Nov 24 15:22	0° <b>∡</b> 7	
minimum elong	4132 Dec 18 14:06	26° <b>₹</b> 55'12	0~30′40	aumoni '	4122 N 20 20 52	70.702104	0015100
	4132 Dec 20 12:44	0°8		superior conj	4133 Nov 28 20:52	7° <b>∡</b> 03'04	0.12.00

		_					
minimum elong	4133 Nov 28 22:27	7° <b>₹</b> 09'34	0°14'47	superior conj	4134 Nov 10 02:28	18°M13'45	
behind sun begin	4133 Nov 28 18:34	6° <b>≯</b> 53'36		minimum elong	4134 Nov 10 06:28	18°M31'02	0°52'27
behind sun end	4133 Nov 29 02:19	7° <b>∡</b> ¹25'31			4134 Nov 17 01:36	0° <b>⊼</b>	
desc. node	4133 Dec 01 00:45	10° <b>∡</b> ³35'40		max. Earth dist.	4134 Nov 17 13:22	0° <b>≯</b> ¹48'26	1.42692 AU
max. Earth dist.	4133 Dec 04 23:58	16° <b>∡</b> ¹59'47	1.44189 AU	desc. node	4134 Nov 17 21:48	1° <b>∡</b> ¹22'59	
	4133 Dec 13 06:36	ರ°0		evening rise	4134 Nov 24 02:57	11° <b>×</b> 121'49	
evening rise	4133 Dec 14 11:44	1° <b>る</b> 52'24			4134 Dec 06 09:05	0°ರ	
	4134 Jan 02 10:08	0° <b>≈</b>		evening max el	4134 Dec 26 05:26	26° <b>පි</b> 06'40	22°01'12
evening max el	4134 Jan 12 09:52	12° <b>≈</b> 33'00	20°47'25		4134 Dec 30 19:12	0° <b>≈</b>	
retrograde	4134 Jan 20 16:57	17° <b>≈</b> 27'02		retrograde	4135 Jan 04 13:55	1° <b>≈</b> 40'39	
asc. node	4134 Jan 21 01:10	17° <b>≈</b> 26'24		asc. node	4135 Jan 07 22:12	0° <b>≈</b> 40'43	
evening set	4134 Jan 24 16:51	15° <b>≈</b> 55'44			4135 Jan 08 21:28	30°Ŗる	
inferior conj	4134 Jan 30 01:25	9° <b>≈</b> 45'03	2°40'35	evening set	4135 Jan 09 00:34	29° <b>ප</b> 53'47	
minimum elong	4134 Jan 29 22:57	9° <b>≈</b> 53'32	2°39'55	inferior conj	4135 Jan 14 08:53	23° <b>ට</b> 34'12	2°02'33
min. Earth dist.	4134 Jan 30 13:38	9° <b>≈</b> 03'05	0.67616 AU	minimum elong	4135 Jan 14 06:35		2°01'47
morning rise	4134 Feb 04 04:52	3°≈31'45	0.07010110	min. Earth dist.	4135 Jan 14 09:16	23° <b>ප</b> 32'53	0.67979 AU
direct	4134 Feb 09 15:46	1°≈07'03		morning rise	4135 Jan 19 12:26	17° <b>පි</b> 23'03	0.01717110
morning max el	4134 Feb 20 14:47	7°≈39'17	24°02'44	direct	4135 Jan 24 08:32	17 <b>3</b> 23 03	
desc. node	4134 Feb 26 24:00	7 ≈3917 14°≈55'19	24 02 44		4135 Feb 03 01:10	13 <b>3</b> 1939 21° <b>3</b> 03'26	22022145
desc. node		0° <b>\</b>		morning max el		21 <b>3</b> 03 20 0° <b>≈</b>	22 33 43
	4134 Mar 10 01:41			1 1	4135 Feb 10 16:36		
morning set	4134 Mar 28 06:49	28° <b>)</b> 56'17		desc. node	4135 Feb 13 21:02	4°≈13'40	
	4134 Mar 28 21:34	0° <b>Υ</b>			4135 Mar 03 08:15	0° <b>∀</b>	
max. Earth dist.	4134 Apr 01 01:01	5° <b>Ƴ</b> 32'03	1.38223 AU	morning set	4135 Mar 08 23:13	9° <b>)</b> €01'44	
				max. Earth dist.	4135 Mar 13 20:56	17° <b>)</b> 12'44	1.40408 AU
superior conj	4134 Apr 08 05:21	18° <b>Ƴ</b> 47'29			4135 Mar 21 04:18	$0$ ° $\mathbf{\Upsilon}$	
minimum elong	4134 Apr 08 10:03	19° <b>Ƴ</b> 09'49	1°34'04				
	4134 Apr 13 23:59	$9^{\circ}$ 8		superior conj	4135 Mar 21 15:59	0° <b>Ƴ</b> 52'42	
evening rise	4134 Apr 17 03:36	6° <b>8</b> 12'16		minimum elong	4135 Mar 21 20:18	1° <b>Υ</b> 12'14	1°55'41
asc. node	4134 Apr 19 00:29	9° <b>8</b> 51'42		evening rise	4135 Mar 31 16:24	19° <b>Ƴ</b> 31′06	
	4134 May 01 00:48	$\Pi^{\circ}0$		asc. node	4135 Apr 05 21:32	29° <b>Ƴ</b> 13'34	
evening max el	4134 May 03 15:05	2° <b>Ⅱ</b> 52'51	18°57'52		4135 Apr 06 07:50	0°8	
retrograde	4134 May 12 04:01	7° <b>Ⅲ</b> 03′13		evening max el	4135 Apr 16 20:25	15° <b>8</b> 25'03	18°22'48
evening set	4134 May 14 06:15	6° <b>Ⅱ</b> 49'11		retrograde	4135 Apr 24 05:03	19° <b>8</b> 04'05	
inferior conj	4134 May 22 09:21	2° <b>Ⅲ</b> 33'21	1°01'30	evening set	4135 Apr 26 13:56	18° <b>8</b> 42'23	
minimum elong	4134 May 22 11:41	2° <b>Ⅱ</b> 29'14	1°00'42	inferior conj	4135 May 03 21:34	14° <b>8</b> 06'55	2°21'38
min. Earth dist.	4134 May 25 11:51	0° <b>Ⅱ</b> 22'51	0.56746 AU	minimum elong	4135 May 04 01:14	13° <b>8</b> 59'21	2°20'40
desc. node	4134 May 25 23:12	0° <b>Д</b> 03'54		min. Earth dist.	4135 May 07 08:13	11° <b>8</b> 17'41	0.58713 AU
	4134 May 26 01:35	30°R₩		morning rise	4135 May 11 09:31	8° <b>8</b> 34'39	
morning rise	4134 May 30 13:52	27° <b>8</b> 32'26		desc. node	4135 May 12 20:15	7° <b>8</b> 53'30	
direct	4134 Jun 04 19:28	26° <b>8</b> 27'17		direct	4135 May 17 12:37	6° <b>8</b> 55'07	
direct	4134 Jun 14 12:00	0° <b>Ⅱ</b>		morning max el	4135 May 31 22:06	14° <b>8</b> 40'28	27007108
marning may al	4134 Jun 19 02:53	3° <b>∏</b> 51′27	25052155	morning max ci	4135 Jun 13 05:49	0°Ⅱ	27 0708
morning max el	4134 Jul 19 02.33 4134 Jul 07 21:08	9 <b>ய</b> 31 27	23 33 33		4135 Jun 30 02:56	0°©	
asc. node							
	4134 Jul 15 23:44	15°5546'38		morning set	4135 Jul 01 08:26	2°533'22	
morning set	4134 Jul 16 23:11	17° <b>©</b> 49'52		asc. node	4135 Jul 02 20:48	5° <b>©</b> 45'50	
	4134 Jul 22 13:50	$0$ $\circ$ $\Omega$			4125 7 1 00 00 51	150051100	0055110
	4124 1 1 22 22 2	20 0 550 5	1014120	superior conj	4135 Jul 08 09:51	17°951'38	
superior conj	4134 Jul 23 22:01	2° <b>Ω</b> 57'05		minimum elong	4135 Jul 08 07:45	17°5540'04	
minimum elong	4134 Jul 23 19:41	2° <b>Ω</b> 44'14		max. Earth dist.	4135 Jul 08 04:32	17°522'17	1.32012 AU
max. Earth dist.	4134 Jul 24 17:09		1.32303 AU		4135 Jul 13 23:00	$0$ $\circ$ $\Omega$	
evening rise	4134 Jul 30 22:02	18° <b>Ω</b> 02'07		evening rise	4135 Jul 15 05:57	2° <b>Ω</b> 44'52	
	4134 Aug 05 22:18	0°Щ			4135 Jul 29 20:40	0° <b>m</b> )	
desc. node	4134 Aug 21 22:31	25° Mp 57'10		desc. node	4135 Aug 08 19:32	13° <b>m</b> ) 48'12	
	4134 Aug 25 02:09	0。 <b>ಹ</b>		evening max el	4135 Aug 13 12:16	18° <b>m</b> 48'15	26°25'31
evening max el	4134 Aug 31 11:25	6° <b>£</b> 57'39	27°12'41	retrograde	4135 Aug 27 11:28	25° <b>m</b> 58'09	
retrograde	4134 Sep 14 07:40	14° <b>≙</b> 11'09		evening set	4135 Sep 03 02:46	24° Mp 08'38	
evening set	4134 Sep 21 10:52	11° <b>≙</b> 51'48		min. Earth dist.	4135 Sep 07 01:40	21° <b>m</b> 33'27	0.59559 AU
min. Earth dist.	4134 Sep 25 01:48	9° <b>ჲ</b> 06'15	0.61622 AU	inferior conj	4135 Sep 10 08:08	19° <b>m</b> 00'49	-4°49'33
inferior conj	4134 Sep 28 03:26	6° <b>£</b> 22'12	-4°04'03	minimum elong	4135 Sep 10 13:00	18° <b>m</b> 51'17	4°48'48
minimum elong	4134 Sep 28 09:26	6° <b>≏</b> 08'48	4°02'28	morning rise	4135 Sep 18 01:24	14° <b>m</b> 26'08	
morning rise	4134 Oct 05 09:50	1° <b>≏</b> 25'16		direct	4135 Sep 20 10:35	14° <b>m</b> 05'59	
direct	4134 Oct 07 18:19	1° <b>ჲ</b> 01'58		morning max el	4135 Sep 28 04:27	17° <b>m</b> 51'43	18°19'02
asc. node	4134 Oct 11 22:56	2° <b>£</b> 18'46		asc. node	4135 Sep 28 20:00	18° <b>m</b> ) 30'35	
morning max el	4134 Oct 14 18:07	4° <b>£</b> 32'48	17°55'07		4135 Oct 06 22:20	0∘ <u>⊽</u>	
morning set	4134 Oct 30 13:44	29° <b>≙</b> 23'23		morning set	4135 Oct 14 02:36	13° <b>≙</b> 12'28	
S	4134 Oct 30 21:46	0°M		J			
				superior conj	4135 Oct 23 08:07	0°M34'30	1°19'59
					222 200.07		

minimum elong	4135 Oct 23 11:54	0°M51'48	1°19'35	morning set	4136 Sep 27 01:04	27° <b>m</b> 28'59	
	4135 Oct 23 00:35	$0^{\circ}$ M			4136 Sep 28 07:33	0∘ <b>⊽</b>	
max. Earth dist.	4135 Oct 30 21:27	13°M57'05	1.40780 AU				
evening rise	4135 Nov 04 12:50	21°M43'47		superior conj	4136 Oct 05 08:22	13° <b>≏</b> 49'42	1°36'22
desc. node	4135 Nov 04 18:50	22°M08'21		minimum elong	4136 Oct 05 10:43	14° <b>≏</b> 01'00	1°36'13
	4135 Nov 09 16:21	0° <b>∡</b>		max. Earth dist.	4136 Oct 12 02:16	26° <b>£</b> 24'37	1.38694 AU
	4135 Nov 30 11:52	0°る			4136 Oct 14 02:36	0°M	
evening max el	4135 Dec 08 20:46		23°20'39	evening rise	4136 Oct 15 22:00	3°M09'31	
retrograde	4135 Dec 19 08:11	15° <b>る</b> 55'39		desc. node	4136 Oct 21 15:50	12°M47'40	
evening set	4135 Dec 24 07:10	13°පි52'51 12°පි26'05			4136 Nov 01 20:24	0° x̄¹ 22° x̄324120	24920120
asc. node inferior conj	4135 Dec 25 19:14 4135 Dec 29 16:43		1°17'25	evening max el	4136 Nov 20 09:48 4136 Nov 30 13:37	23° <b>メ</b> 24'29 0°る	24°39'30
minimum elong	4135 Dec 29 15:02	7° <b>る</b> 34'04	1°16'46	retrograde	4136 Nov 30 13.37 4136 Dec 01 22:26	0° <b>ろ</b> 07'28	
min. Earth dist.	4135 Dec 29 15:02 4135 Dec 29 06:07	8° <b>る</b> 04'43	0.67974 AU	retrograde	4136 Dec 01 22:20 4136 Dec 03 06:14	0 ℃0728 30°R <i>X</i> 7	
morning rise	4136 Jan 03 22:50	1°る21'09	0.01714 AO	evening set	4136 Dec 07 00:14	27° <b>√</b> 49'14	
	4136 Jan 06 07:37	30°R. <b>✓</b>		asc. node	4136 Dec 11 16:17	23° <b>₹</b> 06'05	
direct	4136 Jan 08 04:40	29° <b>х</b> 40′51		min. Earth dist.	4136 Dec 12 01:44	22° <b>₹</b> 35'00	0.67621 AU
	4136 Jan 10 03:42	0°ප		inferior conj	4136 Dec 12 23:06	21° <b>х</b> 23'59	0°26'11
morning max el	4136 Jan 16 16:51		21°10'32	minimum elong	4136 Dec 12 22:27	21° <b>₹</b> ¹26'06	0°25'55
desc. node	4136 Jan 31 18:04	24° <b>る</b> 02'24		morning rise	4136 Dec 18 10:00	15° <b>₹</b> 23'01	
	4136 Feb 04 19:40	0° <b>≈</b>		direct	4136 Dec 22 02:51	14° <b>₹</b> 04'19	
morning set	4136 Feb 16 11:25	17° <b>≈</b> 48'56		morning max el	4136 Dec 29 16:12	18° <b>₹</b> '21'28	19°58'46
max. Earth dist.	4136 Feb 23 22:51	29° <b>≈</b> 48'11	1.42437 AU		4137 Jan 07 23:22	8°0	
	4136 Feb 24 01:44	0° <b>∀</b>		desc. node	4137 Jan 17 15:04	14° <b>る</b> 12'31	
				morning set	4137 Jan 25 07:41	25° <b>る</b> 57'41	
superior conj	4136 Mar 02 05:05	11° <b>) (</b> 57′05			4137 Jan 27 22:17	0° <b>≈</b>	
minimum elong	4136 Mar 02 06:24	12° <b>)</b> 02'41	2°07'12	max. Earth dist.	4137 Feb 05 08:46	13° <b>≈</b> 16'31	1.44038 AU
	4136 Mar 12 10:56	0° <b>Υ</b>					
evening rise	4136 Mar 13 15:26	2°Υ08'25		superior conj	4137 Feb 10 16:34	21° <b>≈</b> 51'40	
asc. node	4136 Mar 22 18:35	18° <b>Y</b> 10′21		minimum elong	4137 Feb 10 12:07	21° <b>≈</b> 33'32	2°02'44
evening max el	4136 Mar 30 07:09	28° <b>Y</b> 23'33	18°07'34		4137 Feb 15 15:05	0° <b>)</b> {	
	4136 Apr 01 03:55	0° <b>8</b>		evening rise	4137 Feb 23 20:11	13° <b>¥</b> 54'37 0° <b>Ƴ</b>	
retrograde	4136 Apr 05 23:08	1° <b>8</b> 47'29 1° <b>8</b> 15'41			4137 Mar 05 08:15 4137 Mar 09 15:36	6°Υ33'30	
evening set	4136 Apr 08 14:32 4136 Apr 10 22:13	1° <b>⊘</b> 15°41 30° <b>₹</b> Υ		asc. node evening max el	4137 Mar 13 19:54	11° <b>Y</b> 38'47	18°11'36
inferior conj	4136 Apr 15 05:52		3°10'16	retrograde	4137 Mar 20 06:02	11 1 38 47 15° <b>Υ</b> 02'39	16 11 30
minimum elong	4136 Apr 15 08:35	26° <b>Y</b> 12'59	3°09'48	evening set	4137 Mar 20 00:02 4137 Mar 23 03:23	13 <b>γ</b> 02 39 14° <b>γ</b> 19'25	
min. Earth dist.	4136 Apr 18 11:10	23° <b>Y</b> 16'05	0.60908 AU	inferior conj	4137 Mar 29 06:22	9° <b>Υ</b> '03'20	3°32'44
morning rise	4136 Apr 22 00:35	20° <b>Υ</b> 26'22	0.00000110	minimum elong	4137 Mar 29 07:21	9° <b>Υ</b> 00'38	3°32'40
direct	4136 Apr 28 17:35	18° <b>Υ</b> 12'47		min. Earth dist.	4137 Mar 31 22:47	6° <b>Υ</b> 09'49	0.63007 AU
desc. node	4136 Apr 28 17:17	18° <b>Ƴ</b> 12'47		morning rise	4137 Apr 04 10:12	2° <b>Y</b> 58'14	
morning max el	4136 May 12 23:35	26° <b>Y</b> ′08'39	27°46'24	direct	4137 Apr 11 07:33	0° <b>Υ</b> 19'56	
-	4136 May 16 13:56	$9^{\circ}$ 8		desc. node	4137 Apr 15 14:17	1° <b>Y</b> 13'39	
	4136 Jun 05 18:10	$\Pi^{\circ}0$		morning max el	4137 Apr 25 06:23	8° <b>Y</b> 18'19	27°48'08
morning set	4136 Jun 14 13:46	17° <b>∏</b> 02'42			4137 May 11 23:36	$9^{\circ}$ 8	
asc. node	4136 Jun 18 17:51	25° <b>Ⅱ</b> 51'30			4137 May 28 22:48	$\Pi$ °0	
max. Earth dist.	4136 Jun 20 15:08	29° <b>∏</b> 57′23	1.32136 AU	morning set	4137 May 29 13:02	1° <b>Ⅱ</b> 11'16	
	4136 Jun 20 15:37	$0$ $\circ$ $\odot$		max. Earth dist.	4137 Jun 03 21:11	12° <b>Ⅱ</b> 15'55	1.32682 AU
	41067 21 22 22	200100	0022117	asc. node	4137 Jun 05 14:54	15° <b>∏</b> 59'31	
superior conj	4136 Jun 21 20:50		0°32'17		4127 1 06 05 11	170 <b>T</b> 1705	0007114
minimum elong	4136 Jun 21 19:26 4136 Jun 28 16:48	2° <b>©</b> 32'18 17° <b>©</b> 33'30	0°31'59	superior conj	4137 Jun 06 05:11 4137 Jun 06 04:53	17° <b>Ⅱ</b> 16'35 17° <b>Ⅱ</b> 14'57	0°06'14 0°06'11
evening rise	4136 Jul 28 16:48 4136 Jul 04 19:38	0°Ω		minimum elong behind sun begin	4137 Jun 06 04:33 4137 Jun 06 00:01	1/°Щ143/ 16°Щ48'38	0-0611
evening max el	4136 Jul 25 05:49	29° <b>Ω</b> 51'24	25°00'06	behind sun end	4137 Jun 06 09:45	10 <b>П</b> 48 38 17° <b>П</b> 41'17	
evening max er	4136 Jul 25 09:26	0° M)	23 09 00	bennia sun ena	4137 Jun 12 02:06	0°95	
desc. node	4136 Jul 25 16:34	0° Mp 16'45		evening rise	4137 Jun 13 04:39	2° <b>5</b> 21'46	
retrograde	4136 Aug 08 04:48	6° m 55'29		evening rise	4137 Jun 28 07:07	0° <b>Ω</b>	
evening set	4136 Aug 13 19:00	5° Mp 43'53		evening max el	4137 Jul 06 18:52	10° <b>Ω</b> 20'59	23°34'55
min. Earth dist.	4136 Aug 18 17:31	•	0.57551 AU	desc. node	4137 Jul 12 13:34	14° <b>£</b> 51'35	
inferior conj	4136 Aug 21 17:48	0° m 58'53		retrograde	4137 Jul 20 09:42	17° <b>Ω</b> 10'44	
minimum elong	4136 Aug 21 18:32	0° <b>т</b> 57'38		evening set	4137 Jul 24 12:41	16° <b>Ω</b> 33'28	
-	4136 Aug 23 05:00	30°R <b>Ω</b>		min. Earth dist.	4137 Jul 31 04:46	13° <b>Ω</b> 26′20	0.55908 AU
morning rise	4136 Aug 29 20:25	26° <b>Ω</b> 46'36		inferior conj	4137 Aug 02 07:19	12° <b>Ω</b> 10′57	-4°53'54
direct	4136 Sep 01 09:39	26° <b>Ω</b> 27'24		minimum elong	4137 Aug 02 01:56	12° <b>Ω</b> 19′01	4°53'12
	4136 Sep 09 13:35	0° <b>m</b>		morning rise	4137 Aug 10 17:39	8° <b>Ω</b> 16′18	
morning max el	4136 Sep 10 06:32	0° <b>m</b> ,38′29	19°04'00	direct	4137 Aug 13 13:32	7° <b>Ω</b> 56'27	
asc. node	4136 Sep 14 17:04	5°Mp48'16		morning max el	4137 Aug 23 21:40	12° <b>Ω</b> 44'31	20°10'47

asc. node	4137 Sep 01 14:07	23° <b>Ω</b> 57'29		asc. node	4138 Aug 19 11:08	12° <b>Ω</b> 45'25	
use. Houe	4137 Sep 05 01:46	0° m)		morning set	4138 Aug 26 15:05	26° <b>Ω</b> 51'06	
morning set	4137 Sep 11 06:03	12° <b>m</b> 04'27		C	4138 Aug 28 03:11	0° m/y	
superior conj	4137 Sep 18 22:12	27° <b>m</b> 45'19	1°43'34	superior conj	4138 Sep 02 21:29	12° <b>m</b> 08'32	1°43'05
minimum elong	4137 Sep 18 22:53	27° <b>m</b> 48'44	1°43'34	minimum elong	4138 Sep 02 20:44	12° <b>m</b> 04'37	1°43'04
	4137 Sep 20 01:05	0∘ <b>⊽</b>		max. Earth dist.	4138 Sep 06 20:29	20° <b>m</b> ) 16'27	1.34938 AU
max. Earth dist.	4137 Sep 24 08:22	8° <b>£</b> 24'10	1.36680 AU	evening rise	4138 Sep 11 04:50	28° m/49'00	
evening rise	4137 Sep 28 04:45	15° <b>Ω</b> 35'00		1 1	4138 Sep 11 19:45	0∘ <b>⊽</b>	
desc. node	4137 Oct 06 12:26 4137 Oct 08 12:52	0°ጤ 3°ጤ16'45		desc. node	4138 Sep 25 09:55	23° <b>£</b> 29'16 0° <b>I</b> L	
desc. node	4137 Oct 08 12:32 4137 Oct 27 10:16	3°11616743 0° <b>√</b> 7		evening max el	4138 Sep 29 17:03 4138 Oct 16 10:43	20°M45'25	26°46'33
evening max el	4137 Oct 27 10:16 4137 Nov 02 22:15	0 <b>x</b> ⁴ 7° <b>x</b> 707'19	25°50'33	retrograde	4138 Oct 10 10:43 4138 Oct 29 12:19	28°M01'20	20 40 33
retrograde	4137 Nov 15 07:59	14° <b>×</b> 11'42	25 50 55	evening set	4138 Nov 05 03:25	25°M21'19	
evening set	4137 Nov 21 10:26	11° <b>х</b> 40'10		min. Earth dist.	4138 Nov 09 03:54	21°M18'00	0.65864 AU
min. Earth dist.	4137 Nov 25 17:45	7° <b>∡</b> *01'05	0.66922 AU	inferior conj	4138 Nov 11 00:04	19°M08'29	
inferior conj	4137 Nov 27 02:13	5° <b>√</b> 18'45		minimum elong	4138 Nov 11 02:34	19° <b>M</b> 01'07	1°28'59
minimum elong	4137 Nov 27 03:00	5° <b>∡</b> 16'15	0°29'43	asc. node	4138 Nov 15 10:19	14°MJ33'57	
asc. node	4137 Nov 28 13:18	3° <b>∡</b> °30′05		morning rise	4138 Nov 17 02:31	13°M27'34	
	4137 Dec 02 00:31	30°RM		direct	4138 Nov 19 22:51	12°M42'40	
morning rise	4137 Dec 02 19:59	29° <b>M</b> 26'28		morning max el	4138 Nov 26 12:17	16°M15'58	18°20'43
direct	4137 Dec 06 01:33	28°M26'30			4138 Dec 06 15:11	0° <b>∡</b> ¹	
	4137 Dec 10 07:34	0°⊀		morning set	4138 Dec 15 21:32	14° <b>₹</b> 50'30	
morning max el	4137 Dec 12 23:18		19°01'39	desc. node	4138 Dec 22 09:08	25° <b>∡</b> 15′09	
	4138 Jan 01 12:39	0°る			4138 Dec 25 08:46	0°ප	
morning set	4138 Jan 04 13:08	4°る42'23			4120 5 21 06 50	00 <b>7011</b> 00	0050100
desc. node	4138 Jan 04 12:05	4°る38'19	1 45015 ATT	superior conj	4138 Dec 31 06:58	9° <b>る</b> 21'00	
max. Earth dist.	4138 Jan 19 00:55 4138 Jan 20 16:56	27°る22'24 0°≈	1.45015 AU	minimum elong max. Earth dist.	4138 Dec 30 23:45 4139 Jan 01 19:51	8°る52'36 11°る45'47	1.45263 AU
	4138 Jan 20 10.30	0 ≈		max. Earm dist.	4139 Jan 13 11:20	0°≈	1.43203 AU
superior conj	4138 Jan 21 04:32	0° <b>≈</b> 45'47	-1°30'12	evening rise	4139 Jan 16 10:35	0 ∞ 4°≈39'28	
minimum elong	4138 Jan 20 19:29	0°≈10'02		greatest brilliancy	4139 Jan 27 05:26	21°≈30'38	-0.8m
evening rise	4138 Feb 05 02:53	24°≈44'17	1 30 23	greatest orimaney	4139 Feb 01 21:55	0° <b>₩</b>	0.0111
	4138 Feb 08 08:07	0° <b>∀</b>		evening max el	4139 Feb 08 16:43	8° <b>)</b> 33'34	19°14'02
asc. node	4138 Feb 24 12:37	24° <b>)</b> € 12'48		asc. node	4139 Feb 11 09:37	10° <b>¥</b> 56′01	
evening max el	4138 Feb 25 07:50	25° <b>)</b> €03'35	18°34'07	retrograde	4139 Feb 15 17:24	12° <b>)</b> 34′03	
retrograde	4138 Mar 03 21:20	28° <b>) (</b> 40′20		evening set	4139 Feb 19 03:34	11° <b>)</b> €25'37	
evening set	4138 Mar 07 00:41	27° <b>) (</b> 44'54		inferior conj	4139 Feb 24 16:15	5° <b>)</b> 35′19	3°22'50
inferior conj	4138 Mar 12 18:59	22° <b>) (</b> 10′37	3°35'17	minimum elong	4139 Feb 24 14:31	5° <b>)</b> (40′56	3°22'36
minimum elong	4138 Mar 12 18:23	22° <b>∺</b> 12'27	3°35'16	min. Earth dist.	4139 Feb 26 01:58	3° <b>)</b> 46′58	0.66228 AU
min. Earth dist.	4138 Mar 14 19:56	19° <b>) (</b> 44'37	0.64812 AU		4139 Mar 01 08:46	30° <b>R</b> ≈	
morning rise	4138 Mar 18 11:31	15° <b>¥</b> 59′20		morning rise	4139 Mar 02 01:08	29° <b>≈</b> 21′28	
direct	4138 Mar 25 05:06	13° <b>)(</b> 09'34		direct	4139 Mar 08 09:17	26°≈33'24	
desc. node	4138 Apr 02 11:18	16° <b>¥</b> 28'06	2701 4147	1 1	4139 Mar 16 12:00	0° <b>){</b>	
morning max el	4138 Apr 07 16:06 4138 Apr 15 10:39	21° <b>)</b> €01'37 0° <b>°</b>	2/144/	desc. node	4139 Mar 20 08:19 4139 Mar 21 02:02	3° <b>¥</b> 22'09 4° <b>¥</b> 06'09	26°13'18
	4138 May 05 02:40	0° <b>8</b>		morning max el	4139 Mai 21 02.02 4139 Apr 09 19:55	4 χυσυ9 0°Υ	20 13 18
morning set	4138 May 13 03:22	14° <b>8</b> 50'03		morning set	4139 Apr 26 05:07	27° <b>Υ</b> '48'27	
max. Earth dist.	4138 May 17 18:44	24° <b>8</b> 06'14	1.33676 AU	morning sec	4139 Apr 27 09:09	0°8	
	4138 May 20 14:54	0°II		max. Earth dist.	4139 Apr 30 04:51	5° <b>8</b> 24'48	1.35132 AU
					r		
superior conj	4138 May 21 08:52	1° <b>Ⅱ</b> 34'33	-0°22'01	superior conj	4139 May 05 05:34	15° <b>8</b> 27'26	-0°51'14
minimum elong	4138 May 21 10:00	1° <b>Ⅱ</b> 40'34	0°21'47	minimum elong	4139 May 05 08:19	15° <b>8</b> 41'29	0°50'43
asc. node	4138 May 23 11:55	6° <b>Ⅱ</b> 05′19		asc. node	4139 May 10 08:57	26° <b>8</b> 05'07	
evening rise	4138 May 28 15:36	17° <b>Ⅱ</b> 02'42			4139 May 12 06:12	$\Pi$ °0	
	4138 Jun 04 02:45	$0$ $\circ$		evening rise	4139 May 12 23:41	1°Ⅱ30′12	
evening max el	4138 Jun 18 10:38	20°5546'48	21°58'48		4139 May 29 22:00	0	
desc. node	4138 Jun 29 10:35	26°957'21		evening max el	4139 May 31 12:30	1°5540'27	20°33'57
retrograde	4138 Jul 01 03:16	27°504'02		retrograde	4139 Jun 11 16:13	7°507'30	
evening set	4138 Jul 03 21:06	26°5647'13	0.54057.433	evening set	4139 Jun 13 16:49	6°957'27	
min. Earth dist.	4138 Jul 12 15:08		0.54957 AU	desc. node	4139 Jun 16 07:34	6°516'58	1057100
inferior conj	4138 Jul 13 04:56	22°542'57		inferior conj	4139 Jun 22 22:36	3°500'00	
minimum elong morning rise	4138 Jul 12 20:22 4138 Jul 21 21:17	22°©54'58 18°©51'54	3°43'37	minimum elong min. Earth dist.	4139 Jun 22 17:07 4139 Jun 24 03:06	3°507'54 2°518'51	1°55'02 0.54934 AU
direct	4138 Jul 25 01:53	18°931'34		mm. Barui uist.	4139 Jun 28 13:04	2 <b>3</b> 0°R <b>Ⅱ</b>	0.57754 AU
morning max el	4138 Aug 06 00:59		21°37'41	morning rise	4139 Jul 01 16:38	28° <b>∏</b> 51'54	
morning max ci	4138 Aug 11 07:59	0°Ω	21 3/71	direct	4139 Jul 05 11:27	28° <b>Ⅲ</b> 21'01	
		- 00			00 11.2/		

	4139 Jul 12 03:15	0°95		transit begin	4140 Jun 01 22:52	13° <b>Ⅱ</b> 38'56	
morning max el	4139 Jul 18 18:54		23°18'16	transit end	4140 Jun 02 06:36	13° <b>Ⅱ</b> 26'25	
	4139 Aug 05 06:45	$0^{\circ}\Omega$		desc. node	4140 Jun 02 04:35	13° <b>∏</b> 29'41	
asc. node	4139 Aug 06 08:11	2° <b>Ω</b> 02'37		min. Earth dist.	4140 Jun 04 17:12	11° <b>Ⅱ</b> 52'17	0.55862 AU
morning set	4139 Aug 11 02:18	11° <b>Ω</b> 43′39		morning rise	4140 Jun 10 14:30	8° <b>Ⅱ</b> 52'35	
				direct	4140 Jun 15 06:49	8° <b>川</b> 03'00	
superior conj	4139 Aug 18 03:09	26° <b>Ω</b> 49'58	1°36'12	morning max el	4140 Jun 29 08:45	15° <b>Ⅱ</b> 09'54	25°00'31
minimum elong	4139 Aug 18 01:24	26° <b>Ω</b> 40'36	1°36'03		4140 Jul 11 04:37	0	
	4139 Aug 19 14:42	0° <b>m</b>		asc. node	4140 Jul 23 05:16	21° <b>5</b> 641'17	
max. Earth dist.	4139 Aug 20 17:23	2° Tp 21'14	1.33585 AU	morning set	4140 Jul 25 14:03	26° <b>©</b> 37'13	
evening rise	4139 Aug 25 18:05	12° m/40'34			4140 Jul 27 04:01	$0 {\circ} \Omega$	
JJ.	4139 Sep 04 01:34	0° <u>Ω</u>			4140 4 01 12-46	110 0 42101	1922152
desc. node	4139 Sep 12 06:56	13° <b>≙</b> 17'56 0° <b>I</b> L		superior conj minimum elong	4140 Aug 01 12:46 4140 Aug 01 10:30	11° <b>Ω</b> 42'01 11° <b>Ω</b> 29'39	1°23'53 1°23'36
evening max el	4139 Sep 24 22:29 4139 Sep 28 22:47	4°M09'32	27°20'00	max. Earth dist.	4140 Aug 01 10.30 4140 Aug 02 22:30	$11  0.29  39$ $14^{\circ} \Omega 45'57$	1.32651 AU
retrograde	4139 Sep 28 22:47 4139 Oct 12 10:55	11°M28'04	27 20 09	evening rise	4140 Aug 08 16:52	26° <b>Ω</b> 59'31	1.32031 AU
evening set	4139 Oct 12 10:39 4139 Oct 19 11:29	8°M47'33		evening rise	4140 Aug 10 04:23	0° m)	
min. Earth dist.	4139 Oct 23 06:02	5°M18'50	0.64455 AU		4140 Aug 27 09:31	0∘ <b>⊽</b>	
inferior conj	4139 Oct 25 14:19	2°M48'07		desc. node	4140 Aug 29 03:56	2° <b>₽</b> 33'02	
minimum elong	4139 Oct 25 18:37	2°M36'37	2°30'10	evening max el	4140 Sep 10 08:44	17° <b>Ω</b> 07'56	27°24'57
_	4139 Oct 28 08:29	30° <b>Ŗ</b> Ω		retrograde	4140 Sep 24 02:54	24° <b>≏</b> 23'20	
morning rise	4139 Nov 01 02:58	27° <b>≏</b> 21'32		evening set	4140 Oct 01 07:25	21° <b>≏</b> 53'02	
asc. node	4139 Nov 02 07:22	26° <b>♀</b> 57'37		min. Earth dist.	4140 Oct 04 22:24	18° <b>≏</b> 54'13	0.62728 AU
direct	4139 Nov 03 16:30	26° <b>≏</b> 47'45		inferior conj	4140 Oct 07 18:15	16° <b>≏</b> 11'36	-3°32'03
	4139 Nov 09 22:49	$0^{\circ}$ M		minimum elong	4140 Oct 07 23:56	15° <b>≏</b> 57'56	3°30'17
morning max el	4139 Nov 10 04:27	0° <b>™</b> 13′50	17°56'40	morning rise	4140 Oct 14 18:03	11° <b>≏</b> 02'34	
morning set	4139 Nov 27 10:48	26°M23'29		direct	4140 Oct 17 03:31	10° <b>Ω</b> 36'18	
	4139 Nov 29 14:11	0° <b>₹</b>		asc. node	4140 Oct 19 04:26	10° <b>£</b> 55'52	15050100
desc. node	4139 Dec 09 06:11	15° <b>∡</b> 58'41		morning max el	4140 Oct 23 20:52		17°50'20
	4120 D 10 20-21	100.722126	0011101		4140 Nov 03 19:46	0°M 9°M03'59	
superior conj minimum elong	4139 Dec 10 20:31 4139 Dec 10 19:12	18° <b>≯</b> 33'26 18° <b>≯</b> 28'10		morning set	4140 Nov 08 23:24	9-11603.39	
behind sun begin	4139 Dec 10 19:12 4139 Dec 10 11:28	17° <b>×</b> 28 10	0 1049	superior conj	4140 Nov 20 10:41	28°M59'00	0°32'23
behind sun end	4139 Dec 10 11:26 4139 Dec 11 02:56	18° <b>×</b> 59'17		minimum elong	4140 Nov 20 13:41	29°M11'38	0°31'56
max. Earth dist.	4139 Dec 15 14:33	26° <b>₹</b> ′08'22	1.44775 AU	minimum crong	4140 Nov 21 01:12	0° <b>√</b>	0 3130
	4139 Dec 18 01:20	ි ව°0		desc. node	4140 Nov 25 03:14	6° <b>₹</b> ¹45'46	
evening rise	4139 Dec 27 00:40	13° <b>る</b> 56'06		max. Earth dist.	4140 Nov 27 06:49	10° <b>∡</b> 15′22	1.43616 AU
	4140 Jan 06 13:54	0°≈		evening rise	4140 Dec 05 10:51	23° <b>х</b> 10′09	
greatest brilliancy	4140 Jan 10 15:35	6° <b>≈</b> 02'51	-0.6m		4140 Dec 09 21:41	5°0	
evening max el	4140 Jan 22 20:56	22° <b>≈</b> 05'37	20°09'35		4140 Dec 30 21:48	0° <b>≈</b>	
asc. node	4140 Jan 29 06:39	26° <b>≈</b> 28′11		evening max el	4141 Jan 04 19:44	5° <b>≈</b> 39'19	21°17'48
retrograde	4140 Jan 30 15:24	26° <b>≈</b> 38'17		retrograde	4141 Jan 13 13:10	10° <b>≈</b> 49'45	
evening set	4140 Feb 03 09:46	25°≈15'47		asc. node	4141 Jan 15 03:41	10° <b>≈</b> 35'45	
inferior conj	4140 Feb 08 19:17	19°≈11'55		evening set	4141 Jan 17 17:26	9°≈12'02	2025125
minimum elong	4140 Feb 08 16:55	19°≈19'52		inferior conj	4141 Jan 23 01:43		2°25'25
min. Earth dist.	4140 Feb 09 15:00	18°≈05'22 12°≈57'52	0.67229 AU	minimum elong min. Earth dist.	4141 Jan 22 23:16	3°≈05'54	2°24'40
morning rise direct	4140 Feb 13 23:51 4140 Feb 19 19:07	12 ≈3732 10°≈22'15		IIIII. Eartii dist.	4141 Jan 23 08:50 4141 Jan 25 06:14	2°≈32'50 30°Rる	0.67823 AU
morning max el	4140 Mar 02 10:44		24°53'06	morning rise	4141 Jan 28 04:55	26° <b>පි</b> 44'53	
desc. node	4140 Mar 06 05:22	21°≈27'14	24 33 00	direct	4141 Feb 02 09:39	24°る28'48	
dese. node	4140 Mar 13 00:33	0° <b>∀</b>			4141 Feb 12 03:17	0° <b>≈</b>	
	4140 Apr 01 20:09	0° <b>Υ</b>		morning max el	4141 Feb 12 19:31		23°24'36
morning set	4140 Apr 07 13:16	9° <b>Y</b> 51'38		desc. node	4141 Feb 21 02:26	10° <b>≈</b> 23'19	
max. Earth dist.	4140 Apr 11 04:16	16° <b>Y</b> 25′14	1.37011 AU		4141 Mar 06 22:34	0° <b>)</b> €	
				morning set	4141 Mar 19 21:45	20° <b>) (</b> 43′47	
superior conj	4140 Apr 17 16:14	28° <b>Y</b> 46'37	-1°19'40	max. Earth dist.	4141 Mar 23 23:22	27° <b>) (</b> 42'43	1.39162 AU
minimum elong	4140 Apr 17 20:25	29° <b>Y</b> '07'06	1°19'02		4141 Mar 25 06:37	$0$ ° $\Upsilon$	
	4140 Apr 18 07:12	0°8					
evening rise	4140 Apr 26 02:33	15° <b>8</b> 36'58		superior conj	4141 Mar 31 13:02	11° <b>Y</b> ′22'40	
asc. node	4140 Apr 26 05:59	15° <b>8</b> 54'05		minimum elong	4141 Mar 31 17:49	11° <b>Y</b> 44'56	1°44'08
	4140 May 03 15:18	0°П 120П15104	10027100	evening rise	4141 Apr 09 21:29	29° <b>Y</b> 16′03	
evening max el	4140 May 13 02:45		19°27'09	1	4141 Apr 10 06:35	0°8	
retrograde	4140 May 22 12:40	17° <b>∏</b> 49'51		asc. node	4141 Apr 13 03:01	5° <b>8</b> 27'37	10040125
evening set inferior conj	4140 May 24 12:09 4140 Jun 02 02:40	17° <b>Ⅲ</b> 38'36 13° <b>Ⅲ</b> 32'47	0°01'24	evening max el retrograde	4141 Apr 26 03:34 4141 May 04 02:43	25° <b>8</b> 28'52 29° <b>8</b> 23'27	18°40'25
minimum elong	4140 Jun 02 02:44 4140 Jun 02 02:44	13° <b>Д</b> 32'47 13° <b>Д</b> 32'41	0°01'24 0°01'23	evening set	4141 May 04 02:43 4141 May 06 07:53	29° <b>8</b> 06'23	
transit middle	4140 Jun 02 02:44 4140 Jun 02 02:44	13° <b>Д</b> 32'41	0°01'23	inferior conj	4141 May 06 07.33 4141 May 14 02:27		1°39'31
transit inidale	1110 Juli 02 02.77	1.J.L.J.C. T.I	J V12J	microi conj	11 11 11 11 11 11 11 11 11 11 11 11 11	2. 0-223	1 5/31

minimum elong	4141 May 14 05:44	24° <b>8</b> 36'12	1°38'29	minimum elong	4142 Apr 26 03:08	6° <b>8</b> 26'36	2°45'05
min. Earth dist.	4141 May 17 10:24	22° <b>8</b> 12'57	0.57542 AU	min. Earth dist.	4142 Apr 29 09:10	3° <b>8</b> 36'05	0.59640 AU
desc. node	4141 May 20 01:37	20° <b>8</b> 28'53	0.575 12 110	morning rise	4142 May 03 04:10	0° <b>8</b> 51'46	0.55010710
morning rise	4141 May 22 00:22	19° <b>8</b> 27'26			4142 May 04 20:27	30°RY	
direct	4141 May 27 16:00	18° <b>8</b> 08'15		desc. node	4142 May 06 22:39	29°Υ16'54	
morning max el	4141 Jun 11 00:42	25° <b>8</b> 42'01	26°28'41	direct	4142 May 09 14:07	28° <b>Ƴ</b> 57'31	
	4141 Jun 15 01:16	0°II			4142 May 14 12:03	0°8	
	4141 Jul 04 08:55	0ಂತ		morning max el	4142 May 23 22:45	6° <b>8</b> 47'49	27°28'27
morning set	4141 Jul 10 00:42	11° <b>©</b> 26'09		C	4142 Jun 10 08:49	0° <b>I</b> I	
asc. node	4141 Jul 10 02:18	11°934'39		morning set	4142 Jun 24 08:33	26° <b>Ⅱ</b> 05'13	
					4142 Jun 26 05:06	0°ಅ	
superior conj	4141 Jul 17 00:17	26°537'26	1°06'55	asc. node	4142 Jun 26 23:21	1° <b>©</b> 37'36	
minimum elong	4141 Jul 16 22:00	26°©24'47	1°06'32				
max. Earth dist.	4141 Jul 17 08:48	27° <b>©</b> 24'24	1.32133 AU	superior conj	4142 Jul 01 11:59	11° <b>©</b> 30'30	0°45'57
	4141 Jul 18 13:03	$0^{\circ}\Omega$		minimum elong	4142 Jul 01 10:07	11° <b>©</b> 20'16	0°45'35
evening rise	4141 Jul 23 22:09	11° <b>Ω</b> 36′06		max. Earth dist.	4142 Jun 30 20:34	10° <b>©</b> 05'38	1.32018 AU
	4141 Aug 02 08:53	0° <b>m</b> )		evening rise	4142 Jul 08 07:36	26°\$22'47	
desc. node	4141 Aug 16 00:57	21°Mp00'11		-	4142 Jul 10 00:59	$0^{\circ}\Omega$	
evening max el	4141 Aug 23 13:41	29° <b>m</b> 26'13	26°56'44		4142 Jul 27 04:58	0° <b>m</b>	
-	4141 Aug 24 04:13	0° <b>⊽</b>		desc. node	4142 Aug 02 21:57	8° <b>m</b> 19'42	
retrograde	4141 Sep 06 11:10	6° <b>≙</b> 37'19		evening max el	4142 Aug 05 11:16	10° <b>m</b> 55'53	25°55'57
evening set	4141 Sep 13 10:54	4° <b>₽</b> 29'29		retrograde	4142 Aug 19 10:32	18° Mp 03'40	
min. Earth dist.	4141 Sep 17 03:54	1° <b>≏</b> 50'24	0.60754 AU	evening set	4142 Aug 25 17:05	16° <b>№</b> 29'30	
	4141 Sep 19 08:38	30°R, Mp		min. Earth dist.	4142 Aug 29 23:38	13° <b>m</b> 53'35	0.58688 AU
inferior conj	4141 Sep 20 08:27	29° <b>m</b> 09'17	-4°25'23	inferior conj	4142 Sep 02 05:20	11° <b>m</b> /31'35	-5°02'35
minimum elong	4141 Sep 20 14:17	28° <b>m</b> 56'57	4°24'07	minimum elong	4142 Sep 02 08:51	11° <b>m</b> 25'08	5°02'14
morning rise	4141 Sep 27 19:33	24° Mp 21'20		morning rise	4142 Sep 10 02:50	7° Mp 06'53	
direct	4141 Sep 30 04:04	23° <b>m</b> 59'32		direct	4142 Sep 12 13:31	6° Mp47'17	
asc. node	4141 Oct 06 01:31	26° Mp 22'36		morning max el	4142 Sep 20 17:31	10° <b>m</b> 41'55	18°35'33
morning max el	4141 Oct 07 10:18	27° Mp 35'26	18°02'49	asc. node	4142 Sep 22 22:35	13° <b>m</b> 04'18	
	4141 Oct 09 14:54	0∘ <b>亚</b>			4142 Oct 03 11:56	0∘ <b>⊽</b>	
morning set	4141 Oct 23 04:53	22° <b>₽</b> 32'12		morning set	4142 Oct 06 22:14	6° <b>£</b> 33'59	
	4141 Oct 27 05:30	0°M₊					
				superior conj	4142 Oct 15 17:18	23° <b>£</b> 26'45	1°28'09
superior conj	4141 Nov 02 03:04	10°M40'51	1°05'48	minimum elong	4142 Oct 15 20:33	23° <b>≙</b> 41'57	1°27'52
minimum elong	4141 Nov 02 07:12	10°M59'12	1°05'18		4142 Oct 19 06:44	$0^{\circ}$ M	
max. Earth dist.	4141 Nov 09 18:27	23°M49'55	1.41920 AU	max. Earth dist.	4142 Oct 23 00:52	6°M40′52	1.39899 AU
desc. node	4141 Nov 12 00:16	27°M32'31		evening rise	4142 Oct 27 04:28	13° <b>M</b> 47'09	
	4141 Nov 13 12:26	0° <b>∡</b> ¹		desc. node	4142 Oct 29 21:16	18°M15'33	
evening rise	4141 Nov 15 08:53	2° <b>҂</b> 759′03			4142 Nov 06 07:25	0° <b>∡</b> ¹	
	4141 Dec 03 07:24	0°ರ			4142 Nov 28 10:07	o°S	
evening max el	4141 Dec 18 13:22	19° <b>る</b> 14'20	22°34'38	evening max el	4142 Dec 01 03:18	2°る52'01	23°54'38
retrograde	4141 Dec 28 09:02	25° <b>る</b> 04'26		retrograde	4142 Dec 12 01:44	9° <b>ರ</b> 18'31	
evening set	4142 Jan 02 00:53	23° <b>る</b> 10'38		evening set	4142 Dec 17 06:29	7° <b>る</b> 08'43	
asc. node	4142 Jan 02 00:44	23° <b>ප</b> 10'56		asc. node	4142 Dec 19 21:47	4° <b>る</b> 23'36	
inferior conj	4142 Jan 07 09:33	16° <b>る</b> 48'36	1°44'14	min. Earth dist.	4142 Dec 22 01:40	1° <b>る</b> 35'03	0.67865 AU
minimum elong	4142 Jan 07 07:28	16° <b>る</b> 55'51	1°43'28	inferior conj	4142 Dec 22 16:57	0° <b>る</b> 43'10	0°56'22
min. Earth dist.	4142 Jan 07 05:09	17°る03'50	0.68025 AU	minimum elong	4142 Dec 22 15:39	0° <b>る</b> 47'33	0°55'50
morning rise	4142 Jan 12 13:56	10° <b>る</b> 39'11			4142 Dec 23 05:42	30°R. <b>✓</b>	
direct	4142 Jan 17 03:54	8° <b>る</b> 45'51		morning rise	4142 Dec 28 00:51	24° <b>∡</b> ³38'35	
morning max el	4142 Jan 26 07:46	14° <b>る</b> 07'52	21°57'18	direct	4143 Jan 01 00:53	23° <b>₹</b> 07'58	
desc. node	4142 Feb 07 23:29	29° <b>る</b> 55'42		morning max el	4143 Jan 09 02:40	27° <b>∡</b> ¹46'14	20°38'24
	4142 Feb 08 00:42	0° <b>≈</b>			4143 Jan 11 04:39	0°ಕ	
	4142 Feb 27 22:12	0° <b>∀</b>		desc. node	4143 Jan 25 20:30	19° <b>る</b> 54'08	
morning set	4142 Feb 28 01:47	0° <b>∺</b> 14′26			4143 Feb 01 14:03	0° <b>≈</b>	
max. Earth dist.	4142 Mar 05 21:56	9° <b>∺</b> 48′20	1.41311 AU	morning set	4143 Feb 07 04:40	8° <b>≈</b> 37'32	
				max. Earth dist.	4143 Feb 16 03:23	22° <b>≈</b> 47'47	1.43177 AU
superior conj	4142 Mar 13 15:11	23° <b>∺</b> 03'54			4143 Feb 20 13:06	0° <b>∀</b>	
minimum elong	4142 Mar 13 18:36	23° <b>∺</b> 19′03	2°02'08				
	4142 Mar 17 12:12	$0^{\circ}$ Y		superior conj	4143 Feb 22 17:35	3° <b>¥</b> 38′21	
evening rise	4142 Mar 24 04:59	12° <b>Ƴ</b> 19′06		minimum elong	4143 Feb 22 16:40	3° <b>)</b> 34'34	2°07'36
asc. node	4142 Mar 31 00:03	24° <b>Ƴ</b> 40′07		evening rise	4143 Mar 06 20:48	24° <b>)</b> 35′49	
	4142 Apr 03 04:47	0°8			4143 Mar 09 22:14	0° <b>Υ</b>	
evening max el	4142 Apr 09 11:37	8° <b>8</b> 13'49	18°13'51	asc. node	4143 Mar 17 21:05	13° <b>Y</b> 23′51	
retrograde	4142 Apr 16 11:46	11° <b>8</b> 44'43		evening max el	4143 Mar 23 23:30	21° <b>Y</b> 20'08	18°06'57
evening set	4142 Apr 18 23:30	11° <b>8</b> 18'54		retrograde	4143 Mar 30 11:58	24° <b>Y</b> 42'44	
inferior conj	4142 Apr 25 23:41	6° <b>8</b> 34'12	2°45'52	evening set	4143 Apr 02 05:49	24° <b>Y</b> 06'20	

inforior coni	4143 Apr 08 15:24	19° <b>Ƴ</b> 01'32	2022126	ratra ara da	4144 Mar 12 22:52	8° <b>Y</b> '08'23	
inferior conj minimum elong	4143 Apr 08 17:25	19 <b>γ</b> 01 32 18° <b>Υ</b> 56'26	3°22'20	retrograde evening set	4144 Mar 15 22:38	7° <b>Υ</b> 20'12	
min. Earth dist.	•	$15^{\circ}$ <b>Y</b> 59'31	0.61819 AU	inferior conj		1° <b>Υ</b> 56'27	2025152
morning rise	4143 Apr 11 15:48 4143 Apr 15 03:21	13 <b>γ</b> 39 31 13° <b>γ</b> 02'02	0.01819 AU	minimum elong	4144 Mar 21 21:32 4144 Mar 21 21:49	1° <b>Υ</b> 55'40	3°35'53
direct	4143 Apr 13 03.21 4143 Apr 21 23:07	13 <b>γ</b> 02 02 10° <b>γ</b> 36'30		minimum eiong		1 1 33 40 30°R <b>)</b> €	3 33 33
desc. node	4143 Apr 21 23.07 4143 Apr 23 19:41	10 γ 36 30 10° <b>Υ</b> 46'33		min. Earth dist.	4144 Mar 23 14:33 4144 Mar 24 07:37	30 KX 29°¥12'35	0.63817 AU
	1	$10^{\circ}$ <b>Y</b> 46 33 $18^{\circ}$ <b>Y</b> 35'15	27951145			25° <b>H</b> 48'06	0.0381 / AU
morning max el	4143 May 06 02:59		27-3143	morning rise	4144 Mar 27 20:06		
	4143 May 15 17:37	0° <b>B</b>		direct desc. node	4144 Apr 03 16:48	23° <b>)</b> (02'49	
	4143 Jun 03 04:10	0°II		desc. node	4144 Apr 09 16:42	24° <b>)</b> (48'23	
morning set	4143 Jun 08 11:36	10° <b>Ⅲ</b> 27′02			4144 Apr 16 10:36	0° <b>Υ</b>	27027140
asc. node	4143 Jun 13 20:22	21° <b>Ⅱ</b> 44'51	1 22215 411	morning max el	4144 Apr 17 11:17	1°Υ00'32	2/°3/'48
max. Earth dist.	4143 Jun 14 05:43	22° <b>Ⅱ</b> 35'24	1.32315 AU		4144 May 08 20:18	0° <b>8</b>	
				morning set	4144 May 22 07:27	24° <b>8</b> 24'16	
superior conj	4143 Jun 15 22:03	26° <b>Ⅱ</b> 14'41	0°21'34		4144 May 25 02:00	0°Ⅱ	
minimum elong	4143 Jun 15 21:04	26° <b>Ⅱ</b> 09'19	0°21'21	max. Earth dist.	4144 May 27 08:20	4°Щ41'47	1.33048 AU
	4143 Jun 17 15:14	0°©				🗕	
evening rise	4143 Jun 22 19:05	11°9511'54		superior conj	4144 May 30 04:41	10° <b>∐</b> 44′23	
	4143 Jul 02 08:34	$0^{\circ}\Omega$		minimum elong	4144 May 30 04:57	10° <b>Ⅱ</b> 45'51	0°05'30
evening max el	4143 Jul 18 01:59	21° <b>Ω</b> 41′03	24°30'10	behind sun begin	4144 May 29 23:54	10° <b>Ⅱ</b> 18'46	
desc. node	4143 Jul 20 18:57	24° <b>Ω</b> 04'05		behind sun end	4144 May 30 10:01	11° <b>Ⅱ</b> 12'58	
retrograde	4143 Jul 31 23:08	28° <b>Ω</b> 41'34		asc. node	4144 May 30 17:23	11° <b>Ⅱ</b> 52'30	
evening set	4143 Aug 05 23:00	27° <b>Ω</b> 45'39		evening rise	4144 Jun 06 06:46	25° <b>Ⅱ</b> 57'43	
min. Earth dist.	4143 Aug 11 13:03	24° <b>Ω</b> 53'57	0.56787 AU		4144 Jun 08 05:05	$0$ $\circ$ $\infty$	
inferior conj	4143 Aug 14 06:15	23° <b>Ω</b> 09'55	-5°09'44		4144 Jun 26 14:53	$0 {\circ} \Omega$	
minimum elong	4143 Aug 14 04:25	23° <b>Ω</b> 12'51	5°09'38	evening max el	4144 Jun 28 15:15	2° <b>Ω</b> 05′20	22°53'21
morning rise	4143 Aug 22 12:24	19° <b>Ω</b> 06'28		desc. node	4144 Jul 06 15:58	7° <b>Ω</b> 39'36	
direct	4143 Aug 25 04:01	18° <b>Ω</b> 47'20		retrograde	4144 Jul 11 23:00	8° <b>Ω</b> 43'38	
morning max el	4143 Sep 03 15:17	23° <b>Ω</b> 12'41	19°29'49	evening set	4144 Jul 15 10:17	8° <b>Ω</b> 17'17	
-	4143 Sep 09 07:12	o° mp		min. Earth dist.	4144 Jul 22 23:55	4° <b>Ω</b> 55'32	0.55402 AU
asc. node	4143 Sep 09 19:37	0° Mp 45′29		inferior conj	4144 Jul 24 12:03	4° <b>Ω</b> 03'29	-4°31'18
morning set	4143 Sep 20 23:45	20° m 59'12		minimum elong	4144 Jul 24 04:37	4° <b>Ω</b> 14'14	4°29'52
C	4143 Sep 25 11:12	0∘ <u>⊽</u>		morning rise	4144 Aug 02 01:10	0° <b>Ω</b> 12'09	
	1			C	4144 Aug 03 03:03	30°Rூ	
superior conj	4143 Sep 28 23:53	7° <b>ჲ</b> 00'58	1°40'27	direct	4144 Aug 05 00:15	29° <b>©</b> 51'33	
minimum elong	4143 Sep 29 01:31	7° <b>£</b> 08'58	1°40'23		4144 Aug 06 20:40	0° <b>N</b>	
max. Earth dist.	4143 Oct 05 05:05	18° <b>≏</b> 52'08	1.37810 AU	morning max el	4144 Aug 16 01:19	4° <b>Ω</b> 59'34	20°45'29
evening rise	4143 Oct 08 23:13	25° <b>£</b> 39'22	1.5,010110	asc. node	4144 Aug 26 16:38	19° <b>Ω</b> 12'35	20 .6 25
evening rise	4143 Oct 11 11:00	0°M		use. Houe	4144 Sep 01 11:36	0° m	
desc. node	4143 Oct 16 18:17	8°M51'06		morning set	4144 Sep 04 06:42	5° Mp 40'01	
dese. Hode	4143 Oct 30 21:32	0° <b>x</b> 7		morning set	4144 БСР О4 00.42	3 III 40 01	
evening max el	4143 Nov 13 15:43		25°11'09	superior conj	4144 Sep 11 18:08	21° <b>m</b> 09'31	10/1/13
retrograde	4143 Nov 25 14:15	23° <b>×</b> 27'58	25 11 07	minimum elong	4144 Sep 11 18:10	21° m 09'39	1°44'13
evening set	4143 Nov 23 14.13 4143 Dec 01 08:40	23 × 27 38 21°× 03'36		minimum clong	4144 Sep 16 03:50	0° <b>∵</b>	1 44 13
min. Earth dist.	4143 Dec 01 08:40 4143 Dec 05 20:07	16° <b>₹</b> 04'04	0.67357 AU	max. Earth dist.	4144 Sep 16 12:58	0° <b></b> 0° <b>-</b> 044'43	1.35897 AU
inferior conj	4143 Dec 05 20:07 4143 Dec 06 22:10	10 <b>≯</b> 04 04 14° <b>₹</b> 39'07	0°02'52	evening rise	4144 Sep 20 13:54	8° <b>£</b> 27'16	1.55697 AU
-				desc. node	-		
minimum elong	4143 Dec 06 22:05 4143 Dec 06 22:05	14° 🗷 39'22	0°02'50 0°02'50	desc. node	4144 Oct 02 15:18	29° <b>£</b> 13'56	
transit middle		14° 🗷 39'22	0-02/50		4144 Oct 03 02:55	0° <b>M</b> 0° <i>≯</i>	
transit begin	4143 Dec 06 19:21	14° 🗷 48'18			4144 Oct 25 21:41		26916149
transit end	4143 Dec 07 00:49	14° 🗷 30'26		evening max el	4144 Oct 26 04:16	0° 🖈 16′01	26°16'48
asc. node	4143 Dec 06 18:49	14° 🖈 50'02		retrograde	4144 Nov 07 21:42	7°×126'35	
morning rise	4143 Dec 12 11:44	8° <b>∡</b> 41′28		evening set	4144 Nov 14 05:36	4° <b>₹</b> 51'02	
direct	4143 Dec 15 23:27	7° <b>∡</b> 31'18		min. Earth dist.	4144 Nov 18 10:02	0° <b>₹</b> 26'51	0.66508 AU
morning max el	4143 Dec 23 05:28	11° <b>×</b> 35'54	19°32'34		4144 Nov 18 18:52	30°RM	
greatest brilliancy	4144 Jan 05 08:28	29° <b>∡</b> 00′27	-0.7m	inferior conj	4144 Nov 19 23:18	28°M32'34	
	4144 Jan 06 00:25	0°రె		minimum elong	4144 Nov 20 00:47	28°M27'58	0°54'31
desc. node	4144 Jan 12 17:31	10° <b>る</b> 11'43		asc. node	4144 Nov 22 15:51	25°M24'38	
morning set	4144 Jan 17 01:39	16° <b>る</b> 52'38		morning rise	4144 Nov 25 20:32	22°M44'28	
	4144 Jan 25 12:05	0° <b>≈</b>		direct	4144 Nov 28 21:54	21°M51'21	
max. Earth dist.	4144 Jan 29 15:41	6° <b>≈</b> 32'15	1.44529 AU	morning max el	4144 Dec 05 15:15	25°M33'04	18°42'10
					4144 Dec 09 10:57	0° <b>∡</b> ¹	
superior conj	4144 Feb 02 18:14	13° <b>≈</b> 04'49	-1°55'18	morning set	4144 Dec 26 17:22	26° <b>₹</b> 09'45	
minimum elong	4144 Feb 02 11:18	12° <b>≈</b> 37'01	1°54'52		4144 Dec 29 03:44	5°0	
	4144 Feb 13 02:49	0° <b>)</b> €		desc. node	4144 Dec 29 14:33	0° <b>る</b> 42'40	
evening rise	4144 Feb 16 16:34	5° <b>¥</b> 58′27					
	4144 Mar 02 14:55	$0^{\circ}\Upsilon$		superior conj	4145 Jan 11 23:44	21° <b>る</b> 44'10	-1°23'34
asc. node	4144 Mar 03 18:06	1° <b>Y</b> 30'07		minimum elong	4145 Jan 11 14:35	21° <b>る</b> 08'15	1°22'34
evening max el	4144 Mar 06 12:13	4° <b>Y</b> 40'26	18°19'01	max. Earth dist.	4145 Jan 11 09:10	20° <b>පි</b> 47'00	1.45213 AU

Section   Personal   145 for 2   151   151   152   1		4145 Jan 17 05:48	0° <b>≈</b>			4146 Jan 10 02:22	0° <b>≈</b>	
Parallelinary	evening rise		* -		greatest brilliancy		* -	-0.7m
Cereming max of   4445 Feb   05 0.000   0.000   194   0.000   194   0.000   194   0.000   194   0.000   0.000   194   0.000	•			-0.9m	8			***
owning mack of the part of the	8				evening max el			19°35'55
Box.   Dec.   1445 Feb 2   1558   31598   31947417   17   17   1445 Feb 2   1015   3194527   1445 Feb 2   12237   1495 Feb 2   1245 F	evening max el	4145 Feb 17 23:10	18° <b>₩</b> 08'05	18°49'09	•	4146 Feb 05 12:09	5° <b>)</b> €02'10	
Section   1445 Feb   27   237   20   57   27   27   27   27   27   27   27	asc. node	4145 Feb 18 15:08	18° <b>)(</b> 47'17		retrograde	4146 Feb 08 13:35	5° <b>)</b> 52′08	
Inferior cory     444 May 61 6412   19541118   39132   minferior cory     444 Febr 17 1443   289-84108   291321   minferior file of the protein prot	retrograde	4145 Feb 24 16:25	21° <b>)</b> 53′20		evening set	4146 Feb 12 03:10	4° <b>)</b> 37′38	
minimarchong	evening set	4145 Feb 27 22:37	20° <b>)</b> 52′26			4146 Feb 16 14:02	30° <b>₹</b> ≈	
am. Earth dart         4145 May 11 (1921)         67500076         656400 AU         mm. Earth dist         4146 Fabr 12 (2024)         229-82713         400-8433         4146 Fabr 12 (2024)         229-82713         400-8433         4146 Fabr 12 (2024)         229-82713         400-8433         4146 Fabr 12 (2024)         229-82713         498-8473 (2014)         4146 Mar 14 (10-47)         287-8813-8         498-8473 (2014)         4146 Mar 14 (10-47)         287-8813-8         499-8413-8         400-8413-8         4146 Mar 14 (10-47)         287-813-8         400-8413-8	inferior conj	4145 Mar 05 14:12	15° <b>)</b> 11′18	3°31'33	inferior conj	4146 Feb 17 14:13	28° <b>≈</b> 41′08	3°13'52
morning gines   4145 Mar 1 1 0.304   8°H 58°S   morning rine   4146 Feb 2 2 20-54   22°me <sup>2</sup> P12   decende   4145 Mar 1 1 1241   0°H 4884   morning max el   4146 Mar 1 1 06.31   27°me <sup>2</sup> 0.32   25°40'54   morning max el   4145 Mar 1 0 06.31   27°me <sup>2</sup> 0.32   25°40'54   morning max el   4145 Mar 1 0 06.31   27°me <sup>2</sup> 0.32   25°40'54   morning max el   4145 Mar 1 0 06.31   27°me <sup>2</sup> 0.32   25°40'54   morning max el   4145 Mar 1 0 06.31   27°me <sup>2</sup> 0.32   27°40'54   morning ent   4145 Mar 1 0 10.34   27°40'34   morning ent   4146 Mar 1 1 1047   28°40'34   max Earth dist   4146 Mar 1 6 0.056   0°P* 4146 Mar 1 6 0.056	minimum elong	4145 Mar 05 13:03	15° <b>)</b> 14′52	3°31'28	minimum elong	4146 Feb 17 12:09	28° <b>≈</b> 47'56	3°13'31
direct         4145 Mar 17 17:21         e/H98/88         direct         4145 Mar 20 3:35         19%-84735         desc. node         4146 Mar 16 0-31         19%-84735         desc. node         4146 Mar 16 0-32         28%-91548         379-84735         desc. node         4146 Mar 16 0-32         28%-91548         28%-91548         4146 Mar 16 00-50         0°H         4146 Mar 16 10-37         28%-91548         28%-91548         4146 Mar 16 00-50         0°H         4146 Mar 16 10-37         28%-91548         28%-91548         4146 Mar 16 00-50         0°H         28%-91548         28%-91548         4146 Mar 16 10-30         0°H         28%-91548         4146 Mar 16 10-30         0°H         0°H         28%-91549         18%-91549         18%-91549         18%-91549         18%-91549         18%-91549         18%-91549         18%-91549         19%-91549 <t< td=""><td>min. Earth dist.</td><td>4145 Mar 07 08:36</td><td></td><td>0.65469 AU</td><td>min. Earth dist.</td><td>4146 Feb 18 17:42</td><td>27°<b>≈</b>10′40</td><td>0.66709 AU</td></t<>	min. Earth dist.	4145 Mar 07 08:36		0.65469 AU	min. Earth dist.	4146 Feb 18 17:42	27° <b>≈</b> 10′40	0.66709 AU
Also Mar 2   13-44   10PH 8874   morning max el   4146 Mar 1   10-631   27%-0733   25°4074   morning max el   4145 Mar 10   12-14   0°8   morning set   4146 Mar 1   10-72   8°47479   max. Earth dist.   4146 Mar 1   10-72   8°47479   10-734422   8°47479   4146 Mar 1   10-72   8°47479   10-734422   8°47479   4146 Mar 1   10-72   8°47479   10-734422   8°47479   4145 Mar 1   10-72   4145 Mar 1   10-72   8°47479   10-734422   8°47479   4145 Mar 1   10-72   4145 Mar 1   10-72   8°47479   10-73442   8°47479   4146 Mar 1   10-72   8°47479   10-73442   8°47479   4146 Mar 1   10-72   8°47479   10-73442   8°47479   10-73442   8°47479   10-73442   8°47479   4146 Mar 1   10-72   8°47479   10-73442   8°47479	morning rise	4145 Mar 11 03:04			morning rise	4146 Feb 22 20:54	22° <b>≈</b> 27'12	
Marching max el   4145 Mar 30 2106   33°H5315   26°S130   desc. node   4146 Mar 14 10.47   28°as1548   4145 May 10 1241   0°B   moming set   4145 May 01 1241   0°B   moming set   4146 Mar 16 11.52   0°P°C   1416 Mar 16 10.56   0°P°C   max. Earth dist   4145 May 10 1041   16°B739   1.34238 AU   max. Earth dist   4146 Apr 26 12 1432   0°B   1.34238 AU   max. Earth dist   4146 Apr 26 12 1432   0°B   1.34238 AU   minimum dong   4145 May 14 0°34   2°B0229   0°3400   minimum dong   4146 Mar 26 12 1432   0°B   1.34238 AU   1415 May 14 0°34   2°B0229   0°3400   minimum dong   4146 Mar 26 20.00   2°C4939   1°0256   0°C4939   0°C4939   1°0256   0°C4939   0°C	direct	4145 Mar 17 17:21				4146 Feb 28 23:53	19° <b>≈</b> 43'35	
H15 May 10 1241   O'B   H16 May 16 1056   O'B   H17 May 10 1648   O'B   H18 May 16 1658   O'B   H18 May 16 1619   O'B   H18 May 12 1648   O'B   H18 May 12 110   O'B   O'B   H18 May 12 110   O'B   O'B   H18 May 12 110   O'B   O'B   O'B   H18 May 12 110   O'B   O'B   H18 May 12 110   O'B   O'B   O'B   H18 May 12 110   O'B   O'B   H18 May 12 110   O'B   O'B   O'B   H18 May 12 110   O'B   O'B   H18 May 12 110   O'B   O'B   O'B   H18 May 12 110   O'B   O'B   H18 May 12 110   O'B   O'B   O'B   H18 May 12 110   O'B   O'B   H18 May 12 110   O'B   O'B   O'B   H18 May 12 110   O'B   O'B   O'B   H18 May 12 110   O'B   O'B   O'B   O'B   H18 May 12 110   O'B   O'					Č	4146 Mar 13 06:31		25°40'54
March   Marc	morning max el			26°51'30	desc. node			
max. Earth dist. 4145 May 10 10.04 16°817'39 1.34238 AU max. Earth dist. 4146 Apr 18 11.52 20°7°27'40' 27 1.35886 AU max. Earth dist. 4146 Apr 22 0.630 27°7°26'32 1.35886 AU max. Earth dist. 4146 Apr 22 0.630 27°7°26'32 1.35886 AU max. Earth dist. 4146 Apr 22 0.630 27°7°26'32 1.35886 AU max. Earth dist. 4146 Apr 27 0.216 27 1.028 1.0		•						
max. Earth dist.						•		
superior conj         4145 May 14 07:34         25°B0229         0°3400         superior conj         4146 May 23 12:35         8°B3231         1°0371           asc. node         4145 May 16 16:19         0°II         minimum clong         4146 May 28 02:00         8°B4979         1°0256           asc. node         4145 May 12 11:34         1°III-1402         evening se         4146 May 05 12:27         2785252         28°B329         1°0256           evening maxel         4145 May 21 11:34         1°III-1402         evening maxel         4146 May 08 11:44         0°II         28°E5252         28°B378         evening maxel         4146 May 30 17:29         23°III5128         20°0308         28°III5128         20°11512911 <td< td=""><td></td><td>•</td><td>_</td><td>1.04000 4.77</td><td>-</td><td>-</td><td></td><td>1.25006.177</td></td<>		•	_	1.04000 4.77	-	-		1.25006.177
minimum elong	max. Earth dist.	4145 May 10 01:04	16° <b>8</b> 17'39	1.34238 AU	max. Earth dist.	-		1.35886 AU
minimum clong	aumariar aani	41.45 May 14 05:45	240952101	0024122		4146 Apr 23 14:32	0.0	
Seconds		•			aumariar aani	41.46 Amr 27 22:25	00\222121	1902121
Sec. node   4145 May 17   1426   19	minimum elong	•		0 34 00			.T.	
evening rise	asc node	•			Č	1	_	1 02 30
Cevening max of the standard of the standar								
Pevening max el	evening rise	•			evening rise		_	
retrograde   4145 Jun   22   12:52   18*@37*8   retrograde   4146 Jun   03   03:35   28*TL\$550   des. node   4145 Jun   03   03:35   28*TL\$550   retrograde   4145 Jun   045   02:25   28*TL\$553   retrograde   4145 Jun   045   02:25   28*TL\$553   retrograde   4145 Jun   045   02:25   28*TL\$553   retrograde   4145 Jun   045   02:45   14*E2611   3*0314   rinferior conj   4146 Jun   10   02:46   24*TL\$400   -10*05252   rinferior conj   4145 Jun   13   03:41   24*TL\$404   -10*05252   rinferior conj   4146 Jun   13   03:41   24*TL\$404   -10*05252   rinferior conj   4146 Jun   13   03:41   24*TL\$404   -10*05252   rinferior conj   4146 Jun   13   23:41   24*TL\$404   rinferior conj   4146 Jun   13   23:41   24*TL\$4054   rinferior conj   4146 Jun   13   23:41   24*TL\$4054   rinferior conj   4146 Jun   13   23:41   rinferior conj   4146 Jun   13   rinferior conj   4146 Jun   13   rinferior conj   4146	evening max el			21°20'51	evening max el	•		20°03'08
cevening set   4145 Jun   23   12:58   18*@35'37   cevening set   4146 Jun   05   02:25   28*T45'53   cevening set   4145 Jun   24   21:17   18*@25'16   desc. node   4146 Jun   10   10:00   26*T152'11   desc. node   4146 Jun   10   10:00   24*T146'9   1*05'52   minimum elong   4145 Jul   04   01:46   14*@25'113   3*03'14   minimum elong   4145 Jul   03   22:23   14*@37'19   3*00'43   minimum elong   4145 Jul   13   00:48   14*@31'19   3*00'43   minimum elong   4145 Jul   13   00:48   10*@310'28   morning rise   4145 Jul   13   00:48   10*@310'28   morning max el   4145 Jul   29   00:33   16*@20'24   22*19'17   morning max el   4145 Jul   29   00:33   16*@20'24   22*19'17   morning max el   4145 Jul   23:00   0*93   0*9	•			21 2001	•	•		20 03 00
cevning set   4145 Jun   24   21:17   18   5925   14   5925   14   5925   14   5925   14   5925   14   5925   13   5931   14   5925   14   5925   13   5931   14   5925   14   5925   13   5931   14   5925	•				-			
Materian conj   4145 Jul   04   06:19   14°\$\frac{1}{2}\$201   14°\$\frac{1}{2}\$217   3°30'14   minimum clong   4146 Jun   13   23:41   24°\$\frac{1}{2}\$15'19   10°43'14   minimum clong   4146 Jun   13   23:41   24°\$\frac{1}{2}\$15'19   10°43'14   minimum clong   4146 Jun   15   23:12   23°\$\frac{1}{2}\$15'19   10°43'14   minimum clong   4146 Jun   15   23:12   23°\$\frac{1}{2}\$15'19   10°43'14   morning rise   4145 Jul   13   00:08   10°\$\frac{2}{2}\$0'29   minimum clong   4146 Jun   15   23:12   23°\$\frac{1}{2}\$13'19   10°\$\frac{2}{2}\$13'19   10°\$\frac{2}{2}\$10'29   morning rise   4146 Jun   15   23:12   23°\$\frac{1}{2}\$13'19   10°\$\frac{2}{2}\$13'19   10°\$\frac{2}{2}\$10'29   morning rise   4146 Jul   13   23:06   0°\$\frac{2}{2}\$   asc. node   4146 Jul   13   10:44   27°\$\frac{2}{2}\$   3'\$\frac{2}{2}\$   3'\$2					=			
minimum elong   4145 Jul   03   22:23   14°25719   3°0043   minimum elong   4146 Jun   13   23:41   29°15934   055217 AU minimum elong   4146 Jun   15   23:12   23°15934   055217 AU minimum elong   4146 Jun   15   23:12   23°15934   055217 AU morning rise   4145 Jul   13   10:048   10°250°09   direct   4146 Jul   10   15:26   26°15306	•			-3°03'14				-1°05'52
morning rise   4145 Jul 13 00.08   10°\signature 30728   morning rise   4146 Jun 22 19:18   20°\signature 1260509   direct   4146 Jun 26 12:29   19°\signature 137652   1416 Jun 26 12:29   19°\signature 146 Jun 10 15:26   26°\signature 137652   26°\signature 137662   26°\s	·	4145 Jul 03 22:23	14° <b>©</b> 37'19	3°00'43	minimum elong	4146 Jun 13 23:41	24° <b>Ⅱ</b> 50'46	1°04'43
direct         4145 Jul 16 10:15         10°⊠0509         direct         4146 Jun 26 22:29         19°∏48'52           morning max el         4145 Jul 29 00:03         16°⊠02'24         22°1917         morning max el         4146 Jul 10 15:26         26°∏3306         24°02'31           asc. node         4145 Aug 13 13:40         8°Ω14'45         asc. node         4146 Aug 01 14:04         0°Ω           asc. node         4145 Aug 19 16:57         20°Ω30'46         asc. node         4146 Aug 01 14:04         0°Ω           superior conj         4145 Aug 26 20:31         5°№12'10         1°40'53         superior conj         4146 Aug 10 10:09         20°Ω2'816         1°31'36           minimum elong         4145 Aug 20 50:191         5°№35'40         1°40'93         superior conj         4146 Aug 10 0:00         20°Ω18'18         1°31'36           minimum elong         4145 Aug 20 50:08         12°№3'10         1°40'53         superior conj         4146 Aug 10 0:00         20°Ω18'18         1°31'36           evening rise         4145 Sep 08 00:21         21°№5'936         max. Earth dist.         4146 Aug 11 0:00         20°Ω18'18         1°31'36           desc. node         4145 Sep 08 01:47         0°Ω         evening rise         4146 Aug 18 0:00         20°Ω18'8         2°2'5'51	min. Earth dist.	4145 Jul 04 10:46	14° <b>©</b> 19'59	0.54831 AU	min. Earth dist.	4146 Jun 15 23:12	23° <b>Ⅱ</b> 39'34	0.55217 AU
morning max el   4145 Jul 29 00:03   16°©02'24   22°19'17   morning max el   4146 Jul 10 15:26   26°II33'06   24°02'31   3445 Jug 08 20:48   0°Ω   4145 Jug 13 13:40   8°Ω1'445   asc. node   4146 Jul 13 23:06   0°©   34145 Jug 13 13:40   8°Ω1'445   asc. node   4146 Jul 31 10:44   27°©342'13   37°06'10   4145 Jug 19 16:57   20°Ω3'046   4146 Jug 01 14:04   0°Ω   4145 Jug 24 04:11   0°™   morning set   4146 Jug 01 14:04   0°Ω   4145 Jug 24 04:11   0°™   morning set   4146 Jug 01 14:04   0°Ω   4145 Jug 24 04:11   0°™   morning set   4146 Jug 01 14:04   0°Ω   20°Ω2'16   1°31'36   37°06'10   4145 Jug 26 20:31   5°™03'540   1°40'49   minimum elong   4146 Jug 10 0:07   20°Ω2'16   1°31'36   37°06'10   4146 Jug 13 0:01   24°Ω2'57'2   1.33140 Jug 10   4146 Jug 13 0:01   24°Ω2'57'2   1.33140 Jug 10   4146 Jug 13 0:01   24°Ω2'57'2   1.33140 Jug 10   4146 Jug 15 15:05   0°™   4145 Jug 10   0°Ω   4145 Jug 10   1°31'36   4146 Jug 13 0:01   24°Ω2'57'2   1.33140 Jug 10   4145 Jug 15 15:05   0°™   4145 Jug 15 15:05   0°™   4145 Jug 15 15:05   0°™   4145 Jug 10   1°31'36   4146 Jug 13 0:01   24°Ω2'57'2   1.33140 Jug 10   4145 Jug 15 15:05   0°™   4146 Jug 15 15:05   0°™   4146 Jug 15 15:05   0°™   4146 Jug 15 15:05   0°™   4145 Jug 15 Jug 10   1°31'36   4146 Jug 15 15:05   0°™   4146 Jug 15 Jug	morning rise	4145 Jul 13 00:08	10°530'28		morning rise	4146 Jun 22 19:18	20° <b>Ⅱ</b> 26′05	
asc. node 4145 Aug 08 20:48 0°Ω asc. node 4146 Jul 13 23:06 0°© asc. node 4146 Aug 13 13:40 8°Ω 1445 Aug 19 16:57 20°Ω3046 4146 Aug 01 14:04 10°Ω 4146 Aug 01 14:04 0°Ω 4145 Aug 24 04:11 0°D morning set 4146 Aug 01 14:04 0°Ω 14:04 0°Ω 14:04 00:0Ω 14:0Δ 10:02·Ω 20°Ω2016 1°31'36 00:0Ω 14:0Δ 10:0Δ 14:0Δ 10:02·Ω 20°Ω2016 1°31'36 00:0Ω 14:0Δ 10:0Δ 10:	direct	4145 Jul 16 10:15	10° <b>©</b> 05'09		direct	4146 Jun 26 22:29	19° <b>Ⅱ</b> 48′52	
asc. node	morning max el	4145 Jul 29 00:03	16° <b>©</b> 02'24	22°19'17	morning max el	4146 Jul 10 15:26	26° <b>Ⅲ</b> 33′06	24°02'31
Morning set   4145 Aug 19 16:57   20°Ω30'46   morning set   4146 Aug 01 14:04   0°Ω   S°Ω24'58   superior conj   4145 Aug 24 04:11   0°™   morning set   4146 Aug 04 04:38   5°Ω24'58   superior conj   minimum elong   4145 Aug 26 19:17   5°™35'40   1°40'49   minimum elong   4146 Aug 11 02:07   20°Ω18'18   1°31'23   max. Earth dist.   4145 Aug 30 05:08   12°™49'310   1.34319 AU   max. Earth dist.   4146 Aug 11 02:07   20°Ω18'18   1°31'23   max. Earth dist.   4145 Aug 30 05:08   12°™59'36   max. Earth dist.   4146 Aug 13 06:01   24°Ω57'52   1.33140 AU   evening rise   4145 Sep 08 01:47   0°Ω   evening rise   4146 Aug 13 15:55   0°™   evening max el   4145 Sep 19 12:20   19°№17'56   desc. node   4146 Aug 13 15:52   0°Ω   evening max el   4145 Cet 28 19:07   13°™50'57   27°03'59   evening max el   4146 Sep 2 10:423   27°25'51   evening set   4145 Oct 21 23:27   21°™07'55   evening set   4146 Sep 2 10:423   27°20'343   27°25'51   evening set   4145 Nov 01 17:04   14°™38'24   0.65313 AU   evening set   4146 Oct 14 01:21   30°™   4115 Nov 03 18:16   12°™19'03   15°49   min. Earth dist.   4145 Nov 09 12:52   6°™59'90   morning rise   4145 Nov 10 00:52   6°™59'90   morning rise   4145 Nov 10 00:52   6°™59'90   morning rise   4145 Nov 10 00:55   9°™132'58   8°08'20   morning max el   4145 Nov 10 00:55   9°™132'58   8°08'20   morning max el   4145 Nov 10 18:07   40°™27   25°040'11   20°040'3   morning max el   4145 Nov 10 18:07   6°™50'90   morning rise   4145 Nov 10 00:55   9°™132'58   8°08'20   morning rise   4145 Nov 10 00:55   9°™132'58   8°08'20   morning rise   4145 Nov 10 16:07   40°™27		4145 Aug 08 20:48	$0^{\circ}\Omega$			4146 Jul 13 23:06	$0$ $\circ$ $\odot$	
Superior conj   4145 Aug 24 04:11   0° m   moming set   4146 Aug 04 04:38   5° Ω24'58   superior conj minimum elong minimum elong   4145 Aug 26 20:31   5° my3'40   1°40'49   minimum elong   4146 Aug 11 02:07   20° Ω18'18   1°31'23   max. Earth dist.   4145 Aug 30 05:08   12° my3'30   1°40'49   minimum elong   4146 Aug 11 02:07   20° Ω18'18   1°31'23   max. Earth dist.   4145 Sep 03 20:11   21° my5'936   4146 Aug 15 15:05   0° m   4145 Sep 08 01:47   0° Ω   evening rise   4146 Aug 15 15:05   0° m   4145 Sep 08 01:47   0° Ω   evening rise   4146 Aug 15 15:05   0° m   4145 Sep 19 12:20   19° Ω17'56   4146 Sep 14 146 Sep 19 12:20   19° Ω17'56   4146 Sep 06 09:21   8° Ω5'403   27° 25'51   evening max el   4145 Oct 12 12:27   21° mu7'55   4146 Sep 24 12:53   0° m   evening set   4145 Oct 28 19:07   18° m_26'48   retrograde   4145 Oct 28 19:07   18° m_26'48   retrograde   4145 Oct 28 19:07   18° m_26'48   retrograde   4146 Oct 14 01:21   30° κ Ω   minimum elong   4145 Nov 03 18:16   12° m_19'20   -1°56'09   4146 Oct 14 01:21   30° κ Ω   minimum elong   4145 Nov 10 10:52   6° m_25'49   min. Earth dist.   4146 Oct 14 01:21   30° κ Ω   moming rise   4145 Nov 10 0:52   6° m_25'45   moming max el   4146 Oct 18 04:29   25° Ω5'256   2° 2° 145   direct   4145 Nov 10 0:52   6° m_25'45   moming max el   4146 Oct 18 04:29   25° Ω5'256   2° 2° 145   direct   4145 Nov 10 0:52   6° m_25'45   moming max el   4146 Oct 27 09:22   20° Ω3'32   direct   4145 Nov 10 0:52   6° m_25'45   moming max el   4146 Oct 27 09:22   20° Ω3'32   20° Ω3'32   4145 Dec 07 14:31   6° ₹0' 50° 0   moming max el   4146 Nov 08 03:12   0° m   moming max el   4145 Nov 10 0:52   6° m_25'45   moming max el   4146 Nov 08 03:12   0° m   moming max el   4145 Nov 10 0:52   6° m_25'45   moming max el   4146 Nov 08 03:12   0° m   moming max el   4145 Nov 10 0:52   6° m_25'45   moming max el   4146 Nov 08 03:12   0° m   moming max el   4145 Nov 10 0:52   6° m_25'50   moming max el   4146 Nov 08 03:12   0° m   moming max el   4146 Nov 08 03:12   0° m   moming max el	asc. node	4145 Aug 13 13:40	8° <b>Ω</b> 14'45		asc. node	4146 Jul 31 10:44		
superior conj         4145 Aug 26 20:31         5° m/42'10         1°40/53         superior conj         4146 Aug 11 04:09         20° Ω29'16         1°31'36           minimum elong         4145 Aug 26 19:17         5° m/35'40         1°40'49         minimum elong         4146 Aug 11 02:07         20° Ω18'18         1°31'36           max. Earth dist.         4145 Aug 30 05:08         12° m/43'10         1.34319 AU         max. Earth dist.         4146 Aug 13 06:01         24° Ω57'52         1.33140 AU           evening rise         4145 Sep 08 01:47         0° Ω         evening rise         4146 Aug 13 15:52         0° m/0         0° M/0         4146 Aug 13 15:52         0° m/0         0° M/0         0° M/0         4146 Aug 13 15:52         0° M/0         0° M/0         0° M/0         4146 Aug 13 15:52         0° M/0         <	morning set	•				•		
minimum elong minimum elong max. Earth dist.  4145 Aug 26 19:17  5 ° ₱ 35'40  1 ° 40'49  minimum elong max. Earth dist.  4146 Aug 11 02:07  4146 Aug 13 06:01  4146 Aug 15 15:05  0 ° ₱  4145 Sep 03 20:11  21 ° ₱ 59'36  4145 Sep 08 01:47  0 ° ♣  4145 Sep 08 10:47  0 ° ♣  4145 Sep 19 12:20  4145 Sep 19 12:20  4145 Sep 26 21:30  0 ° ₱  4146 Aug 31 15:52  0 ° ₱  4146 Aug 31 15:52  0 ° ₱  4146 Aug 31 15:52  0 ° ₱  4146 Sep 21 04:23  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'35  1446 Sep 24 12:53  0 ° ₱  4146 Sep 26 09:21  8 ° ♣ £ 40'3  27 ° £ 05'34  27 ° £ 05'3		4145 Aug 24 04:11	0°Щ		morning set	4146 Aug 04 04:38	5° <b>Ω</b> 24'58	
minimum elong minimum elong max. Earth dist.  4145 Aug 26 19:17  5 ° ₱ 35'40  1 ° 40'49  minimum elong max. Earth dist.  4146 Aug 11 02:07  4146 Aug 13 06:01  4146 Aug 15 15:05  0 ° ₱  4145 Sep 03 20:11  21 ° ₱ 59'36  4145 Sep 08 01:47  0 ° ♣  4145 Sep 08 10:47  0 ° ♣  4145 Sep 19 12:20  4145 Sep 19 12:20  4145 Sep 26 21:30  0 ° ₱  4146 Aug 31 15:52  0 ° ₱  4146 Aug 31 15:52  0 ° ₱  4146 Aug 31 15:52  0 ° ₱  4146 Sep 21 04:23  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'34  27 ° £ 05'35  1446 Sep 24 12:53  0 ° ₱  4146 Sep 26 09:21  8 ° ♣ £ 40'3  27 ° £ 05'34  27 ° £ 05'3							_	
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desc. node		-	-	1.34319 AU	max. Earth dist.	-		1.33140 AU
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evening max el 4145 Sep 26 21:30 0°M. desc. node 4146 Sep 06 09:21 8°♣54'03 27°£05'34 27°£5'51 retrograde 4145 Oct 21 23:27 21°M.07'55 retrograde 4145 Oct 28 19:07 18°M.26'48 retrograde 4146 Oct 28 19:07 18°M.26'48 retrograde 4146 Oct 04 19:07 4°M.22'46 min. Earth dist. 4145 Nov 01 17:04 14°M.38'24 0.65313 AU evening set 4146 Oct 11 22:28 1°M.44'57 inferior conj 4145 Nov 03 18:16 12°M.19'20 -1°56'09 4146 Oct 14 01:21 30°R.♣ minimum elong 4145 Nov 03 21:32 12°M.10'03 1°54'49 min. Earth dist. 4146 Oct 18 04:29 25°♣52'56 -2°57'45 morning rise 4145 Nov 10 00:52 6°M.59'40 inferior conj 4146 Oct 18 04:29 25°♣52'56 -2°57'45 morning max el 4145 Nov 10 00:52 6°M.04'03 morning rise 4145 Nov 10 00:55 9°M.32'58 18°08'20 direct 4146 Oct 27 09:22 20°♣03'32  morning set 4145 Dec 03 09:14 0°ℜ asc. node 4145 Dec 07 14:31 6°ℜ5'07 morning max el 4145 Dec 01 11:37 21°ℜ2'3'00 morning max el 4145 Dec 21 21:15 0°\$€8'20 0°\$38'27 morning set 4145 Dec 21 21:15 0°\$€8'20 0°\$38'27 morning max el 4145 Dec 21 21:15 0°\$€8'20 0°\$38'27 minimum elong 4145 Dec 21 23:35 0°\$09'14 0°37'48 superior conj 4146 Dec 02 0:25 10°\$₹1'34'2 0°08'16 morning max Earth dist. 4145 Dec 25 04:54 5°\$514'16 1.45153 AU minimum elong 4146 Dec 02 0:42:9 10°\$₹1'34'2 0°08'16	JJ.	1			evening rise	-	•	
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4145 Dec 21 21:15   0°る   morning set   4146 Nov 19 14:31   19°肌00'24   4146 Nov 26 00:51   0°水   superior conj   4145 Dec 22 04:25   0°る28'20 -0°38'27   minimum elong   4145 Dec 21 23:35   0°る09'14   0°37'48   superior conj   4146 Dec 02 03:35   10°水09'57   0°08'25   max. Earth dist.   4145 Dec 25 04:54   5°る14'16 1.45153 AU   minimum elong   4146 Dec 02 04:29   10°水13'42   0°08'16	morning set	4145 Dec 07 14:31	6° <b>₰</b> 756'07		morning max el	4146 Nov 02 22:36	23° <b>≏</b> 28'24	17°51'46
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evening rise 4146 Jan 07 12:14 25°59'11 behind sun begin 4146 Dec 01 20:00 9°\$\times'38'55				1.45153 AU	Č			0°08'16
	evening rise	4146 Jan 07 12:14	25° <b>6</b> 59'11		behind sun begin	4146 Dec 01 20:00	9° <b>×</b> '38'55	

behind sun end	41.46 Dec. 02, 12:50	10° <b>∡</b> ¹48'24			4147 Nov. 19 10:57	0° <b>∡</b> 7	
desc. node	4146 Dec 02 12:59	10°×'48'24 12°×'08'42		desc. node	4147 Nov 18 10:57	2° <b>x</b> <sup>1</sup> 56'02	
	4146 Dec 03 08:40	12° <b>×</b> '08'42 19° <b>×</b> '33'29	1 44250 ATT		4147 Nov 20 05:41	3° <b>x</b> '36'02	1 42044 ATT
max. Earth dist.	4146 Dec 07 23:10 4146 Dec 14 14:28	0°る	1.44359 AU	max. Earth dist. evening rise	4147 Nov 20 13:10 4147 Nov 27 12:04	3 <b>x</b> ·2040 14° <b>x</b> <sup>7</sup> 34'11	1.42944 AU
ovening rise	4146 Dec 17 22:42	5°る10'07		evening rise	4147 Nov 27 12:04 4147 Dec 07 14:51	0°る	
evening rise	4146 Dec 17 22.42 4147 Jan 03 12:48	0°≈		evening max el	4147 Dec 07 14.31 4147 Dec 29 04:28	0 3 28° <b>る</b> 45'26	21940/46
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evening max el	4147 Jan 23 11:49	13 ≈1131 20°≈00'24	20 37 13	ratra arada	4147 Dec 30 11:01 4148 Jan 07 09:04	0 ≈ 4°≈13'30	
retrograde asc. node	4147 Jan 23 09:11	20 ≈00 24 20°≈00'20		retrograde asc. node	4148 Jan 10 06:14	3°≈28'46	
	4147 Jan 27 10:14	20 ≈00 20 18°≈31'24			4148 Jan 11 17:58	2°≈29'07	
evening set inferior conj	4147 Feb 01 18:58	18 ≈31 24 12°≈22'18	2°45'41	evening set	4148 Jan 14 04:52	2 ≈2907 30°Rる	
3		12 ≈22 18 12°≈30'43	2°45'02	inferior conj	4148 Jan 17 02:13	30 KO 26°る10'42	2°08'50
minimum elong min. Earth dist.	4147 Feb 01 16:30	12 ≈3043 11°≈34'01	0.67526 AU	minimum elong	4148 Jan 16 23:52	26° <b>る</b> 1042 26° <b>る</b> 18'53	2°08'03
	4147 Feb 02 09:04		0.07320 AU	· ·			
morning rise	4147 Feb 06 22:36	6°≈08'40		min. Earth dist.	4148 Jan 17 04:20	26°る03'22 19°る59'03	0.67948 AU
direct	4147 Feb 12 11:39	3°≈41'01	24015157	morning rise	4148 Jan 22 05:35	19 <b>3</b> 3903	
morning max el	4147 Feb 23 15:12	10°≈20'26	24°15'57	direct	4148 Jan 27 03:55		22946147
desc. node	4147 Mar 01 07:52	16°≈45'05		morning max el	4148 Feb 06 01:01	23° <b>る</b> 43'25	22°46'47
	4147 Mar 11 05:41	0° <b>)</b> €			4148 Feb 11 14:04	0° <b>≈</b>	
	4147 Mar 30 07:12	0°Υ		desc. node	4148 Feb 16 04:54	5°≈58'08	
morning set	4147 Mar 31 10:46	1° <b>Y</b> 59'06			4148 Mar 03 15:36	0° <b>)</b> {	
max. Earth dist.	4147 Apr 04 03:28	8° <b>Ƴ</b> 31'19	1.37903 AU	morning set	4148 Mar 11 07:27	12° <b>)</b> 17′09	
		••		max. Earth dist.	4148 Mar 15 22:45	20° <b>)</b> €04'43	1.40088 AU
superior conj	4147 Apr 11 03:53	21° <b>Y</b> 34'41			4148 Mar 21 14:43	0° <b>Υ</b>	
minimum elong	4147 Apr 11 08:29	21° <b>Y</b> 56'44	1°30'15				
	4147 Apr 15 11:42	$9^{\circ}$ 8		superior conj	4148 Mar 23 17:18	3° <b>Y</b> '48'29	
evening rise	4147 Apr 19 22:52	8° <b>8</b> 50'11		minimum elong	4148 Mar 23 21:49	4° <b>Υ</b> ′09'04	1°52'56
asc. node	4147 Apr 21 08:31	11° <b>8</b> 35'48		evening rise	4148 Apr 02 13:21	22° <b>Y</b> 14'39	
	4147 May 01 19:38	$\Pi$ $^{\circ}0$			4148 Apr 06 16:16	$9^{\circ}$ 8	
evening max el	4147 May 06 12:59	5° <b>Ⅱ</b> 43'10	19°04'46	asc. node	4148 Apr 07 05:33	1° <b>8</b> 01'06	
retrograde	4147 May 15 07:09	9° <b>Ⅱ</b> 59'29		evening max el	4148 Apr 18 17:17	18° <b>8</b> 11'15	18°26'43
evening set	4147 May 17 08:27	9° <b>Ⅱ</b> 46′21		retrograde	4148 Apr 26 05:15	21° <b>8</b> 53'38	
inferior conj	4147 May 25 14:35	5° <b>Ⅲ</b> 33′21	0°46'35	evening set	4148 Apr 28 13:11	21° <b>8</b> 33'14	
minimum elong	4147 May 25 16:25	5° <b>Ⅲ</b> 30′11	0°45'56	inferior conj	4148 May 05 23:36	17° <b>8</b> 00'53	2°11'36
desc. node	4147 May 28 07:01	3° <b>Ⅱ</b> 42'39		minimum elong	4148 May 06 03:14	16° <b>8</b> 53'31	2°10'34
min. Earth dist.	4147 May 28 14:34	3° <b>Ⅲ</b> 30′05	0.56495 AU	min. Earth dist.	4148 May 09 10:04	14° <b>8</b> 15'57	0.58403 AU
morning rise	4147 Jun 02 21:11	0° <b>Ⅱ</b> 37'36		morning rise	4148 May 13 14:10	11° <b>8</b> 32'47	
	4147 Jun 04 20:17	30° <b>₹</b> 8		desc. node	4148 May 14 04:03	11° <b>8</b> 15'44	
direct	4147 Jun 07 23:17	29° <b>8</b> 36'48		direct	4148 May 19 14:37	9° <b>8</b> 58'28	
	4147 Jun 11 02:33	$\Pi^{\circ}0$		morning max el	4148 Jun 03 00:00	17° <b>8</b> 41'15	26°58'12
morning max el	4147 Jun 22 05:45	6° <b>Ⅱ</b> 57'14	25°40'45		4148 Jun 13 05:32	$\Pi^{\circ}0$	
	4147 Jul 09 04:34	0°€			4148 Jun 30 15:12	$0$ $\circ$ $\odot$	
asc. node	4147 Jul 18 07:48	17° <b>©</b> 27'54		morning set	4148 Jul 03 01:46	5°502'30	
morning set	4147 Jul 19 16:07	20°©17'19		asc. node	4148 Jul 04 04:51	7° <b>©</b> 25'49	
	4147 Jul 24 03:55	$0^{\circ}\Omega$					
				superior conj	4148 Jul 10 02:37	20°9518'47	0°58'29
superior conj	4147 Jul 26 14:49	5° <b>Ω</b> 23'37	1°17'13	minimum elong	4148 Jul 10 00:27	20°906'51	0°58'06
minimum elong	4147 Jul 26 12:29	5° <b>Ω</b> 10'49	1°16'53	max. Earth dist.	4148 Jul 10 00:46	20°508'36	1.32027 AU
max. Earth dist.	4147 Jul 27 13:38	7° <b>Ω</b> 28'49	1.32377 AU		4148 Jul 14 12:33	$0^{\circ}\Omega$	
evening rise	4147 Aug 02 15:44	20° <b>Ω</b> 31'18		evening rise	4148 Jul 16 23:02	5° <b>Ω</b> 12'56	
	4147 Aug 07 09:12	0° m/			4148 Jul 30 01:30	0° m/	
desc. node	4147 Aug 24 06:21	27° m 50'51		desc. node	4148 Aug 10 03:20	15° m 52'21	
	4147 Aug 25 21:04	0∘ <b>⊽</b>		evening max el	4148 Aug 15 14:19	21° Mp 46'06	26°34'43
evening max el	4147 Sep 03 12:17	9° <b>≏</b> 47'30	27°16'56	retrograde	4148 Aug 29 13:14	28° m 56'20	
retrograde	4147 Sep 17 08:12	17° <b>≏</b> 01'48		evening set	4148 Sep 05 07:05	27° mp 01'51	
evening set	4147 Sep 24 11:59	14° <b>≏</b> 39'08		min. Earth dist.	4148 Sep 09 04:04	24° m) 26'09	0.59866 AU
min. Earth dist.	4147 Sep 28 02:40	11° <b>≏</b> 50'34	0.61914 AU	inferior conj	4148 Sep 12 10:16	21° mp 50'47	
inferior conj	4147 Oct 01 02:58	9° <b>≏</b> 06'18		minimum elong	4148 Sep 12 15:29	21° mp 40'21	4°43'01
minimum elong	4147 Oct 01 02:56	8° <b>£</b> 52'42		morning rise	4148 Sep 20 01:58	17° m) 12'32	
morning rise	4147 Oct 01 08:30 4147 Oct 08 07:40	4° <b>⊆</b> 06'12	5 5 . 20	direct	4148 Sep 22 10:50	16° m 52'03	
direct	4147 Oct 08 07:40 4147 Oct 10 16:15	3° <b>Ω</b> 42'16		morning max el	4148 Sep 30 01:27	20° m/35'04	18°14'09
asc. node	4147 Oct 10 10:13 4147 Oct 14 07:01	3 <b>=</b> 42 10 4° <b>Ω</b> 40'33		asc. node	4148 Sep 30 01:27 4148 Sep 30 04:04	20° mg 41'27	10 1707
morning max el	4147 Oct 17 14:12	7° <b>£</b> 11'56	17°53'15	asc. node	4148 Oct 07 03:49	0° <b>⊽</b>	
morning max ci	4147 Oct 17 14.12 4147 Nov 01 07:47	0°M	11 33 13	morning set	4148 Oct 07 03.49 4148 Oct 15 22:05	0 <u>≈</u> 15° <b>≏</b> 47'35	
morning set	4147 Nov 01 07.47 4147 Nov 02 10:57	2°M02'52		morning set	4148 Oct 23 11:41	0°M	
morning set	717/110/ 02 10.3/	2 HQU2 32			7170 Oct 25 11.41	O IIO	
superior conj	4147 Nov 13 05:13	21°ML09'07	0°47'55	superior conj	4148 Oct 25 07:37	3°M20'47	1°16'35
minimum elong	4147 Nov 13 03:13 4147 Nov 13 09:02	21°M25'35		minimum elong	4148 Oct 25 07.37 4148 Oct 25 11:33	3°M38'35	1°16'09
mmmum ciong	(17/ 14UV 13 U7.U2	21 IIV2333	J 7/27	minimum ciong	11TO OCT 43 11.33	כנ טנטוו כ	1 1007

max. Earth dist.	4148 Nov 01 22:10	16°M42'49	1.41086 AU	minimum elong	4149 Oct 08 08:02	16° <b>≏</b> 41'26	1°34'19
desc. node	4148 Nov 06 02:41	23°M42'11		max. Earth dist.	4149 Oct 15 03:28	29° <b>Ω</b> 17'05	1.39008 AU
evening rise	4148 Nov 06 18:45	24°M47'52			4149 Oct 15 13:06	$0^{\circ}$ M	
	4148 Nov 10 00:20	0°⊀		evening rise	4149 Oct 19 00:26	6° <b>™</b> 04'07	
	4148 Nov 30 11:35	<b>万</b> °0		desc. node	4149 Oct 23 23:41	14°M22'46	
evening max el	4148 Dec 10 20:23	12° <b>る</b> 22'19	23°08'41		4149 Nov 03 01:21	0° <b>∡</b> 7	
retrograde	4148 Dec 21 03:43	18° <b>る</b> 28'37		evening max el	4149 Nov 23 09:38	26° <b>₹</b> 02'44	24°27'59
evening set	4148 Dec 26 00:48	16° <b>る</b> 28'13			4149 Nov 27 23:33	5°0	
asc. node	4148 Dec 27 03:17	15° <b>る</b> 26'46		retrograde	4149 Dec 04 18:35	2° <b>る</b> 41'27	
inferior conj	4148 Dec 31 10:06	10° <b>る</b> 04'16	1°24'42	evening set	4149 Dec 10 05:09	0° <b>る</b> 25'18	
minimum elong	4148 Dec 31 08:18	10° <b>る</b> 10'29	1°24'00		4149 Dec 10 16:33	30°₽ <b>₰</b>	
min. Earth dist.	4148 Dec 31 01:07	10° <b>る</b> 35'12	0.68003 AU	asc. node	4149 Dec 14 00:18	26° <b>х</b> 14′07	
morning rise	4149 Jan 05 15:41	3° <b>る</b> 56'27		min. Earth dist.	4149 Dec 14 21:00	25° <b>₹</b> 06'05	0.67702 AU
direct	4149 Jan 09 23:38	2° <b>る</b> 12'43		inferior conj	4149 Dec 15 16:47	23° <b>₹</b> 59'54	0°34'19
morning max el	4149 Jan 18 15:38	7° <b>る</b> 15'05	21°22'14	minimum elong	4149 Dec 15 15:58	24° <b>∡</b> °02'39	0°33'58
desc. node	4149 Feb 02 01:56	25° <b>る</b> 42'55		morning rise	4149 Dec 21 02:52	17° <b>∡</b> ′58′01	
	4149 Feb 05 00:50	0° <b>≈</b>		direct	4149 Dec 24 21:33	16° <b>∡</b> ³36′17	
morning set	4149 Feb 18 23:23	21°≈14'16		morning max el	4150 Jan 01 13:49	20° <b>∡</b> 58′20	20°08'33
	4149 Feb 24 10:28	0° <b>∀</b>			4150 Jan 09 00:32	0° <b>ろ</b>	
max. Earth dist.	4149 Feb 25 23:36	2° <b>∺</b> 31'57	1.42160 AU	desc. node	4150 Jan 19 22:57	15° <b>る</b> 50'26	
				morning set	4150 Jan 28 20:37	29° <b>る</b> 24'44	
superior conj	4149 Mar 05 09:52	15° <b>米</b> 02'36			4150 Jan 29 05:45	0° <b>≈</b>	
minimum elong	4149 Mar 05 11:50	15° <b>)</b> 11′06	2°06'21	max. Earth dist.	4150 Feb 08 08:38	15° <b>≈</b> 54'20	1.43835 AU
	4149 Mar 13 20:45	0° <b>Υ</b>					
evening rise	4149 Mar 16 14:38	4°Υ58'38		superior conj	4150 Feb 14 01:14	25°≈07'40	
asc. node	4149 Mar 25 02:34	20° <b>Y</b> 02'11		minimum elong	4150 Feb 13 21:44	24°≈53'17	2°04'40
	4149 Apr 01 01:59	0°8			4150 Feb 17 00:00	0° <b>)</b> (	
evening max el	4149 Apr 02 03:25	1° <b>8</b> 06'36	18°08'36	evening rise	4150 Feb 26 22:24	16° <b>)</b> 53′20	
retrograde	4149 Apr 08 21:06	4° <b>8</b> 31'44			4150 Mar 06 13:48	0° <b>γ</b>	
evening set	4149 Apr 11 11:37	4° <b>8</b> 01'29		asc. node	4150 Mar 11 23:35	8° <b>Υ</b> 31'18	10000140
	4149 Apr 17 06:43	30°RΥ	2004142	evening max el	4150 Mar 16 16:01	14° <b>Υ</b> 20'00	18°09'48
inferior conj	4149 Apr 18 05:06	29° <b>Υ</b> 08'11 29° <b>Υ</b> 01'18	3°04'43	retrograde	4150 Mar 23 02:28	17° <b>Υ</b> 43'13 17° <b>Υ</b> 01'45	
minimum elong	4149 Apr 18 08:02	$26^{\circ}$ <b>Y</b> 01'18 $26^{\circ}$ <b>Y</b> 05'27	3°04'10	evening set	4150 Mar 25 22:54	1/° \ 01'45	2020142
min. Earth dist.	4149 Apr 21 11:45	$26^{\circ} \Upsilon 05'27$ $23^{\circ} \Upsilon 17'39$	0.60582 AU	inferior conj	4150 Apr 01 03:28	11° \ 48'23	3°30'42 3°30'36
morning rise desc. node	4149 Apr 25 02:18	$23^{\circ}$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		minimum elong min. Earth dist.	4150 Apr 01 04:43 4150 Apr 03 22:01	8° <b>Υ</b> 52'10	0.62704 AU
direct	4149 May 01 01:05 4149 May 01 17:49	$21^{\circ}$ \(\gamma \) $08'52$		morning rise	4150 Apr 07 09:18	5° <b>Υ</b> 44'33	0.02704 AU
morning max el	4149 May 16 00:29	$29^{\circ}$ \begin{pmatrix} \text{08.32} \\ 29^{\circ}\begin{pmatrix} \text{03'13} \\ \text{13'} \\ \te	27°42'59	direct	4150 Apr 14 06:26	3°Υ09'18	
morning max er	4149 May 16 00:29 4149 May 16 22:56	0° <b>8</b>	21 42 39	desc. node	4150 Apr 17 22:07	3° <b>Υ</b> 48'23	
	4149 Jun 07 02:36	0°II		morning max el	4150 Apr 28 06:46	11° <b>Υ</b> 07'57	27°50'18
morning set	4149 Jun 17 07:47	19° <b>∏</b> 34'32		morning max cr	4150 May 13 02:58	0°8	27 30 10
asc. node	4149 Jun 21 01:52	27° <b>II</b> 30'53			4150 May 30 10:32	0°II	
use. Houe	4149 Jun 22 05:24	0°95		morning set	4150 Jun 01 08:06	3° <b>П</b> 47'10	
max. Earth dist.	4149 Jun 23 11:49	2° <b>©</b> 45'59	1.32091 AU	max. Earth dist.	4150 Jun 06 18:55	15° <b>Ⅱ</b> 08'45	1.32575 AU
	,	,	-10-07-1-10	asc. node	4150 Jun 07 22:52	17° <b>Ⅲ</b> 39'01	
superior conj	4149 Jun 24 13:48	5° <b>©</b> 08'38	0°35'59			-,,	
minimum elong	4149 Jun 24 12:16	5°900'11	0°35'40	superior conj	4150 Jun 08 22:39	19° <b>∏</b> 47'37	0°10'22
evening rise	4149 Jul 01 09:34	20°901'27		minimum elong	4150 Jun 08 22:09	19° <b>Ⅱ</b> 44'57	0°10'15
Č	4149 Jul 06 06:04	$0^{\circ}\Omega$		behind sun begin	4150 Jun 08 18:08	19° <b>Ⅲ</b> 23′10	
	4149 Jul 25 12:42	0° <b>m</b>		behind sun end	4150 Jun 09 02:11	20° <b>Ⅱ</b> 06'46	
desc. node	4149 Jul 28 00:21	2°m/35'23			4150 Jun 13 15:16	0ಂಣ	
evening max el	4149 Jul 28 08:55	2° m 56'04	25°21'59	evening rise	4150 Jun 15 21:23	4° <b>9</b> 50'31	
retrograde	4149 Aug 11 08:03	10°M 01'03			4150 Jun 29 07:32	$0^{\circ}\Omega$	
evening set	4149 Aug 17 02:57	8° <b>m</b> 43'39		evening max el	4150 Jul 09 22:07	13° <b>Ω</b> 28'42	23°49'23
min. Earth dist.	4149 Aug 21 20:45	6° № 03'05	0.57836 AU	desc. node	4150 Jul 14 21:21	17° <b>Ω</b> 29'47	
inferior conj	4149 Aug 24 22:53	3° Mp 55'27	-5°10'20	retrograde	4150 Jul 23 14:55	20° <b>Ω</b> 21'48	
minimum elong	4149 Aug 25 00:26	3° <b>m</b> 52'45	5°10'15	evening set	4150 Jul 27 23:28	19° <b>Ω</b> 40′00	
	4149 Aug 31 21:32	$30^{\circ}$ R $\Omega$		min. Earth dist.	4150 Aug 03 08:17	16° <b>Ω</b> 37'19	0.56119 AU
morning rise	4149 Sep 02 00:14	29° <b>Ω</b> 40′00		inferior conj	4150 Aug 05 15:14	15° <b>Ω</b> 14'05	-4°59'42
direct	4149 Sep 04 12:47	29° <b>Ω</b> 20'42		minimum elong	4150 Aug 05 10:44	15° <b>Ω</b> 20'56	4°59'13
	4149 Sep 08 00:29	0° <b>m</b>		morning rise	4150 Aug 14 00:32	11° <b>Ω</b> 17'37	
morning max el	4149 Sep 13 04:54	3° <b>™</b> 27'08	18°55'57	direct	4150 Aug 16 19:17	10° <b>Ω</b> 58′00	
asc. node	4149 Sep 17 01:06	7° <b>m</b> 50'07		morning max el	4150 Aug 26 21:47	15° <b>Ω</b> 39'36	19°59'32
morning set	4149 Sep 29 19:21	0° <b>ჲ</b> 00'52		asc. node	4150 Sep 03 22:08	25° <b>Ω</b> 52′13	
	4149 Sep 29 19:10	0∘ <b>ত</b>			4150 Sep 06 09:23	0° <b>™</b>	
				morning set	4150 Sep 13 23:29	14° <b>m</b> 33'41	
superior conj	4149 Oct 08 05:26	16° <b>≙</b> 29'02	1°34'31				

superior conj	4150 Sep 21 17:31	0° <b>£</b> 19'21	1°43'00		4151 Aug 29 15:56	0° m	
minimum elong	4150 Sep 21 18:26	0° <b>£</b> 23'58	1°42'58		1131 114g 25 13.30	پر ∨	
	4150 Sep 21 13:39	0∘ <b>⊽</b>		superior conj	4151 Sep 05 15:37	14° <b>m</b> ) 39'15	1°43'36
max. Earth dist.	4150 Sep 27 08:52	11° <b>≏</b> 18'39	1.36965 AU	minimum elong	4151 Sep 05 15:04	14° <b>m</b> 36'21	1°43'35
evening rise	4150 Oct 01 04:09	18° <b>≏</b> 20'55		max. Earth dist.	4151 Sep 09 19:38	23° <b>m</b> 09'44	1.35172 AU
	4150 Oct 07 21:04	0° <b>M</b> .			4151 Sep 13 07:23	0∘ <b>⊽</b>	
desc. node	4150 Oct 10 20:41	4°M53'27		evening rise	4151 Sep 14 01:57	1° <b>≏</b> 28'38	
	4150 Oct 28 06:58	0°⊀		desc. node	4151 Sep 27 17:43	25° <b>ჲ</b> 08'56	
evening max el	4150 Nov 05 21:57	9° <b>∡</b> ¹45'04	25°40'44		4151 Sep 30 21:27	$0^{\circ}$ M	
retrograde	4150 Nov 18 04:56	16° <b>∡</b> ¹47'17		evening max el	4151 Oct 19 10:25	23°M24'38	26°39'32
evening set	4150 Nov 24 05:21	14° <b>≯</b> 17′23			4151 Oct 28 21:09	0° <b>∡</b> ¹	
min. Earth dist.	4150 Nov 28 13:41	9° <b>∡</b> 33'03	0.67046 AU	retrograde	4151 Nov 01 10:13	0° <b>∡</b> ³39'51	
inferior conj	4150 Nov 29 20:30	7° <b>∡</b> 754'59	-0°21'17		4151 Nov 04 18:03	30°RM	
minimum elong	4150 Nov 29 21:03	7° <b>≯</b> 53'14	0°21'02	evening set	4151 Nov 07 23:29	28° <b>™</b> 00'44	
asc. node	4150 Nov 30 21:21	6° <b>∡</b> ³36'44		min. Earth dist.	4151 Nov 12 00:57	23°M52'01	0.66037 AU
morning rise	4150 Dec 05 13:08	2° <b>∡</b> 01'21		inferior conj	4151 Nov 13 19:19	21°M46'10	
direct	4150 Dec 08 20:13	0° ₹ 58'55		minimum elong	4151 Nov 13 21:33	21°M39'31	1°19'50
morning max el	4150 Dec 15 19:54	4° <b>≯</b> 52'08	19°09'11	asc. node	4151 Nov 17 18:24	17°M31'43	
	4151 Jan 02 19:24	0°る		morning rise	4151 Nov 19 20:22	16°M03'19	
desc. node	4151 Jan 06 19:59	6°る14'20		direct	4151 Nov 22 17:54	15°M16'29	10025147
morning set	4151 Jan 07 23:13	8°る00'10 29°る55'40	1 44011 411	morning max el	4151 Nov 29 08:11	18°M51'48	18°25'47
max. Earth dist.	4151 Jan 21 23:57 4151 Jan 22 01:03		1.44911 AU		4151 Dec 07 19:33	0° 🔏	
	4151 Jan 22 01:03	0° <b>≈</b>		morning set desc. node	4151 Dec 19 03:12 4151 Dec 24 17:01	17° <b>₹</b> 55'07 26° <b>₹</b> 49'52	
superior conj	4151 Jan 24 16:11	4°≈09'20	1944'03	desc. node	4151 Dec 26 16:53	20 x·49 32	
minimum elong	4151 Jan 24 07:29	4 ≈09 20 3°≈34'52			4131 Dec 20 10.33	0.0	
evening rise	4151 Feb 08 08:36	3 ≈34 32 27°≈51'54	1 43 19	superior conj	4152 Jan 03 18:50	12° <b>る</b> 44'24	-1°05'26
evening rise	4151 Feb 09 15:44	0° <b>)</b> €		minimum elong	4152 Jan 03 10:55	12°る13'19	
asc. node	4151 Feb 26 20:37	26° <b>)</b> 18'14		max. Earth dist.	4152 Jan 04 18:28	12 <b>3</b> 1319	1.45272 AU
evening max el	4151 Feb 28 04:14	27° <b>)</b> (43'48	18°29'38	man. Darm uibt.	4152 Jan 14 19:00	0°≈	1.102/2110
evening man er	4151 Mar 02 20:54	0°Υ	10 2,50	evening rise	4152 Jan 19 19:37	7°≈54'46	
retrograde	4151 Mar 06 16:48	1° <b>Υ</b> 18'03		greatest brilliancy	4152 Jan 29 20:41	23° <b>≈</b> 42'27	-0.8m
evening set	4151 Mar 09 19:09	0° <b>Υ</b> 24'35		8	4152 Feb 02 23:46	0° <b>)</b> €	
· ·	4151 Mar 10 10:55	30° <b>₹</b>		evening max el	4152 Feb 11 13:45	11° <b>)(</b> 13'35	19°07'03
inferior conj	4151 Mar 15 14:33	24° <b>)</b> 52′57	3°35'55	asc. node	4152 Feb 13 17:40	13° <b>¥</b> 11′10	
minimum elong	4151 Mar 15 14:10	24° <b>)</b> 54′06	3°35'55	retrograde	4152 Feb 18 12:19	15° <b>)</b> 09′51	
min. Earth dist.	4151 Mar 17 17:52	22° <b>)</b> €21'52	0.64563 AU	evening set	4152 Feb 21 21:24	14° <b>)</b> €03'27	
morning rise	4151 Mar 21 08:31	18° <b>)</b> 42′10		inferior conj	4152 Feb 27 10:46	8° <b>)</b> 15′32	3°25'31
direct	4151 Mar 28 03:03	15° <b>)</b> 53′09		minimum elong	4152 Feb 27 09:10	8° <b>∺</b> 20′39	3°25'19
desc. node	4151 Apr 04 19:10	18° <b>)</b> 45′00		min. Earth dist.	4152 Feb 28 22:44	6° <b>¥</b> 21′02	0.66047 AU
morning max el	4151 Apr 10 16:19	23° <b>)</b> 47′23	27°21'45	morning rise	4152 Mar 03 20:34	2° <b>)</b> €01'55	
	4151 Apr 16 05:50	$0$ ° $\mathbf{\gamma}$			4152 Mar 06 19:54	30° <b>R</b> ≈	
	4151 May 06 11:17	$0^{\circ}$ 8		direct	4152 Mar 10 06:27	29° <b>≈</b> 12'40	
morning set	4151 May 15 24:00	17° <b>8</b> 31'12			4152 Mar 13 23:15	0° <b>∀</b>	
max. Earth dist.	4151 May 20 17:52		1.33497 AU	desc. node	4152 Mar 21 16:14	5° <b>¥</b> 26′02	
	4151 May 22 03:53	$\Pi$ $^{\circ}0$		morning max el	4152 Mar 23 02:17	6° <b>)</b> 49'16	26°23'47
					4152 Apr 10 00:51	0° <b>Υ</b>	
superior conj	4151 May 24 03:10	4° <b>Ⅱ</b> 08'50			4152 Apr 27 20:10	0°8	
minimum elong	4151 May 24 04:05	4° <b>Ⅱ</b> 13'38	0°1/2/	morning set	4152 Apr 28 03:54	0° <b>8</b> 36'17	1 24007 ATT
asc. node	4151 May 25 19:54	7° <b>I</b> I45′28		max. Earth dist.	4152 May 02 05:36	8° <b>8</b> 25'24	1.34887 AU
evening rise	4151 May 31 08:35	19° <b>Ⅲ</b> 32'53 0° <b>©</b>		aumoriar aoni	4152 May 07 01:06	18° <b>8</b> 05'54	0016110
evening max el	4151 Jun 05 11:58 4151 Jun 21 12:55	0 so 23°S52'55	22012130	superior conj minimum elong	4152 May 07 01:06 4152 May 07 03:37	18° <b>8</b> 18'46	
desc. node	4151 Jul 01 18:23	0° <b>Ω</b> 00'09	22 12 39	asc. node	4152 May 11 16:56	27° <b>8</b> 46'23	0 40 20
desc. Hode	4151 Jul 01 18:06	0° <b>Ω</b>		asc. node	4152 May 12 18:32	0°Ⅱ	
retrograde	4151 Jul 04 10:06	0° <b>Ω</b> 16'29		evening rise	4152 May 14 17:14	4°П02'35	
evening set	4151 Jul 07 07:57	29° <b>9</b> 57'41		evening rise	4152 May 29 10:35	0°95	
	4151 Jul 07 03:26	30°RS		evening max el	4152 Jun 02 13:06	4° <b>5</b> 941'21	20°45'34
min. Earth dist.	4151 Jul 15 18:48	26°519'08	0.55044 AU	retrograde	4152 Jun 13 22:52	10°5516'09	
inferior conj	4151 Jul 16 14:40	25°951'08		evening set	4152 Jun 16 00:51	10°505'44	
minimum elong	4151 Jul 16 06:11	26°503'06		desc. node	4152 Jun 17 15:25	9° <b>5</b> 544'15	
morning rise	4151 Jul 25 06:15	22° <b>©</b> 00'36		inferior conj	4152 Jun 25 08:00	6° <b>ॐ</b> 08'31	-2°15'01
direct	4151 Jul 28 09:13	21° <b>©</b> 38'47		minimum elong	4152 Jun 25 01:45	6° <b>©</b> 17'27	
morning max el	4151 Aug 09 02:52	27° <b>©</b> 07'11	21°23'40	min. Earth dist.	4152 Jun 26 06:32	5°536'21	0.54875 AU
-	4151 Aug 11 21:54	$0^{\circ}\Omega$		morning rise	4152 Jul 04 02:11	2°504'08	
asc. node	4151 Aug 21 19:10	14° <b>Ω</b> 35′00		direct	4152 Jul 07 18:34	1° <b>©</b> 34'55	
morning set	4151 Aug 29 08:03	29° <b>Ω</b> 19′03		morning max el	4152 Jul 20 21:51	7° <b>©</b> 53'55	23°02'49

	4152 Aug 05 15:46	0°N		morning rise	4153 Jun 13 23:06	12° <b>∏</b> 02'51	
asc. node	4152 Aug 05 15:46	3° <b>Ω</b> 48'26		morning rise direct	4153 Jun 18 11:59	12 <b>П</b> 0231 11° <b>П</b> 16'49	
morning set	4152 Aug 07 16:13 4152 Aug 12 19:03	14°Ω11'12		morning max el	4153 Jul 18 11:59 4153 Jul 02 11:51	11 <b>Ⅲ</b> 1049 18° <b>Ⅱ</b> 18'04	24°45'49
morning set	4132 Aug 12 19.03	14 6611 12		morning max er	4153 Jul 02 11.31 4153 Jul 12 04:46	10 щ1004 0°9	24 43 49
aumariar aani	4152 Aug 10 20:20	29° <b>Ω</b> 18'38	1°37'36	aga mada		0 <del>3</del> 23° <b>5</b> 24'36	
superior conj	4152 Aug 19 20:30	$29^{\circ}\Omega 10^{\circ}56$		asc. node morning set	4153 Jul 25 13:16 4153 Jul 28 06:52	23 <b>32</b> 4 30 29° <b>5</b> 05'28	
minimum elong	4152 Aug 19 18:52		1 3/29	morning set			
Faul die	4152 Aug 20 04:15	0°M)	1 227/O ATT		4153 Jul 28 17:09	$0 {\circ} \Omega$	
max. Earth dist.	4152 Aug 22 15:17	5° Mp 12'33	1.33760 AU		4152 4 04 05 41	1.40.0005.4	1026104
evening rise	4152 Aug 27 13:31	15° Mp 15'38		superior conj	4153 Aug 04 05:41	14° <b>Ω</b> 09'54	
	4152 Sep 04 10:34	0° <b>亞</b>		minimum elong	4153 Aug 04 03:28	13° <b>Ω</b> 57'50	
desc. node	4152 Sep 13 14:44	15° <b>Ω</b> 01'54		max. Earth dist.	4153 Aug 05 19:31		1.32766 AU
	4152 Sep 24 14:18	0°M	27016155	evening rise	4153 Aug 11 11:06	29° <b>Ω</b> 31'34	
evening max el	4152 Sep 30 22:47	6°M52'13	27°16'55		4153 Aug 11 16:40	0° <b>m</b>	
retrograde	4152 Oct 14 09:42	14°M10'34			4153 Aug 28 12:31	0° <b>⊡</b>	
evening set	4152 Oct 21 09:05	11°M29'41	0.64604.444	desc. node	4153 Aug 31 11:45	4° <b>£</b> 23'07	27026112
min. Earth dist.	4152 Oct 25 04:30	7°M55'52	0.64684 AU	evening max el	4153 Sep 13 09:16	19° <b>£</b> 55'36	27°26'13
inferior conj	4152 Oct 27 10:54	5°M27'58		retrograde	4153 Sep 27 02:32	27° <b>Ω</b> 11'10	
minimum elong	4152 Oct 27 14:56	5°M16'59	2°20'52	evening set	4153 Oct 04 07:02	24° <b>Ω</b> 38'37	0.62010.144
morning rise	4152 Nov 02 21:56	29° <b>£</b> 58'52		min. Earth dist.	4153 Oct 07 22:21	21° <b>Ω</b> 35'51	0.63010 AU
	4152 Nov 02 20:56	30° <b>₹</b> Ω		inferior conj	4153 Oct 10 16:34	18° <b>£</b> 54'23	
asc. node	4152 Nov 03 15:28	29° <b>£</b> 41'57		minimum elong	4153 Oct 10 22:05	18° <b>≏</b> 40'52	3°21'24
direct	4152 Nov 05 12:20	29° <b>₽</b> 23'38		morning rise	4153 Oct 17 14:40	13° <b>≏</b> 42'28	
	4152 Nov 08 03:51	0°M		direct	4153 Oct 20 00:37	13° <b>Ω</b> 15'13	
morning max el	4152 Nov 12 00:03	2°M50'18	17°59'07	asc. node	4153 Oct 21 12:30	13° <b>Ω</b> 25'56	
morning set	4152 Nov 29 12:27	29°M16'30		morning max el	4153 Oct 26 16:35	16° <b>≏</b> 41'18	17°50'04
	4152 Nov 29 22:50	0°⊀			4153 Nov 05 02:58	0°M₊	
desc. node	4152 Dec 10 14:02	17° <b>∡</b> 32′29		morning set	4153 Nov 11 21:57	11°M48'03	
					4153 Nov 22 10:40	0°⊀	
superior conj	4152 Dec 13 05:31	21° <b>₹</b> 47'57					
minimum elong	4152 Dec 13 03:19	21° <b>∡</b> ³39′07		superior conj	4153 Nov 23 15:36	2° <b>≯</b> 01'18	0°26'22
max. Earth dist.	4152 Dec 17 13:29	28° <b>∡</b> ′41'17	1.44896 AU	minimum elong	4153 Nov 23 18:10	2° <b>≯</b> 12'01	0°26'01
	4152 Dec 18 09:27	0°る		desc. node	4153 Nov 27 11:04	8° <b>≯</b> 18'59	
evening rise	4152 Dec 29 11:37	17° <b>る</b> 15'20		max. Earth dist.	4153 Nov 30 06:25	12° <b>₹</b> 52'00	1.43831 AU
	4153 Jan 06 19:29	0° <b>≈</b>		evening rise	4153 Dec 08 21:17	26° <b>₹</b> 26'53	
greatest brilliancy	4153 Jan 12 19:37	9° <b>≈</b> 00'13	-0.6m		4153 Dec 11 04:43	0°る	
evening max el	4153 Jan 24 18:48	24°≈45'43	20°00'25		4153 Dec 31 19:33	0° <b>≈</b>	210005
asc. node	4153 Jan 30 14:44	28°≈55'11		evening max el	4154 Jan 07 18:22	8°≈18'49	21°06'59
retrograde	4153 Feb 01 10:09	29°≈12'52		retrograde	4154 Jan 16 08:02	13°≈23'21	
evening set	4153 Feb 05 03:15	27°≈52'29	2902104	asc. node	4154 Jan 17 11:47	13°≈16'04	
inferior conj	4153 Feb 10 13:05	21°≈50'33	3°03'04 3°02'34	evening set	4154 Jan 20 10:47 4154 Jan 25 19:08	11°≈47'49	2°31'00
minimum elong	4153 Feb 10 10:48	21°≈58'14		inferior conj	4154 Jan 25 16:39	5°≈34'32	
min. Earth dist.	4153 Feb 11 10:48	20°≈37'43	0.67112 AU	minimum elong min. Earth dist.	4154 Jan 26 03:59	5°≈43'04	0.67760 AU
morning rise	4153 Feb 15 18:07	15°≈36'31		min. Earth dist.		5°≈03'58 30°Rる	0.67760 AU
direct morning max el	4153 Feb 21 15:31 4153 Mar 05 11:06	12°≈58'30 20°≈02'11	25°05'47	morning rise	4154 Jan 30 06:11 4154 Jan 30 22:21	30 KO 29° <b>る</b> 21'47	
desc. node			23 0347	direct		29 <b>3</b> 2147 27° <b>3</b> 02'37	
desc. node	4153 Mar 08 13:16 4153 Mar 13 23:49	23°≈21'50 0°¥		direct	4154 Feb 05 05:16 4154 Feb 12 02:11	27 <b>3</b> 0237 0° <b>≈</b>	
		0 <del>Υ</del> 0° <b>Υ</b>		morning max el		0 ≈ 3°≈21'14	22027157
morning set	4153 Apr 03 04:33 4153 Apr 10 15:04	12° <b>Υ</b> 48'48		desc. node	4154 Feb 15 19:43 4154 Feb 23 10:18	12°≈11'02	23 3131
max. Earth dist.	•	$12^{\circ}$ $7^{\circ}$ $48^{\circ}$ $48^{\circ}$ $19^{\circ}$ $\Upsilon$ $27^{\circ}$ $01^{\circ}$	1.36711 AU	desc. Hode	4154 Mar 08 04:09	0° <b>∀</b>	
max. Earm dist.	4153 Apr 14 06:23		1.30/11 AU	marning got	4154 Mar 23 03:28		
	4153 Apr 19 18:59	0°8		morning set		23° <b>¥</b> 52'31 0° <b>Ƴ</b>	
	4152 4 20 12.22	1° <b>8</b> 31'04	1015121	Easth diet	4154 Mar 26 16:35	0° <b>Υ</b> 40'51	1.38833 AU
superior conj minimum elong	4153 Apr 20 13:32	1° <b>8</b> 50'47		max. Earth dist.	4154 Mar 27 01:53	0 14031	1.38633 AU
_	4153 Apr 20 17:32	18° <b>8</b> 13'16	1 14 32	aumarian aani	4154 Apr. 02 12:41	14° <b>Ƴ</b> 14'14	1041112
evening rise asc. node	4153 Apr 28 21:05	17° <b>8</b> 37'36		superior conj	4154 Apr 03 12:41	14 <b>γ</b> 14 14 14° <b>γ</b> 36'42	
asc. node	4153 Apr 28 14:00	0° <b>Ⅱ</b>		minimum elong	4154 Apr 03 17:28	0° <b>8</b>	1 40 40
	4153 May 04 22:27		10025150		4154 Apr 11 17:20		
evening max el	4153 May 16 01:36	16°Ⅲ10'06 20°Ⅲ52'06	19°35'50	evening rise asc. node	4154 Apr 12 17:25	1° <b>8</b> 57'11	
retrograde	4153 May 25 17:24	20°Щ52'06 20°Щ41'19			4154 Apr 15 11:03	7° <b>8</b> 13'59	10016102
evening set	4153 May 27 16:29			evening max el	4154 Apr 29 00:58	28° <b>႘</b> 18'12	16 40 03
desc. node	4153 Jun 04 12:27	17° <b>Ⅱ</b> 10'57	0015146		4154 May 01 00:15	0°Π 2°Π18'02	
inferior conj	4153 Jun 05 09:46	16° <b>Ⅱ</b> 37'28		retrograde	4154 May 07 04:41	2°∏18'02	
minimum elong	4153 Jun 05 09:04	16° <b>Ⅱ</b> 38'34	0°15'30	evening set	4154 May 09 08:48	2° <b>I</b> 102'05	
transit middle	4153 Jun 05 09:04	16° <b>Ⅱ</b> 38'34	0°15'30	inforia	4154 May 13 21:52	30°R <b>႘</b>	1026120
transit begin	4153 Jun 05 08:07	16° <b>Ⅱ</b> 40'05		inferior conj	4154 May 17 06:20	27° <b>8</b> 40'55	
transit end	4153 Jun 05 10:01	16° <b>Ⅱ</b> 37'04	0.55((0.41)	minimum elong	4154 May 17 09:20	27° <b>8</b> 35'23	1°25'38
min. Earth dist.	4153 Jun 07 20:08	15 Щ05/35	0.55668 AU	min. Earth dist.	4154 May 20 12:42	25° <b>8</b> 17'46	0.57254 AU

	415434 22 00 20	240 402122			415534 06 07 24	20 4 47102	
desc. node	4154 May 22 09:29	24° <b>8</b> 03'23		morning rise	4155 May 06 07:34	3° <b>8</b> 47'23	
morning rise	4154 May 25 06:38	22° <b>8</b> 30'47		desc. node	4155 May 09 06:31	2° <b>8</b> 29'16	
direct	4154 May 30 18:49	21° <b>8</b> 16'44		direct	4155 May 12 15:15	1° <b>8</b> 58'16	
morning max el	4154 Jun 14 03:15	28° <b>8</b> 47'13	26°17'08	morning max el	4155 May 27 00:22	9° <b>8</b> 47'08	27°21'44
	4154 Jun 15 08:23	$\Pi^{\circ}0$			4155 Jun 11 13:19	$\Pi$ $^{\circ}0$	
	4154 Jul 05 18:42	$0$ $\circ$		morning set	4155 Jun 27 02:08	28° <b>Ⅱ</b> 35'56	
asc. node	4154 Jul 12 10:18	13° <b>©</b> 16'01			4155 Jun 27 18:10	$0$ $\circ$ $\infty$	
morning set	4154 Jul 12 17:47	13° <b>©</b> 55'26		asc. node	4155 Jun 29 07:20	3° <b>©</b> 17'33	
				max. Earth dist.	4155 Jul 03 16:57	12° <b>©</b> 53'13	1.32008 AU
superior conj	4154 Jul 19 17:02	29° <b>©</b> 05'05	1°09'47				
minimum elong	4154 Jul 19 14:43	28° <b>©</b> 52'19	1°09'24	superior conj	4155 Jul 04 04:47	13° <b>©</b> 58'31	0°49'23
max. Earth dist.	4154 Jul 20 05:16	0° <b>Ω</b> 12'31	1.32183 AU	minimum elong	4155 Jul 04 02:50	13° <b>©</b> 47'45	0°48'59
	4154 Jul 20 03:00	$0^{\circ}\Omega$		evening rise	4155 Jul 11 00:29	28° <b>©</b> 50'51	
evening rise	4154 Jul 26 15:34	14° <b>Ω</b> 05'47		<i>5</i>	4155 Jul 11 13:34	$0^{\circ}\Omega$	
	4154 Aug 03 17:40	0° m			4155 Jul 28 04:10	0° m)	
desc. node	4154 Aug 18 08:45	22° m/ 58'33		desc. node	4155 Aug 05 05:46	10° <b>m</b> ) 29'37	
dese. Hode	4154 Aug 24 07:07	0ಂ <del>ರ</del>		evening max el	4155 Aug 08 13:39	13° <b>m</b> 56'30	26°06'51
evening max el	4154 Aug 26 15:00		27°02'59	retrograde	4155 Aug 22 12:59	21°Mp05'15	20 0031
Č	_	2 <b>=</b> 20 02 9° <b>£</b> 31'49	27 02 39	evening set	-		
retrograde	4154 Sep 09 11:59			Č	4155 Aug 28 22:53	19° Mp 25'29	0.50000 ATT
evening set	4154 Sep 16 13:14	7° <b>£</b> 19'40	0.61064.444	min. Earth dist.	4155 Sep 02 02:21	16° Mp 50'16	0.58989 AU
min. Earth dist.	4154 Sep 20 05:17	4° <b>£</b> 38'43	0.61064 AU	inferior conj	4155 Sep 05 08:37	14° m/24'06	
inferior conj	4154 Sep 23 08:58	1° <b>≏</b> 56'13		minimum elong	4155 Sep 05 12:41	14° Mp 16'28	4°58'06
minimum elong	4154 Sep 23 14:55	1° <b>≏</b> 43′24	4°16'43	morning rise	4155 Sep 13 04:42	9° <b>m</b> 56'01	
	4154 Sep 25 16:53	30°R, Mp		direct	4155 Sep 15 14:45	9° <b>™</b> 36'18	
morning rise	4154 Sep 30 18:28	27° Mp 05'06		morning max el	4155 Sep 23 15:03	13°Mp27'35	18°29'21
direct	4154 Oct 03 02:56	26° Mp 42'48		asc. node	4155 Sep 25 06:34	15° <b>m</b> 11'05	
asc. node	4154 Oct 08 09:32	28° <b>m</b> 39'55			4155 Oct 04 21:16	0∘ <b>⊽</b>	
	4154 Oct 09 23:44	0∘ <b>⊽</b>		morning set	4155 Oct 09 17:04	9° <b>£</b> 07'24	
morning max el	4154 Oct 10 06:41	0° <b>≏</b> 16'38	17°59'42				
morning set	4154 Oct 26 01:14	25° <b>♀</b> 09'57		superior conj	4155 Oct 18 15:38	26° <b>₽</b> 09'56	1°25'27
	4154 Oct 28 16:08	0° <b>M</b> .		minimum elong	4155 Oct 18 19:05	26° <b>£</b> 25'58	1°25'06
					4155 Oct 20 17:39	0°M	
superior conj	4154 Nov 05 04:18	13°M32'29	1°01'27	max. Earth dist.	4155 Oct 26 01:40	9°M28'59	1.40209 AU
minimum elong	4154 Nov 05 08:25	13°ML50'39	1°00'56	evening rise	4155 Oct 30 08:47	16° <b>M</b> 47'01	
max. Earth dist.	4154 Nov 12 18:47	26°MJ32'07	1.42198 AU	desc. node	4155 Nov 01 05:04	19° <b>M</b> 49'44	
desc. node	4154 Nov 14 08:04	29°M05'54	1.12170710	dese. Hode	4155 Nov 07 14:24	0° <b>⊼</b> ″	
dese. Hode	4154 Nov 14 21:17	0° <b>⊼</b> ¹			4155 Nov 29 02:59	°ਤ ਹ°ਤ	
evening rise	4154 Nov 18 16:40	6° <b>∡</b> 708'16		evening max el	4155 Dec 04 02:54	ა ට 5° <b>ට</b> 30'15	23°42'48
evening rise		0.오.0910		C	4155 Dec 14 21:35	11° <b>る</b> 52'03	23 42 40
	4154 Dec 04 11:17 4154 Dec 21 12:36	0 8 21° <b>る</b> 53'12	22022152	retrograde		11 032 03	
evening max el	4134 Dec 21 12:36	21.700112					
retrograde	4154 D 21 04 20		22 22 32	evening set	4155 Dec 20 00:18	9° <b>⋜</b> 44'39	
asc. node	4154 Dec 31 04:20	27° <b>る</b> 37'46	22 22 32	asc. node	4155 Dec 20 00:18 4155 Dec 22 05:49	9° <b>る</b> 44'39 7° <b>る</b> 28'35	100 1100
	4155 Jan 04 08:48	27° <b>ප්</b> 37'46 26° <b>ප්</b> 05'07	22 22 32	asc. node inferior conj	4155 Dec 20 00:18 4155 Dec 22 05:49 4155 Dec 25 10:25	9° <b>る</b> 44'39 7° <b>る</b> 28'35 3° <b>る</b> 19'17	1°04'00
evening set	4155 Jan 04 08:48 4155 Jan 04 18:20	27°る37'46 26°る05'07 25°る46'20		asc. node inferior conj minimum elong	4155 Dec 20 00:18 4155 Dec 22 05:49 4155 Dec 25 10:25 4155 Dec 25 08:58	9°る44'39 7°る28'35 3°る19'17 3°る24'11	1°03'26
inferior conj	4155 Jan 04 08:48 4155 Jan 04 18:20 4155 Jan 10 02:51	27° පි37'46 26° පි05'07 25° පි46'20 19° පි25'00	1°50'56	asc. node inferior conj	4155 Dec 20 00:18 4155 Dec 22 05:49 4155 Dec 25 10:25 4155 Dec 25 08:58 4155 Dec 24 20:45	9°ට 44'39 7°ට 28'35 3°ට 19'17 3°ට 24'11 4°ට 05'52	
inferior conj minimum elong	4155 Jan 04 08:48 4155 Jan 04 18:20 4155 Jan 10 02:51 4155 Jan 10 00:40	27°る37'46 26°る05'07 25°る46'20 19°る25'00 19°る32'33	1°50'56 1°50'10	asc. node inferior conj minimum elong min. Earth dist.	4155 Dec 20 00:18 4155 Dec 22 05:49 4155 Dec 25 10:25 4155 Dec 25 08:58 4155 Dec 24 20:45 4155 Dec 27 23:23	9°石44'39 7°石28'35 3°石19'17 3°石24'11 4°石05'52 30°Rダ	1°03'26
inferior conj minimum elong min. Earth dist.	4155 Jan 04 08:48 4155 Jan 04 18:20 4155 Jan 10 02:51 4155 Jan 10 00:40 4155 Jan 10 00:05	27°	1°50'56	asc. node inferior conj minimum elong	4155 Dec 20 00:18 4155 Dec 22 05:49 4155 Dec 25 10:25 4155 Dec 25 08:58 4155 Dec 24 20:45 4155 Dec 27 23:23 4155 Dec 30 17:38	9°♂44'39 7°♂28'35 3°♂19'17 3°♂24'11 4°♂05'52 30°₹₹ 27°₹13'43	1°03'26
inferior conj minimum elong min. Earth dist. morning rise	4155 Jan 04 08:48 4155 Jan 04 18:20 4155 Jan 10 02:51 4155 Jan 10 00:40 4155 Jan 10 00:05 4155 Jan 15 06:53	27° 337'46 26° 305'07 25° 346'20 19° 325'00 19° 332'33 19° 334'37 13° 315'00	1°50'56 1°50'10	asc. node inferior conj minimum elong min. Earth dist.	4155 Dec 20 00:18 4155 Dec 22 05:49 4155 Dec 25 10:25 4155 Dec 25 08:58 4155 Dec 24 20:45 4155 Dec 27 23:23	9°♂44'39 7°♂28'35 3°♂19'17 3°♂24'11 4°♂05'52 30°₹~ 27°~13'43 25°~39'47	1°03'26
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inferior conj minimum elong min. Earth dist. morning rise direct morning max el  desc. node  morning set max. Earth dist.  superior conj minimum elong  evening rise asc. node	4155 Jan 04 08:48 4155 Jan 04 18:20 4155 Jan 10 02:51 4155 Jan 10 00:40 4155 Jan 10 00:05 4155 Jan 15 06:53 4155 Jan 19 22:58 4155 Jan 29 07:16 4155 Feb 09 02:40 4155 Feb 10 07:20 4155 Mar 01 06:09 4155 Mar 03 11:50 4155 Mar 08 23:31 4155 Mar 16 17:53 4155 Mar 16 21:42 4155 Mar 27 02:51 4155 Apr 02 08:05 4155 Apr 04 08:44	27°337'46 26°305'07 25°346'20 19°32'33 19°334'37 13°315'00 11°318'19 16°347'46 0°≈ 1°≈38'33 0° 米 3° 米35'24 12° 米38'02 26° 米04'05 26° 米21'04 0° Υ 15° Υ06'05 26° Υ30'09 0° 엉	1°50'56 1°50'10 0.68014 AU 22°09'56 1.40998 AU -2°00'17 2°00'05	asc. node inferior conj minimum elong min. Earth dist.  morning rise direct  morning max el desc. node  morning set max. Earth dist.  superior conj minimum elong evening rise  asc. node evening max el	4155 Dec 20 00:18 4155 Dec 22 05:49 4155 Dec 25 10:25 4155 Dec 25 08:58 4155 Dec 24 20:45 4155 Dec 27 23:23 4155 Dec 30 17:38 4156 Jan 03 19:39 4156 Jan 11 15:11 4156 Jan 12 01:00 4156 Jan 28 04:19 4156 Feb 02 20:27 4156 Feb 10 17:32 4156 Feb 10 17:32 4156 Feb 21 21:59 4156 Feb 25 23:56 4156 Mar 08 21:13 4156 Mar 10 06:59 4156 Mar 10 06:59 4156 Mar 19 05:07 4156 Mar 25 19:39	9°云44'39 7°云28'35 3°云19'17 3°云24'11 4°云05'52 30°ҡ҂ 27°҂13'43 25°҂39'47 0°云 0°云24'11 21°云33'21 0°≈ 12°≈05'19 25°≈28'04 0° 米 6° 米48'32 6° 米48'32 6° 米48'16 27° 米29'41 0° ♀	1°03'26 0.67909 AU 20°49'21 1.42926 AU -2°07'50
inferior conj minimum elong min. Earth dist. morning rise direct morning max el  desc. node  morning set max. Earth dist.  superior conj minimum elong  evening rise asc. node  evening max el	4155 Jan 04 08:48 4155 Jan 04 18:20 4155 Jan 10 02:51 4155 Jan 10 00:40 4155 Jan 10 00:05 4155 Jan 15 06:53 4155 Jan 19 22:58 4155 Jan 29 07:16 4155 Feb 09 02:40 4155 Feb 10 07:20 4155 Mar 01 06:09 4155 Mar 03 11:50 4155 Mar 08 23:31 4155 Mar 16 17:53 4155 Mar 16 21:42 4155 Mar 17 02:51 4155 Mar 27 02:51 4155 Mar 20 08:05 4155 Apr 02 08:05 4155 Apr 04 08:44 4155 Apr 12 08:08	27°337'46 26°305'07 25°346'20 19°32'33 19°334'37 13°315'00 11°318'19 16°347'46 0°≈ 1°≈38'33 0°升 3°升35'24 12°升38'02 26°升04'05 26°升21'04 0°ጕ 15°ጕ06'05 26°ጕ30'09 0°坄 10°558'54	1°50'56 1°50'10 0.68014 AU 22°09'56 1.40998 AU -2°00'17	asc. node inferior conj minimum elong min. Earth dist.  morning rise direct  morning max el desc. node  morning set max. Earth dist.  superior conj minimum elong evening rise  asc. node evening max el retrograde	4155 Dec 20 00:18 4155 Dec 22 05:49 4155 Dec 25 10:25 4155 Dec 25 08:58 4155 Dec 24 20:45 4155 Dec 27 23:23 4155 Dec 30 17:38 4156 Jan 03 19:39 4156 Jan 11 15:11 4156 Jan 12 01:00 4156 Jan 28 04:19 4156 Feb 02 20:27 4156 Feb 10 17:32 4156 Feb 10 17:32 4156 Feb 21 21:59 4156 Feb 21 21:59 4156 Feb 25 23:56 4156 Mar 08 21:13 4156 Mar 10 06:59 4156 Mar 19 05:07 4156 Mar 25 19:39 4156 Apr 01 09:11	9°云44'39 7°云28'35 3°云19'17 3°云24'11 4°云05'52 30°飛メ 27°メ13'43 25°メ39'47 0°云 0°云24'11 21°云33'21 0°≈ 12°≈05'19 25°≈28'04 0°米 6°光48'32 6°光48'16 27°米29'41 0°Y 15°Y18'33 24°Y02'24 27°Y25'13	1°03'26 0.67909 AU 20°49'21 1.42926 AU -2°07'50 2°07'50
inferior conj minimum elong min. Earth dist. morning rise direct morning max el  desc. node  morning set max. Earth dist.  superior conj minimum elong  evening rise asc. node  evening max el retrograde	4155 Jan 04 08:48 4155 Jan 04 18:20 4155 Jan 10 02:51 4155 Jan 10 00:40 4155 Jan 10 00:05 4155 Jan 15 06:53 4155 Jan 19 22:58 4155 Jan 29 07:16 4155 Feb 09 02:40 4155 Feb 10 07:20 4155 Mar 01 06:09 4155 Mar 03 11:50 4155 Mar 08 23:31  4155 Mar 16 21:42 4155 Mar 18 22:29 4155 Mar 27 02:51 4155 Apr 02 08:05 4155 Apr 04 08:44 4155 Apr 12 08:08 4155 Apr 19 11:03	27°337'46 26°305'07 25°346'20 19°32'33 19°334'37 13°315'00 11°318'19 16°347'46 0°≈ 1°≈38'33 0°升 3°升35'24 12°升38'02 26°升04'05 26°升21'04 0°ጥ 15°↑06'05 26°↑30'09 0°坄 10°♂58'54 14°♂32'24	1°50'56 1°50'10 0.68014 AU 22°09'56 1.40998 AU -2°00'17 2°00'05	asc. node inferior conj minimum elong min. Earth dist.  morning rise direct  morning max el desc. node  morning set max. Earth dist.  superior conj minimum elong evening rise  asc. node evening max el retrograde evening set	4155 Dec 20 00:18 4155 Dec 22 05:49 4155 Dec 25 10:25 4155 Dec 25 08:58 4155 Dec 24 20:45 4155 Dec 27 23:23 4155 Dec 30 17:38 4156 Jan 03 19:39 4156 Jan 11 15:11 4156 Jan 12 01:00 4156 Feb 02 20:27 4156 Feb 10 17:32 4156 Feb 10 17:32 4156 Feb 21 21:59 4156 Feb 21 21:59 4156 Feb 25 23:56 4156 Mar 08 21:13 4156 Mar 10 06:59 4156 Mar 10 06:59 4156 Mar 25 19:39 4156 Apr 01 09:11 4156 Apr 04 02:09	9°云44'39 7°云28'35 3°云19'17 3°云24'11 4°云05'52 30°飛メ 27°メ13'43 25°メ39'47 0°云 0°云24'11 21°云33'21 0°≈ 12°≈05'19 25°≈28'04 0°沃 6°光48'32 6°光48'32 6°光48'16 27°光29'41 0°Ƴ 15°Ƴ18'33 24°Ŷ02'24 27°Ŷ25'13 26°Ŷ50'29	1°03'26 0.67909 AU 20°49'21 1.42926 AU -2°07'50 2°07'50
inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.  superior conj minimum elong evening rise asc. node  evening max el retrograde evening set	4155 Jan 04 08:48 4155 Jan 04 18:20 4155 Jan 10 02:51 4155 Jan 10 00:40 4155 Jan 10 00:05 4155 Jan 15 06:53 4155 Jan 19 22:58 4155 Jan 29 07:16 4155 Feb 09 02:40 4155 Feb 10 07:20 4155 Mar 01 06:09 4155 Mar 03 11:50 4155 Mar 08 23:31  4155 Mar 16 17:53 4155 Mar 16 21:42 4155 Mar 18 22:29 4155 Mar 27 02:51 4155 Apr 02 08:05 4155 Apr 04 08:44 4155 Apr 12 08:08 4155 Apr 19 11:03 4155 Apr 21 21:45	27°337'46 26°305'07 25°346'20 19°32'33 19°334'37 13°315'00 11°318'19 16°347'46 0°≈ 1°≈38'33 0°升 3°升35'24 12°升38'02 26°升04'05 26°升21'04 0°Y 15°Y06'05 26°Y30'09 0°႘ 10°႘58'54 14°႘32'24 14°႘08'06	1°50'56 1°50'10 0.68014 AU 22°09'56 1.40998 AU -2°00'17 2°00'05	asc. node inferior conj minimum elong min. Earth dist.  morning rise direct  morning max el desc. node  morning set max. Earth dist.  superior conj minimum elong evening rise  asc. node evening max el retrograde evening set inferior conj	4155 Dec 20 00:18 4155 Dec 22 05:49 4155 Dec 25 10:25 4155 Dec 25 08:58 4155 Dec 24 20:45 4155 Dec 27 23:23 4155 Dec 30 17:38 4156 Jan 03 19:39 4156 Jan 11 15:11 4156 Jan 12 01:00 4156 Feb 02 20:27 4156 Feb 10 17:32 4156 Feb 10 17:32 4156 Feb 21 21:59 4156 Feb 21 21:59 4156 Feb 25 23:56 4156 Mar 08 21:13 4156 Mar 10 06:59 4156 Mar 10 05:07 4156 Mar 25 19:39 4156 Apr 01 09:11 4156 Apr 04 02:09 4156 Apr 10 13:41	9°云44'39 7°云28'35 3°云19'17 3°云24'11 4°云05'52 30°ҡ҂ 27°҂13'43 25°҂3'39'47 0°云 0°云24'11 21°云33'21 0°≈ 12°≈05'19 25°≈28'04 0°ዧ 6°ዧ48'32 6°ዧ48'16 27°ዧ29'41 0°♈ 15°℉18'33 24°℉02'24 27°℉25'13 26°℉50'29 21°℉48'44	1°03'26 0.67909 AU 20°49'21 1.42926 AU -2°07'50 2°07'50 18°06'49 3°18'36
inferior conj minimum elong min. Earth dist. morning rise direct morning max el  desc. node  morning set max. Earth dist.  superior conj minimum elong  evening rise asc. node  evening max el retrograde evening set inferior conj	4155 Jan 04 08:48 4155 Jan 04 18:20 4155 Jan 10 02:51 4155 Jan 10 00:05 4155 Jan 15 06:53 4155 Jan 19 22:58 4155 Jan 29 07:16 4155 Feb 09 02:40 4155 Feb 10 07:20 4155 Mar 01 06:09 4155 Mar 03 11:50 4155 Mar 08 23:31  4155 Mar 16 17:53 4155 Mar 16 21:42 4155 Mar 18 22:29 4155 Mar 27 02:51 4155 Apr 02 08:05 4155 Apr 12 08:08 4155 Apr 19 11:03 4155 Apr 21 21:45 4155 Apr 22 00:29	27°337'46 26°305'07 25°346'20 19°32'33 19°334'37 13°315'00 11°318'19 16°347'46 0°≈ 1°≈38'33 0°升 3°升35'24 12°升38'02 26°升04'05 26°升21'04 0°Y 15°Y06'05 26°Y30'09 0°႘ 10°႘58'54 14°႘32'24 14°႘08'06 9°႘26'35	1°50'56 1°50'10 0.68014 AU 22°09'56 1.40998 AU -2°00'17 2°00'05	asc. node inferior conj minimum elong min. Earth dist.  morning rise direct  morning max el desc. node  morning set max. Earth dist.  superior conj minimum elong evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong	4155 Dec 20 00:18 4155 Dec 22 05:49 4155 Dec 25 10:25 4155 Dec 25 08:58 4155 Dec 24 20:45 4155 Dec 27 23:23 4155 Dec 30 17:38 4156 Jan 03 19:39 4156 Jan 11 15:11 4156 Jan 12 01:00 4156 Feb 02 20:27 4156 Feb 10 17:32 4156 Feb 10 17:32 4156 Feb 21 21:59  4156 Feb 25 23:56 4156 Mar 08 21:13 4156 Mar 10 06:59 4156 Mar 10 06:59 4156 Apr 01 09:11 4156 Apr 04 02:09 4156 Apr 10 13:41 4156 Apr 10 13:41 4156 Apr 10 15:57	9°云44'39 7°云28'35 3°云19'17 3°云24'11 4°云05'52 30°戌メ 27°メ13'43 25°メ39'47 0°云 0°云24'11 21°云33'21 0°≈ 12°≈05'19 25°≈28'04 0°升 6°光48'32 6°光48'16 27°光29'41 0°ጥ 15°Υ18'33 24°Υ02'24 27°Υ25'13 26°Υ50'29 21°Υ48'44 21°Υ43'05	1°03'26 0.67909 AU 20°49'21 1.42926 AU -2°07'50 2°07'50 18°06'49 3°18'36 3°18'18
inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.  superior conj minimum elong evening rise asc. node  evening max el retrograde evening set	4155 Jan 04 08:48 4155 Jan 04 18:20 4155 Jan 10 02:51 4155 Jan 10 00:40 4155 Jan 10 00:05 4155 Jan 15 06:53 4155 Jan 19 22:58 4155 Jan 29 07:16 4155 Feb 09 02:40 4155 Feb 10 07:20 4155 Mar 01 06:09 4155 Mar 03 11:50 4155 Mar 08 23:31  4155 Mar 16 17:53 4155 Mar 16 21:42 4155 Mar 18 22:29 4155 Mar 27 02:51 4155 Apr 02 08:05 4155 Apr 04 08:44 4155 Apr 12 08:08 4155 Apr 19 11:03 4155 Apr 21 21:45	27°337'46 26°305'07 25°346'20 19°32'33 19°334'37 13°315'00 11°318'19 16°347'46 0°≈ 1°≈38'33 0°升 3°升35'24 12°升38'02 26°升04'05 26°升21'04 0°Y 15°Y06'05 26°Y30'09 0°႘ 10°႘58'54 14°႘32'24 14°႘08'06	1°50'56 1°50'10 0.68014 AU 22°09'56 1.40998 AU -2°00'17 2°00'05	asc. node inferior conj minimum elong min. Earth dist.  morning rise direct  morning max el desc. node  morning set max. Earth dist.  superior conj minimum elong evening rise  asc. node evening max el retrograde evening set inferior conj	4155 Dec 20 00:18 4155 Dec 22 05:49 4155 Dec 25 10:25 4155 Dec 25 08:58 4155 Dec 24 20:45 4155 Dec 27 23:23 4155 Dec 30 17:38 4156 Jan 03 19:39 4156 Jan 11 15:11 4156 Jan 12 01:00 4156 Feb 02 20:27 4156 Feb 10 17:32 4156 Feb 10 17:32 4156 Feb 21 21:59 4156 Feb 21 21:59 4156 Feb 25 23:56 4156 Mar 08 21:13 4156 Mar 10 06:59 4156 Mar 10 05:07 4156 Mar 25 19:39 4156 Apr 01 09:11 4156 Apr 04 02:09 4156 Apr 10 13:41	9°云44'39 7°云28'35 3°云19'17 3°云24'11 4°云05'52 30°ҡ҂ 27°҂13'43 25°҂3'39'47 0°云 0°云24'11 21°云33'21 0°≈ 12°≈05'19 25°≈28'04 0°ዧ 6°ዧ48'32 6°ዧ48'16 27°ዧ29'41 0°♈ 15°℉18'33 24°℉02'24 27°℉25'13 26°℉50'29 21°℉48'44	1°03'26 0.67909 AU 20°49'21 1.42926 AU -2°07'50 2°07'50 18°06'49 3°18'36

4:	4156 A 22 22.55	1200020125		: <i>C</i> :	4157 M 24 17:54	400020120	2025104
direct	4156 Apr 23 22:55	13° <b>Y</b> 29'35		inferior conj	4157 Mar 24 17:54	4° <b>Υ</b> 39'28 4° <b>Υ</b> 38'00	3°35'04
desc. node morning max el	4156 Apr 25 03:32	13° <b>Y</b> '33'43 21° <b>Y</b> '27'42	27950120	minimum elong min. Earth dist.	4157 Mar 24 18:26	1° <b>Υ</b> 51'50	3°35'04 0.63540 AU
morning max er	4156 May 08 03:38 4156 May 15 14:06	0° <b>8</b>	27 30 39	mm. Earm dist.	4157 Mar 27 06:16 4157 Mar 29 02:07	1 13130 30° <b>₹</b>	0.03340 AU
	4156 Jun 03 14:20	0°II		morning rise	4157 Mar 30 18:15	28° <b>)</b> 32'11	
morning set	4156 Jun 10 06:02	13° <b>Ⅱ</b> 00'34		direct	4157 Apr 06 15:22	25° <b>H</b> 49'01	
asc. node	4156 Jun 15 04:22	23° <b>II</b> 24'23		desc. node	4157 Apr 12 00:35	27° <b>)</b> 14'10	
max. Earth dist.	4156 Jun 16 02:38		1.32241 AU	desc. node	4157 Apr 16 06:29	0° <b>Υ</b>	
man zarur urov.	1100 0411 10 02.50	20 22.00	1.522 11 110	morning max el	4157 Apr 20 11:24	3° <b>Υ</b> 47'08	27°42'08
superior conj	4156 Jun 17 15:13	28° <b>∏</b> 44'23	0°25'29		4157 May 10 02:35	0°8	
minimum elong	4156 Jun 17 14:04	28° <b>I</b> I38'07	0°25'13	morning set	4157 May 25 03:08	27° <b>8</b> 01'43	
Č	4156 Jun 18 05:02	0° <b>©</b>		, and the second	4157 May 26 14:34	0°II	
evening rise	4156 Jun 24 11:48	13° <b>©</b> 39'59		max. Earth dist.	4157 May 30 06:30	7° <b>Ⅱ</b> 35'30	1.32907 AU
C	4156 Jul 02 16:18	$0^{\circ}\Omega$			Ž		
evening max el	4156 Jul 20 05:19	24° <b>Ω</b> 47'52	24°44'08	superior conj	4157 Jun 01 22:30	13° <b>Ⅱ</b> 16′29	-0°01'17
desc. node	4156 Jul 22 02:47	26° <b>Ω</b> 30'39		minimum elong	4157 Jun 01 22:34	13° <b>Ⅱ</b> 16′51	0°01'17
	4156 Jul 27 04:41	0° <b>m</b> )		behind sun begin	4157 Jun 01 17:16	12° <b>∏</b> 48′22	
retrograde	4156 Aug 03 03:24	1° <b>m</b> 49'59		behind sun end	4157 Jun 02 03:52	13° <b>∐</b> 45′21	
evening set	4156 Aug 08 08:26	0° <b>™</b> 48'44		asc. node	4157 Jun 02 01:25	13° <b>Ⅱ</b> 32'13	
	4156 Aug 10 04:52	$30^{\circ}$ R $\Omega$		evening rise	4157 Jun 08 23:35	28° <b>Ⅱ</b> 26'41	
min. Earth dist.	4156 Aug 13 16:40	28° <b>Ω</b> 00′20	0.57043 AU		4157 Jun 09 17:16	$0$ $\circ$ $\odot$	
inferior conj	4156 Aug 16 12:39	26° <b>Ω</b> 09'43	-5°11'19		4157 Jun 27 02:09	$0^{\circ}\Omega$	
minimum elong	4156 Aug 16 11:46	26° <b>Ω</b> 11'10	5°11'18	evening max el	4157 Jul 01 18:24	5° <b>Ω</b> 13′28	23°07'55
morning rise	4156 Aug 24 17:36	22° <b>Ω</b> 03′18		desc. node	4157 Jul 08 23:49	10° <b>Ω</b> 28′08	
direct	4156 Aug 27 08:17	21° <b>Ω</b> 44'12		retrograde	4157 Jul 15 04:57	11° <b>Ω</b> 56′02	
morning max el	4156 Sep 05 14:25	26° <b>Ω</b> 04'27	19°20'20	evening set	4157 Jul 18 21:37	11° <b>Ω</b> 26′13	
	4156 Sep 09 03:20	0° <b>m</b> y		min. Earth dist.	4157 Jul 26 03:37	8° <b>Ω</b> 09'53	0.55563 AU
asc. node	4156 Sep 11 03:36	2°M/44'18		inferior conj	4157 Jul 27 21:04	7° <b>Ω</b> 09'33	-4°40'31
morning set	4156 Sep 22 17:39	23° Mp 30'04		minimum elong	4157 Jul 27 14:15	7° <b>Ω</b> 19'30	4°39'21
	4156 Sep 25 23:29	0∘ <b>⊽</b>		morning rise	4157 Aug 05 09:12	3° <b>Ω</b> 17'19	
				direct	4157 Aug 08 07:11	2° <b>Ω</b> 57′00	
superior conj	4156 Sep 30 20:09	9° <b>ഫ</b> 38'07	1°39'10	morning max el	4157 Aug 19 02:15	7° <b>Ω</b> 57'53	20°32'56
minimum elong	4156 Sep 30 22:03	9° <b>≏</b> 47'20	1°39'03	asc. node	4157 Aug 29 00:38	21° <b>Ω</b> 05′06	
max. Earth dist.	4156 Oct 07 05:56	21° <b>≏</b> 45'35	1.38117 AU		4157 Sep 02 22:16	0° <b>™</b>	
evening rise	4156 Oct 11 00:20	28° <b>≏</b> 30'40		morning set	4157 Sep 06 23:58	8° <b>m</b> 09'00	
	4156 Oct 11 20:48	0°M,					
desc. node	4156 Oct 18 02:05	10° <b>M</b> 26'55		superior conj	4157 Sep 14 12:57	23° m/42'11	1°44'08
	4156 Oct 31 00:06	0° <b>∡</b> ¹		minimum elong	4157 Sep 14 13:13	23° m 43'29	1°44'07
evening max el	4156 Nov 15 15:34		25°00'13	B 4 F .	4157 Sep 17 16:12	0° <b>™</b>	1.06165.177
retrograde	4156 Nov 27 10:47	26° 🗷 02'34		max. Earth dist.	4157 Sep 19 13:11		1.36167 AU
evening set	4156 Dec 03 03:06	23°×740'24	0.67461.433	evening rise	4157 Sep 23 12:21	11° <b>⊆</b> 10'50	
min. Earth dist.	4156 Dec 07 15:42	18° <b>₹</b> 35'36	0.67461 AU	1 1	4157 Oct 04 10:09	0°M	
asc. node	4156 Dec 08 02:50	17° 🗷 59'07	0°11'19	desc. node	4157 Oct 04 23:07	0°ጤ51'56 0° <i>ጃ</i>	
inferior conj minimum elong	4156 Dec 08 16:06 4156 Dec 08 15:49	17° <b>х</b> 15′29 17° <b>х</b> 16′25	0°11'19	evening max el	4157 Oct 26 08:05 4157 Oct 29 04:10	0 <b>x</b> . 2° <b>x</b> 754'51	26°07'56
transit middle	4156 Dec 08 15:49	17° <b>x</b> 16'25	0°11'12	retrograde	4157 Nov 10 18:57	10°×703'15	20 07 30
transit begin	4156 Dec 08 13:49	17° × 1023	0 11 12	evening set	4157 Nov 17 00:58	7° <b>×</b> <sup>7</sup> 29'04	
transit end	4156 Dec 08 17:49	17° × 23°00' 17° × 709'51		min. Earth dist.	4157 Nov 21 06:27	2°×759'38	0.66664 AU
morning rise	4156 Dec 14 04:41	11°×716'32		inferior conj	4157 Nov 22 18:00	1° <b>₹</b> 09'31	
direct	4156 Dec 17 18:10	10°×7'03'26		minimum elong	4157 Nov 22 19:14	1° <b>×</b> 05'41	
morning max el	4156 Dec 25 02:35	14° × 12'10	19°41'21	minimum ciong	4157 Nov 23 16:38	30°RML	0 13 33
morning man er	4157 Jan 06 04:53	0°ਰ	1, 1121	asc. node	4157 Nov 24 23:52	28°M28'50	
greatest brilliancy	4157 Jan 07 05:58	1° <b>る</b> 32'36	-0.7m	morning rise	4157 Nov 28 13:58	25° <b>™</b> 19'51	
desc. node	4157 Jan 14 01:22	11° <b>る</b> 48'26	VV,	direct	4157 Dec 01 16:48	24°M24'22	
morning set	4157 Jan 19 13:42	20°る16'21		morning max el	4157 Dec 08 11:30	28°M08'36	18°48'38
morning sec	4157 Jan 25 20:01	0° <b>≈</b>		morning must vi	4157 Dec 10 04:47	0° <b>⊼</b>	10 .030
max. Earth dist.	4157 Jan 31 14:54	9° <b>≈</b> 06'44	1.44375 AU	morning set	4157 Dec 30 01:38	29° <b>х</b> 21'48	
				J	4157 Dec 30 11:21	0°る	
superior conj	4157 Feb 05 04:22	16° <b>≈</b> 24'24	-1°58'27	desc. node	4157 Dec 31 22:25	2° <b>ට</b> 17'43	
minimum elong	4157 Feb 04 22:15	15° <b>≈</b> 59'46		max. Earth dist.	4158 Jan 14 08:11	23° <b>る</b> 19'30	1.45163 AU
S	4157 Feb 13 11:31	0° <b>∀</b>					
evening rise	4157 Feb 18 20:10	9° <b>∺</b> 00'14		superior conj	4158 Jan 15 11:53	25° <b>පි</b> 08'21	-1°29'27
-	4157 Mar 03 14:25	$0^{\circ}$ Y		minimum elong	4158 Jan 15 02:36	24° <b>る</b> 31'53	1°28'31
asc. node	4157 Mar 06 02:09	3° <b>Y</b> '30'45		-	4158 Jan 18 13:58	0° <b>≈</b>	
evening max el	4157 Mar 09 08:27	7° <b>Y</b> ′20'48	18°16'05	evening rise	4158 Jan 30 20:23	19° <b>≈</b> 34'05	
retrograde	4157 Mar 15 18:42	10° <b>Ƴ</b> 46'58			4158 Feb 06 07:30	0° <b>)</b> €	
evening set	4157 Mar 18 17:39	10° <b>Y</b> ′00'30		asc. node	4158 Feb 20 23:10	20° <b>¥</b> 56'14	

	4150 F 1 20 10 50	200 1/ 47/40	10042122	. 1	4150 F. L. 11, 00.27	00 1/26/54	
evening max el	4158 Feb 20 19:50	20° <b>)</b> (47'49	18°43'32	retrograde	4159 Feb 11 08:26	8° <b>¥</b> 26'54	
retrograde	4158 Feb 27 11:34	24° <b>H</b> 29'47 23° <b>H</b> 30'45		evening set	4159 Feb 14 20:48	7° <b>)</b> 14'31 1° <b>)</b> 20'03	2017/10
evening set	4158 Mar 02 16:46		2022110	inferior conj	4159 Feb 20 08:22		3°17'18
inferior conj	4158 Mar 08 09:15	17° <b>X</b> 51'57		minimum elong	4159 Feb 20 06:24	1° <b>∺</b> 26′28	3°16'58
minimum elong	4158 Mar 08 08:17	17° <b>¥</b> 54'54 15° <b>¥</b> 35'40	3°33'06	· 15 (1 1) (	4159 Feb 21 08:50	30°R≈	0.66550 ATT
min. Earth dist.	4158 Mar 10 05:55		0.65248 AU	min. Earth dist.	4159 Feb 21 13:59	29° <b>≈</b> 43'19	0.66550 AU
morning rise	4158 Mar 13 23:20	11° <b>)</b> (39'53		morning rise	4159 Feb 25 15:45	25°≈06'05	
direct	4158 Mar 20 14:53	8° <b>)</b> (49'19		direct	4159 Mar 03 20:34	22°≈20'47	25052124
desc. node	4158 Mar 29 21:39	12° <b>)</b> 59′07	25000114	morning max el	4159 Mar 16 06:56	29° <b>≈</b> 44'53	25°52'34
morning max el	4158 Apr 02 21:16	16° <b>)</b> (36′57	2700014	desc. node	4159 Mar 16 18:41	0° <b>)</b> €14'54	
	4158 Apr 13 23:39	0° <b>Υ</b>			4159 Mar 16 12:53	0° <b>)</b> €	
	4158 May 02 22:40	0° <b>8</b>			4159 Apr 07 20:59	0°Υ 22° <b>20</b> 1.42.4	
morning set	4158 May 08 14:26	10° <b>8</b> 30'31		morning set	4159 Apr 21 11:50	23° <b>Y</b> 14'34	
max. Earth dist.	4158 May 13 01:02	19° <b>8</b> 16'34	1.34031 AU		4159 Apr 25 02:11	0° <b>8</b>	
				max. Earth dist.	4159 Apr 25 08:08	0° <b>8</b> 28'32	1.35616 AU
superior conj	4158 May 17 00:34	27° <b>8</b> 28'37					
minimum elong	4158 May 17 02:09	27° <b>8</b> 36'50	0°29'36	superior conj	4159 Apr 30 18:48	11° <b>8</b> 12'32	
	4158 May 18 05:24	$\Pi^{\circ 0}$		minimum elong	4159 Apr 30 21:59	11° <b>8</b> 28'37	0°58'35
asc. node	4158 May 19 22:28	3° <b>Ⅱ</b> 37'00		asc. node	4159 May 06 19:31	23° <b>8</b> 34'05	
evening rise	4158 May 24 09:59	13° <b>Ⅱ</b> 04'50		evening rise	4159 May 08 16:52	27° <b>8</b> 27'07	
	4158 Jun 02 02:22	$0$ $\circ$ $\odot$			4159 May 09 22:55	$\Pi$ °0	
evening max el	4158 Jun 13 12:34	15° <b>©</b> 45'11	21°33'52	evening max el	4159 May 26 17:42	26° <b>Ⅱ</b> 48'38	20°13'29
retrograde	4158 Jun 25 19:53	21° <b>©</b> 49'18			4159 May 30 17:55	0	
desc. node	4158 Jun 25 20:51	21° <b>©</b> 49'17		retrograde	4159 Jun 06 09:43	2° <b>5</b> 01'04	
evening set	4158 Jun 28 07:16	21° <b>©</b> 35'22		evening set	4159 Jun 08 08:51	1° <b>©</b> 51'13	
inferior conj	4158 Jul 07 16:14	17° <b>©</b> 34'45	-3°19'17	desc. node	4159 Jun 12 17:54	0°926'41	
minimum elong	4158 Jul 07 07:55	17° <b>5</b> 346'21	3°16'45		4159 Jun 13 16:07	30°RⅡ	
min. Earth dist.	4158 Jul 07 14:11	17° <b>©</b> 37'36	0.54856 AU	inferior conj	4159 Jun 17 11:20	27° <b>Ⅲ</b> 52'31	-1°24'05
morning rise	4158 Jul 16 09:37	13° <b>©</b> 41'11		minimum elong	4159 Jun 17 07:23	27° <b>Ⅲ</b> 58′22	1°22'37
direct	4158 Jul 19 17:44	13° <b>©</b> 16'57		min. Earth dist.	4159 Jun 19 02:24	26° <b>Ⅱ</b> 54'49	0.55097 AU
morning max el	4158 Aug 01 02:29	19° <b>©</b> 06'27	22°04'29	morning rise	4159 Jun 26 04:33	23° <b>Ⅲ</b> 36′55	
	4158 Aug 09 23:16	$0^{\circ}\Omega$		direct	4159 Jun 30 04:37	23° <b>Ⅲ</b> 02'12	
asc. node	4158 Aug 15 21:43	10° <b>Ω</b> 02'20		morning max el	4159 Jul 13 18:39	29° <b>Ⅱ</b> 40′18	23°47'09
morning set	4158 Aug 22 09:50	22° <b>Ω</b> 58'18			4159 Jul 14 02:56	$0$ $\circ$ $\odot$	
	4158 Aug 25 17:39	O° Mp		asc. node	4159 Aug 02 18:46	29° <b>5</b> 26'02	
					4159 Aug 03 01:37	$0^{\circ}\Omega$	
superior conj	4158 Aug 29 14:18	8° Mp 11'25	1°41'47	morning set	4159 Aug 06 21:23	7° <b>Ω</b> 51'50	
minimum elong	4158 Aug 29 13:14	8° <b>m</b> 05'49	1°41'45				
max. Earth dist.	4158 Sep 02 03:57	15°M 36'11	1.34529 AU	superior conj	4159 Aug 13 21:17	22° <b>Ω</b> 56′33	1°33'20
evening rise	4158 Sep 06 16:32	24° Mp36'37		minimum elong	4159 Aug 13 19:21	22° <b>Ω</b> 46′07	1°33'10
	4158 Sep 09 12:40	0० <b>⊽</b>		max. Earth dist.	4159 Aug 16 03:26	27° <b>Ω</b> 47'02	1.33282 AU
desc. node	4158 Sep 21 20:08	20° <b>£</b> 58'49			4159 Aug 17 04:31	0° <b>m</b> y	
	4158 Sep 27 22:44	0°M		evening rise	4159 Aug 21 08:43	8° <b>m</b> 36'31	
evening max el	4158 Oct 11 16:48	16° <b>M</b> ⋅30'42	26°58'21		4159 Sep 01 23:12	0∘ <b>ত</b>	
retrograde	4158 Oct 24 21:35	23°M47'20		desc. node	4159 Sep 08 17:10	10° <b>≙</b> 39'42	
evening set	4158 Oct 31 15:46	21°M06'26		evening max el	4159 Sep 24 04:26	29° <b>≏</b> 48'53	27°24'31
min. Earth dist.	4158 Nov 04 14:35	17° <b>M</b> 12'54	0.65514 AU		4159 Sep 24 09:08	0° <b>M</b>	
inferior conj	4158 Nov 06 14:01	14° <b>M</b> 57'01	-1°46'47	retrograde	4159 Oct 07 18:21	7° <b>IL</b> 06'50	
minimum elong	4158 Nov 06 17:01	14°M48'25	1°45'34	evening set	4159 Oct 14 20:52	4° <b>™</b> 27'42	
asc. node	4158 Nov 11 20:56	9° <b>™</b> 51'34		min. Earth dist.	4159 Oct 18 14:02	1°ML08'13	0.64013 AU
morning rise	4158 Nov 12 19:09	9° <b>™</b> 19'42			4159 Oct 19 16:31	30° <b>Ŗ</b> Ω	
direct	4158 Nov 15 13:27	8°M38'08		inferior conj	4159 Oct 21 01:44	28° <b>₽</b> 33'00	-2°48'32
morning max el	4158 Nov 22 01:38	12°M08'16	18°12'19	minimum elong	4159 Oct 21 06:29	28° <b>₽</b> 20'39	2°46'50
	4158 Dec 04 16:24	0° <b>∡</b> ¹		morning rise	4159 Oct 27 17:26	23° <b>₽</b> 11'08	
morning set	4158 Dec 10 18:20	9° <b>∡</b> ¹54'42		asc. node	4159 Oct 29 17:59	22° <b>₽</b> 40'57	
desc. node	4158 Dec 18 19:26	22° <b>₹</b> 56'32		direct	4159 Oct 30 05:35	22° <b>₽</b> 39'46	
	4158 Dec 23 05:40	0°ප		morning max el	4159 Nov 05 18:14	26° <b>₽</b> 05'00	17°53'05
					4159 Nov 09 02:18	0° <b>M</b>	
superior conj	4158 Dec 25 15:18	3° <b>⋜</b> 47'53	-0°45'40	morning set	4159 Nov 22 14:42	21°M48'26	
minimum elong	4158 Dec 25 09:34	3° <b>ට</b> 25'15	0°44'55	-	4159 Nov 27 10:12	0° <b>∡</b> ″	
max. Earth dist.	4158 Dec 28 03:48	7° <b>ප්</b> 46'00	1.45207 AU				
evening rise	4159 Jan 10 22:20	29° <b>る</b> 16'15		superior conj	4159 Dec 05 10:53	13° <b>∡</b> 18'50	0°01'37
J	4159 Jan 11 09:34	0° <b>≈</b>		minimum elong	4159 Dec 05 11:04	13° <b>∡</b> 19'36	0°01'36
greatest brilliancy	4159 Jan 23 00:15	17° <b>≈</b> 56′21	-0.7m	behind sun begin	4159 Dec 05 01:08	12° <b>∡</b> °39′08	
<u> </u>	4159 Jan 31 11:00	0° <b>)</b> €		behind sun end	4159 Dec 05 21:01	14° <b>₹</b> 00'00	
evening max el	4159 Feb 04 03:34	4° <b>)</b> 18′27	19°27'55	desc. node	4159 Dec 05 16:28	13° <b>х</b> 41'33	
asc. node	4159 Feb 07 20:13	7° <b>)</b> €21'32	· /	max. Earth dist.	4159 Dec 10 22:14	22° <b>∡</b> 06'42	1.44518 AU
					·		

	4159 Dec 15 22:28	0°ರ			4160 Dec 29 19:32	0° <b>≈</b>	
evening rise	4159 Dec 21 09:43	8° <b>ਰ</b> 28'19		evening max el	4160 Dec 31 03:25	1° <b>≈</b> 24'14	21°38'26
evening rise	4160 Jan 04 16:33	0°≈		retrograde	4161 Jan 09 04:06	6°≈46'08	21 30 20
evening max el	4160 Jan 18 06:15	17°≈50'50	20°27'16	asc. node	4161 Jan 11 14:18	6°≈14'21	
asc. node	4160 Jan 25 17:15	22°≈32'08	20 27 10	evening set	4161 Jan 13 11:19	5°≈04'09	
retrograde	4160 Jan 26 06:40	22°≈33'50		evening set	4161 Jan 17 22:25	30°Rる	
evening set	4160 Jan 30 03:36	21°≈07'09		inferior conj	4161 Jan 18 19:34	28°る47'01	2°14'53
inferior conj	4160 Feb 04 12:34	14°≈59'48	2°50'32	minimum elong	4161 Jan 18 17:09	28° <b>る</b> 55'21	2°14'08
minimum elong	4160 Feb 04 10:08	15°≈08'04	2°49'56	min. Earth dist.	4161 Jan 18 23:25	28° <b>る</b> 33'37	0.67915 AU
min. Earth dist.	4160 Feb 05 04:36	13 ≈08 04 14°≈05'06	0.67432 AU		4161 Jan 23 22:48	28 <b>3</b> 33 37 22° <b>る</b> 34'59	0.07913 AU
	4160 Feb 03 04.36 4160 Feb 09 16:28	8°≈45'53	0.07432 AU	morning rise direct	4161 Jan 28 23:23	22 <b>33</b> 439 20° <b>る</b> 24'57	
morning rise	4160 Feb				4161 Feb 08 00:55	20 <b>3</b> 2437 26° <b>3</b> 23'07	22950152
direct		6°≈15'20	24920101	morning max el			22-39-32
morning max el	4160 Feb 26 15:36	13°≈01'39	24°29'01		4161 Feb 11 08:42	0°≈	
desc. node	4160 Mar 02 15:41	18°≈35'50		desc. node	4161 Feb 17 12:41	7°≈42'47	
	4160 Mar 11 08:42	0° <b>)</b> €			4161 Mar 04 22:41	0° <b>)</b> {	
	4160 Mar 30 16:33	0°Υ 50 <b>0</b> 00000		morning set	4161 Mar 14 14:57	15° <b>)</b> (30′07	1.20566.133
morning set	4160 Apr 02 14:04	5° <b>Υ</b> 00'00		max. Earth dist.	4161 Mar 19 00:37	22° <b>)</b> 57'16	1.39766 AU
max. Earth dist.	4160 Apr 06 05:44	11° <b>Y</b> 30'44	1.37590 AU		4161 Mar 23 01:06	$0$ ° $\Upsilon$	
	41.60 A 12.02.01	2400020141	102/150		4161 M 26 10 07	600040124	1050122
superior conj	4160 Apr 13 02:01	24°Υ20'41		superior conj	4161 Mar 26 18:07	6° <b>Y</b> 42'34	
minimum elong	4160 Apr 13 06:30	24° <b>Y</b> 42′18	1°26'21	minimum elong	4161 Mar 26 22:47		1°49'59
	4160 Apr 15 23:33	0°8		evening rise	4161 Apr 05 09:58	24° <b>Y</b> 56'54	
evening rise	4160 Apr 21 17:52	11° <b>8</b> 27'08			4161 Apr 08 01:42	0°8	
asc. node	4160 Apr 22 16:33	13° <b>8</b> 19'25		asc. node	4161 Apr 09 13:35	2° <b>8</b> 47'55	
	4160 May 01 19:56	$\Pi^{\circ}0$		evening max el	4161 Apr 21 14:16	20° <b>8</b> 57'51	18°31'06
evening max el	4160 May 08 11:05	8° <b>Ⅱ</b> 34'13	19°12'07	retrograde	4161 Apr 29 05:52	24° <b>8</b> 44'04	
retrograde	4160 May 17 10:35	12° <b>Ⅱ</b> 56'41		evening set	4161 May 01 12:49	24° <b>8</b> 24'53	
evening set	4160 May 19 11:07	12° <b>Ⅱ</b> 44'19		inferior conj	4161 May 09 02:03	19° <b>8</b> 55'31	2°00'47
inferior conj	4160 May 27 20:15	8° <b>Ⅱ</b> 34'03	0°31'05	minimum elong	4161 May 09 05:37	19° <b>8</b> 48'29	1°59'44
minimum elong	4160 May 27 21:31	8° <b>Ⅱ</b> 31'55	0°30'36	min. Earth dist.	4161 May 12 11:59	17° <b>8</b> 15'32	0.58095 AU
desc. node	4160 May 29 14:55	7° <b>Ⅲ</b> 22'01		desc. node	4161 May 16 11:55	14° <b>8</b> 41'10	
min. Earth dist.	4160 May 30 17:19	6° <b>Ⅱ</b> 38'23	0.56260 AU	morning rise	4161 May 16 19:14	14° <b>8</b> 31'54	
morning rise	4160 Jun 05 04:47	3° <b>Ⅱ</b> 43'38		direct	4161 May 22 16:47	13° <b>8</b> 02'53	
direct	4160 Jun 10 03:30	2° <b>Ⅱ</b> 46'55		morning max el	4161 Jun 06 01:59	20° <b>8</b> 42'40	26°48'32
morning max el	4160 Jun 24 08:39	10° <b>Ⅱ</b> 03′06	25°27'07		4161 Jun 14 02:25	$\Pi^{\circ}0$	
	4160 Jul 09 10:36	$0$ $\circ$ $\odot$			4161 Jul 02 02:57	$0$ $\circ$ $\odot$	
asc. node	4160 Jul 19 15:48	19° <b>©</b> 08'59		morning set	4161 Jul 05 18:59	7° <b>©</b> 31'08	
morning set	4160 Jul 21 08:57	22°5544'22		asc. node	4161 Jul 06 12:50	9° <b>5</b> 05'31	
	4160 Jul 24 17:52	$0^{\circ}\Omega$					
				superior conj	4161 Jul 12 19:20	22° <b>5</b> 35'38	1°01'37
superior conj	4160 Jul 28 07:35	7° <b>Ω</b> 49'59	1°19'42	minimum elong	4161 Jul 12 17:07	22° <b>©</b> 33'23	1°01'12
minimum elong	4160 Jul 28 05:16	7° <b>Ω</b> 37'16	1°19'23	max. Earth dist.	4161 Jul 12 21:03	22° <b>©</b> 55'03	1.32055 AU
max. Earth dist.	4160 Jul 29 10:07	10° <b>Ω</b> 15'17	1.32460 AU		4161 Jul 16 02:20	$0^{\circ}\Omega$	
evening rise	4160 Aug 04 09:31	23° <b>Ω</b> 00'44		evening rise	4161 Jul 19 16:10	7° <b>Ω</b> 41'03	
	4160 Aug 07 20:39	0° <b>m</b>			4161 Jul 31 07:48	0° <b>m</b> y	
desc. node	4160 Aug 25 14:11	29° <b>m</b> 43'18		desc. node	4161 Aug 12 11:12	17° <b>m</b> 54'31	
	4160 Aug 25 19:02	0∘ <b>⊽</b>		evening max el	4161 Aug 18 16:12	24° Mp 42'24	26°43'06
evening max el	4160 Sep 05 13:03	12° <b>≏</b> 36'33	27°20'31		4161 Aug 25 18:08	0∘ <b>⊽</b>	
retrograde	4160 Sep 19 08:31	19° <b>≙</b> 51'28		retrograde	4161 Sep 01 14:40	1° <b>≏</b> 52'47	
evening set	4160 Sep 26 12:42	17° <b>£</b> 25'53		evening set	4161 Sep 08 10:48	29° m 53'30	
min. Earth dist.	4160 Sep 30 03:20	14° <b>≏</b> 33'57	0.62199 AU		4161 Sep 08 06:10	30°R, Mp	
inferior conj	4160 Oct 03 02:09	11° <b>≏</b> 49'54	-3°47'41	min. Earth dist.	4161 Sep 12 06:09	27° mp 16'55	0.60177 AU
minimum elong	4160 Oct 03 08:04	11° <b>≏</b> 36′10	3°45'59	inferior conj	4161 Sep 15 11:55	24° mp 39'14	-4°37'47
morning rise	4160 Oct 10 05:09	6° <b>≏</b> 46'38		minimum elong	4161 Sep 15 17:25	24° m/28'01	4°36'44
direct	4160 Oct 12 13:56	6° <b>£</b> 21'59		morning rise	4161 Sep 23 02:02	19° <b>m</b> 57'26	
asc. node	4160 Oct 15 15:02	7° <b>£</b> 04'10		direct	4161 Sep 25 10:42	19° m 36'32	
morning max el	4160 Oct 19 10:10	9° <b>£</b> 50'36	17°51'49	asc. node	4161 Oct 02 12:03	22° m 52'58	
<i>5</i>	4160 Nov 01 17:16	0°M	-	morning max el	4161 Oct 02 22:13	23° m) 16'57	18°09'45
morning set	4160 Nov 04 08:31	4°M43'29			4161 Oct 08 06:50	0° <b>⊡</b>	
monning set	.1001107 07 00.51	. 114 (3 2)		morning set	4161 Oct 18 17:46	18° <b>≏</b> 22'45	
superior conj	4160 Nov 15 08:31	24°M06'15	0°42'34		4161 Oct 24 22:53	0°M	
minimum elong	4160 Nov 15 08:31 4160 Nov 15 12:07	24°M21'35	0°42'05		1101 000 27 22.33	O IIV	
mmmum clong	4160 Nov 18 20:25	0° <b>×</b> 7	0 72 03	superior conj	4161 Oct 28 07:32	6° <b>™</b> 07'40	1°12'57
desc. node	4160 Nov 18 20:23 4160 Nov 21 13:26	4° <b>∡</b> ¹28'36		minimum elong	4161 Oct 28 07.32 4161 Oct 28 11:34	6°M25'49	1°12'37 1°12'29
max. Earth dist.	4160 Nov 22 12:54	4 <b>x</b> ·28 30 6° <b>x</b> <sup>7</sup> 04'21	1.43190 AU	max. Earth dist.	4161 Oct 28 11.34 4161 Nov 04 22:50	19°M27'03	1.41386 AU
		U A U4 4 1	レオフエクロ だし	max. Darm uist.	TIVE INDV UT 44.00	17 1164/03	
							1.11500710
evening rise	4160 Nov 29 21:38 4160 Dec 07 21:06	17° <b>҂</b> 47'57 0°る		desc. node evening rise	4161 Nov 08 10:28 4161 Nov 10 01:09	25°M15'03 27°M52'38	1.11300710

	4161 Nov 11 08:46	0° <b>₹</b>			4162 Nov 04 07:11	0° <b>∡</b> 7	
	4161 Dec 01 13:02	0°중		evening max el	4162 Nov 26 09:24	28° <b>∡</b> ¹40'11	24°16'27
evening max el	4161 Dec 01 13:02 4161 Dec 13 19:55	0 3 15° <b>る</b> 00'28	22°56'44	evening max er	4162 Nov 27 18:45	28 x·4011 0°る	24 1027
retrograde	4161 Dec 13 19.33 4161 Dec 23 23:07	13 30028 21° <b>る</b> 01'00	22 30 44	ratragrada	4162 Dec 07 14:41	0 る 5° <b>る</b> 14'44	
•	4161 Dec 28 18:23	19° <b>る</b> 02'55		retrograde		3°る00'43	
evening set		19 <b>3</b> 02 33		evening set	4162 Dec 12 23:14		
asc. node	4161 Dec 29 11:18		1021147	1	4162 Dec 15 19:52	30°₹ <b>⋌</b> ¹	
inferior conj	4162 Jan 03 03:27	12° <b>る</b> 39'37	1°31'47	asc. node	4162 Dec 16 08:19	29° 🖈 21'03	0.67765.441
minimum elong	4162 Jan 03 01:32	12°る46'14	1°31'05	min. Earth dist.	4162 Dec 17 16:12	27° 🗷 36'31	0.67765 AU
min. Earth dist.	4162 Jan 02 20:04	13° <b>る</b> 05'06	0.68022 AU	inferior conj	4162 Dec 18 10:26	26° <b>₹</b> 35'12	0°42'20
morning rise	4162 Jan 08 08:34	6° <b>ප</b> 31'13		minimum elong	4162 Dec 18 09:27	26° <b>₹</b> 38'33	0°41'55
direct	4162 Jan 12 18:37	4° <b>る</b> 44'05		morning rise	4162 Dec 23 19:43	20° <b>∡</b> 32'25	
morning max el	4162 Jan 21 14:36	9° <b>る</b> 52'59	21°34'14	direct	4162 Dec 27 16:16	19° <b>∡</b> ′07'38 −	
desc. node	4162 Feb 04 09:43	27° <b>る</b> 23'07		morning max el	4163 Jan 04 11:42	23° <b>∡</b> ³35′02	20°18'45
	4162 Feb 06 05:30	0° <b>≈</b>			4163 Jan 09 23:44	0°る	
morning set	4162 Feb 22 10:57	24° <b>≈</b> 38′08		desc. node	4163 Jan 22 06:45	17° <b>る</b> 27'47	
	4162 Feb 25 19:12	0° <b>∀</b>			4163 Jan 30 13:07	0° <b>≈</b>	
max. Earth dist.	4162 Mar 01 00:42	5° <b>₩</b> 17'08	1.41872 AU	morning set	4163 Feb 01 09:47	2° <b>≈</b> 52'14	
				max. Earth dist.	4163 Feb 11 08:44	18° <b>≈</b> 32'51	1.43618 AU
superior conj	4162 Mar 08 14:07	18° <b>)</b> (06′11	-2°05'14				
minimum elong	4162 Mar 08 16:40	18° <b>∺</b> 17'18	2°05'09	superior conj	4163 Feb 17 09:25	28° <b>≈</b> 21'54	-2°06'12
	4162 Mar 15 06:53	$0$ ° $\Upsilon$		minimum elong	4163 Feb 17 06:51	28° <b>≈</b> 11'20	2°06'07
evening rise	4162 Mar 19 13:29	7° <b>Ƴ</b> 47'27			4163 Feb 18 09:06	0° <b>∀</b>	
asc. node	4162 Mar 27 10:37	21° <b>Y</b> 53'09		evening rise	4163 Mar 02 00:13	19° <b>¥</b> 50′29	
	4162 Apr 01 17:11	$8^{\circ}$			4163 Mar 07 20:43	$0^{\circ}$ Y	
evening max el	4162 Apr 04 23:44	3° <b>8</b> 49'37	18°10'03	asc. node	4163 Mar 14 07:39	10° <b>Y</b> 27′50	
retrograde	4162 Apr 11 19:24	7° <b>8</b> 16'27		evening max el	4163 Mar 19 12:10	17° <b>Ƴ</b> 00'51	18°08'24
evening set	4162 Apr 14 09:00	6° <b>8</b> 47'44		retrograde	4163 Mar 25 23:10	20° <b>Y</b> 23'38	
inferior conj	4162 Apr 21 04:44	1° <b>8</b> 57'24	2°58'30	evening set	4163 Mar 28 18:41	19° <b>Ƴ</b> 43'59	
minimum elong	4162 Apr 21 07:52	1° <b>8</b> 50'11		inferior conj	4163 Apr 04 00:55	14° <b>Ƴ</b> 33'31	3°28'12
	4162 Apr 23 07:43	30° <b>Ŗ</b> ♈		minimum elong	4163 Apr 04 02:26	14° <b>Y</b> 29'30	3°28'03
min. Earth dist.	4162 Apr 24 12:33	28°Υ55'50	0.60251 AU	min. Earth dist.	4163 Apr 06 21:33	11° <b>Y</b> '34'53	0.62399 AU
morning rise	4162 Apr 28 04:27	26°Υ09'32	***************************************	morning rise	4163 Apr 10 08:49	8° <b>Y</b> 30'59	***************************************
desc. node	4162 May 03 08:57	24° <b>Υ</b> 11'14		direct	4163 Apr 17 05:36	5° <b>Υ</b> 58'57	
direct	4162 May 04 18:12	24° <b>Υ</b> 05'48		desc. node	4163 Apr 20 05:58	6° <b>Y</b> 25'34	
direct	4162 May 16 22:53	0° <b>8</b>		morning max el	4163 May 01 07:19	13° <b>Y</b> 57'49	27°51'33
morning max el	4162 May 19 01:36	1° <b>8</b> 58'43	27028142	morning max ci	4163 May 14 05:11	0° <b>8</b>	27 31 33
morning max er	4162 Jun 08 10:13	0° <b>I</b>	27 36 43		4163 May 31 22:05	0°U	
morning got	4162 Jun 20 01:40	22° <b>I</b> I05'36		mamina sat	4163 Jun 04 03:00	6° <b>П</b> 21'34	
morning set	4162 Jun 23 09:51	22 H03 36 29°H09'52		morning set	4163 Jun 09 16:24	17° <b>П</b> 59'43	1.32477 AU
asc. node	4162 Jun 23 19:09			max. Earth dist.			1.324// AU
Earth diet		0°95	1 22050 ATT	asc. node	4163 Jun 10 06:55	19° <b>Ⅱ</b> 17'54	
max. Earth dist.	4162 Jun 26 08:28	5° <b>©</b> 34'13	1.32059 AU		4162 7 11 16 02	220T17120	001.410.6
	41.60 X 07.06 40	<b>5050</b> (10.1	0000100	superior conj	4163 Jun 11 16:03	22° <b>I</b> 17'20	0°14'26
superior conj	4162 Jun 27 06:43	7°936'31	0°39'38	minimum elong	4163 Jun 11 15:22	22° <b>I</b> 13'39	0°14'17
minimum elong	4162 Jun 27 05:03	7°527'23	0°39'17	behind sun begin	4163 Jun 11 13:04	22° <b>I</b> 101'08	
evening rise	4162 Jul 04 02:21	22°528'58		behind sun end	4163 Jun 11 17:40	22° <b>Ⅱ</b> 26'11	
	4162 Jul 07 17:20	$0^{\circ}\Omega$			4163 Jun 15 04:54	0°€	
	4162 Jul 26 00:52	0°Щ		evening rise	4163 Jun 18 14:07	7° <b>©</b> 18'05	
desc. node	4162 Jul 30 08:14	4° <b>m</b> 51'01			4163 Jun 30 10:53	0°Ω	
evening max el	4162 Jul 31 11:50	5° m 58'58	25°34'19	evening max el	4163 Jul 13 01:22	16° <b>Ω</b> 35'07	24°03'45
retrograde	4162 Aug 14 10:58	13° <b>m</b> 04'49		desc. node	4163 Jul 17 05:15	20° <b>Ω</b> 03'48	
evening set	4162 Aug 20 10:18	11° mp 41'29		retrograde	4163 Jul 26 19:55	23° <b>Ω</b> 31'16	
min. Earth dist.	4162 Aug 24 23:46	9° <b>™</b> 02'58	0.58131 AU	evening set	4163 Jul 31 09:58	22° <b>Ω</b> 44'41	
inferior conj	4162 Aug 28 03:27	6° Mp 50′00		min. Earth dist.	4163 Aug 06 11:51	19° <b>Ω</b> 46′06	0.56341 AU
minimum elong	4162 Aug 28 05:46	6° Mp 45′55	5°08'11	inferior conj	4163 Aug 08 22:46	18° <b>Ω</b> 15'19	
morning rise	4162 Sep 05 03:30	2°My31'21		minimum elong	4163 Aug 08 19:12	18° <b>Ω</b> 20'51	5°04'02
direct	4162 Sep 07 15:23	2°Mp11'57		morning rise	4163 Aug 17 07:01	14° <b>Ω</b> 16'43	
morning max el	4162 Sep 16 03:02	6° Mp 13′56	18°48'24	direct	4163 Aug 20 00:37	13° <b>Ω</b> 57'19	
asc. node	4162 Sep 19 09:04	9° <b>™</b> 52'01		morning max el	4163 Aug 29 21:40	18° <b>Ω</b> 32'54	19°48'43
	4162 Oct 01 06:32	0∘ <b>ত</b>		asc. node	4163 Sep 06 06:07	27° <b>Ω</b> 46′50	
morning set	4162 Oct 02 13:44	2° <b>₽</b> 32'07			4163 Sep 07 15:20	0° <b>m</b>	
				morning set	4163 Sep 16 17:01	17° Mp 02'17	
superior conj	4162 Oct 11 02:49	19° <b>≏</b> 08'18	1°32'26		4163 Sep 23 02:23	0∘ <b>⊽</b>	
minimum elong	4162 Oct 11 05:39	19° <b>≙</b> 21'46	1°32'12				
	4162 Oct 16 23:59	0°M		superior conj	4163 Sep 24 13:03	2° <b>≏</b> 53'12	1°42'15
max. Earth dist.	4162 Oct 18 04:35	2°M07'30	1.39319 AU	minimum elong	4163 Sep 24 14:13	2° <b>≏</b> 59'02	1°42'12
evening rise	4162 Oct 22 03:19	8°M58'56		max. Earth dist.	4163 Sep 30 09:23	14° <b>£</b> 11'39	1.37254 AU
desc. node	4162 Oct 26 07:31	15°M56'41		evening rise	4163 Oct 04 03:57	21° <b>≏</b> 07'09	
				-			

	4163 Oct 09 06:18	0°M			4164 Aug 30 04:24	0°m)	
desc. node	4163 Oct 13 04:34	6°M29'14		morning set	4164 Aug 31 01:04	1°Mp46'33	
desc. node	4163 Oct 29 06:01	0°×7		morning set	4104 Aug 31 01.04	בכטדעוו ז	
evening max el	4163 Nov 08 21:41	12° <b>×</b> <sup>7</sup> 22'07	25°30'40	superior conj	4164 Sep 07 09:55	17° <b>m</b> 09'47	1°43'57
retrograde	4163 Nov 21 01:51	19° <b>×</b> 22'01	23 30 10	minimum elong	4164 Sep 07 09:33	17° mp 07'57	1°43'57
evening set	4163 Nov 27 00:11	16° <b>₹</b> 53'55		max. Earth dist.	4164 Sep 11 19:03	26° m 02'59	1.35417 AU
min. Earth dist.	4163 Dec 01 09:34	12° <b>₹</b> 04'19	0.67159 AU		4164 Sep 13 19:23	0∘ <b>⊽</b>	
inferior conj	4163 Dec 02 14:44	10° <b>х</b> 30′38		evening rise	4164 Sep 15 23:24	4° <b>Ω</b> 08'39	
minimum elong	4163 Dec 02 15:03	10° <b>х</b> 29'37		desc. node	4164 Sep 29 01:35	26° <b>£</b> 47'41	
transit middle	4163 Dec 02 15:03	10° <b>∡</b> °29'37	0°12'23		4164 Oct 01 02:59	0°M₊	
transit begin	4163 Dec 02 13:15	10° <b>∡</b> ³35′24		evening max el	4164 Oct 21 10:12	26°M03'03	26°31'59
transit end	4163 Dec 02 16:51	10° <b>х</b> 23′50		C	4164 Oct 26 01:46	0° <b>∡</b> ¹	
asc. node	4163 Dec 03 05:22	9° <b>∡</b> ¹43'51		retrograde	4164 Nov 03 07:59	3° <b>∡</b> 17′00	
morning rise	4163 Dec 08 06:15	4° <b>∡</b> ³35'35		evening set	4164 Nov 09 19:21	0° <b>∡</b> ³39′02	
direct	4163 Dec 11 14:53	3° <b>₹</b> 30'36		Č	4164 Nov 10 13:20	30°RM	
morning max el	4163 Dec 18 16:41	7° <b>∡</b> ¹27'36	19°17'04	min. Earth dist.	4164 Nov 13 21:50	26°M24'51	0.66209 AU
greatest brilliancy	4164 Jan 01 05:26	25° <b>∡</b> ³39'31	-0.7m	inferior conj	4164 Nov 15 14:25	24°M22'54	-1°11'32
	4164 Jan 04 01:53	0°ප		minimum elong	4164 Nov 15 16:23	24°M16'59	1°10'43
desc. node	4164 Jan 09 03:48	7° <b>る</b> 49'33		asc. node	4164 Nov 19 02:24	20°MJ30'42	
morning set	4164 Jan 11 09:57	11º <b>る</b> 19'16		morning rise	4164 Nov 21 14:05	18°M38'07	
	4164 Jan 23 09:18	0°≈		direct	4164 Nov 24 12:53	17° <b>M</b> 49'11	
max. Earth dist.	4164 Jan 24 22:59	2° <b>≈</b> 28'26	1.44791 AU	morning max el	4164 Dec 01 04:09	21°M26'40	18°31'09
					4164 Dec 07 22:29	0°∡7	
superior conj	4164 Jan 28 03:36	7° <b>≈</b> 31'46	-1°48'28	morning set	4164 Dec 21 09:29	21° <b>尽</b> 00'37	
minimum elong	4164 Jan 27 19:24	6° <b>≈</b> 59'13	1°47'50	desc. node	4164 Dec 26 00:51	28° <b>∡</b> ¹23'38	
	4164 Feb 10 23:55	0° <b>)</b> €			4164 Dec 27 01:10	ರ°ರ	
evening rise	4164 Feb 11 13:51	0° <b>)</b> 57'41					
asc. node	4164 Feb 29 04:42	28° <b>)</b> €21'57		superior conj	4165 Jan 06 06:51	16° <b>る</b> 07'18	-1°12'07
	4164 Mar 01 15:29	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	4165 Jan 05 22:21	15° <b>る</b> 33'59	1°11'08
evening max el	4164 Mar 02 00:37	0° <b>Y</b> 23'32	18°25'31	max. Earth dist.	4165 Jan 06 17:05	16° <b>る</b> 47'27	1.45268 AU
retrograde	4164 Mar 08 12:22	3° <b>Ƴ</b> 55'25			4165 Jan 15 03:02	0° <b>≈</b>	
evening set	4164 Mar 11 13:48	3° <b>Y</b> 03'50		evening rise	4165 Jan 22 04:10	11° <b>≈</b> 07'59	
	4164 Mar 15 06:34	30° <b>₹</b> ₩		greatest brilliancy	4165 Jan 31 10:30	25° <b>≈</b> 47'50	-0.8m
inferior conj	4164 Mar 17 10:21	27° <b>)</b> 34′57	3°36'12		4165 Feb 03 03:33	0° <b>∀</b>	
minimum elong	4164 Mar 17 10:12	27° <b>)</b> ₹35′25	3°36'12	evening max el	4165 Feb 13 10:42	13° <b>)</b> 52′48	19°00'25
min. Earth dist.	4164 Mar 19 16:04	24° <b>¥</b> 59′02	0.64311 AU	asc. node	4165 Feb 15 01:43	15° <b>¥</b> 23'51	
morning rise	4164 Mar 23 05:51	21° <b>)</b> 24'50		retrograde	4165 Feb 20 07:15	17° <b>) 4</b> 44′56	
direct	4164 Mar 30 01:14	18° <b>)</b> 36′48		evening set	4165 Feb 23 15:17	16° <b>)</b> 40′31	
desc. node	4164 Apr 06 03:00	21° <b>₩</b> 03'18		inferior conj	4165 Mar 01 05:23	10° <b>¥</b> 55′00	3°27'54
morning max el	4164 Apr 12 16:32	26° <b>)</b> 32′42	27°27'58	minimum elong	4165 Mar 01 03:56	10° <b>¥</b> 59'35	3°27'44
	4164 Apr 15 21:52	$0$ ° $\mathbf{\Upsilon}$		min. Earth dist.	4165 Mar 02 19:36	8° <b>)</b> ₹54'33	0.65856 AU
	4164 May 06 19:35	$9^{\circ}$ 8		morning rise	4165 Mar 06 16:11	4° <b>){</b> 41'42	
morning set	4164 May 17 20:23	20° <b>8</b> 10'33		direct	4165 Mar 13 03:45	1° <b>¥</b> 51'37	
max. Earth dist.	4164 May 22 16:43	29° <b>8</b> 58'35	1.33329 AU	desc. node	4165 Mar 24 00:03	7° <b>∺</b> 30′28	
	4164 May 22 16:59	$\Pi$ $^{\circ}0$		morning max el	4165 Mar 26 02:27	9° <b>∺</b> 31'35	26°33'55
					4165 Apr 11 05:04	$0^{\circ}$ Y	
superior conj	4164 May 25 21:22	6° <b>Ⅱ</b> 41'42			4165 Apr 29 07:04	$9^{\circ}$ 8	
minimum elong	4164 May 25 22:03	6° <b>Ⅱ</b> 45'18	0°13'08	morning set	4165 May 01 02:21	3° <b>8</b> 22'20	
behind sun begin	4164 May 25 18:56	6° <b>Ⅱ</b> 28'42		max. Earth dist.	4165 May 05 06:07	11° <b>8</b> 24'53	1.34649 AU
behind sun end	4164 May 26 01:10	7° <b>Ⅱ</b> 01'55					
asc. node	4164 May 27 03:59	9° <b>∏</b> 25'03		superior conj	4165 May 09 20:28	20° <b>8</b> 43'10	
evening rise	4164 Jun 02 01:33	22° <b>Ⅱ</b> 01'47		minimum elong	4165 May 09 22:44	20° <b>8</b> 54'50	0°41'55
	4164 Jun 05 22:28	0°©		asc. node	4165 May 14 01:02	29° <b>8</b> 27'17	
evening max el	4164 Jun 23 15:29	26°\$58'53	22°26'45		4165 May 14 07:16	0°II	
	4164 Jun 27 04:44	0° <b>Ω</b>		evening rise	4165 May 17 10:42	6° <b>Ⅱ</b> 34'01	
desc. node	4164 Jul 03 02:16	2° <b>Ω</b> 58'12			4165 May 30 06:36	0°®	
retrograde	4164 Jul 06 16:50	3° <b>£</b> 28′13		evening max el	4165 Jun 05 14:01		20°57'35
evening set	4164 Jul 09 19:03	3° <b>Ω</b> 07'08		retrograde	4165 Jun 17 05:38	13°525'14	
min E d E :	4164 Jul 17 04:31	30°Rூ 30°€3414€	0.55140.433	evening set	4165 Jun 19 09:28	13°5014'14	
min. Earth dist.	4164 Jul 17 22:32	29°534'46	0.55148 AU	desc. node	4165 Jun 19 23:17	13°907'44	2022141
inferior conj	4164 Jul 19 00:18	28°958'13		inferior conj	4165 Jun 28 17:38	9°516'51	
minimum elong	4164 Jul 18 16:03	29°509'56	4°09'58	minimum elong	4165 Jun 28 10:40	9°526'42	
morning rise	4164 Jul 27 15:03	25°507'47		min. Earth dist.	4165 Jun 29 09:58	8°953'45	0.54837 AU
direct	4164 Jul 30 16:31	24°546'30	21000150	morning rise	4165 Jul 07 11:47	5°515'54	
morning max el	4164 Aug 11 04:32	0° <b>Ω</b> 07'48	21°09'58	direct	4165 Jul 11 01:53	4°548'10	22047127
aca mc 1-	4164 Aug 11 01:09	0° <b>Ω</b>		morning max el	4165 Jul 24 00:41	10°959'48	22°47'27
asc. node	4164 Aug 23 03:12	16° <b>Ω</b> 24'41			4165 Aug 06 23:34	$0$ ° $\Omega$	

aga mada	4165 Aug 10 00:15	5° <b>Ω</b> 34'27		aca mada	4166 Ivl. 27 21:10	250607140	
asc. node morning set	4165 Aug 10 00:15 4165 Aug 15 11:51	16°Ω38'23		asc. node	4166 Jul 27 21:19 4166 Jul 30 06:02	25° <b>©</b> 07'49 0° <b>Ω</b>	
morning set	4165 Aug 21 17:55	0° m		morning set	4166 Jul 30 23:38	1° <b>Ω</b> 32'44	
		• •		8			
superior conj	4165 Aug 22 13:57	1° <b>m</b> 47'02	1°38'53	superior conj	4166 Aug 06 22:37	16° <b>Ω</b> 36'55	1°28'09
minimum elong	4165 Aug 22 12:28	1° <b>™</b> 39'05	1°38'47	minimum elong	4166 Aug 06 20:28	16° <b>Ω</b> 25'12	1°27'54
max. Earth dist.	4165 Aug 25 13:29	8° Mp 04'14	1.33947 AU	max. Earth dist.	4166 Aug 08 16:36		1.32890 AU
evening rise	4165 Aug 30 09:10	17° <b>m</b> 50'53			4166 Aug 13 05:28	0° <b>m</b> ∕	
	4165 Sep 05 20:14	0∘ <b>ರ</b>		evening rise	4166 Aug 14 05:27	2°m/02'58	
desc. node	4165 Sep 15 22:36	16° <b>≏</b> 44'48			4166 Aug 29 17:05	0∘ <b>ত</b>	
	4165 Sep 25 09:52	0° <b>M</b>		desc. node	4166 Sep 02 19:36	6° <b>£</b> 11'31	
evening max el	4165 Oct 03 22:44	9°M33'37	27°12'58	evening max el	4166 Sep 16 09:36	22° <b>£</b> 41'14	27°26'44
retrograde	4165 Oct 17 08:12	16°M51'31		retrograde	4166 Sep 30 01:59	29° <b>≙</b> 57'12	
evening set	4165 Oct 24 06:21	14°M10'29		evening set	4166 Oct 07 06:14	27° <b>£</b> 22'35	
min. Earth dist.	4165 Oct 28 02:41	10°M31'31	0.64913 AU	min. Earth dist.	4166 Oct 10 21:56		0.63284 AU
inferior conj	4165 Oct 30 07:13	8°M06'37		inferior conj	4166 Oct 13 14:31	21° <b>£</b> 35'37	
minimum elong	4165 Oct 30 10:59	7°M56'13	2°11'34	minimum elong	4166 Oct 13 19:52	21° <b>£</b> 22'19	3°12'28
morning rise	4165 Nov 05 16:40	2°M35'10		morning rise	4166 Oct 20 10:57	16° <b>£</b> 21'02	
asc. node	4165 Nov 05 23:27 4165 Nov 08 08:01	2°M27'47 1°M58'23		direct	4166 Oct 22 21:26 4166 Oct 23 20:30	15° <b>♀</b> 52'46 15° <b>♀</b> 57'16	
direct morning max el		5°M25'39	19001156	asc. node morning max el			17°50'14
morning max er	4165 Nov 14 19:36 4165 Dec 01 07:19	3 1162339 0° <b>√</b>	18 01 30	morning max er	4166 Oct 29 12:13 4166 Nov 06 08:59	19° <b>≏</b> 18'13 0° <b>™</b>	17 30 14
morning set	4165 Dec 02 14:33	0 <b>x</b> ⁴ 2° <b>x</b> ⁴10'02		morning set	4166 Nov 14 20:49	14°ML32'20	
desc. node	4165 Dec 12 21:52	19° <b>₹</b> 05'28		morning set	4166 Nov 23 20:13	0° <b>√</b>	
dese. Hode	4103 Dec 12 21.32	17 × 03 20			4100 NOV 25 20.15	• ^	
superior conj	4165 Dec 16 14:59	25° <b>₹</b> 02'54	-0°25'22	superior conj	4166 Nov 26 21:04	5° <b>х</b> 04'35	0°20'10
minimum elong	4165 Dec 16 11:51	24° <b>×</b> 50'24		minimum elong	4166 Nov 26 23:07	5°×713'05	0°19'53
minimum ciong	4165 Dec 19 17:52	0°중	0 2133	desc. node	4166 Nov 29 18:52	9° <b>×</b> <sup>7</sup> 51'37	0 1755
max. Earth dist.	4165 Dec 20 12:20	1°る12'53	1.45001 AU	max. Earth dist.	4166 Dec 03 05:54	15° <b>×</b> <sup>7</sup> 27'21	1.44029 AU
evening rise	4166 Jan 01 22:20	20° <b>ට</b> 33'15		evening rise	4166 Dec 12 07:52	29° <b>х</b> 43'28	
<i>8</i> 21	4166 Jan 08 01:46	0° <b>≈</b>		<i>5</i>	4166 Dec 12 12:09	5°0	
greatest brilliancy	4166 Jan 15 18:57	11° <b>≈</b> 40′05	-0.7m		4167 Jan 01 19:43	0° <b>≈</b>	
evening max el	4166 Jan 27 16:29	27° <b>≈</b> 24'57	19°51'35	evening max el	4167 Jan 10 16:49	10° <b>≈</b> 57'37	20°56'24
	4166 Jan 30 14:33	0° <b>)</b>		retrograde	4167 Jan 19 02:53	15° <b>≈</b> 56′29	
asc. node	4166 Feb 01 22:44	1° <b>)</b> 19′31		asc. node	4167 Jan 19 19:45	15° <b>≈</b> 53'47	
retrograde	4166 Feb 04 04:51	1° <b>)</b> 46′53		evening set	4167 Jan 23 04:06	14° <b>≈</b> 23′11	
evening set	4166 Feb 07 20:44	0° <b>)</b> 28′32		inferior conj	4167 Jan 28 12:32	8° <b>≈</b> 11'16	2°36'24
	4166 Feb 08 11:32	30° <b>R</b> ≈		minimum elong	4167 Jan 28 10:04	8° <b>≈</b> 19'48	2°35'43
inferior conj	4166 Feb 13 06:57	24° <b>≈</b> 28'31	3°07'07	min. Earth dist.	4167 Jan 28 23:11	7° <b>≈</b> 34'37	0.67684 AU
minimum elong	4166 Feb 13 04:43	24° <b>≈</b> 35'56	3°06'41	morning rise	4167 Feb 02 15:51	1° <b>≈</b> 58'14	
min. Earth dist.	4166 Feb 14 06:39	23° <b>≈</b> 09'30	0.66978 AU		4167 Feb 05 18:53	30°Rる	
morning rise	4166 Feb 18 12:29	18° <b>≈</b> 14'34		direct	4167 Feb 08 00:55	29° <b>る</b> 36'05	
direct	4166 Feb 24 11:54	15° <b>≈</b> 34'24			4167 Feb 10 10:03	0° <b>≈</b>	
morning max el	4166 Mar 08 11:25	22° <b>≈</b> 43'34	25°18'23	morning max el	4167 Feb 18 19:59	6° <b>≈</b> 02'03	23°51'20
desc. node	4166 Mar 10 21:05	25°≈16'46		desc. node	4167 Feb 25 18:05	13°≈58'56	
	4166 Mar 14 21:15	0° <b>)</b> €			4167 Mar 09 09:15	0° <b>∺</b>	
	4166 Apr 04 12:39	0° <b>Υ</b>		morning set	4167 Mar 26 08:30	26° <b>¥</b> 58'57	
morning set	4166 Apr 13 16:22	15° <b>Y</b> 44'05	1 26415 ATT	Earth diet	4167 Mar 28 02:27	0° <b>Υ</b>	1 20505 ATT
max. Earth dist.	4166 Apr 17 08:31	22° <b>Y</b> 29'19	1.36415 AU	max. Earth dist.	4167 Mar 30 04:28	3° <b>Ƴ</b> 39'44	1.38505 AU
	4166 Apr 21 06:49	0° <b>8</b>		superior conj	4167 Apr 06 11:53	17° <b>Ƴ</b> 04'00	-1°37'38
superior conj	4166 Apr 23 10:33	4° <b>8</b> 14'11	-1°11'16	minimum elong	4167 Apr 06 16:38	17° <b>Υ</b> 26'30	
minimum elong	4166 Apr 23 14:21	4° <b>8</b> 33'04		minimum ciong	4167 Apr 13 04:31	0° <b>8</b>	1 37 03
asc. node	4166 Apr 30 22:04	19° <b>8</b> 20'35	1 10 50	evening rise	4167 Apr 15 13:04	4° <b>8</b> 37'02	
evening rise	4166 May 01 15:27	20° <b>8</b> 48'37		asc. node	4167 Apr 17 19:05	8° <b>8</b> 59'33	
e vennig rise	4166 May 06 07:10	0°II		use. Houe	4167 Apr 30 20:18	0°II	
evening max el	4166 May 19 00:40	19° <b>Ⅱ</b> 05'23	19°44'57	evening max el	4167 May 01 22:32	1° <b>Ⅱ</b> 07'46	18°52'10
retrograde	4166 May 28 22:32	23° <b>II</b> 54'57		retrograde	4167 May 10 07:05	5° <b>Ⅱ</b> 13'10	-
evening set	4166 May 30 21:22	23° <b>I</b> I44'33		evening set	4167 May 12 10:10	4° <b>Ⅱ</b> 58'17	
desc. node	4166 Jun 06 20:18	20° <b>Ⅲ</b> 50'45		inferior conj	4167 May 20 10:42	0° <b>П</b> 39'58	1°12'56
inferior conj	4166 Jun 08 17:17	19° <b>Ⅱ</b> 42′20	-0°33'21	minimum elong	4167 May 20 13:21	0° <b>Ⅲ</b> 35'11	1°12'02
minimum elong	4166 Jun 08 15:46	19° <b>Ⅱ</b> 44'41	0°32'47	3	4167 May 21 08:48	30° <b>₹</b> 8	
min. Earth dist.	4166 Jun 10 23:04	18° <b>Ⅱ</b> 19'15	0.55495 AU	min. Earth dist.	4167 May 23 15:07	28° <b>8</b> 23'28	0.56978 AU
morning rise	4166 Jun 17 07:56	15° <b>Ⅱ</b> 13'05		desc. node	4167 May 24 17:19	27° <b>8</b> 39'44	
direct	4166 Jun 21 17:23	14° <b>Ⅲ</b> 30′22		morning rise	4167 May 28 13:19	25° <b>8</b> 34'42	
morning max el	4166 Jul 05 15:00	21° <b>Ⅲ</b> 25'42	24°30'50	direct	4167 Jun 02 21:57	24° <b>8</b> 25'34	
	4166 Jul 13 01:51	$0$ $\circ$ $\odot$			4167 Jun 15 04:26	$\Pi^{\circ}0$	

	4167 I 17 05.57	10περι41	26904154	3:4	4160 M 14 16.41	40 <b>U</b> E014E	
morning max el	4167 Jun 17 05:57	1° <b>I</b> 52'41	26°04'54	direct	4168 May 14 16:41	4° <b>8</b> 59'45	2701 411 4
,	4167 Jul 07 03:45	0°95		morning max el	4168 May 29 02:04	12° <b>8</b> 46'53	2/°14'14
asc. node	4167 Jul 14 18:21	14°957'18			4168 Jun 11 16:17	0°∏	
morning set	4167 Jul 15 10:47	16°923'44			4168 Jun 28 06:57	0°5	
	4167 Jul 21 17:04	$0$ $^{\circ}$ $\Omega$		morning set	4168 Jun 28 19:38	1°506'09	
	41671 20 00 46	10.001156	1010100	asc. node	4168 Jun 30 15:23	4° <b>©</b> 57'43	
superior conj	4167 Jul 22 09:46	1° <b>Ω</b> 31'56			41 CO X 1 OF 21 25	1.0000.011.0	0050144
minimum elong	4167 Jul 22 07:26		1°12'10	superior conj	4168 Jul 05 21:35	16°526'19	
max. Earth dist.	4167 Jul 23 01:42	2° <b>Ω</b> 59'40	1.32243 AU	minimum elong	4168 Jul 05 19:33	16°5015'05	0°52'20
evening rise	4167 Jul 29 09:03	16° <b>Ω</b> 34'52		max. Earth dist.	4168 Jul 05 13:14	15° <b>©</b> 40'15	1.32005 AU
	4167 Aug 05 03:26	0° <b>m</b>			4168 Jul 12 02:36	0°N	
desc. node	4167 Aug 20 16:38	24° m 55'06		evening rise	4168 Jul 12 17:28	1° <b>Ω</b> 18'59	
	4167 Aug 24 18:20	0∘ <b>⊽</b>			4168 Jul 28 05:54	0° <b>т</b> р	
evening max el	4167 Aug 29 16:08	5° <b>£</b> 12'06	27°08'33	desc. node	4168 Aug 06 13:39	12° <b>m</b> 37'41	
retrograde	4167 Sep 12 12:42	12° <b>£</b> 24'49		evening max el	4168 Aug 10 15:56	16° Mp 56'14	26°17'11
evening set	4167 Sep 19 15:07	10° <b>Ω</b> 08'38		retrograde	4168 Aug 24 15:15	24° Mp 05'45	
min. Earth dist.	4167 Sep 23 06:28		0.61364 AU	evening set	4168 Aug 31 04:12	22° Tp 20'39	
inferior conj	4167 Sep 26 09:08	4° <b>≏</b> 41'55		min. Earth dist.	4168 Sep 04 05:02	19° <b>m</b> 45'37	0.59292 AU
minimum elong	4167 Sep 26 15:08	4° <b>≏</b> 28'44	4°09'02	inferior conj	4168 Sep 07 11:31	17° <b>m</b> 15'48	
	4167 Oct 03 03:03	30°R, Mp		minimum elong	4168 Sep 07 16:03	17° <b>m</b> 07'04	4°53'20
morning rise	4167 Oct 03 16:58	29° <b>m</b> 47'41		morning rise	4168 Sep 15 06:07	12° <b>m</b> 44'13	
direct	4167 Oct 06 01:24	29° <b>m</b> 24'54		direct	4168 Sep 17 15:38	12°Mp24'19	
	4167 Oct 08 21:59	0∘ <b>ত</b>		morning max el	4168 Sep 25 12:25	16° Mp 12'34	18°23'38
asc. node	4167 Oct 10 17:32	0° <b>ჲ</b> 58'41		asc. node	4168 Sep 26 14:35	17° Mp 19'23	
morning max el	4167 Oct 13 02:57	2° <b>≏</b> 57'00	17°57'03		4168 Oct 05 05:28	0∘ <b>⊽</b>	
morning set	4167 Oct 28 21:53	27° <b>≏</b> 48'17		morning set	4168 Oct 11 12:12	11° <b>≏</b> 41'36	
	4167 Oct 30 02:37	0°M₊				_	
				superior conj	4168 Oct 20 14:26	28° <b>£</b> 54'27	1°22'28
superior conj	4167 Nov 08 06:03	16°M25'30	0°56'50	minimum elong	4168 Oct 20 18:04	29° <b>Ω</b> 11'14	1°22'06
minimum elong	4167 Nov 08 10:08	16°M43'16	0°56'18		4168 Oct 21 04:42	0°M₊	
max. Earth dist.	4167 Nov 15 18:58	29°M13'04	1.42468 AU	max. Earth dist.	4168 Oct 28 02:25	12°M16'13	1.40518 AU
	4167 Nov 16 06:22	0°⊀		evening rise	4168 Nov 01 13:45	19°M48'43	
desc. node	4167 Nov 16 15:53	0° <b>∡</b> ³39'07		desc. node	4168 Nov 02 12:56	21°M24'05	
evening rise	4167 Nov 22 00:58	9° <b>∡</b> 18'43			4168 Nov 07 21:49	0° <b>∡</b>	
	4167 Dec 05 15:59	0°₹			4168 Nov 28 23:05	0°ප	
evening max el	4167 Dec 24 11:44	24° <b>る</b> 31'47	22°11'09	evening max el	4168 Dec 06 02:34	8° <b>る</b> 08'53	23°30'51
	4168 Jan 01 11:38	0° <b>≈</b>		retrograde	4168 Dec 16 17:23	14° <b>る</b> 25'31	
retrograde	4168 Jan 02 23:34	0° <b>≈</b> 10'44		evening set	4168 Dec 21 18:04	12° <b>る</b> 20'37	
	4168 Jan 04 10:15	30°₹₹		asc. node	4168 Dec 23 13:49	10° <b>る</b> 32'39	
asc. node	4168 Jan 06 16:47	28° <b>る</b> 57'07		min. Earth dist.	4168 Dec 26 15:52		0.67952 AU
evening set	4168 Jan 07 11:45	28° <b>る</b> 21'45		inferior conj	4168 Dec 27 03:53	5°₹55'36	1°11'33
inferior conj	4168 Jan 12 20:08	22° <b>る</b> 01'17	1°57'28	minimum elong	4168 Dec 27 02:18	6° <b>ප</b> 01'00	1°10'56
minimum elong	4168 Jan 12 17:53	22° <b>ろ</b> 09'06	1°56'42	morning rise	4169 Jan 01 10:29	29° <b>₹</b> 49'08	
min. Earth dist.	4168 Jan 12 19:03	22° <b>る</b> 05'05	0.68000 AU		4169 Jan 01 05:05	30°₽ <b>⋌</b>	
morning rise	4168 Jan 17 23:54	15° <b>る</b> 50'39		direct	4169 Jan 05 14:32	28° <b>≯</b> 11'48	
direct	4168 Jan 22 18:07	13° <b>る</b> 50'32			4169 Jan 10 10:33	0°ප	
morning max el	4168 Feb 01 06:54	19° <b>る</b> 27'33	22°22'40	morning max el	4169 Jan 13 23:30	3° <b>る</b> 02'22	21°00'33
	4168 Feb 10 03:19	0° <b>≈</b>		desc. node	4169 Jan 29 12:09	23° <b>る</b> 13'00	
desc. node	4168 Feb 12 15:06	3° <b>≈</b> 21'31			4169 Feb 03 02:28	0° <b>≈</b>	
	4168 Mar 01 13:56	0° <b>∀</b>		morning set	4169 Feb 13 06:12	15° <b>≈</b> 32'28	
morning set	4168 Mar 05 21:11	6° <b>)</b> 54′00		max. Earth dist.	4169 Feb 21 03:43	28° <b>≈</b> 09'08	1.42668 AU
max. Earth dist.	4168 Mar 11 01:04	15° <b>)</b> €27'46	1.40683 AU		4169 Feb 22 06:50	0° <b>∀</b>	
	41(0)M 10 2001	2001/02/11	1050102	·	41(0 F 1 20 05 52	001/57/07	2007141
superior conj	4168 Mar 18 20:01	29° <b>)</b> (2011)		superior conj	4169 Feb 28 05:53	9° <b>¥</b> 57'07 10° <b>¥</b> 00'12	
minimum elong	4168 Mar 19 00:08	29° <b>¥</b> 20'42 0° <b>Ƴ</b>	1-3/46	minimum elong	4169 Feb 28 06:36	0° <b>Υ</b> 22'10	2 0 / 40
avanina riaa	4168 Mar 19 08:53	0 γ 17° <b>Υ</b> 51'25		evening rise	4169 Mar 11 21:12	0 1 22 10 0° <b>γ</b>	
evening rise	4168 Mar 29 00:20			4-	4169 Mar 11 16:15		
asc. node	4168 Apr 03 16:07	28° <b>Ƴ</b> 19'03 0° <b>႘</b>		asc. node	4169 Mar 21 13:08 4169 Mar 28 15:51	17° <b>Υ</b> 12'08 26° <b>Υ</b> 44'57	18°07'06
avaning may al	4168 Apr 14 04:45	13° <b>8</b> 44'07	18°19'44	evening max el		26° <b>Y</b> 44'37	10 0/00
evening max el	4168 Apr 14 04:45	13° <b>6</b> 44'07	10 1744	retrogrado	4169 Apr 02 23:04	0° <b>8</b> 08'17	
retrograde	4168 Apr 21 10:39			retrograde	4169 Apr 04 06:38	0°80817 30°8Υ	
evening set	4168 Apr 23 20:21	16° <b>と</b> 57'38 12° <b>と</b> 19'22	2°29'02	ovening set	4169 Apr 05 14:26	30°Κ'\ 29° <b>Υ</b> 35'08	
inferior conj	4168 May 01 01:42	12° <b>8</b> 11'42	2°29'02 2°28'06	evening set	4169 Apr 06 22:45	29°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	3°14'08
minimum elong min. Earth dist.	4168 May 01 05:20	9° <b>8</b> 26'59	0.58988 AU	inferior conj	4169 Apr 13 12:17	24° <b>Y</b> '36'26 24° <b>Y</b> '30'17	3°14'08 3°13'44
	4168 May 04 12:11	6° <b>8</b> 43'44	0.50700 AU	minimum elong min. Earth dist.	4169 Apr 13 14:49 4169 Apr 16 16:17	$24^{\circ}$ \ \ \ \ 30'17 \ \ 21° \ \ \ \ \ \ 32'55	0.61178 AU
morning rise desc. node	4168 May 08 11:24 4168 May 10 14:20	5° <b>8</b> 45'06		min. Earth dist.	4169 Apr 10 10:17 4169 Apr 20 04:55	18° <b>Υ</b> 41'15	0.011/6 AU
dese. Houc	7100 Way 10 14.20	J <b>U</b> 4J 00		morning 1180	7107 Apr 20 04.33	10 14113	

direct	4169 Apr 26 22:54	16° <b>Ƴ</b> 23'49			4170 Apr 04 14:36	30°R <b>)</b> €	
desc. node	4169 Apr 27 11:21	16 <b>γ</b> 23 49 16° <b>γ</b> 24'36		direct	4170 Apr 04 14:30 4170 Apr 09 14:03	28° <b>)</b> (36'40	
morning max el	4169 Apr 27 11.21 4169 May 11 04:23	$24^{\circ}$ <b>Y</b> 20'57	27040140	desc. node	4170 Apr 14 08:24	28 <b>X</b> 30 40 29° <b>X</b> 43'18	
morning max er	4169 May 16 07:16	0° <b>8</b>	21 40 49	desc. node	4170 Apr 14 08:24 4170 Apr 14 22:37	29 <b>Λ</b> 4318	
		0°II		marning may al		6° <b>Υ</b> 35'03	27945145
	4169 Jun 04 23:53	0°Д 15°Д33'58		morning max el	4170 Apr 23 11:37	0° <b>8</b>	27-45.45
morning set	4169 Jun 13 00:21				4170 May 11 07:50		
asc. node	4169 Jun 17 12:27	25° <b>I</b> I04'26	1 22176 411	morning set	4170 May 27 22:37	29° <b>8</b> 38'55	
max. Earth dist.	4169 Jun 18 23:31	28° <b>Ⅱ</b> 14'37	1.32176 AU	To de lite	4170 May 28 02:49	0°П	1 22770 411
	4169 Jun 19 18:49	0ං <b>වෙ</b>		max. Earth dist.	4170 Jun 02 04:33	10° <b>Ⅱ</b> 29'17	1.32779 AU
	41.60 % 20.00 20		0000110	asc. node	4170 Jun 04 09:28	15° <b>Ⅱ</b> 12'17	
superior conj	4169 Jun 20 08:22	1°5514'13	0°29'19		4150 7 04 16 10	1.50 T 1010 F	0000155
minimum elong	4169 Jun 20 07:04	1°507'07	0°29'03	superior conj	4170 Jun 04 16:13	15° <b>Ⅱ</b> 48'37	0°02'57
evening rise	4169 Jun 27 04:34	16°908'32		minimum elong	4170 Jun 04 16:04	15° <b>∏</b> 47'49	0°02'56
	4169 Jul 04 01:11	$0$ ° $\Omega$		behind sun begin	4170 Jun 04 10:52	15° <b>Ⅱ</b> 19'46	
evening max el	4169 Jul 23 08:40	27° <b>Ω</b> 54'37	24°57'47	behind sun end	4170 Jun 04 21:16	16° <b>∏</b> 15'54	
desc. node	4169 Jul 24 10:41	28° <b>Ω</b> 54'52			4170 Jun 11 05:52	0ა <b>ௐ</b>	
	4169 Jul 25 17:02	0° <b>m</b> ∕		evening rise	4170 Jun 11 16:23	0° <b>©</b> 55'56	
retrograde	4169 Aug 06 07:21	4° <b>ዀ</b> 57'50			4170 Jun 27 20:00	$0$ ° $\Omega$	
evening set	4169 Aug 11 17:25	3° m 51'02		evening max el	4170 Jul 04 21:39	8° <b>Ω</b> 21'58	23°22'31
min. Earth dist.	4169 Aug 16 20:13	1° <b>m</b> 05'41	0.57314 AU	desc. node	4170 Jul 11 07:42	13° <b>Ω</b> 13'22	
	4169 Aug 18 12:06	$30^{\circ}$ R $\Omega$		retrograde	4170 Jul 18 10:37	15° <b>Ω</b> 08'31	
inferior conj	4169 Aug 19 18:39	29° <b>Ω</b> 08'48	-5°11'53	evening set	4170 Jul 22 08:52	14° <b>Ω</b> 34'47	
minimum elong	4169 Aug 19 18:41	29° <b>Ω</b> 08'45	5°11'53	min. Earth dist.	4170 Jul 29 07:16	11° <b>Ω</b> 23'35	0.55744 AU
morning rise	4169 Aug 27 22:22	24° <b>Ω</b> 59'12		inferior conj	4170 Jul 31 05:46	10° <b>Ω</b> 15′04	-4°48'32
direct	4169 Aug 30 12:14	24° <b>Ω</b> 40′04		minimum elong	4170 Jul 30 23:42	10° <b>Ω</b> 24'03	4°47'37
morning max el	4169 Sep 08 13:20	28° <b>Ω</b> 55′21	19°11'18	morning rise	4170 Aug 08 16:56	6° <b>Ω</b> 21'39	
	4169 Sep 09 15:17	0° <b>m</b> )		direct	4170 Aug 11 13:48	6° <b>Ω</b> 01'35	
asc. node	4169 Sep 13 11:39	4° Mp 44'26		morning max el	4170 Aug 22 02:54	10° <b>Ω</b> 55'24	20°20'46
morning set	4169 Sep 25 11:41	26° Mp 01'18		asc. node	4170 Aug 31 08:43	22° <b>Ω</b> 58'54	
	4169 Sep 27 11:37	0∘ <b>ত</b>			4170 Sep 04 07:56	o∘ <b>m</b> p	
	•			morning set	4170 Sep 09 17:17	10° mp 38'20	
superior conj	4169 Oct 03 16:43	12° <b>♀</b> 15'59	1°37'40		•	-	
minimum elong	4169 Oct 03 18:52	12° <b>≏</b> 26′23	1°37'32	superior conj	4170 Sep 17 07:55	26° Mp 15'25	1°43'52
max. Earth dist.	4169 Oct 10 06:56	24° <b>£</b> 38'42	1.38431 AU	minimum elong	4170 Sep 17 08:24	26° m) 17'53	1°43'51
	4169 Oct 13 06:56	0° <b>M</b> .		· ·	4170 Sep 19 04:40	0° <u>ٽ</u>	
evening rise	4169 Oct 14 01:56	1°ML23'04		max. Earth dist.	4170 Sep 22 13:32	6° <b>£</b> 35'46	1.36444 AU
desc. node	4169 Oct 20 10:00	12°ML02'44		evening rise	4170 Sep 26 11:07	13° <b>≏</b> 55'15	
	4169 Nov 01 03:46	0° <b>∡</b> 7			4170 Oct 05 17:55	0°M	
evening max el	4169 Nov 18 15:28	21° <b>х</b> 50'27	24°49'06	desc. node	4170 Oct 07 07:02	2°M29'59	
retrograde	4169 Nov 30 07:11	28° <b>∡</b> ¹36'57			4170 Oct 26 23:36	0° <b>⊼</b>	
evening set	4169 Dec 05 21:28	26° <b>∡</b> 16'55		evening max el	4170 Nov 01 03:59	5° <b>≯</b> 33'23	25°58'45
asc. node	4169 Dec 10 10:51	21° <b>×</b> <sup>7</sup> 08'12		retrograde	4170 Nov 13 16:06	12° <b>×</b> 39'40	20 00 .0
min. Earth dist.	4169 Dec 10 11:13	21° <b>×</b> <sup>7</sup> 07'01	0.67554 AU	evening set	4170 Nov 19 20:12	10° <b>₹</b> 06'53	
inferior conj	4169 Dec 11 09:58	19° <b>×</b> 751'46	0°19'41	min. Earth dist.	4170 Nov 24 02:41	5° <b>₹</b> 32'16	0.66806 AU
minimum elong	4169 Dec 11 09:29	19° <b>×</b> 753'22		inferior conj	4170 Nov 25 12:34	3° <b>×</b> <sup>7</sup> 46'19	
morning rise	4169 Dec 16 21:38	13° <b>×</b> 751'42	0 1920	minimum elong	4170 Nov 25 13:33	3° <b>×</b> <sup>7</sup> 43'14	
direct	4169 Dec 20 12:56	12° <b>×</b> 35'34		asc. node	4170 Nov 27 07:54	1°×734'15	0 30 41
morning max el	4169 Dec 27 23:54	16° <b>1</b> 48'41	19°50'31	usc. 110de	4170 Nov 28 18:23	30°RM	
morning max ci	4170 Jan 07 08:19	0°중	17 30 31	morning rise	4170 Dec 01 07:19	27°M55'14	
desc. node	4170 Jan 16 09:12	0 3 13° <b>る</b> 25'37		direct	4170 Dec 01 07:19 4170 Dec 04 11:37	26°M57'22	
morning set	4170 Jan 23 02:11	23° <b>ප්</b> 41'43		direct	4170 Dec 04 11:37 4170 Dec 10 13:21	0° <b>√</b>	
morning set	4170 Jan 27 03:47	23 <b>⊙</b> 41 43		morning max el	4170 Dec 10 13:21 4170 Dec 11 07:51	0° <b>⊼</b> 144'24	10055120
may Earth dist	4170 Feb 03 14:27	0 ≈ 11°≈42'52	1.44202 AU	morning max er		0 x 44 24 0°る	16 33 29
max. Earth dist.	41/0 Feb 05 14.2/	11 ≈42 32	1.44202 AU		4170 Dec 31 18:37	0 3 2° <b>る</b> 36'12	
	4170 E-1- 00 14:04	1000 042111	2001107	morning set	4171 Jan 02 10:33		
superior conj	4170 Feb 08 14:04 4170 Feb 08 08:51	19°≈43'11 19°≈22'02		desc. node	4171 Jan 03 06:16 4171 Jan 17 07:17	3°る53'20 25°る52'56	1.45091 AU
minimum elong			2-00-52	max. Earth dist.	41/1 Jan 1/ 0/:1/	25 652 56	1.45091 AU
ovenie – -i-	4170 Feb 14 20:16	0° <b>₩</b>		aumoni '	4171 I 10 22 55	200=22240	1025101
evening rise	4170 Feb 21 23:20	12° <b>米</b> 01′19		superior conj	4171 Jan 18 23:55	28° <b>る</b> 32'49	
1	4170 Mar 04 16:56	0° <b>Υ</b>		minimum elong	4171 Jan 18 14:41	27° <b>る</b> 56'27	1~34'08
asc. node	4170 Mar 08 10:10	5° <b>Υ</b> 30'33	1001223		4171 Jan 19 22:03	0°≈	
evening max el	4170 Mar 12 04:40	10° <b>Y</b> 01'47	18°13'31	evening rise	4171 Feb 03 03:07	22°≈44'19	
retrograde	4170 Mar 18 14:44	13° <b>Y</b> 26'32			4171 Feb 07 14:19	0° <b>)</b> {	
evening set	4170 Mar 21 12:51	12° <b>Y</b> 41'48	2022:	asc. node	4171 Feb 23 07:12	23° <b>)</b> (04'14	1000011
inferior conj	4170 Mar 27 14:32	7° <b>Y</b> 23′27		evening max el	4171 Feb 23 16:24	23°\(\frac{1}{2}\)28'05	18°38'15
minimum elong	4170 Mar 27 15:19	7° <b>Υ</b> 21'17	3°33'50	retrograde	4171 Mar 02 06:50	27° <b>)</b> (07'07	
min. Earth dist.	4170 Mar 30 05:06	4° <b>Y</b> 32′28	0.63254 AU	evening set	4171 Mar 05 11:02	26° <b>)</b> 10′00	202
morning rise	4170 Apr 02 16:44	1° <b>Ƴ</b> 17'17		inferior conj	4171 Mar 11 04:28	20° <b>)</b> 33'34	3°34'23

minimum elong	4171 Mar 11 03:41	20° <b>)</b> (35′53	3°34'21	min. Earth dist.	4172 Feb 24 10:24	2°¥16'47	0.66383 AU
min. Earth dist.	4171 Mar 13 03:41	18° <b>X</b> 11'59	0.65020 AU	mm. Latur dist.	4172 Feb 26 06:56	2 7(10 47 30°R≈	0.00363 AC
morning rise	4171 Mar 16 19:51	14° <b>)</b> (21'53	0.03020710	morning rise	4172 Feb 28 10:46	27°≈45'50	
direct	4171 Mar 23 12:31	11° <b>)</b> (21'33		direct	4172 Mar 05 17:22	24°≈58'59	
desc. node	4171 Apr 01 05:25	15° <b>)</b> 11'55		uncet	4172 Mar 15 16:53	0° <b>∀</b>	
morning max el	4171 Apr 05 21:26	19° <b>₩</b> 21'41	27°08'18	desc. node	4172 Mar 18 02:27	2° <b>)</b> 15'48	
morning man or	4171 Apr 14 22:44	0°Υ	27 00 10	morning max el	4172 Mar 18 07:17	2° <b>)</b> 27'56	26°03'50
	4171 May 04 08:06	0°8		morning man er	4172 Apr 08 03:04	0°Υ	20 03 00
morning set	4171 May 11 11:34	13° <b>8</b> 12'59		morning set	4172 Apr 23 11:20	26° <b>Y</b> ′04'44	
max. Earth dist.	4171 May 16 00:42	22° <b>8</b> 15'08	1.33837 AU		4172 Apr 25 13:31	0°8	
	,,	0		max. Earth dist.	4172 Apr 27 09:25	3° <b>8</b> 30'23	1.35353 AU
superior conj	4171 May 19 19:09	0° <b>耳</b> 03'41	-0°25'31		1		
minimum elong	4171 May 19 20:29	0° <b>Ⅱ</b> 10'41	0°25'14	superior conj	4172 May 02 14:44	13° <b>8</b> 52'19	-0°54'46
	4171 May 19 18:27	0°П		minimum elong	4172 May 02 17:41	14° <b>8</b> 07'17	
asc. node	4171 May 22 06:31	5° <b>Ⅱ</b> 17'37		asc. node	4172 May 08 03:32	25° <b>8</b> 16'04	
evening rise	4171 May 27 03:05	15° <b>Ⅲ</b> 35'27		evening rise	4172 May 10 10:38	0° <b>П</b> 00'26	
Ü	4171 Jun 03 09:22	0ಂಣ		S	4172 May 10 10:33	$\Pi^{\circ}0$	
evening max el	4171 Jun 16 14:22	18° <b>©</b> 49'37	21°47'08	evening max el	4172 May 28 17:41	29° <b>∏</b> 47'24	20°24'16
desc. node	4171 Jun 28 04:40	24°959'02		<i>5</i>	4172 May 28 22:54	0°ಅ	
retrograde	4171 Jun 29 02:49	25° <b>©</b> 01'01		retrograde	4172 Jun 08 16:04	5° <b>©</b> 07'48	
evening set	4171 Jul 01 17:32	24°9545'38		evening set	4172 Jun 10 15:47	4° <b>©</b> 57'56	
min. Earth dist.	4171 Jul 10 17:38	20° <b>©</b> 54'57	0.54900 AU	desc. node	4172 Jun 14 01:39	3° <b>©</b> 59'17	
inferior conj	4171 Jul 11 02:02	20°543'11		inferior conj	4172 Jun 19 20:10	1° <b>©</b> 00'04	-1°42'20
minimum elong	4171 Jul 10 17:31	20° <b>©</b> 55'06		minimum elong	4172 Jun 19 15:22	1° <b>©</b> 07'05	
morning rise	4171 Jul 19 18:53	16° <b>©</b> 51'15		min. Earth dist.	4172 Jun 21 05:39	0° <b>©</b> 11'15	0.54995 AU
direct	4171 Jul 23 01:05	16° <b>©</b> 27'59			4172 Jun 21 13:27	30°RⅡ	
morning max el	4171 Aug 04 04:43		21°49'59	morning rise	4172 Jun 28 13:52	26° <b>∏</b> 48'42	
	4171 Aug 10 22:17	$0^{\circ}\Omega$		direct	4172 Jul 02 11:03	26° <b>Ⅱ</b> 16′08	
asc. node	4171 Aug 18 05:46	11° <b>Ω</b> 50'58			4172 Jul 12 13:04	0ം <b>ഉ</b>	
morning set	4171 Aug 25 02:43	25° <b>Ω</b> 26′13		morning max el	4172 Jul 15 21:45	2° <b>©</b> 47'58	23°31'44
Č	4171 Aug 27 06:49	O° Mp		Ü	4172 Aug 03 12:12	$0^{\circ}\Omega$	
	C	•		asc. node	4172 Aug 04 02:48	1° <b>Ω</b> 11'14	
superior conj	4171 Sep 01 08:10	10° Mp 41'27	1°42'34	morning set	4172 Aug 08 14:06	10° <b>Ω</b> 19'31	
minimum elong	4171 Sep 01 07:16	10° Mp 36'47	1°42'31	· ·	C		
max. Earth dist.	4171 Sep 05 02:51	18° m 29'36	1.34744 AU	superior conj	4172 Aug 15 14:28	25° <b>Ω</b> 24'59	1°34'59
evening rise	4171 Sep 09 13:06	27° m 14'43		minimum elong	4172 Aug 15 12:38	25° <b>Ω</b> 15'07	1°34'49
Ü	4171 Sep 10 23:49	0∘ <u>⊽</u>		6	4172 Aug 17 17:53	0° <b>m</b> )	
desc. node	4171 Sep 24 04:02	22° <b>£</b> 40'06		max. Earth dist.	4172 Aug 18 00:58	0° mp 37'33	1.33435 AU
	4171 Sep 29 01:13	0°M₊		evening rise	4172 Aug 23 03:44	11° <b>m</b> )10'31	
evening max el	4171 Oct 14 16:32	19°M10'36	26°52'14	Ü	4172 Sep 02 07:06	0° <u>ٽ</u>	
retrograde	4171 Oct 27 19:38	26°M26'55		desc. node	4172 Sep 10 01:01	12° <b>≏</b> 25'36	
evening set	4171 Nov 03 12:12	23°M46'24			4172 Sep 23 15:46	0°M	
min. Earth dist.	4171 Nov 07 11:53	19° <b>M</b> 47'40	0.65706 AU	evening max el	4172 Sep 26 04:24	2°M32'30	27°22'29
inferior conj	4171 Nov 09 09:35	17°M35'05		retrograde	1		
minimum elong	4171 Nov 09 12:19	170 <b>m</b> 27100		TCHOgrade	4172 Oct 09 17:26	9°M50'56	
asc. node		1/~1162/709	1°36'21	•		9°M50'56 7°M10'55	
			1°36'21	evening set	4172 Oct 09 17:26 4172 Oct 16 18:57 4172 Oct 20 12:49	7° <b>ጤ</b> 10'55	0.64255 AU
morning rise	4171 Nov 14 04:57 4171 Nov 15 13:16	17°M27'09 12°M46'05 11°M55'51	1°36'21	evening set min. Earth dist.	4172 Oct 16 18:57		
morning rise direct	4171 Nov 14 04:57	12°M46'05	1°36'21	evening set	4172 Oct 16 18:57 4172 Oct 20 12:49	7°M10'55 3°M46'31	-2°39'16
Č	4171 Nov 14 04:57 4171 Nov 15 13:16	12°M46'05 11°M55'51	1°36'21 18°16'39	evening set min. Earth dist. inferior conj	4172 Oct 16 18:57 4172 Oct 20 12:49 4172 Oct 22 22:43	7°M10'55 3°M46'31 1°M13'35	-2°39'16
direct	4171 Nov 14 04:57 4171 Nov 15 13:16 4171 Nov 18 08:39	12°M46'05 11°M55'51 11°M12'32		evening set min. Earth dist. inferior conj	4172 Oct 16 18:57 4172 Oct 20 12:49 4172 Oct 22 22:43 4172 Oct 23 03:13	7°M10'55 3°M46'31 1°M13'35 1°M01'40	-2°39'16
direct	4171 Nov 14 04:57 4171 Nov 15 13:16 4171 Nov 18 08:39 4171 Nov 24 21:24	12°M46'05 11°M55'51 11°M12'32 14°M44'13		evening set min. Earth dist. inferior conj minimum elong	4172 Oct 16 18:57 4172 Oct 20 12:49 4172 Oct 22 22:43 4172 Oct 23 03:13 4172 Oct 24 02:54	7°M10'55 3°M46'31 1°M13'35 1°M01'40 30°R <b>≏</b>	-2°39'16
direct morning max el	4171 Nov 14 04:57 4171 Nov 15 13:16 4171 Nov 18 08:39 4171 Nov 24 21:24 4171 Dec 05 22:36	12°M46′05 11°M55′51 11°M12′32 14°M44′13 0°⊀		evening set min. Earth dist. inferior conj minimum elong morning rise	4172 Oct 16 18:57 4172 Oct 20 12:49 4172 Oct 22 22:43 4172 Oct 23 03:13 4172 Oct 24 02:54 4172 Oct 29 12:46	7°ጤ10'55 3°ጤ46'31 1°ጤ13'35 1°ጤ01'40 30°R <u>Ω</u> 25° <u>Ω</u> 49'09	-2°39'16
direct morning max el morning set	4171 Nov 14 04:57 4171 Nov 15 13:16 4171 Nov 18 08:39 4171 Nov 24 21:24 4171 Dec 05 22:36 4171 Dec 13 22:44	12°M46'05 11°M55'51 11°M12'32 14°M44'13 0°\$\mathred{\mathred{\sigma}} 12°\$\mathred{\sigma}'55'36		evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct	4172 Oct 16 18:57 4172 Oct 20 12:49 4172 Oct 22 22:43 4172 Oct 23 03:13 4172 Oct 24 02:54 4172 Oct 29 12:46 4172 Oct 31 02:00	7° <b>M</b> 10'55 3° <b>M</b> 46'31 1° <b>M</b> 13'35 1° <b>M</b> 01'40 30° <u>R</u> Ω 25° Ω 49'09 25° Ω 21'30	-2°39'16
direct morning max el morning set	4171 Nov 14 04:57 4171 Nov 15 13:16 4171 Nov 18 08:39 4171 Nov 24 21:24 4171 Dec 05 22:36 4171 Dec 13 22:44 4171 Dec 21 03:17	12°M.46'05 11°M.55'51 11°M.12'32 14°M.44'13 0° \$\mathrightarrow{7}\$ 12° \$\mathrightarrow{7}\$55'36 24° \$\mathrightarrow{3}\$0'59		evening set min. Earth dist. inferior conj minimum elong morning rise asc. node	4172 Oct 16 18:57 4172 Oct 20 12:49 4172 Oct 22 22:43 4172 Oct 23 03:13 4172 Oct 24 02:54 4172 Oct 29 12:46 4172 Oct 31 02:00 4172 Nov 01 01:36	7° ጤ10'55 3° ጤ46'31 1° ጤ13'35 1° ጤ01'40 30° <u>R                                   </u>	-2°39'16 2°37'36
direct morning max el morning set desc. node	4171 Nov 14 04:57 4171 Nov 15 13:16 4171 Nov 18 08:39 4171 Nov 24 21:24 4171 Dec 05 22:36 4171 Dec 13 22:44 4171 Dec 21 03:17	12°M.46'05 11°M.55'51 11°M.12'32 14°M.44'13 0° \$\mathrightarrow{7}\$ 12° \$\mathrightarrow{7}\$55'36 24° \$\mathrightarrow{3}\$0'59	18°16'39	evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el	4172 Oct 16 18:57 4172 Oct 20 12:49 4172 Oct 22 22:43 4172 Oct 23 03:13 4172 Oct 24 02:54 4172 Oct 29 12:46 4172 Oct 31 02:00 4172 Nov 01 01:36 4172 Nov 07 13:50	7°	-2°39'16 2°37'36
direct morning max el morning set	4171 Nov 14 04:57 4171 Nov 15 13:16 4171 Nov 18 08:39 4171 Nov 24 21:24 4171 Dec 05 22:36 4171 Dec 13 22:44 4171 Dec 21 03:17 4171 Dec 24 13:53	12°M46'05 11°M55'51 11°M12'32 14°M44'13 0°ズ 12°ズ55'36 24°ズ30'59 0°石	18°16'39 -0°52'50	evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct	4172 Oct 16 18:57 4172 Oct 20 12:49 4172 Oct 22 22:43 4172 Oct 23 03:13 4172 Oct 24 02:54 4172 Oct 29 12:46 4172 Oct 31 02:00 4172 Nov 01 01:36 4172 Nov 07 13:50 4172 Nov 08 19:04	7°	-2°39'16 2°37'36
direct morning max el morning set desc. node superior conj	4171 Nov 14 04:57 4171 Nov 15 13:16 4171 Nov 18 08:39 4171 Nov 24 21:24 4171 Dec 05 22:36 4171 Dec 13 22:44 4171 Dec 21 03:17 4171 Dec 24 13:53 4171 Dec 29 02:33	12°M46'05 11°M55'51 11°M12'32 14°M44'13 0°ダ 12°ダ55'36 24°ダ30'59 0°उ	18°16'39 -0°52'50	evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el	4172 Oct 16 18:57 4172 Oct 20 12:49 4172 Oct 22 22:43 4172 Oct 23 03:13 4172 Oct 24 02:54 4172 Oct 29 12:46 4172 Oct 31 02:00 4172 Nov 01 01:36 4172 Nov 07 13:50 4172 Nov 08 19:04 4172 Nov 24 15:22	7° M 10'55 3° M 46'31 1° M 13'35 1° M 01'40 30° R Ω 25° Ω 49'09 25° Ω 21'30 25° Ω 16'33 28° Ω 42'09 0° M 24° M 38'40	-2°39'16 2°37'36
direct morning max el morning set desc. node superior conj minimum elong	4171 Nov 14 04:57 4171 Nov 15 13:16 4171 Nov 18 08:39 4171 Nov 24 21:24 4171 Dec 05 22:36 4171 Dec 13 22:44 4171 Dec 21 03:17 4171 Dec 24 13:53 4171 Dec 29 02:33 4171 Dec 28 19:58	12°M46'05 11°M55'51 11°M12'32 14°M44'13 0°ズ 12°ズ55'36 24°ズ30'59 0°उ 7°云09'13 6°云43'17	18°16'39 -0°52'50 0°51'58	evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set	4172 Oct 16 18:57 4172 Oct 20 12:49 4172 Oct 22 22:43 4172 Oct 23 03:13 4172 Oct 24 02:54 4172 Oct 29 12:46 4172 Oct 31 02:00 4172 Nov 01 01:36 4172 Nov 07 13:50 4172 Nov 08 19:04 4172 Nov 24 15:22 4172 Nov 27 19:14	7° M 10'55 3° M 46'31 1° M 13'35 1° M 01'40 30° R Ω 25° Ω 49'09 25° Ω 21'30 25° Ω 16'33 28° Ω 42'09 0° M 24° M 38'40 0° 🖍	-2°39'16 2°37'36
direct morning max el morning set desc. node superior conj minimum elong	4171 Nov 14 04:57 4171 Nov 15 13:16 4171 Nov 18 08:39 4171 Nov 24 21:24 4171 Dec 05 22:36 4171 Dec 13 22:44 4171 Dec 21 03:17 4171 Dec 24 13:53 4171 Dec 29 02:33 4171 Dec 28 19:58 4171 Dec 31 02:33	12°M46'05 11°M55'51 11°M12'32 14°M44'13 0°ズ 12°ズ55'36 24°ズ30'59 0°उ 7°उ09'13 6°उ43'17	18°16'39 -0°52'50 0°51'58	evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set	4172 Oct 16 18:57 4172 Oct 20 12:49 4172 Oct 22 22:43 4172 Oct 23 03:13 4172 Oct 24 02:54 4172 Oct 29 12:46 4172 Oct 31 02:00 4172 Nov 01 01:36 4172 Nov 07 13:50 4172 Nov 08 19:04 4172 Nov 24 15:22 4172 Nov 27 19:14	7° M 10'55 3° M 46'31 1° M 13'35 1° M 01'40 30° R Ω 25° Ω 49'09 25° Ω 21'30 25° Ω 16'33 28° Ω 42'09 0° M 24° M 38'40 0° 🖍	-2°39'16 2°37'36 17°54'49
direct morning max el morning set desc. node  superior conj minimum elong max. Earth dist.	4171 Nov 14 04:57 4171 Nov 15 13:16 4171 Nov 18 08:39 4171 Nov 24 21:24 4171 Dec 05 22:36 4171 Dec 13 22:44 4171 Dec 21 03:17 4171 Dec 24 13:53  4171 Dec 29 02:33 4171 Dec 31 02:33 4171 Dec 31 02:33 4172 Jan 12 16:53	12°M46'05 11°M55'51 11°M12'32 14°M44'13 0°√2 12°√3'55'36 24°√3'30'59 0°♂ 7°♂09'13 6°♂43'17 10°♂17'50 0°≈	18°16'39 -0°52'50 0°51'58 1.45244 AU	evening set min. Earth dist. inferior conj minimum elong  morning rise asc. node direct morning max el  morning set desc. node	4172 Oct 16 18:57 4172 Oct 20 12:49 4172 Oct 22 22:43 4172 Oct 23 03:13 4172 Oct 24 02:54 4172 Oct 29 12:46 4172 Oct 31 02:00 4172 Nov 01 01:36 4172 Nov 07 13:50 4172 Nov 08 19:04 4172 Nov 24 15:22 4172 Nov 27 19:14 4172 Dec 07 00:19	7° M 10'55 3° M 46'31 1° M 13'35 1° M 01'40 30° R Ω 25° Ω 49'09 25° Ω 21'30 25° Ω 16'33 28° Ω 42'09 0° M 24° M 38'40 0° ズ 15° ズ 15'20	-2°39'16 2°37'36 17°54'49
direct morning max el  morning set desc. node  superior conj minimum elong max. Earth dist. evening rise	4171 Nov 14 04:57 4171 Nov 15 13:16 4171 Nov 18 08:39 4171 Nov 24 21:24 4171 Dec 05 22:36 4171 Dec 13 22:44 4171 Dec 21 03:17 4171 Dec 24 13:53  4171 Dec 29 02:33 4171 Dec 31 02:33 4172 Jan 12 16:53 4172 Jan 14 08:03 4172 Jan 25 17:42	12°M.46'05 11°M.55'51 11°M.12'32 14°M.44'13 0°ズ 12°ズ55'36 24°ズ30'59 0°उ 7°उ09'13 6°उ43'17 10°उ17'50 0°≈ 2°≈33'03	18°16'39 -0°52'50 0°51'58 1.45244 AU	evening set min. Earth dist. inferior conj minimum elong  morning rise asc. node direct morning max el  morning set desc. node superior conj	4172 Oct 16 18:57 4172 Oct 20 12:49 4172 Oct 22 22:43 4172 Oct 23 03:13 4172 Oct 24 02:54 4172 Oct 29 12:46 4172 Oct 31 02:00 4172 Nov 01 01:36 4172 Nov 07 13:50 4172 Nov 08 19:04 4172 Nov 24 15:22 4172 Nov 27 19:14 4172 Dec 07 00:19	7°M10'55 3°M46'31 1°M13'35 1°M01'40 30°R Ω 25° Ω49'09 25° Ω21'30 25° Ω16'33 28° Ω42'09 0°M 24°M38'40 0° 🗷 15° 🗷 15'20	-2°39'16 2°37'36 17°54'49 -0°05'21
direct morning max el morning set desc. node  superior conj minimum elong max. Earth dist.  evening rise greatest brilliancy	4171 Nov 14 04:57 4171 Nov 15 13:16 4171 Nov 18 08:39 4171 Nov 24 21:24 4171 Dec 05 22:36 4171 Dec 13 22:44 4171 Dec 21 03:17 4171 Dec 24 13:53 4171 Dec 29 02:33 4171 Dec 28 19:58 4171 Dec 31 02:33 4172 Jan 12 16:53 4172 Jan 14 08:03	12°M46'05 11°M55'51 11°M12'32 14°M44'13 0°ズ 12°ズ55'36 24°ズ30'59 0°उ 7°उ09'13 6°उ43'17 10°उ17'50 0°≈ 2°≈33'03 20°≈16'25	18°16'39 -0°52'50 0°51'58 1.45244 AU	evening set min. Earth dist. inferior conj minimum elong  morning rise asc. node direct morning max el  morning set  desc. node  superior conj minimum elong	4172 Oct 16 18:57 4172 Oct 20 12:49 4172 Oct 22 22:43 4172 Oct 23 03:13 4172 Oct 24 02:54 4172 Oct 29 12:46 4172 Oct 31 02:00 4172 Nov 01 01:36 4172 Nov 07 13:50 4172 Nov 08 19:04 4172 Nov 24 15:22 4172 Nov 27 19:14 4172 Dec 07 00:19  4172 Dec 07 18:49 4172 Dec 07 18:12	7°M10'55 3°M46'31 1°M13'35 1°M01'40 30°R Ω 25° Ω49'09 25° Ω21'30 25° Ω16'33 28° Ω42'09 0°M 24°M38'40 0° ¾ 15° ¾15'20	-2°39'16 2°37'36 17°54'49 -0°05'21
direct morning max el  morning set desc. node  superior conj minimum elong max. Earth dist. evening rise	4171 Nov 14 04:57 4171 Nov 15 13:16 4171 Nov 18 08:39 4171 Nov 24 21:24 4171 Dec 05 22:36 4171 Dec 13 22:44 4171 Dec 21 03:17 4171 Dec 24 13:53 4171 Dec 28 19:58 4171 Dec 31 02:33 4172 Jan 12 16:53 4172 Jan 14 08:03 4172 Jan 25 17:42 4172 Feb 01 08:38	12°M.46'05 11°M.55'51 11°M.12'32 14°M.44'13 0°ズ 12°ズ55'36 24°ズ30'59 0°उ 7°ठ09'13 6°ठ43'17 10°ठ17'50 0°≈ 2°≈33'03 20°≈16'25 0°升 6°升58'15	18°16'39 -0°52'50 0°51'58 1.45244 AU -0.7m	evening set min. Earth dist. inferior conj minimum elong  morning rise asc. node direct morning max el  morning set desc. node  superior conj minimum elong behind sun begin	4172 Oct 16 18:57 4172 Oct 20 12:49 4172 Oct 22 22:43 4172 Oct 23 03:13 4172 Oct 24 02:54 4172 Oct 29 12:46 4172 Oct 31 02:00 4172 Nov 01 01:36 4172 Nov 07 13:50 4172 Nov 08 19:04 4172 Nov 24 15:22 4172 Nov 27 19:14 4172 Dec 07 00:19  4172 Dec 07 18:49 4172 Dec 07 08:31	7°M10'55 3°M46'31 1°M13'35 1°M01'40 30°R Ω 25° Ω49'09 25° Ω21'30 25° Ω16'33 28° Ω42'09 0°M 24°M38'40 0° 🕏 15° ₹15'20 16° ₹30'17 16° ₹27'46 15° ₹48'37	-2°39'16 2°37'36 17°54'49 -0°05'21
direct morning max el  morning set desc. node  superior conj minimum elong max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node	4171 Nov 14 04:57 4171 Nov 15 13:16 4171 Nov 18 08:39 4171 Nov 24 21:24 4171 Dec 05 22:36 4171 Dec 13 22:44 4171 Dec 21 03:17 4171 Dec 24 13:53  4171 Dec 29 02:33 4171 Dec 28 19:58 4171 Dec 31 02:33 4172 Jan 12 16:53 4172 Jan 14 08:03 4172 Jan 25 17:42 4172 Feb 01 08:38 4172 Feb 07 00:45 4172 Feb 10 04:14	12°M.46'05 11°M.55'51 11°M.12'32 14°M.44'13 0°ズ 12°ズ55'36 24°ズ30'59 0°उ 7°ठ09'13 6°ठ43'17 10°ठ17'50 0°≈ 2°≈33'03 20°≈16'25 0°升 6°升58'15 9°升39'37	18°16'39 -0°52'50 0°51'58 1.45244 AU -0.7m	evening set min. Earth dist. inferior conj minimum elong  morning rise asc. node direct morning max el  morning set desc. node  superior conj minimum elong behind sun begin behind sun end	4172 Oct 16 18:57 4172 Oct 20 12:49 4172 Oct 22 22:43 4172 Oct 23 03:13 4172 Oct 24 02:54 4172 Oct 29 12:46 4172 Oct 31 02:00 4172 Nov 01 01:36 4172 Nov 08 19:04 4172 Nov 24 15:22 4172 Nov 27 19:14 4172 Dec 07 00:19  4172 Dec 07 18:49 4172 Dec 07 08:31 4172 Dec 08 03:52	7°M10'55 3°M46'31 1°M13'35 1°M01'40 30°R Ω 25° Ω49'09 25° Ω21'30 25° Ω16'33 28° Ω42'09 0°M 24°M38'40 0° 🕏 15° ₹15'20 16° ₹27'46 15° ₹48'37 17° ₹06'51	-2°39'16 2°37'36 17°54'49 -0°05'21 0°05'16
direct morning max el  morning set desc. node  superior conj minimum elong max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde	4171 Nov 14 04:57 4171 Nov 15 13:16 4171 Nov 15 08:39 4171 Nov 24 21:24 4171 Dec 05 22:36 4171 Dec 13 22:44 4171 Dec 21 03:17 4171 Dec 24 13:53 4171 Dec 28 19:58 4171 Dec 31 02:33 4172 Jan 12 16:53 4172 Jan 12 16:53 4172 Jan 25 17:42 4172 Feb 01 08:38 4172 Feb 07 00:45 4172 Feb 10 04:14 4172 Feb 14 03:18	12°M.46'05 11°M.55'51 11°M.12'32 14°M.44'13 0°ズ 12°ズ55'36 24°ズ30'59 0°G 7°G09'13 6°G43'17 10°G17'50 0°≈ 2°≈33'03 20°≈16'25 0°升 6°升58'15 9°升39'37 11°升02'21	18°16'39 -0°52'50 0°51'58 1.45244 AU -0.7m	evening set min. Earth dist. inferior conj minimum elong  morning rise asc. node direct morning max el  morning set desc. node  superior conj minimum elong behind sun begin behind sun end max. Earth dist.	4172 Oct 16 18:57 4172 Oct 20 12:49 4172 Oct 22 22:43 4172 Oct 23 03:13 4172 Oct 24 02:54 4172 Oct 29 12:46 4172 Oct 31 02:00 4172 Nov 01 01:36 4172 Nov 07 13:50 4172 Nov 08 19:04 4172 Nov 24 15:22 4172 Nov 27 19:14 4172 Dec 07 00:19  4172 Dec 07 18:49 4172 Dec 07 08:31 4172 Dec 08 03:52 4172 Dec 12 21:07 4172 Dec 16 06:24	7° M 10'55 3° M 46'31 1° M 13'35 1° M 01'40 30° R Ω 25° Ω 49'09 25° Ω 21'30 25° Ω 16'33 28° Ω 42'09 0° M 24° M 38'40 0° 🛪 15° 🛪 15'20 16° 🛪 30'17 16° 🛪 27'46 15° 🛪 48'37 17° 🛪 06'51 24° 🛪 39'42 0° ጜ	-2°39'16 2°37'36 17°54'49 -0°05'21 0°05'16
direct morning max el  morning set desc. node  superior conj minimum elong max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set	4171 Nov 14 04:57 4171 Nov 15 13:16 4171 Nov 18 08:39 4171 Nov 24 21:24 4171 Dec 05 22:36 4171 Dec 13 22:44 4171 Dec 21 03:17 4171 Dec 24 13:53  4171 Dec 29 02:33 4171 Dec 28 19:58 4171 Dec 31 02:33 4172 Jan 12 16:53 4172 Jan 12 16:53 4172 Feb 01 08:38 4172 Feb 07 00:45 4172 Feb 10 04:14 4172 Feb 14 03:18 4172 Feb 17 14:29	12°M46'05 11°M55'51 11°M12'32 14°M44'13 0°ズ 12°ズ55'36 24°ズ30'59 0°उ 7°उ09'13 6°उ43'17 10°उ17'50 0°≈ 2°≈33'03 20°≈16'25 0°升 6°升58'15 9°升39'37 11°升02'21 9°升52'05	18°16'39  -0°52'50 0°51'58 1.45244 AU  -0.7m 19°20'16	evening set min. Earth dist. inferior conj minimum elong  morning rise asc. node direct morning max el  morning set desc. node  superior conj minimum elong behind sun begin behind sun end	4172 Oct 16 18:57 4172 Oct 20 12:49 4172 Oct 20 12:49 4172 Oct 23 03:13 4172 Oct 24 02:54 4172 Oct 29 12:46 4172 Oct 31 02:00 4172 Nov 01 01:36 4172 Nov 07 13:50 4172 Nov 24 15:22 4172 Nov 27 19:14 4172 Dec 07 00:19 4172 Dec 07 18:49 4172 Dec 07 08:31 4172 Dec 08 03:52 4172 Dec 12 21:07 4172 Dec 16 06:24 4172 Dec 23 20:45	7° M 10'55 3° M 46'31 1° M 13'35 1° M 01'40 30° R Ω 25° Ω 49'09 25° Ω 21'30 25° Ω 16'33 28° Ω 42'09 0° M 24° M 38'40 0° ズ 15° ズ 15'20 16° ズ 30'17 16° ズ 27'46 15° ズ 48'37 17° ズ 06'51 24° ズ 39'42 0° ℧ 11° ℧ 47'19	-2°39'16 2°37'36 17°54'49 -0°05'21 0°05'16
direct morning max el  morning set desc. node  superior conj minimum elong max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde	4171 Nov 14 04:57 4171 Nov 15 13:16 4171 Nov 15 08:39 4171 Nov 24 21:24 4171 Dec 05 22:36 4171 Dec 13 22:44 4171 Dec 21 03:17 4171 Dec 24 13:53 4171 Dec 28 19:58 4171 Dec 31 02:33 4172 Jan 12 16:53 4172 Jan 12 16:53 4172 Jan 25 17:42 4172 Feb 01 08:38 4172 Feb 07 00:45 4172 Feb 10 04:14 4172 Feb 14 03:18	12°M46'05 11°M55'51 11°M12'32 14°M44'13 0° ** 12°**55'36 24°**30'59 0° ** 7° ** 30'59 0° ** 6° ** 33'03 20° ** 6° ** 6° ** 58'15 9° ** 9° ** 33'7 11° ** 9° ** 11° ** 9° ** 11° ** 10'2'21 9° ** 15'9'49	18°16'39 -0°52'50 0°51'58 1.45244 AU -0.7m	evening set min. Earth dist. inferior conj minimum elong  morning rise asc. node direct morning max el  morning set desc. node  superior conj minimum elong behind sun begin behind sun end max. Earth dist.	4172 Oct 16 18:57 4172 Oct 20 12:49 4172 Oct 22 22:43 4172 Oct 23 03:13 4172 Oct 24 02:54 4172 Oct 29 12:46 4172 Oct 31 02:00 4172 Nov 01 01:36 4172 Nov 07 13:50 4172 Nov 08 19:04 4172 Nov 24 15:22 4172 Nov 27 19:14 4172 Dec 07 00:19  4172 Dec 07 18:49 4172 Dec 07 08:31 4172 Dec 08 03:52 4172 Dec 12 21:07 4172 Dec 16 06:24	7° M 10'55 3° M 46'31 1° M 13'35 1° M 01'40 30° R Ω 25° Ω 49'09 25° Ω 21'30 25° Ω 16'33 28° Ω 42'09 0° M 24° M 38'40 0° 🛪 15° 🛪 15'20 16° 🛪 30'17 16° 🛪 27'46 15° 🛪 48'37 17° 🛪 06'51 24° 🛪 39'42 0° ጜ	-2°39'16 2°37'36 17°54'49 -0°05'21 0°05'16 1.44667 AU

1	4172 1 27 01 15	25002116			4174 1 02 02 17	4002157	21027116
asc. node	4173 Jan 27 01:15	25°≈02'16		evening max el	4174 Jan 03 02:17	4°≈03'57	21°2/16
retrograde	4173 Jan 28 01:26	25°≈07'47		retrograde	4174 Jan 11 23:02	9°≈19'38	
evening set	4173 Jan 31 20:58	23°≈43'22	2055110	asc. node	4174 Jan 13 22:17	8°≈58'38	
inferior conj	4173 Feb 06 06:12	17° <b>≈</b> 37'50	2°55'10	evening set	4174 Jan 16 04:41	7° <b>≈</b> 39'57	
minimum elong	4173 Feb 06 03:49	17° <b>≈</b> 45'57	2°54'37	inferior conj	4174 Jan 21 12:56	1° <b>≈</b> 24'11	2°20'50
min. Earth dist.	4173 Feb 07 00:13	16° <b>≈</b> 36'45	0.67330 AU	minimum elong	4174 Jan 21 10:29	1° <b>≈</b> 32'37	2°20'04
morning rise	4173 Feb 11 10:26	11° <b>≈</b> 23'48		min. Earth dist.	4174 Jan 21 18:33	1° <b>≈</b> 04'44	0.67870 AU
direct	4173 Feb 17 03:51	8° <b>≈</b> 50'25			4174 Jan 22 13:20	30°Ŗる	
morning max el	4173 Feb 28 15:57	15° <b>≈</b> 43'14	24°41'59	morning rise	4174 Jan 26 16:07	25° <b>る</b> 11'51	
desc. node	4173 Mar 04 23:30	20° <b>≈</b> 28′03		direct	4174 Jan 31 18:57	22° <b>る</b> 58'30	
	4173 Mar 12 10:24	0° <b>∀</b>		morning max el	4174 Feb 11 00:56	29° <b>る</b> 03'46	23°13'07
	4173 Apr 01 01:28	$0$ ° $\Upsilon$			4174 Feb 11 22:44	0° <b>≈</b>	
morning set	4173 Apr 05 16:48	7° <b>Ƴ</b> 59'57		desc. node	4174 Feb 19 20:33	9° <b>≈</b> 29'07	
max. Earth dist.	4173 Apr 09 07:51	14° <b>Y</b> 31'03	1.37276 AU		4174 Mar 06 05:06	0° <b>₩</b>	
				morning set	4174 Mar 17 21:51	18° <b>¥</b> 42'17	
superior conj	4173 Apr 15 23:51	27° <b>Y</b> ′06'33	-1°22'58	max. Earth dist.	4174 Mar 22 02:50	25° <b>¥</b> 52'48	1.39439 AU
minimum elong	4173 Apr 16 04:10	27° <b>Y</b> 27'36	1°22'20		4174 Mar 24 11:14	$0^{\circ}\mathbf{\Upsilon}$	
	4173 Apr 17 11:19	0°8					
evening rise	4173 Apr 24 12:40	14° <b>8</b> 04'15		superior conj	4174 Mar 29 18:32	9° <b>Ƴ</b> 36′27	-1°47'18
asc. node	4173 Apr 25 00:34	15° <b>8</b> 03'28		minimum elong	4174 Mar 29 23:17	9° <b>Y</b> 58'26	1°46'50
	4173 May 02 23:31	$\Pi^{\circ}$		evening rise	4174 Apr 08 06:21	27° <b>Ƴ</b> 39'22	
evening max el	4173 May 11 09:26	11° <b>II</b> 27'21	19°20'00	Ü	4174 Apr 09 11:39	0° <b>႘</b>	
retrograde	4173 May 20 14:29	15° <b>I</b> I56'19		asc. node	4174 Apr 11 21:35	4° <b>8</b> 34'58	
evening set	4173 May 22 14:21	15° <b>Ⅱ</b> 44'37		evening max el	4174 Apr 24 11:26	23° <b>8</b> 46'12	18°35'57
inferior conj	4173 May 31 02:26	11° <b>I</b> I36'51	0°14'51	retrograde	4174 May 02 06:58	27° <b>8</b> 36'46	10 30 07
minimum elong	4173 May 31 02:20	11° <b>I</b> I35'49	0°14'37	evening set	4174 May 04 12:58	27° <b>8</b> 18'45	
transit middle	4173 May 31 03:04 4173 May 31 03:04	11° <b>II</b> 35'49		inferior conj	4174 May 12 05:04	22° <b>8</b> 52'17	1°49'13
transit begin	4173 May 31 03:04 4173 May 31 01:29	11° <b>I</b> I33' <b>4</b> 24	0 1437	minimum elong	4174 May 12 03:04 4174 May 12 08:30	22° <b>8</b> 45'41	1°48'10
transit end	4173 May 31 04:38	11° <b>I</b> I33'14		min. Earth dist.	4174 May 15 14:05	20° <b>8</b> 17'49	0.57793 AU
desc. node	4173 May 31 04:38 4173 May 31 22:41	11° <b>I</b> I03'24		desc. node	4174 May 18 19:43	18° <b>8</b> 10'59	0.37793 AU
	4173 Jun 02 20:11		0.56036 AU		4174 May 18 19.43 4174 May 20 00:49	17° <b>8</b> 33'17	
min. Earth dist.		9 <b>П</b> 4912 6° <b>П</b> 51'57	0.30030 AU	morning rise	•		
morning rise	4173 Jun 08 12:47			direct	4174 May 25 19:16	16° <b>8</b> 09'36	2/020100
direct	4173 Jun 13 08:04	5° <b>Ⅱ</b> 59'08	25010102	morning max el	4174 Jun 09 04:12	23° <b>8</b> 46'08	26°38'08
morning max el	4173 Jun 27 11:36	13° <b>Ⅱ</b> 10'31	25°13'02		4174 Jun 14 19:22	0°II	
	4173 Jul 10 14:36	0.ee			4174 Jul 03 13:58	0°©	
asc. node	4173 Jul 21 23:50	20°951'43		morning set	4174 Jul 08 12:09	10°500'23	
morning set	4173 Jul 24 01:46	25°S12'29		asc. node	4174 Jul 08 20:53	10° <b>©</b> 46'30	
	4173 Jul 26 07:26	$0$ ° $\Omega$					
		_		superior conj	4174 Jul 15 12:04	25° <b>©</b> 13'06	1°04'37
superior conj	4173 Jul 31 00:24	10° <b>Ω</b> 17'35		minimum elong	4174 Jul 15 09:48	25° <b>©</b> 00'37	1°04'14
minimum elong	4173 Jul 30 22:07	10° <b>Ω</b> 05'04	1°21'47	max. Earth dist.	4174 Jul 15 17:25	25° <b>©</b> 42'39	1.32094 AU
max. Earth dist.	4173 Aug 01 06:46	13° <b>Ω</b> 03'30	1.32555 AU		4174 Jul 17 16:10	$0$ $^{\circ}\Omega$	
evening rise	4173 Aug 07 03:27	25° <b>Ω</b> 31'49		evening rise	4174 Jul 22 09:25	10° <b>Ω</b> 10′09	
	4173 Aug 09 08:20	0° <b>m</b> )			4174 Aug 01 15:08	0° <b>™</b>	
	4173 Aug 26 19:07	0∘ <b>⊽</b>		desc. node	4174 Aug 14 19:03	19° <b>m</b> 55'25	
desc. node	4173 Aug 27 22:02	1° <b>≏</b> 35'33		evening max el	4174 Aug 21 17:55	27° <b>m</b> 38'14	26°50'43
evening max el	4173 Sep 08 13:44	15° <b>≙</b> 25'49	27°23'15		4174 Aug 24 10:43	0∘ <b>亚</b>	
retrograde	4173 Sep 22 08:34	22° <b>≙</b> 41'04		retrograde	4174 Sep 04 15:50	4° <b>≙</b> 48'49	
evening set	4173 Sep 29 13:00	20° <b>≙</b> 12'53		evening set	4174 Sep 11 14:01	2° <b>≏</b> 44'51	
min. Earth dist.	4173 Oct 03 03:47	17° <b>≏</b> 17'18	0.62486 AU		4174 Sep 15 11:33	30°R, Mp	
inferior conj	4173 Oct 06 01:01	14° <b>₽</b> 33'53	-3°39'08	min. Earth dist.	4174 Sep 15 08:01	0° <b>ჲ</b> 07'03	0.60490 AU
minimum elong	4173 Oct 06 06:49	14° <b>≏</b> 20′09	3°37'23	inferior conj	4174 Sep 18 13:10	27° <b>m</b> 27'26	-4°31'10
morning rise	4173 Oct 13 02:19	9° <b>≏</b> 27'28		minimum elong	4174 Sep 18 18:53	27° <b>m</b> 15'33	4°30'00
direct	4173 Oct 15 11:25	9° <b>₽</b> 02'00		morning rise	4174 Sep 26 01:41	22° Mp 42'14	
asc. node	4173 Oct 17 23:03	9° <b>₽</b> 30'36		direct	4174 Sep 28 10:14	22° m 20'53	
morning max el	4173 Oct 22 06:02	12° <b>₽</b> 29'39	17°50'49	asc. node	4174 Oct 04 20:06	25° m 06'53	
	4173 Nov 03 01:55	0° <b>M</b> .		morning max el	4174 Oct 05 18:50	25° m 58'49	18°05'50
morning set	4173 Nov 07 06:26	7° <b>M</b> 25′59		-	4174 Oct 09 05:43	0∘ <u>⊽</u>	
Ü				morning set	4174 Oct 21 13:42	20° <b>≙</b> 59'11	
superior conj	4173 Nov 18 12:25	27°M05'47	0°37'00	<i>5</i>	4174 Oct 26 09:51	0°M	
minimum elong	4173 Nov 18 15:43	27° <b>M</b> .19'44	0°36'32				
	4173 Nov 20 05:47	0° <b>⊼</b> ¹		superior conj	4174 Oct 31 07:54	8°M56'34	1°09'03
desc. node	4173 Nov 23 21:20	6° <b>∡</b> <sup>7</sup> 02'23		minimum elong	4174 Oct 31 12:00	9°M14'53	1°08'34
max. Earth dist.	4173 Nov 25 12:34	8° × 42'05	1.43428 AU	max. Earth dist.	4174 Nov 07 23:30	22°M11'25	1.41678 AU
evening rise	4173 Dec 03 07:34	21° <b>×</b> <sup>7</sup> 03'31		desc. node	4174 Nov 10 18:22	26°M48'51	
- , emily 1190	4173 Dec 09 03:33	21 × 05 51		acco. Houc	4174 Nov 10 18:22 4174 Nov 12 17:19	20 11 <b>6</b> 48 31	
	4173 Dec 30 11:04	0°≈		evening rise	4174 Nov 12 17.19 4174 Nov 13 08:04	0° <b>х</b> ¹ 59′26	
	11/3 DOC 30 11.04	· ~		C V C 11111 E 1150	11/71107 13 00.04	0 7 37 40	

	4174 Dec 02 15:27	0°ප			4175 Nov 28 02:29	0°ಕ	
evening max el	4174 Dec 16 19:25	17° <b>る</b> 39'34	22°44'50	evening max el	4175 Nov 29 09:07	1°る18'22	24°04'43
retrograde	4174 Dec 26 18:32	23° <b>る</b> 34'27		retrograde	4175 Dec 10 10:44	7° <b>る</b> 48'44	
evening set	4174 Dec 31 11:57	21° <b>る</b> 38'39		evening set	4175 Dec 15 17:15	5° <b>ප</b> 36'56	
asc. node	4174 Dec 31 19:20	21° <b>る</b> 22'52		asc. node	4175 Dec 18 16:22	2° <b>පි</b> 28'06	
inferior conj	4175 Jan 05 20:48	15° <b>る</b> 16'00	1°38'49	min. Earth dist.	4175 Dec 20 11:23	0° <b>ට</b> 07'40	0.67824 AU
minimum elong	4175 Jan 05 18:47	15° <b>る</b> 22'59	1°38'04		4175 Dec 20 13:39	30°Ŗ <b>⋌</b> ¹	
min. Earth dist.	4175 Jan 05 15:01	15° <b>る</b> 36'03	0.68029 AU	inferior conj	4175 Dec 21 04:03	29° <b>⊀</b> 11′20	0°50'15
morning rise	4175 Jan 11 01:30	9° <b>る</b> 07'05		minimum elong	4175 Dec 21 02:53	29° <b>х</b> 15′16	0°49'46
direct	4175 Jan 15 13:41	7° <b>る</b> 16'36		morning rise	4175 Dec 26 12:34	23° <b>₰</b> 07'36	
morning max el	4175 Jan 24 13:49	12° <b>る</b> 32'23	21°46'32	direct	4175 Dec 30 10:59	21° <b>₹</b> 39'42	
desc. node	4175 Feb 06 17:36	29° <b>る</b> 05'03		morning max el	4176 Jan 07 09:46	26° <b>∡</b> 12'48	20°29'12
	4175 Feb 07 09:08	0° <b>≈</b>			4176 Jan 10 19:38	0°₹	
morning set	4175 Feb 25 22:07	28° <b>≈</b> 01'58		desc. node	4176 Jan 24 14:39	19° <b>පි</b> 06'27	
	4175 Feb 27 03:33	0° <b>∀</b>			4176 Jan 31 20:04	0° <b>≈</b>	
max. Earth dist.	4175 Mar 04 02:09	8° <b>)</b> €05'02	1.41575 AU	morning set	4176 Feb 04 22:59	6° <b>≈</b> 20'38	
				max. Earth dist.	4176 Feb 14 08:50	21°≈12'15	1.43390 AU
superior conj	4175 Mar 11 17:52	21° <b>¥</b> 09'17	-2°03'46		4176 Feb 19 18:06	0° <b>∀</b>	
minimum elong	4175 Mar 11 20:56	21° <b>)</b> €22'45					
Č	4175 Mar 16 16:59	$_0$ ° $\Upsilon$		superior conj	4176 Feb 20 17:02	1° <b>)</b> 35′12	-2°07'10
evening rise	4175 Mar 22 12:02	10° <b>Y</b> ′36′22		minimum elong	4176 Feb 20 15:24	1° <b>)</b> 28′25	
asc. node	4175 Mar 29 18:38	23° <b>Y</b> ′44'01		evening rise	4176 Mar 04 01:34	22° <b>)</b> 46′56	
use. Itoue	4175 Apr 02 15:21	0°8		e vennig rise	4176 Mar 08 04:25	0°Υ	
evening max el	4175 Apr 07 20:10	6° <b>8</b> 33'57	18°11'55	asc. node	4176 Mar 15 15:40	12° <b>Y</b> 23'41	
retrograde	4175 Apr 14 18:08	10° <b>8</b> 02'49	10 11 00	evening max el	4176 Mar 21 08:19	19° <b>Υ</b> 42'20	18°07'24
evening set	4175 Apr 17 06:43	9° <b>8</b> 35'41		retrograde	4176 Mar 27 20:02	23°Υ04'55	10 0/21
inferior conj	4175 Apr 24 04:49	4° <b>8</b> 48'19	2°51'42	evening set	4176 Mar 30 14:37	22° <b>Υ</b> 27'02	
minimum elong	4175 Apr 24 08:08	4° <b>8</b> 40'51	2°50'58	inferior conj	4176 Apr 05 22:38	17° <b>Υ</b> 19'34	3°25'12
min. Earth dist.	4175 Apr 27 13:35	1° <b>8</b> 48'26	0.59922 AU	minimum elong	4176 Apr 06 00:26		3°25'00
iiiii. Lattii tiist.	4175 Apr 29 20:41	1 048 20 30°RΥ	0.39922 AO	min. Earth dist.	4176 Apr 08 21:20	14° <b>Υ</b> 18'52	0.62091 AU
marning rise	-	30 κ 1 29° <b>Υ</b> 03'16			-	14 <b>γ</b> 18 32 11° <b>Υ</b> 18'31	0.02091 AU
morning rise	4175 May 01 07:06	29 Υ 03 16 27° <b>Υ</b> 16'51		morning rise direct	4176 Apr 12 08:42	8° <b>Y</b> 49'53	
desc. node	4175 May 05 16:46	27° <b>Υ</b> 04'39			4176 Apr 19 04:59	8° <b>γ</b> 49′33 9° <b>γ</b> ′06′16	
direct	4175 May 07 18:52			desc. node	4176 Apr 21 13:49		27052101
	4175 May 16 04:09	0°8	27022124	morning max el	4176 May 03 07:55	16° <b>Y</b> 48'48	27°52'01
morning max el	4175 May 22 02:58	4° <b>8</b> 56'09	27°33'34		4176 May 14 05:35	0° <b>B</b>	
	4175 Jun 09 16:43	0°II			4176 Jun 01 09:07	0°II	
morning set	4175 Jun 22 19:29	24° <b>Ⅱ</b> 36'58		morning set	4176 Jun 05 21:46	8° <b>Ⅱ</b> 55'57	
	4175 Jun 25 08:39	0.22		max. Earth dist.	4176 Jun 11 13:42	20° <b>∏</b> 50'19	1.32383 AU
asc. node	4175 Jun 25 17:55	0° <b>©</b> 49'45		asc. node	4176 Jun 11 14:58	20° <b>Ⅱ</b> 57'09	
max. Earth dist.	4175 Jun 29 05:05	22'40فو°8	1.32034 AU				
		_		superior conj	4176 Jun 13 09:22	24° <b>II</b> 47'16	
superior conj	4175 Jun 29 23:38	10° <b>©</b> 04'49		minimum elong	4176 Jun 13 08:31	24° <b>Ⅱ</b> 42'37	0°18'15
minimum elong	4175 Jun 29 21:52	9° <b>©</b> 55'02	0°42'50		4176 Jun 15 18:37	0ංම	
evening rise	4175 Jul 06 19:14	24° <b>©</b> 57'04		evening rise	4176 Jun 20 06:51	9° <b>5</b> 46'01	
	4175 Jul 09 05:10	$0$ $^{\circ}$ $\Omega$			4176 Jun 30 16:09	$0^{\circ}\Omega$	
	4175 Jul 26 18:22	0° <b>m</b> )		evening max el	4176 Jul 15 04:40	19° <b>Ω</b> 42'03	24°18'05
desc. node	4175 Aug 01 16:03	7° <b>™</b> 04'38		desc. node	4176 Jul 18 13:04	22° <b>Ω</b> 35′12	
evening max el	4175 Aug 03 14:35	9° <b>™</b> 01'27	25°46'10	retrograde	4176 Jul 29 00:45	26° <b>Ω</b> 40'48	
retrograde	4175 Aug 17 13:45	16° Mp 08′20		evening set	4176 Aug 02 20:10	25° <b>Ω</b> 49'16	
evening set	4175 Aug 23 17:10	14° <b>m</b> 39'05		min. Earth dist.	4176 Aug 08 15:28		0.56573 AU
min. Earth dist.	4175 Aug 28 02:44		0.58427 AU	inferior conj	4176 Aug 11 05:56	21° <b>Ω</b> 16′28	
inferior conj	4175 Aug 31 07:37	9° <b>m</b> 44'14	-5°05'36	minimum elong	4176 Aug 11 03:20	21° <b>Ω</b> 20'36	5°07'45
minimum elong	4175 Aug 31 10:37	9° <b>™</b> 38'48	5°05'21	morning rise	4176 Aug 19 13:05	17° <b>Ω</b> 15'25	
morning rise	4175 Sep 08 06:19	5° Mg 22′22		direct	4176 Aug 22 05:36	16° <b>Ω</b> 56'11	
direct	4175 Sep 10 17:32	5° Mg 02'53		morning max el	4176 Aug 31 21:20	21° <b>Ω</b> 26′11	19°38'22
morning max el	4175 Sep 19 00:58	9° <b>™</b> 00'47	18°41'20	asc. node	4176 Sep 07 14:12	29° <b>Ω</b> 43'34	
asc. node	4175 Sep 21 17:09	11° <b>m</b> 56'16			4176 Sep 07 18:31	0° <b>m</b> y	
	4175 Oct 02 17:12	0∘ <b>⊽</b>		morning set	4176 Sep 18 10:40	19° <b>™</b> 32′00	
morning set	4175 Oct 05 08:19	5° <b>£</b> 04'36			4176 Sep 23 14:57	0∘ <b>ত</b>	
superior conj	4175 Oct 14 00:32	21° <b>≏</b> 49'30	1°30'07	superior conj	4176 Sep 26 08:50	5° <b>≏</b> 28'34	1°41'18
minimum elong	4175 Oct 14 03:36	22° <b>ჲ</b> 03'57	1°29'51	minimum elong	4176 Sep 26 10:16	5° <b>≙</b> 35'37	1°41'15
Č	4175 Oct 18 10:50	0°M		max. Earth dist.	4176 Oct 02 10:01	17° <b>≙</b> 05'11	1.37549 AU
max. Earth dist.	4175 Oct 21 05:39	4° <b>™</b> 57'50	1.39629 AU	evening rise	4176 Oct 06 04:12	23° <b>≏</b> 55'28	
evening rise	4175 Oct 25 06:44	11°M56'05		Č	4176 Oct 09 15:44	0° <b>M</b> ,	
desc. node	4175 Oct 28 15:24	17°M31'18		desc. node	4176 Oct 14 12:24	8°ML05'15	
	4175 Nov 05 13:25	0° <b>∡</b> 7			4176 Oct 29 06:34	0° <b>∡</b> 7	

4182 Jun 15 18:29

morning set

18°**Ⅱ**05'44

4181 Jun 29 19:27

0ಂತಾ

asa nada	4182 Jun 19 20:26	26° <b>Ⅱ</b> 43'17			4183 May 29 14:56	0°∏	
asc. node	4182 Jun 21 08:43	20 <b>п</b> 43 17 0° <b>©</b>		morning set	4183 May 30 17:51	0 <u>П</u> 2°П14'26	
max. Earth dist.	4182 Jun 21 20:15	1° <b>9</b> 02'58	1.32125 AU	max. Earth dist.	4183 Jun 05 02:22	13° <b>∏</b> 21′26	1.32664 AU
max. Latin dist.	4102 Juli 21 20.13	1 302 30	1.52125 AO	asc. node	4183 Jun 06 17:28	16° <b>∏</b> 51'04	1.52004 AC
superior conj	4182 Jun 23 01:24	3°542'38	0°33'05	asc. node	4103 Jun 00 17.20	10 1131 04	
minimum elong	4182 Jun 22 23:58	3°934'45	0°32'47	superior conj	4183 Jun 07 09:46	18° <b>Ⅱ</b> 19'07	0°07'07
evening rise	4182 Jun 29 21:19	18°935'59	0 32 17	minimum elong	4183 Jun 07 09:26	18° <b>I</b> 17'17	0°07'02
evening rise	4182 Jul 05 11:14	0° <b>Ω</b>		behind sun begin	4183 Jun 07 04:42	17° <b>I</b> 51'40	0 0, 02
	4182 Jul 25 11:44	0° <b>m</b> )		behind sun end	4183 Jun 07 14:10	18° <b>∏</b> 42'55	
evening max el	4182 Jul 26 11:53	0° Mp 59'25	25°11'00	ouma san una	4183 Jun 12 19:00	0°9	
desc. node	4182 Jul 26 18:28	1° m/ 15'02	23 11 00	evening rise	4183 Jun 14 09:07	3° <b>©</b> 23'55	
retrograde	4182 Aug 09 10:51	8° mp 03'31		o ronning rise	4183 Jun 28 18:36	0° <b>Ω</b>	
evening set	4182 Aug 15 01:48	6° <b>m</b> 51'00		evening max el	4183 Jul 08 00:50	11° <b>Ω</b> 28'51	23°37'00
min. Earth dist.	4182 Aug 19 23:35		0.57596 AU	desc. node	4183 Jul 13 15:28	15°Ω53'29	25 57 00
inferior conj	4182 Aug 23 00:08	2° m/05'35		retrograde	4183 Jul 21 15:57	18° <b>Ω</b> 19'05	
minimum elong	4182 Aug 23 01:02	2° m) 04'04		evening set	4183 Jul 25 19:48	17° <b>Ω</b> 41'07	
minimum crong	4182 Aug 26 05:50	30°RΩ	3 11 30	min. Earth dist.	4183 Aug 01 10:47	14° <b>Ω</b> 34'40	0.55938 AU
morning rise	4182 Aug 31 02:36	27° <b>Ω</b> 52'48		inferior conj	4183 Aug 03 13:58	13°Ω18'11	
direct	4182 Sep 02 15:43	27° <b>Ω</b> 33'35		minimum elong	4183 Aug 03 08:44	13°Ω26'03	4°54'39
direct	4182 Sep 02 13:43 4182 Sep 09 10:09	0° <b>m</b> )		morning rise	4183 Aug 12 00:09	9° <b>Ω</b> 23'18	7 3737
morning max el	4182 Sep 11 11:54	1° <b>m</b> )43'59	19°02'46	direct	4183 Aug 14 19:53	9° <b>Ω</b> 03'29	
•	•	-	19 02 40		•	13°Ω50'37	2000000
asc. node	4182 Sep 15 19:42	6° Mp 44'40		morning max el	4183 Aug 25 03:13		20-09-09
morning set	4182 Sep 28 05:48	28° m/31'49		asc. node	4183 Sep 02 16:43	24° <b>Ω</b> 52′20	
	4182 Sep 28 23:38	0∘ <b>⊽</b>		. ,	4183 Sep 05 16:33	0° m/	
	4102.0 + 06.12.20	1.40 0.53133	1025150	morning set	4183 Sep 12 10:39	13° Mp 06'54	
superior conj	4182 Oct 06 13:29	14° <b>£</b> 53'32			4102 G 20 02 02	200 m 40121	1042126
minimum elong	4182 Oct 06 15:53	15° <b>£</b> 05'04	1°35'48	superior conj	4183 Sep 20 03:02	•	1°43'26
max. Earth dist.	4182 Oct 13 08:00	27° <b>£</b> 30′24	1.38745 AU	minimum elong	4183 Sep 20 03:46	28° m 52'02	1°43'25
	4182 Oct 14 17:30	0°M			4183 Sep 20 17:19	0∘ <b>⊽</b>	
evening rise	4182 Oct 17 03:55	4°M15'33		max. Earth dist.	4183 Sep 25 13:58	9° <b>£</b> 30'13	1.36721 AU
desc. node	4182 Oct 22 17:48	13°M37'03		evening rise	4183 Sep 29 10:11	16° <b>△</b> 39'47	
	4182 Nov 02 08:31	0° <b>∡</b> ¹			4183 Oct 07 02:22	0°M	
evening max el	4182 Nov 21 15:19	24° <b>∡</b> ¹27'57 <b>_</b>	24°37'51	desc. node	4183 Oct 09 14:47	4°M06'25	
	4182 Nov 28 18:46	0° <b>ろ</b>			4183 Oct 27 18:49	0° <b>∡</b> 7	
retrograde	4182 Dec 03 03:25	1°る10'19		evening max el	4183 Nov 04 03:44	8° <b>≯</b> 10'58	25°49'12
	4182 Dec 07 02:39	30°Ŗ <b>⋌</b> 7		retrograde	4183 Nov 16 13:07	15° <b>≯</b> 15′08	
evening set	4182 Dec 08 15:43	28° <b>≯</b> 52'23		evening set	4183 Nov 22 15:15	12° <b>∡</b> ¹43'52	
asc. node	4182 Dec 12 18:55	24° <b>҂</b> 15'52		min. Earth dist.	4183 Nov 26 22:43	8° <b>≯</b> 04'03	0.66940 AU
min. Earth dist.	4182 Dec 13 06:35	23° <b>∡</b> ³37'29	0.67637 AU	inferior conj	4183 Nov 28 06:58	6° <b>≯</b> 22'15	
inferior conj	4182 Dec 14 03:45	22° <b>҂</b> 27′06		minimum elong	4183 Nov 28 07:42	6° <b>≯</b> 19'55	0°27'55
minimum elong	4182 Dec 14 03:04	22° <b>₹</b> 29'21	0°27'36	asc. node	4183 Nov 29 15:58	4° <b>⋌</b> ³39'47	
morning rise	4182 Dec 19 14:31	16° <b>≯</b> ¹26′01		morning rise	4183 Dec 04 00:33	0° <b>≯</b> 29'50	
direct	4182 Dec 23 07:38	15° <b>₹</b> 06'53			4183 Dec 04 23:02	30°RM₊	
morning max el	4182 Dec 30 21:22	19° <b>∡</b> ²24'38	20°00'04	direct	4183 Dec 07 06:21	29°M29'32	
	4183 Jan 08 10:39	0°ರ			4183 Dec 09 15:21	0° <b>√</b>	
desc. node	4183 Jan 18 17:06	15° <b>る</b> 02'43		morning max el	4183 Dec 14 04:20	3° <b>√</b> 19'42	19°02'41
morning set	4183 Jan 26 15:00	27° <b>る</b> 07'47			4184 Jan 02 01:44	0°₹	
	4183 Jan 28 11:32	0° <b>≈</b>		morning set	4184 Jan 05 20:05	5° <b>る</b> 51'46	
max. Earth dist.	4183 Feb 06 14:15	14° <b>≈</b> 19'41	1.44012 AU	desc. node	4184 Jan 05 14:06	5° <b>る</b> 28'25	
				max. Earth dist.	4184 Jan 20 06:21	28° <b>る</b> 25'36	1.45003 AU
superior conj	4183 Feb 11 23:18	23° <b>≈</b> 00′14	-2°03'21		4184 Jan 21 06:20	0° <b>≈</b>	
minimum elong	4183 Feb 11 19:01	22° <b>≈</b> 42'45	2°03'11				
	4183 Feb 16 05:14	0° <b>∀</b>		superior conj	4184 Jan 22 11:45	1° <b>≈</b> 56′06	-1°40'11
evening rise	4183 Feb 25 02:02	15° <b>₩</b> 00'50		minimum elong	4184 Jan 22 02:44	1° <b>≈</b> 20'31	1°39'23
	4183 Mar 05 21:40	$0^{\circ}$ Y		evening rise	4184 Feb 06 09:17	25° <b>≈</b> 52'23	
asc. node	4183 Mar 10 18:11	7° <b>Ƴ</b> 28'44			4184 Feb 08 21:48	0° <b>∀</b>	
evening max el	4183 Mar 15 00:51	12° <b>Y</b> 42'23	18°11'18	asc. node	4184 Feb 25 15:14	25° <b>ℋ</b> 10′05	
retrograde	4183 Mar 21 11:00	16° <b>Ƴ</b> 06′07		evening max el	4184 Feb 26 12:52	26° <b>)</b> €07'30	18°33'23
evening set	4183 Mar 24 08:13	15° <b>Ƴ</b> 23'07		retrograde	4184 Mar 04 02:11	29° <b>)</b> 43′50	
inferior conj	4183 Mar 30 11:24	10° <b>Ƴ</b> 07'26	3°32'12	evening set	4184 Mar 07 05:24	28° <b>)</b> 48'40	
minimum elong	4183 Mar 30 12:27	10° <b>Ƴ</b> 04'36	3°32'08	inferior conj	4184 Mar 12 23:51	23° <b>)</b> 14'46	3°35'18
min. Earth dist.	4183 Apr 02 04:08	7° <b>Υ</b> 13′28	0.62963 AU	minimum elong	4184 Mar 12 23:17	23° <b>)</b> 16′26	3°35'17
morning rise	4183 Apr 05 15:33	4° <b>Υ</b> ′02'27		min. Earth dist.	4184 Mar 15 01:09	20° <b>)</b> 47′57	0.64781 AU
direct	4183 Apr 12 12:50	1° <b>Y</b> 24'37		morning rise	4184 Mar 18 16:36	17° <b>)</b> €03'28	
desc. node	4183 Apr 16 16:16	2° <b>Υ</b> 14'59		direct	4184 Mar 25 10:18	14° <b>)</b> 13′50	
morning max el	4183 Apr 26 11:55	9° <b>Y</b> 23'09	27°48'33	desc. node	4184 Apr 02 13:19	17° <b>∺</b> 26'18	
<i>5</i>	4183 May 12 12:10	0°8		morning max el	4184 Apr 07 21:38	22° <b>H</b> 06'11	27°15'46
	,	_		<i>5</i>	r = 3.50		

minimum elong

4186 Feb 08 21:35

20°**≈**23'30

2°59'06

4185 Mar 20 10:20

desc. node

4°**)** 17'43

min. Earth dist.	4186 Feb 09 19:56	19° <b>≈</b> 08′08	0.67218 AU	minimum elong	4187 Jan 24 03:52	4° <b>≈</b> 09'42	2°25'49
morning rise	4186 Feb 14 04:34	14° <b>≈</b> 01'33		min. Earth dist.	4187 Jan 24 13:40	3° <b>≈</b> 35'47	0.67817 AU
direct	4186 Feb 20 00:08	11° <b>≈</b> 25'34			4187 Jan 27 07:23	30°Ŗ₹	
morning max el	4186 Mar 03 16:18	18° <b>≈</b> 24'24	24°54'50	morning rise	4187 Jan 29 09:30	27° <b>る</b> 48'39	
desc. node	4186 Mar 07 07:22	22° <b>≈</b> 21′05		direct	4187 Feb 03 14:33	25° <b>る</b> 32'07	
	4186 Mar 13 10:49	0° <b>∀</b>			4187 Feb 12 05:26	0° <b>≈</b>	
	4186 Apr 02 10:11	$0$ ° $\Upsilon$		morning max el	4187 Feb 14 01:04	1° <b>≈</b> 44'32	23°26'27
morning set	4186 Apr 08 19:02	10° <b>Ƴ</b> 58'04		desc. node	4187 Feb 22 04:25	11° <b>≈</b> 16′01	
max. Earth dist.	4186 Apr 12 10:01	17° <b>Ƴ</b> 32′00	1.36967 AU		4187 Mar 07 11:06	0° <b>∀</b>	
				morning set	4187 Mar 21 04:06	21° <b>¥</b> 52′12	
superior conj	4186 Apr 18 21:24	29° <b>Ƴ</b> 51′21	-1°18'53	max. Earth dist.	4187 Mar 25 05:16	28° <b>) (</b> 49′37	1.39115 AU
minimum elong	4186 Apr 19 01:33	0° <b>8</b> 11'44	1°18'14		4187 Mar 25 21:19	$0^{\circ}\mathbf{Y}$	
	4186 Apr 18 23:10	0°8					
evening rise	4186 Apr 27 07:21	16° <b>8</b> 40'37		superior conj	4187 Apr 01 18:32	12° <b>Y</b> 28'42	-1°44'01
asc. node	4186 Apr 27 08:36	16° <b>8</b> 46'57		minimum elong	4187 Apr 01 23:20	12° <b>Y</b> 51'03	1°43'30
	4186 May 04 05:37	$\Pi$ $^{\circ}0$			4187 Apr 10 22:12	$9^{\circ}$ 8	
evening max el	4186 May 14 08:06		19°28'21	evening rise	4187 Apr 11 02:29	0° <b>8</b> 20'42	
retrograde	4186 May 23 18:51	18° <b>Ⅱ</b> 57'12		asc. node	4187 Apr 14 05:40	6° <b>8</b> 21'25	
evening set	4186 May 25 18:14	18° <b>Ⅱ</b> 46′02		evening max el	4187 Apr 27 08:44	26° <b>8</b> 34'32	18°41'10
inferior conj	4186 Jun 03 09:11	14° <b>∏</b> 40′30	-0°01'55		4187 May 02 11:52	$\Pi$ $^{\circ}0$	
minimum elong	4186 Jun 03 09:05	14° <b>∏</b> 40′38	0°01'54	retrograde	4187 May 05 08:31	0° <b>Ⅱ</b> 29'54	
transit middle	4186 Jun 03 09:05	14° <b>∏</b> 40′38	0°01'54	evening set	4187 May 07 13:30	0° <b>Ⅱ</b> 13'01	
transit begin	4186 Jun 03 05:14	14° <b>∏</b> 46′51			4187 May 08 07:29	30° <b>₹</b> 8	
transit end	4186 Jun 03 12:57	14° <b>∏</b> 34′25		inferior conj	4187 May 15 08:31	25° <b>8</b> 49'24	1°36'56
desc. node	4186 Jun 03 06:35	14° <b>∏</b> 44'40		minimum elong	4187 May 15 11:44	25° <b>8</b> 43'20	1°35'54
min. Earth dist.	4186 Jun 05 23:07	13° <b>Ⅱ</b> 01'15	0.55830 AU	min. Earth dist.	4187 May 18 16:14	23° <b>8</b> 20'52	0.57500 AU
morning rise	4186 Jun 11 21:10	10° <b>Ⅱ</b> 01'10		desc. node	4187 May 21 03:37	21° <b>8</b> 42'46	
direct	4186 Jun 16 13:02	9° <b>Ⅱ</b> 12'04		morning rise	4187 May 23 06:45	20° <b>8</b> 35'07	
morning max el	4186 Jun 30 14:40	16° <b>Ⅱ</b> 18'07	24°58'33	direct	4187 May 28 21:54	19° <b>8</b> 16'42	
	4186 Jul 11 16:31	0		morning max el	4187 Jun 12 06:35	26° <b>8</b> 49'57	26°27'08
asc. node	4186 Jul 24 07:50	22° <b>©</b> 34'06			4187 Jun 15 07:20	$\Pi$ $^{\circ}0$	
morning set	4186 Jul 26 18:37	27°540'11			4187 Jul 05 00:21	$0$ $\circ$ $\odot$	
	4186 Jul 27 20:51	$0 {\circ} \Omega$		morning set	4187 Jul 11 05:17	12° <b>©</b> 29'10	
				asc. node	4187 Jul 11 04:54	12° <b>5</b> 27'09	
		120 0 44154	1°24'21				
superior conj	4186 Aug 02 17:19	• • •					
minimum elong	4186 Aug 02 15:04	12° <b>£</b> 32'36	1°24'04	superior conj	4187 Jul 18 04:49	27° <b>©</b> 40'09	1°07'33
minimum elong max. Earth dist.	4186 Aug 02 15:04 4186 Aug 04 03:38	12° <b>Ω</b> 32'36 15° <b>Ω</b> 51'57		superior conj minimum elong	4187 Jul 18 02:31	27° <b>©</b> 27'29	1°07'33 1°07'09
minimum elong	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35	12° <b>Ω</b> 32'36 15° <b>Ω</b> 51'57 28° <b>Ω</b> 02'59	1°24'04		4187 Jul 18 02:31 4187 Jul 18 13:51	27°\$27'29 28°\$30'00	
minimum elong max. Earth dist.	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33	12°N32'36 15°N51'57 28°N02'59 0°M	1°24'04	minimum elong max. Earth dist.	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11	27°©27'29 28°©30'00 0°Ω	1°07'09
minimum elong max. Earth dist. evening rise	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19	12° <b>Ω</b> 32'36 15° <b>Ω</b> 51'57 28° <b>Ω</b> 02'59 0° <b>™</b> 0° <b>Ω</b>	1°24'04	minimum elong	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45	27°\$27'29 28°\$30'00 0°\$ 12°\$\alpha\$39'04	1°07'09
minimum elong max. Earth dist. evening rise desc. node	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53	12° N 32'36 15° N 51'57 28° N 02'59 0° M 0° <u>a</u> 3° <u>a</u> 25'58	1°24'04 1.32665 AU	minimum elong max. Earth dist. evening rise	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31	27°\$27'29 28°\$30'00 0°\$ 12°\$\Omega_39'04 0°\$\$	1°07'09
minimum elong max. Earth dist. evening rise desc. node evening max el	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53 4186 Sep 11 14:22	12° A 32'36 15° A 51'57 28° A 02'59 0° M 0° Ω 3° Ω 25'58 18° Ω 13'39	1°24'04	minimum elong max. Earth dist.	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54	27°\$27'29 28°\$30'00 0°\$\mathcal{L}\$ 12°\$\mathcal{L}\$39'04 0°\$\mathcal{L}\$ 21°\$\mathcal{L}\$54'38	1°07'09
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53 4186 Sep 11 14:22 4186 Sep 25 08:25	12° A 32'36 15° A 51'57 28° A 02'59 0° M 0° Ω 3° Ω 25'58 18° Ω 13'39 25° Ω 29'01	1°24'04 1.32665 AU	minimum elong max. Earth dist. evening rise desc. node	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54 4187 Aug 24 05:49	27°\$27'29 28°\$30'00 0°\$ 12°\$39'04 0°\$ 21°\$\$54'38 0°\$	1°07'09 1.32138 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53 4186 Sep 11 14:22 4186 Sep 25 08:25 4186 Oct 02 12:54	12° \( \alpha \) 32'36 15° \( \alpha \) 51'57 28° \( \alpha \) 02'59 0° \( \mathbf{m} \) 0° \( \alpha \) 3° \( \alpha \) 25'58 18° \( \alpha \) 13'39 25° \( \alpha \) 29'01 22° \( \alpha \) 58'26	1°24'04 1.32665 AU 27°25'10	minimum elong max. Earth dist. evening rise desc. node evening max el	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54 4187 Aug 24 05:49 4187 Aug 24 19:26	27°\$27'29 28°\$30'00 0°\$\mathbb{\Omega}\$ 12°\$\mathbb{\Omega}39'04 0°\$\mathbb{\Omega}\$ 21°\$\mathbb{\Omega}54'38 0°\$\mathbb{\Omega}\$ 0°\$\mathbb{\Omega}32'41	1°07'09
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53 4186 Sep 11 14:22 4186 Sep 25 08:25 4186 Oct 02 12:54 4186 Oct 06 03:57	12° A 32'36 15° A 51'57 28° A 02'59 0° M 0° \Overline{\Overlin	1°24'04 1.32665 AU 27°25'10 0.62769 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54 4187 Aug 24 05:49 4187 Aug 24 19:26 4187 Sep 07 16:48	27°\$27'29 28°\$30'00 0°\$\mathcal{O}\$ 12°\$\mathcal{O}\$39'04 0°\$\mathcal{D}\$ 21°\$\mathcal{D}\$54'38 0°\$\mathcal{O}\$ 0°\$\mathcal{D}\$32'41 7°\$\mathcal{D}\$43'48	1°07'09 1.32138 AU
minimum elong max. Earth dist. evening rise  desc. node evening max el retrograde evening set min. Earth dist. inferior conj	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53 4186 Sep 11 14:22 4186 Sep 25 08:25 4186 Oct 02 12:54 4186 Oct 06 03:57 4186 Oct 08 23:34	12° A 32'36 15° A 51'57 28° A 02'59 0° M 0° A 3° A 25'58 18° A 13'39 25° A 29'01 22° A 58'26 19° A 59'03 17° A 16'36	1°24'04 1.32665 AU 27°25'10 0.62769 AU -3°30'24	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54 4187 Aug 24 05:49 4187 Aug 24 19:26 4187 Sep 07 16:48 4187 Sep 14 16:46	27°\$27'29 28°\$30'00 0°\$\Omega\$ 12°\$\Omega\$39'04 0°\$\mathbf{m}\$ 21°\$\mathbf{m}\$54'38 0°\$\Omega\$2'41 7°\$\Omega\$43'48 5°\$\Omega\$35'20	1°07'09 1.32138 AU 26°57'40
minimum elong max. Earth dist. evening rise  desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53 4186 Sep 11 14:22 4186 Sep 25 08:25 4186 Oct 02 12:54 4186 Oct 06 03:57 4186 Oct 08 23:34 4186 Oct 09 05:15	12° A 32'36 15° A 51'57 28° A 02'59 0° M 0° A 3° A 25'58 18° A 13'39 25° A 29'01 22° A 58'26 19° A 59'03 17° A 16'36 17° A 02'56	1°24'04 1.32665 AU 27°25'10 0.62769 AU -3°30'24	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54 4187 Aug 24 05:49 4187 Sep 07 16:48 4187 Sep 14 16:46 4187 Sep 18 09:39	27°\$27'29 28°\$30'00 0°\$\Omega\$ 12°\$\Omega\$39'04 0°\$\Omega\$ 21°\$\Omega\$54'38 0°\$\Omega\$2'41 7°\$\Omega\$43'48 5°\$\Omega\$35'20 2°\$\Omega\$55'59	1°07'09 1.32138 AU 26°57'40 0.60796 AU
minimum elong max. Earth dist. evening rise  desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53 4186 Sep 11 14:22 4186 Sep 25 08:25 4186 Oct 02 12:54 4186 Oct 06 03:57 4186 Oct 08 23:34 4186 Oct 09 05:15 4186 Oct 15 23:09	12° A 32'36 15° A 51'57 28° A 02'59 0° M 0° \overline{A} 3° \overline{D} 25° \overline{D} 25° \overline{D} 22° \overline{D} 58'26 19° \overline{D} 59'03 17° \overline{D} 16'36 17° \overline{D} 12° \overline{D} 20'56 12° \overline{D} 07'09	1°24'04 1.32665 AU 27°25'10 0.62769 AU -3°30'24	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54 4187 Aug 24 05:49 4187 Aug 24 19:26 4187 Sep 07 16:48 4187 Sep 14 16:46 4187 Sep 18 09:39 4187 Sep 21 14:03	27°\$27'29 28°\$30'00 0°\$\Omega\$ 12°\$\Omega\$39'04 0°\$\mathbf{m}\$ 21°\$\mathbf{m}\$54'38 0°\$\Omega\$ 0°\$\Omega\$32'41 7°\$\Omega\$43'48 5°\$\Omega\$35'20 2°\$\Omega\$55'59 0°\$\Omega\$14'45	1°07'09 1.32138 AU 26°57'40 0.60796 AU -4°24'12
minimum elong max. Earth dist. evening rise  desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53 4186 Sep 11 14:22 4186 Sep 25 08:25 4186 Oct 02 12:54 4186 Oct 06 03:57 4186 Oct 09 05:15 4186 Oct 15 23:09 4186 Oct 18 08:40	12° A 32'36 15° A 51'57 28° A 02'59 0° M 0° A 3° A 25'58 18° A 13'39 25° A 29'01 22° A 58'26 19° A 59'03 17° A 16'36 17° A 02'56 12° A 07'09 11° A 40'45	1°24'04 1.32665 AU 27°25'10 0.62769 AU -3°30'24	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54 4187 Aug 24 05:49 4187 Aug 24 19:26 4187 Sep 07 16:48 4187 Sep 14 16:46 4187 Sep 18 09:39 4187 Sep 21 14:03 4187 Sep 21 19:56	27°\$27'29 28°\$30'00 0°\$\Omega\$ 12°\$\Omega\$39'04 0°\$\Omega\$ 21°\$\Omega\$54'38 0°\$\Omega\$ 0°\$\Omega\$32'41 7°\$\Omega\$43'48 5°\$\Omega\$35'20 2°\$\Omega\$55'59 0°\$\Omega\$14'45 0°\$\Omega\$02'17	1°07'09 1.32138 AU 26°57'40 0.60796 AU -4°24'12
minimum elong max. Earth dist. evening rise  desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53 4186 Sep 11 14:22 4186 Sep 25 08:25 4186 Oct 02 12:54 4186 Oct 06 03:57 4186 Oct 09 05:15 4186 Oct 15 23:09 4186 Oct 18 08:40 4186 Oct 20 07:04	12° A 32'36 15° A 51'57 28° A 02'59 0° M 0° A 3° A 25'58 18° A 13'39 25° A 29'01 22° A 58'26 19° A 59'03 17° A 16'36 17° A 02'56 12° A 07'09 11° A 40'45 11° A 58'23	1°24'04 1.32665 AU 27°25'10 0.62769 AU -3°30'24 3°28'38	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54 4187 Aug 24 05:49 4187 Aug 24 19:26 4187 Sep 07 16:48 4187 Sep 14 16:46 4187 Sep 18 09:39 4187 Sep 21 14:03 4187 Sep 21 19:56 4187 Sep 21 21:00	27°\$27'29 28°\$30'00 0°\$\Omega\$ 12°\$\Omega\$39'04 0°\$\Omega\$ 21°\$\Omega\$54'38 0°\$\Omega\$ 0°\$\Omega\$32'41 7°\$\Omega\$43'48 5°\$\Omega\$55'59 0°\$\Omega\$14'45 0°\$\Omega\$02'17 30°\$\Omega\$	1°07'09 1.32138 AU 26°57'40 0.60796 AU -4°24'12
minimum elong max. Earth dist. evening rise  desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53 4186 Sep 11 14:22 4186 Sep 25 08:25 4186 Oct 02 12:54 4186 Oct 06 03:57 4186 Oct 09 05:15 4186 Oct 15 23:09 4186 Oct 18 08:40 4186 Oct 20 07:04 4186 Oct 25 01:48	12° A 32'36 15° A 51'57 28° A 02'59 0° M 0° Ω 3° Ω 25'58 18° Ω 13'39 25° Ω 29'01 22° Ω 58'26 19° Ω 59'03 17° Ω 16'36 17° Ω 02'56 12° Ω 07'09 11° Ω 40'45 11° Ω 58'23 15° Ω 07'33	1°24'04 1.32665 AU 27°25'10 0.62769 AU -3°30'24	minimum elong max. Earth dist.  evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54 4187 Aug 24 05:49 4187 Aug 24 19:26 4187 Sep 07 16:48 4187 Sep 14 16:46 4187 Sep 18 09:39 4187 Sep 21 14:03 4187 Sep 21 19:56 4187 Sep 21 21:00 4187 Sep 29 00:57	27°\$27'29 28°\$30'00 0°\$\Omega\$ 12°\$\Omega\$39'04 0°\$\mathbf{m}\$ 21°\$\mathbf{m}\$54'38 0°\$\Omega\$ 0°\$\Omega\$32'41 7°\$\Omega\$43'48 5°\$\Omega\$35'20 2°\$\Omega\$55'59 0°\$\Omega\$14'45 0°\$\Omega\$02'17 30°\$\mathbf{m}\$26'19	1°07'09 1.32138 AU 26°57'40 0.60796 AU -4°24'12
minimum elong max. Earth dist. evening rise  desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53 4186 Sep 11 14:22 4186 Sep 25 08:25 4186 Oct 02 12:54 4186 Oct 06 03:57 4186 Oct 08 23:34 4186 Oct 09 05:15 4186 Oct 15 23:09 4186 Oct 18 08:40 4186 Oct 20 07:04 4186 Oct 25 01:48 4186 Nov 04 09:51	12° A 32'36 15° A 51'57 28° A 02'59 0° M 0°	1°24'04 1.32665 AU 27°25'10 0.62769 AU -3°30'24 3°28'38	minimum elong max. Earth dist.  evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise direct	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54 4187 Aug 24 05:49 4187 Aug 24 19:26 4187 Sep 07 16:48 4187 Sep 14 16:46 4187 Sep 18 09:39 4187 Sep 21 14:03 4187 Sep 21 19:56 4187 Sep 21 21:00 4187 Sep 29 00:57 4187 Oct 01 09:26	27°\$27'29 28°\$30'00 0°\$\Omega\$ 12°\$\Omega\$39'04 0°\$\mathbf{m}\$ 21°\$\mathbf{m}\$54'38 0°\$\Omega\$ 0°\$\Omega\$32'41 7°\$\Omega\$43'48 5°\$\Omega\$35'20 2°\$\Omega\$55'59 0°\$\Omega\$14'45 0°\$\Omega\$02'17 30°\$\mathbf{m}\$25"\$\mathbf{m}\$26'19 25"\$\mathbf{m}\$04'29	1°07'09 1.32138 AU 26°57'40 0.60796 AU -4°24'12
minimum elong max. Earth dist. evening rise  desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53 4186 Sep 11 14:22 4186 Sep 25 08:25 4186 Oct 02 12:54 4186 Oct 06 03:57 4186 Oct 09 05:15 4186 Oct 15 23:09 4186 Oct 18 08:40 4186 Oct 20 07:04 4186 Oct 25 01:48	12° A 32'36 15° A 51'57 28° A 02'59 0° M 0° Ω 3° Ω 25'58 18° Ω 13'39 25° Ω 29'01 22° Ω 58'26 19° Ω 59'03 17° Ω 16'36 17° Ω 02'56 12° Ω 07'09 11° Ω 40'45 11° Ω 58'23 15° Ω 07'33	1°24'04 1.32665 AU 27°25'10 0.62769 AU -3°30'24 3°28'38	minimum elong max. Earth dist.  evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise direct asc. node	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54 4187 Aug 24 05:49 4187 Aug 24 19:26 4187 Sep 07 16:48 4187 Sep 14 16:46 4187 Sep 18 09:39 4187 Sep 21 14:03 4187 Sep 21 19:56 4187 Sep 21 21:00 4187 Sep 29 00:57 4187 Oct 01 09:26 4187 Oct 07 04:06	27°\$27'29 28°\$30'00 0°\$\Omega\$ 12°\$\Omega\$39'04 0°\$\mathbf{m}\$ 21°\$\mathbf{m}\$54'38 0°\$\Omega\$ 0°\$\Omega\$32'41 7°\$\Omega\$43'48 5°\$\Omega\$35'20 2°\$\Omega\$55'59 0°\$\Omega\$14'45 0°\$\Omega\$02'17 30°\$\mathbf{m}\$25°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$26'29 27°\$\mathbf{m}\$22'25	1°07'09 1.32138 AU 26°57'40 0.60796 AU -4°24'12 4°22'54
minimum elong max. Earth dist. evening rise  desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53 4186 Sep 11 14:22 4186 Sep 25 08:25 4186 Oct 02 12:54 4186 Oct 08 23:34 4186 Oct 09 05:15 4186 Oct 15 23:09 4186 Oct 18 08:40 4186 Oct 20 07:04 4186 Oct 25 01:48 4186 Nov 04 09:51 4186 Nov 10 04:41	12° A 32'36 15° A 51'57 28° A 02'59 0° M 0° A 3° A 25'58 18° A 13'39 25° A 29'01 22° A 58'26 19° A 59'03 17° A 16'36 17° A 02'56 12° A 07'09 11° A 40'45 11° A 58'23 15° A 07'33 0° M 10° M 08'52	1°24'04 1.32665 AU 27°25'10 0.62769 AU -3°30'24 3°28'38	minimum elong max. Earth dist.  evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise direct	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54 4187 Aug 24 05:49 4187 Aug 24 19:26 4187 Sep 07 16:48 4187 Sep 14 16:46 4187 Sep 18 09:39 4187 Sep 21 14:03 4187 Sep 21 14:03 4187 Sep 21 19:56 4187 Sep 21 21:00 4187 Sep 29 00:57 4187 Oct 01 09:26 4187 Oct 07 04:06 4187 Oct 08 15:20	27°\$27'29 28°\$30'00 0°\$\Omega\$ 12°\$\Omega\$39'04 0°\$\mathbf{m}\$ 21°\$\mathbf{m}\$54'38 0°\$\Omega\$ 0°\$\Omega\$32'41 7°\$\Omega\$43'48 5°\$\Omega\$35'20 2°\$\Omega\$55'59 0°\$\Omega\$14'45 0°\$\Omega\$02'17 30°\$\mathbf{m}\$25°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$22'25 28°\$\mathbf{m}\$40'07	1°07'09 1.32138 AU 26°57'40 0.60796 AU -4°24'12
minimum elong max. Earth dist. evening rise  desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53 4186 Sep 11 14:22 4186 Sep 25 08:25 4186 Oct 02 12:54 4186 Oct 08 23:34 4186 Oct 09 05:15 4186 Oct 15 23:09 4186 Oct 18 08:40 4186 Oct 20 07:04 4186 Oct 25 01:48 4186 Nov 04 09:51 4186 Nov 10 04:41	12° € 32'36 15° € 51'57 28° € 02'59 0° № 0° £ 3° £ 25'58 18° £ 13'39 25° £ 29'01 22° £ 58'26 19° £ 59'03 17° £ 16'36 17° £ 02'56 12° £ 07'09 11° £ 40'45 11° £ 58'23 15° £ 07'33 0° № 10° № 08'52	1°24'04 1.32665 AU 27°25'10 0.62769 AU -3°30'24 3°28'38 17°50'14	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise direct asc. node morning max el	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54 4187 Aug 24 05:49 4187 Aug 24 19:26 4187 Sep 07 16:48 4187 Sep 14 16:46 4187 Sep 18 09:39 4187 Sep 21 14:03 4187 Sep 21 19:56 4187 Sep 21 21:00 4187 Sep 29 00:57 4187 Oct 01 09:26 4187 Oct 07 04:06 4187 Oct 08 15:20 4187 Oct 09 21:49	27°\$27'29 28°\$30'00 0°\$\Omega\$ 12°\$\Omega\$39'04 0°\$\mathbf{m}\$ 21°\$\mathbf{m}\$54'38 0°\$\Omega\$2'41 7°\$\Omega\$43'48 5°\$\Omega\$35'20 2°\$\Omega\$55'59 0°\$\Omega\$14'45 0°\$\Omega\$02'17 30°\$\mathbf{m}\$25°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$20'25 28°\$\mathbf{m}\$40'07 0°\$\Omega\$	1°07'09 1.32138 AU 26°57'40 0.60796 AU -4°24'12 4°22'54
minimum elong max. Earth dist. evening rise  desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53 4186 Sep 11 14:22 4186 Sep 25 08:25 4186 Oct 02 12:54 4186 Oct 06 03:57 4186 Oct 08 23:34 4186 Oct 09 05:15 4186 Oct 15 23:09 4186 Oct 18 08:40 4186 Oct 20 07:04 4186 Oct 25 01:48 4186 Nov 04 09:51 4186 Nov 10 04:41 4186 Nov 21 16:52 4186 Nov 21 19:47	12° \mathcal{Q} 32'36 15° \mathcal{Q} 55'57 28° \mathcal{Q} 02'59 0° \mathcal{Q} 0° \mathcal{Q} 0° \mathcal{Q} 0° \mathcal{Q} 3° \mathcal{Q} 25'58 18° \mathcal{Q} 25'58 18° \mathcal{Q} 29'01 22° \mathcal{Q} 58'26 19° \mathcal{Q} 59'03 17° \mathcal{Q} 16'36 17° \mathcal{Q} 02'56 12° \mathcal{Q} 07'09 11° \mathcal{Q} 40'45 11° \mathcal{Q} 58'23 15° \mathcal{Q} 07'33 0° \mathcal{Q} 10° \mathcal{Q} 06'27 0° \string 18'42	1°24'04 1.32665 AU 27°25'10 0.62769 AU -3°30'24 3°28'38	minimum elong max. Earth dist.  evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise direct asc. node	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54 4187 Aug 24 05:49 4187 Aug 24 19:26 4187 Sep 07 16:48 4187 Sep 14 16:46 4187 Sep 18 09:39 4187 Sep 21 14:03 4187 Sep 21 19:56 4187 Sep 21 19:56 4187 Sep 21 21:00 4187 Sep 29 00:57 4187 Oct 01 09:26 4187 Oct 08 15:20 4187 Oct 09 21:49 4187 Oct 24 09:52	27°\$27'29 28°\$30'00 0°\$\Omega\$ 12°\$\Omega\$39'04 0°\$\mathbf{m}\$ 21°\$\mathbf{m}\$54'38 0°\$\Omega\$ 0°\$\Omega\$32'41 7°\$\Omega\$43'48 5°\$\Omega\$35'20 2°\$\Omega\$55'59 0°\$\Omega\$14'45 0°\$\Omega\$02'17 30°\$\mathbf{m}\$25°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$20'25 28°\$\mathbf{m}\$40'07 0°\$\Omega\$23°\$\Omega\$36'18	1°07'09 1.32138 AU 26°57'40 0.60796 AU -4°24'12 4°22'54
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minimum elong max. Earth dist. evening rise  desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53 4186 Sep 11 14:22 4186 Sep 25 08:25 4186 Oct 02 12:54 4186 Oct 08 23:34 4186 Oct 09 05:15 4186 Oct 15 23:09 4186 Oct 18 08:40 4186 Oct 20 07:04 4186 Oct 20 07:04 4186 Nov 04 09:51 4186 Nov 10 04:41  4186 Nov 21 16:52 4186 Nov 21 15:20 4186 Nov 26 05:10	12° A 32'36 15° A 51'57 28° A 02'59 0° M 0° A 3° A 25'58 18° A 13'39 25° A 29'01 22° A 58'26 19° A 59'03 17° A 16'36 17° A 02'56 12° A 07'09 11° A 40'45 11° A 58'23 15° A 07'33 0° M 10° M 08'52 0° A 06'27 0° A 18'42 0° A 7° A 35'22	1°24'04 1.32665 AU 27°25'10 0.62769 AU -3°30'24 3°28'38 17°50'14	minimum elong max. Earth dist.  evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise direct asc. node morning max el morning set	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54 4187 Aug 24 05:49 4187 Sep 07 16:48 4187 Sep 14 16:46 4187 Sep 18 09:39 4187 Sep 21 14:03 4187 Sep 21 19:56 4187 Sep 21 19:56 4187 Sep 21 21:00 4187 Sep 29 00:57 4187 Oct 01 09:26 4187 Oct 07 04:06 4187 Oct 09 21:49 4187 Oct 24 09:52 4187 Oct 27 20:40	27°\$27'29 28°\$30'00 0°\$\mathcal{O}\$ 12°\$\mathcal{Q}\$39'04 0°\$\mathcal{D}\$ 21°\$\mathcal{D}\$54'38 0°\$\mathcal{D}\$ 0°\$\mathcal{D}\$32'41 7°\$\mathcal{D}\$43'48 5°\$\mathcal{D}\$35'20 2°\$\mathcal{D}\$55'59 0°\$\mathcal{D}\$14'45 0°\$\mathcal{D}\$02'17 30°\$\mathcal{D}\$0\mathcal{D}\$26'19 25°\$\mathcal{D}\$26'19 25°\$\mathcal{D}\$26'19 25°\$\mathcal{D}\$40'07 0°\$\mathcal{D}\$ 23°\$\mathcal{D}\$36'18 0°\$\mathcal{D}\$	1°07'09 1.32138 AU 26°57'40 0.60796 AU -4°24'12 4°22'54
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minimum elong max. Earth dist. evening rise  desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53 4186 Sep 11 14:22 4186 Sep 25 08:25 4186 Oct 02 12:54 4186 Oct 08 23:34 4186 Oct 09 05:15 4186 Oct 15 23:09 4186 Oct 18 08:40 4186 Oct 20 07:04 4186 Oct 25 01:48 4186 Nov 04 09:51 4186 Nov 10 04:41 4186 Nov 21 16:52 4186 Nov 21 15:20 4186 Nov 22 12:16 4186 Nov 28 12:16 4186 Dec 06 17:49 4186 Dec 10 10:26 4186 Dec 31 06:58	12° € 32'36 15° € 51'57 28° € 02'59 0° № 0° £ 3° £ 25'58 18° £ 13'39 25° £ 29'01 22° £ 58'26 19° £ 59'03 17° £ 16'36 17° £ 02'56 12° £ 07'09 11° £ 40'45 11° £ 58'23 15° £ 07'33 0° № 10° № 08'52 0° ₹ 18'42 0° ₹ 18'42 0° ₹ 19'10 24° ₹ 19'32 0° ₹ 06'€ 0° €	1°24'04 1.32665 AU 27°25'10 0.62769 AU -3°30'24 3°28'38 17°50'14 0°31'11 0°30'47 1.43650 AU	minimum elong max. Earth dist.  evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise direct asc. node morning max el morning set	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54 4187 Aug 24 05:49 4187 Aug 24 19:26 4187 Sep 07 16:48 4187 Sep 14 16:46 4187 Sep 18 09:39 4187 Sep 21 14:03 4187 Sep 21 14:03 4187 Sep 21 19:56 4187 Sep 21 21:00 4187 Sep 29 00:57 4187 Oct 01 09:26 4187 Oct 07 04:06 4187 Oct 08 15:20 4187 Oct 09 21:49 4187 Oct 24 09:52 4187 Oct 27 20:40  4187 Nov 03 08:44 4187 Nov 03 12:52 4187 Nov 11 00:04 4187 Nov 13 02:11	27°\$27'29 28°\$30'00 0°\$\alpha\$ 12°\$\alpha\$39'04 0°\$\mathbf{m}\$ 21°\$\mathbf{m}\$54'38 0°\$\alpha\$ 0°\$\alpha\$32'41 7°\$\alpha\$43'48 5°\$\alpha\$35'20 2°\$\alpha\$55'59 0°\$\alpha\$14'45 0°\$\alpha\$02'17 30°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$40'07 0°\$\alpha\$ 23°\$\alpha\$36'18 0°\$\mathbf{m}\$ 11°\$\mathbf{m}\$46'56 12°\$\mathbf{m}\$05'14 24°\$\mathbf{m}\$54'56 28°\$\mathbf{m}\$22'13	1°07'09 1.32138 AU 26°57'40 0.60796 AU -4°24'12 4°22'54 18°02'22
minimum elong max. Earth dist. evening rise  desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el  morning set  superior conj minimum elong desc. node max. Earth dist. evening rise	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53 4186 Sep 11 14:22 4186 Sep 25 08:25 4186 Oct 02 12:54 4186 Oct 08 23:34 4186 Oct 09 05:15 4186 Oct 15 23:09 4186 Oct 18 08:40 4186 Oct 20 07:04 4186 Oct 25 01:48 4186 Nov 10 04:41 4186 Nov 10 04:41 4186 Nov 21 16:52 4186 Nov 21 19:47 4186 Nov 21 15:20 4186 Nov 26 05:10 4186 Nov 27 15:20 4186 Nov 28 12:16 4186 Dec 10 10:26 4186 Dec 31 06:58 4187 Jan 06 01:04	12° € 32'36 15° € 51'57 28° € 02'59 0° № 0° £ 3° £ 25'58 18° £ 13'39 25° £ 29'01 22° £ 58'26 19° £ 59'03 17° £ 16'36 17° £ 02'56 12° £ 07'09 11° £ 40'45 11° £ 58'23 15° £ 07'33 0° № 10° № 08'52 0° ₹ 18'42 0° ₹ 18'42 0° ₹ 19'32 0° ₹ 19'32 0° ₹ 19'32 0° ₹ 19'32	1°24'04 1.32665 AU 27°25'10 0.62769 AU -3°30'24 3°28'38 17°50'14	minimum elong max. Earth dist.  evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise direct asc. node morning max el morning set	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54 4187 Aug 24 05:49 4187 Aug 24 19:26 4187 Sep 07 16:48 4187 Sep 14 16:46 4187 Sep 18 09:39 4187 Sep 21 14:03 4187 Sep 21 19:56 4187 Sep 21 21:00 4187 Sep 21 21:00 4187 Sep 29 00:57 4187 Oct 01 09:26 4187 Oct 07 04:06 4187 Oct 08 15:20 4187 Oct 09 21:49 4187 Oct 24 09:52 4187 Oct 27 20:40  4187 Nov 03 08:44 4187 Nov 03 08:44 4187 Nov 11 00:04 4187 Nov 13 02:11 4187 Nov 14 02:06	27°\$27'29 28°\$30'00 0°\$\alpha\$ 12°\$\alpha\$39'04 0°\$\mathbf{m}\$ 21°\$\mathbf{m}\$54'38 0°\$\alpha\$ 0°\$\alpha\$32'41 7°\$\alpha\$43'48 5°\$\alpha\$35'20 2°\$\alpha\$5'5'59 0°\$\alpha\$14'45 0°\$\alpha\$02'17 30°\$\mathbf{m}\$25'\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$20'25 28°\$\mathbf{m}\$40'07 0°\$\alpha\$ 23°\$\alpha\$36'18 0°\$\mathbf{m}\$ 11°\$\mathbf{m}\$46'56 12°\$\mathbf{m}\$05'14 24°\$\mathbf{m}\$54'56 28°\$\mathbf{m}\$22'13 0°\$\scrip\$	1°07'09 1.32138 AU 26°57'40 0.60796 AU -4°24'12 4°22'54 18°02'22
minimum elong max. Earth dist. evening rise  desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el  morning set  superior conj minimum elong desc. node max. Earth dist. evening rise	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53 4186 Sep 11 14:22 4186 Sep 25 08:25 4186 Oct 02 12:54 4186 Oct 08 23:34 4186 Oct 09 05:15 4186 Oct 15 23:09 4186 Oct 18 08:40 4186 Oct 20 07:04 4186 Oct 25 01:48 4186 Nov 04 09:51 4186 Nov 10 04:41 4186 Nov 21 16:52 4186 Nov 21 19:47 4186 Nov 21 15:20 4186 Nov 21 15:20 4186 Nov 22 15:20 4186 Nov 23 12:16 4186 Dec 06 17:49 4186 Dec 10 10:26 4186 Dec 31 06:58 4187 Jan 06 01:04 4187 Jan 14 17:57	12° € 32'36 15° € 51'57 28° € 02'59 0° № 0° £ 3° £ 25'58 18° £ 13'39 25° £ 29'01 22° £ 58'26 19° £ 59'03 17° £ 16'36 17° £ 02'56 12° £ 07'09 11° £ 40'45 11° £ 58'23 15° £ 07'33 0° № 10° № 08'52 0° ₹ 18'42 0° ₹ 19'32 0° ₹ 19'32 0° ₹ 19'32 0° ₹ 19'32 0° ₹ 19'32	1°24'04 1.32665 AU 27°25'10 0.62769 AU -3°30'24 3°28'38 17°50'14 0°31'11 0°30'47 1.43650 AU	minimum elong max. Earth dist.  evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise direct asc. node morning max el morning set	4187 Jul 18 02:31 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54 4187 Aug 24 05:49 4187 Aug 24 19:26 4187 Sep 07 16:48 4187 Sep 14 16:46 4187 Sep 18 09:39 4187 Sep 21 14:03 4187 Sep 21 19:56 4187 Sep 21 19:56 4187 Sep 21 21:00 4187 Sep 21 00:57 4187 Oct 01 09:26 4187 Oct 07 04:06 4187 Oct 08 15:20 4187 Oct 09 21:49 4187 Oct 24 09:52 4187 Oct 27 20:40 4187 Nov 03 08:44 4187 Nov 03 08:44 4187 Nov 13 02:11 4187 Nov 14 02:06 4187 Nov 16 15:28	27°\$27'29 28°\$30'00 0°\$\Omega\$ 12°\$\Omega\$39'04 0°\$\mathbf{m}\$ 21°\$\mathbf{m}\$54'38 0°\$\Omega\$2'41 7°\$\Omega\$43'48 5°\$\Omega\$35'20 2°\$\Omega\$55'59 0°\$\Omega\$14'45 0°\$\Omega\$2'17 30°\$\mathbf{m}\$25'\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$20'25 28°\$\mathbf{m}\$40'07 0°\$\Omega\$23°\$\Omega\$36'18 0°\$\mathbf{m}\$ 11°\$\mathbf{m}\$46'56 12°\$\mathbf{m}\$05'14 24°\$\mathbf{m}\$54'56 28°\$\mathbf{m}\$22'13 0°\$\nall{m}\$ 4°\$\nall{m}\$707'37	1°07'09 1.32138 AU 26°57'40 0.60796 AU -4°24'12 4°22'54 18°02'22
minimum elong max. Earth dist. evening rise  desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el  morning set  superior conj minimum elong desc. node max. Earth dist. evening rise  evening max el retrograde asc. node	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 10 20:33 4186 Aug 30 05:53 4186 Sep 11 14:22 4186 Sep 25 08:25 4186 Oct 02 12:54 4186 Oct 08 23:34 4186 Oct 09 05:15 4186 Oct 15 23:09 4186 Oct 18 08:40 4186 Oct 20 07:04 4186 Oct 25 01:48 4186 Nov 04 09:51 4186 Nov 10 04:41 4186 Nov 21 16:52 4186 Nov 21 16:52 4186 Nov 21 15:20 4186 Nov 21 15:20 4186 Nov 21 15:20 4186 Nov 22 15:20 4186 Nov 23 12:16 4186 Dec 06 17:49 4186 Dec 10 10:26 4186 Dec 31 06:58 4187 Jan 06 01:04 4187 Jan 16 06:21	12° \mathcal{Q} 32'36 15° \mathcal{Q} 51'57 28° \mathcal{Q} 02'59 0° \mathcal{Q} 0° \mathcal{Q} 0° \mathcal{Q} 0° \mathcal{Q} 3° \mathcal{Q} 25'58 18° \mathcal{Q} 13'39 25° \mathcal{Q} 29'01 22° \mathcal{Q} 58'26 19° \mathcal{Q} 59'03 17° \mathcal{Q} 16'36 17° \mathcal{Q} 02'56 12° \mathcal{Q} 07'09 11° \mathcal{Q} 40'45 11° \mathcal{Q} 40'33 0° \mathcal{Q} 0° \mathcal{Q} 40'32 0° \mathcal{Q} 40'32 0° \mathcal{Q} 0° \mathcal{Q} 11° \mathcal{Q} 43'19'32 0° \mathcal{Q} 0° \mathcal{Q} 00'41 11° \mathcal{Q} 40'34	1°24'04 1.32665 AU 27°25'10 0.62769 AU -3°30'24 3°28'38 17°50'14 0°31'11 0°30'47 1.43650 AU	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise direct asc. node morning max el morning set	4187 Jul 18 02:31 4187 Jul 18 13:51 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54 4187 Aug 24 05:49 4187 Aug 24 19:26 4187 Sep 07 16:48 4187 Sep 14 16:46 4187 Sep 18 09:39 4187 Sep 21 14:03 4187 Sep 21 19:56 4187 Sep 21 19:56 4187 Sep 21 00:57 4187 Oct 01 09:26 4187 Oct 07 04:06 4187 Oct 08 15:20 4187 Oct 09 21:49 4187 Oct 24 09:52 4187 Oct 27 20:40 4187 Nov 03 08:44 4187 Nov 03 08:44 4187 Nov 13 02:11 4187 Nov 14 02:06 4187 Nov 16 15:28 4187 Dec 03 18:49	27°\$27'29 28°\$30'00 0°\$\Omega\$ 12°\$\Omega\$39'04 0°\$\mathbf{m}\$ 21°\$\mathbf{m}\$54'38 0°\$\Omega\$ 0°\$\Omega\$32'41 7°\$\Omega\$43'48 5°\$\Omega\$35'20 2°\$\Omega\$55'59 0°\$\Omega\$14'45 0°\$\Omega\$02'17 30°\$\mathbf{m}\$25°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$21'13 0°\$\Omega\$ 11°\$\mathbf{m}\$46'56 12°\$\mathbf{m}\$05'14 24°\$\mathbf{m}\$54'56 28°\$\mathbf{m}\$22'13 0°\$\omega\$ 4°\$\omega\$707'37 0°\$\omega\$	1°07'09 1.32138 AU 26°57'40 0.60796 AU -4°24'12 4°22'54 18°02'22 1°04'55 1°04'24 1.41960 AU
minimum elong max. Earth dist. evening rise  desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el  morning set  superior conj minimum elong desc. node max. Earth dist. evening rise	4186 Aug 02 15:04 4186 Aug 04 03:38 4186 Aug 09 21:35 4186 Aug 10 20:33 4186 Aug 27 21:19 4186 Aug 30 05:53 4186 Sep 11 14:22 4186 Sep 25 08:25 4186 Oct 02 12:54 4186 Oct 08 23:34 4186 Oct 09 05:15 4186 Oct 15 23:09 4186 Oct 18 08:40 4186 Oct 20 07:04 4186 Oct 25 01:48 4186 Nov 04 09:51 4186 Nov 10 04:41 4186 Nov 21 16:52 4186 Nov 21 19:47 4186 Nov 21 15:20 4186 Nov 21 15:20 4186 Nov 22 15:20 4186 Nov 23 12:16 4186 Dec 06 17:49 4186 Dec 10 10:26 4186 Dec 31 06:58 4187 Jan 06 01:04 4187 Jan 14 17:57	12° € 32'36 15° € 51'57 28° € 02'59 0° № 0° £ 3° £ 25'58 18° £ 13'39 25° £ 29'01 22° £ 58'26 19° £ 59'03 17° £ 16'36 17° £ 02'56 12° £ 07'09 11° £ 40'45 11° £ 58'23 15° £ 07'33 0° № 10° № 08'52 0° ₹ 18'42 0° ₹ 19'32 0° ₹ 19'32 0° ₹ 19'32 0° ₹ 19'32 0° ₹ 19'32	1°24'04 1.32665 AU 27°25'10 0.62769 AU -3°30'24 3°28'38 17°50'14 0°31'11 0°30'47 1.43650 AU 21°16'16	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise direct asc. node morning max el morning set	4187 Jul 18 02:31 4187 Jul 19 06:11 4187 Jul 25 02:45 4187 Aug 02 23:31 4187 Aug 17 02:54 4187 Aug 24 05:49 4187 Aug 24 19:26 4187 Sep 07 16:48 4187 Sep 14 16:46 4187 Sep 18 09:39 4187 Sep 21 14:03 4187 Sep 21 19:56 4187 Sep 21 19:56 4187 Sep 21 21:00 4187 Sep 21 00:57 4187 Oct 01 09:26 4187 Oct 07 04:06 4187 Oct 08 15:20 4187 Oct 09 21:49 4187 Oct 24 09:52 4187 Oct 27 20:40 4187 Nov 03 08:44 4187 Nov 03 08:44 4187 Nov 13 02:11 4187 Nov 14 02:06 4187 Nov 16 15:28	27°\$27'29 28°\$30'00 0°\$\Omega\$ 12°\$\Omega\$39'04 0°\$\mathbf{m}\$ 21°\$\mathbf{m}\$54'38 0°\$\Omega\$2'41 7°\$\Omega\$43'48 5°\$\Omega\$35'20 2°\$\Omega\$55'59 0°\$\Omega\$14'45 0°\$\Omega\$2'17 30°\$\mathbf{m}\$25'\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$26'19 25°\$\mathbf{m}\$20'25 28°\$\mathbf{m}\$40'07 0°\$\Omega\$23°\$\Omega\$36'18 0°\$\mathbf{m}\$ 11°\$\mathbf{m}\$46'56 12°\$\mathbf{m}\$05'14 24°\$\mathbf{m}\$54'56 28°\$\mathbf{m}\$22'13 0°\$\nall{m}\$ 4°\$\nall{m}\$707'37	1°07'09 1.32138 AU 26°57'40 0.60796 AU -4°24'12 4°22'54 18°02'22 1°04'55 1°04'24 1.41960 AU

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:	4100 D 07 02.51	159.742116	0004120		4190 Oct 26 01:32	0° <b>∡¹</b>	
inferior conj	4189 Dec 07 02:51	15° <b>₹</b> 43'16					26915122
minimum elong	4189 Dec 07 02:44	15° <b>₹</b> 43'40	0°04'35	evening max el	4190 Oct 27 09:48	1° <b>×</b> <sup>7</sup> 20'18	26°15'33
transit middle	4189 Dec 07 02:44	15° <b>∡</b> 43'40	0°04'35	retrograde	4190 Nov 09 02:51	8° <b>⋌</b> ³30'34	
transit begin	4189 Dec 07 00:04	15° <b>₹</b> 52'22		evening set	4190 Nov 15 10:29	5° <b>∡</b> ¹55'15	
transit end	4189 Dec 07 05:24	15° <b>≯</b> 34'58		min. Earth dist.	4190 Nov 19 15:05	1° <b>≯</b> ′30′18	0.66533 AU
morning rise	4189 Dec 12 16:16	9° <b>∡</b> ¹45'26			4190 Nov 20 20:30	30°RM₊	
direct	4189 Dec 16 04:14	8° <b>∡</b> ³34'50		inferior conj	4190 Nov 21 04:07	29°M36'34	-0°53'18
morning max el	4189 Dec 23 10:34	12° <b>∡</b> ³39'57	19°33'44	minimum elong	4190 Nov 21 05:33	29°MJ32'08	0°52'41
greatest brilliancy	4190 Jan 05 13:08	0° <b>ろ</b> 02'00	-0.7m	asc. node	4190 Nov 23 18:28	26°MJ34'10	
,	4190 Jan 05 12:35	0° <b>ろ</b>		morning rise	4190 Nov 27 01:09	23°M48'15	
desc. node	4190 Jan 12 19:28	11° <b>る</b> 02'19		direct	4190 Nov 30 02:43	22°M54'48	
	4190 Jan 17 08:51	11° <b>さ</b> 0217			4190 Dec 06 20:14	26°M36'48	18°43'01
morning set				morning max el			16 43 01
	4190 Jan 25 01:15	0° <b>≈</b>			4190 Dec 09 19:59	0° <b>∡</b> ¹	
max. Earth dist.	4190 Jan 29 21:04	7° <b>≈</b> 35'51	1.44510 AU	morning set	4190 Dec 27 23:59	27° <b>∡</b> 18'24	
					4190 Dec 29 16:58	0°ಕ	
superior conj	4190 Feb 03 01:12	14° <b>≈</b> 14'52	-1°55'58	desc. node	4190 Dec 30 16:29	1° <b>る</b> 32'40	
minimum elong	4190 Feb 02 18:24	13° <b>≈</b> 47'36	1°55'33	max. Earth dist.	4191 Jan 12 14:31	21° <b>る</b> 50'08	1.45206 AU
	4190 Feb 12 16:43	0° <b>∀</b>					
evening rise	4190 Feb 16 22:37	7° <b>₩</b> 06'00		superior conj	4191 Jan 13 06:58	22°る54'44	-1°24'43
S	4190 Mar 03 01:26	$_0$ $^{\circ}$ $^{\circ}$		minimum elong	4191 Jan 12 21:46	22° <b>る</b> 18'38	1°23'44
asc. node	4190 Mar 04 20:43	2° <b>Υ</b> 26'53		minimum viong	4191 Jan 17 19:06	0°≈	1 23
		5° <b>Υ</b> 44'46	18°18'33		4191 Jan 28 19:44	0 ~ 17°≈32'03	
evening max el	4190 Mar 07 17:12		18-18-33	evening rise			0.0
retrograde	4190 Mar 14 03:45	9° <b>Υ</b> 12'23		greatest brilliancy	4191 Feb 05 06:01	29° <b>≈</b> 27'11	-0.9m
evening set	4190 Mar 17 03:24	8° <b>Y</b> 24'26			4191 Feb 05 14:15	0° <b>∀</b>	
inferior conj	4190 Mar 23 02:29	3° <b>Y</b> 01′06	3°35'37	evening max el	4191 Feb 19 04:15	19° <b>∺</b> 12'29	18°48'19
minimum elong	4190 Mar 23 02:49	3° <b>Y</b> 00'10	3°35'36	asc. node	4191 Feb 19 17:46	19° <b>)</b> 45′53	
min. Earth dist.	4190 Mar 25 12:55	0° <b>Y</b> 16′36	0.63778 AU	retrograde	4191 Feb 25 21:15	22° <b>)</b> 57'13	
	4190 Mar 25 19:02	30° <b>₹</b>		evening set	4191 Mar 01 03:18	21° <b>¥</b> 56'33	
morning rise	4190 Mar 29 01:20	26° <b>)</b> 52'50		inferior conj	4191 Mar 06 19:00	16° <b>)</b> 15'45	3°31'50
direct	4190 Apr 04 22:04	24° <b>)</b> €07'53		minimum elong	4191 Mar 06 17:53	16° <b>¥</b> 19'11	3°31'44
desc. node	4190 Apr 10 18:42	25° <b>)</b> (48'47		min. Earth dist.	4191 Mar 08 13:44	14° <b>)</b> (04'04	0.65438 AU
desc. node		23 <b>Λ</b> 4847				10° <b>H</b> 03'18	0.05458 AU
	4190 Apr 16 12:01		27020120	morning rise	4191 Mar 12 08:03		
morning max el	4190 Apr 18 16:49	2° <b>Y</b> 05'45	27°38'30	direct	4191 Mar 18 22:31	7° <b>¥</b> 12'38	
	4190 May 09 09:45	0°8		desc. node	4191 Mar 28 15:44	11° <b>)</b> 46′12	
morning set	4190 May 23 12:23	25° <b>8</b> 28'25		morning max el	4191 Apr 01 02:38	14° <b>¥</b> 58′06	26°52'47
	4190 May 25 18:21	$\Pi$ $^{\circ}0$			4191 Apr 13 09:44	$0$ ° $\Upsilon$	
max. Earth dist.	4190 May 28 13:35	5° <b>Ⅱ</b> 48'07	1.33024 AU		4191 May 02 03:38	$9^{\circ}$ 8	
	-			morning set	4191 May 06 22:08	8° <b>8</b> 52'03	
superior conj	4190 May 31 09:21	11° <b>Ⅱ</b> 47'51	-0°04'39	max. Earth dist.	4191 May 11 06:35	17° <b>8</b> 24'33	1.34212 AU
minimum elong	4190 May 31 09:35	11° <b>I</b> I49'06		man. Bartir dist.	1171 1114 11 00.50	1, 02.00	1.5 .212110
behind sun begin	4190 May 31 04:26	11° <b>II</b> 21'31	0 0437	superior conj	4191 May 15 10:34	25° <b>8</b> 56'43	0022120
_	-				•		
behind sun end	4190 May 31 14:44	12° <b>Ⅱ</b> 16'43		minimum elong	4191 May 15 12:20	26° <b>8</b> 05'56	0°33'06
asc. node	4190 May 31 20:01	12° <b>∏</b> 45′02			4191 May 17 09:00	$0^{\circ}\Pi$	
evening rise	4190 Jun 07 11:17	27° <b>Ⅱ</b> 00'40		asc. node	4191 May 18 17:03	2° <b>Ⅱ</b> 49'00	
	4190 Jun 08 21:26	0		evening rise	4191 May 22 21:20	11° <b>Ⅱ</b> 36'59	
	4190 Jun 26 20:35	$0^{\circ}\Omega$			4191 Jun 01 10:39	$0$ $\circ$ $\odot$	
evening max el	4190 Jun 29 21:16	3° <b>Ω</b> 14'11	22°55'28	evening max el	4191 Jun 11 16:36	13° <b>5</b> 48'41	21°22'35
desc. node	4190 Jul 07 17:56	8° <b>Ω</b> 44'32		retrograde	4191 Jun 23 19:18	19° <b>5</b> 346'21	
retrograde	4190 Jul 13 05:26	9° <b>Ω</b> 53'07		desc. node	4191 Jun 24 14:58	19° <b>5</b> 44'47	
evening set	4190 Jul 16 17:32	9° <b>Ω</b> 26'15		evening set	4191 Jun 26 04:08	19° <b>5</b> 33'29	
min. Earth dist.	4190 Jul 24 06:01		0.55424 AU	inferior conj	4191 Jul 05 13:11	15° <b>©</b> 34'13	-3°06'25
inferior conj	4190 Jul 25 18:56	5° <b>Ω</b> 12'06		minimum elong	4191 Jul 05 05:09		3°03'53
minimum elong	4190 Jul 25 11:35	5° <b>Ω</b> 22'43	4-31-38	min. Earth dist.	4191 Jul 05 16:44	15°529'15	0.54835 AU
morning rise	4190 Aug 03 07:52	1° <b>Ω</b> 20'40		morning rise	4191 Jul 14 06:53	11° <b>©</b> 38'51	
direct	4190 Aug 06 06:49	1° <b>Ω</b> 00'06		direct	4191 Jul 17 16:47	11° <b>©</b> 13'39	
morning max el	4190 Aug 17 07:03	6° <b>Ω</b> 07'04	20°43'39	morning max el	4191 Jul 30 05:54	17° <b>©</b> 09'47	22°17'16
asc. node	4190 Aug 27 19:15	20° <b>Ω</b> 07'43			4191 Aug 09 09:40	$0^{\circ}\Omega$	
	4190 Sep 02 03:24	0° <b>т</b> р		asc. node	4191 Aug 14 16:18	9° <b>Ω</b> 08'23	
morning set	4190 Sep 05 11:18	6° Mp 43'16		morning set	4191 Aug 20 21:30	21° <b>Ω</b> 33'18	
S	1	n		Z .	4191 Aug 24 21:04	0° m)	
superior conj	4190 Sep 12 22:57	22° m 13'10	1°44'10			- '¥	
	•	-		gunorior cor:	4101 Av. 20 01.10	60 m 11151	1°41'03
minimum elong	4190 Sep 12 23:02	22° m 13'34	1°44'11	superior conj	4191 Aug 28 01:10	6° Mp 44'51	
n	4190 Sep 16 19:47	0∘ <b>ʊ</b>	1 25022 177	minimum elong	4191 Aug 27 23:58	6° Mp 38'32	1°41'00
max. Earth dist.	4190 Sep 17 18:35	1° <b>£</b> 51'51	1.35938 AU	max. Earth dist.	4191 Aug 31 10:29	13° <b>m</b> 49'14	1.34345 AU
evening rise	4190 Sep 21 19:14	9° <b>ഫ</b> 32'32		evening rise	4191 Sep 05 01:11	23° Mp 03'24	
desc. node							
dese. node	4190 Oct 03 17:13	0°M04'26			4191 Sep 08 17:00	0∘ <b>⊽</b>	
dese. Hode	4190 Oct 03 17:13 4190 Oct 03 16:06	0°M04'26 0°M		desc. node	4191 Sep 08 17:00 4191 Sep 20 14:15	0° <b>ჲ</b> 20° <b>ჲ</b> 08'48	

	4191 Sep 27 08:08	0° <b>M</b>		evening rise	4192 Aug 18 18:40	7° <b>m</b> 07'03	
evening max el	4191 Oct 09 22:32	14°M55'19	27°03'17		4192 Aug 31 05:32	0∘ <b>ত</b>	
retrograde	4191 Oct 23 04:46	22°M12'17		desc. node	4192 Sep 06 11:19	9° <b>£</b> 45'50	
evening set	4191 Oct 30 00:13	19°M31'14		evening max el	4192 Sep 21 09:57	28° <b>≏</b> 10′21	27°25'47
min. Earth dist.	4191 Nov 02 22:17	15°M42'08	0.65339 AU		4192 Sep 23 10:38	0° <b>M</b> ₊	
inferior conj	4191 Nov 04 23:15	13°M23'27		retrograde	4192 Oct 05 00:36	5°M27'45	
minimum elong	4191 Nov 05 02:28	13°ML14'18	1°52'59	evening set	4192 Oct 12 03:49	2°M49'45	
asc. node	4191 Nov 10 15:31	8°M06'40			4192 Oct 15 10:02	30° <b>₹</b> Ω	
morning rise	4191 Nov 11 05:39	7° <b>M</b> 47'48		min. Earth dist.	4192 Oct 15 20:28	29° <b>≏</b> 34'15	0.63799 AU
direct	4191 Nov 13 23:02	7°M07'42		inferior conj	4192 Oct 18 09:41	26° <b>≏</b> 57'21	
morning max el	4191 Nov 20 10:51	10°M36'45	18°08'51	minimum elong	4192 Oct 18 14:38	26° <b>£</b> 44'40	2°54'16
	4191 Dec 03 22:50	0° <b>√</b> ¹		morning rise	4192 Oct 25 02:48	21° <b>£</b> 37'40	
morning set	4191 Dec 08 20:33	8° <b>₹</b> 02'57		direct	4192 Oct 27 14:24	21° <b>Ω</b> 07'19	
desc. node	4191 Dec 17 13:31	22° <b>⋠</b> 12'32		asc. node	4192 Oct 27 12:34	21° <b>♀</b> 07'20	15051154
	4191 Dec 22 10:40	0° <b>ප</b>		morning max el	4192 Nov 03 03:33	24° <b>Ω</b> 32'22	17°51'54
aumorior aoni	4191 Dec 23 11:28	1° <b>る</b> 38'14	0920151	marning act	4192 Nov 07 14:28	0°M 20°M05'38	
superior conj minimum elong	4191 Dec 23 11:28 4191 Dec 23 06:28	1 33814 1°る18'26		morning set	4192 Nov 19 20:03	20 IIL03 38 0° <b>√</b>	
max. Earth dist.	4191 Dec 23 06:28 4191 Dec 26 10:18	6°る17'32	1.45160 AU		4192 Nov 25 15:05	0.8,	
evening rise	4191 Dec 20 10:18 4192 Jan 08 19:11	0 31732 27° <b>る</b> 08'46	1.43100 AU	superior conj	4192 Dec 02 10:07	11° <b>√</b> 18′07	0°07'05
evening rise	4192 Jan 10 15:20	27 308 40 0°≈		minimum elong	4192 Dec 02 10:54	11° <b>x</b> 1807	0°06'59
greatest brilliancy	4192 Jan 21 10:52	0 <b>≈</b> 16° <b>≈</b> 36'32	-0.7m	behind sun begin	4192 Dec 02 10:54 4192 Dec 02 01:58	10° <b>x</b> 44'46	0 0039
greatest offinancy	4192 Jan 31 01:09	10 <b>≈</b> 30 32	-0.7111	behind sun end	4192 Dec 02 01:38 4192 Dec 02 19:49	11° × 44 40	
evening max el	4192 Feb 02 11:27	2° <b>)</b> (43'36	19°34'46	desc. node	4192 Dec 02 19:49 4192 Dec 03 10:33	12° <b>×</b> 757'49	
asc. node	4192 Feb 06 14:49	6° <b>₩</b> 02'59	17 54 40	max. Earth dist.	4192 Dec 08 04:36	20° 🖈 36'51	1.44386 AU
retrograde	4192 Feb 09 18:24	6° <b>¥</b> 55'52		max. Earth dist.	4192 Dec 14 03:41	0°중	1.11500710
evening set	4192 Feb 13 07:50	5° <b>)</b> (41'37		evening rise	4192 Dec 18 05:44	6° <b>ට</b> 19'26	
inferior conj	4192 Feb 18 18:56	29°≈45'25	3°14'32	evening rise	4193 Jan 03 00:33	0°≈	
minimum elong	4192 Feb 18 16:53	29°≈52'08	3°14'10	evening max el	4193 Jan 15 13:23	16°≈15'33	20°35'47
	4192 Feb 18 14:30	30°R≈		asc. node	4193 Jan 23 11:51	21°≈03'05	
min. Earth dist.	4192 Feb 19 22:43	28° <b>≈</b> 14'01	0.66688 AU	retrograde	4193 Jan 23 16:37	21°≈03'18	
morning rise	4192 Feb 24 01:43	23° <b>≈</b> 31'27		evening set	4193 Jan 27 14:50	19° <b>≈</b> 34'36	
direct	4192 Mar 01 04:57	20° <b>≈</b> 47'36		inferior conj	4193 Feb 01 23:35	13° <b>≈</b> 25'44	2°46'38
morning max el	4192 Mar 13 12:08	28° <b>≈</b> 07'21	25°42'34	minimum elong	4193 Feb 01 21:08	13° <b>≈</b> 34'06	2°46'00
desc. node	4192 Mar 14 12:45	29° <b>≈</b> 10'57		min. Earth dist.	4193 Feb 02 13:58	12° <b>≈</b> 36'31	0.67518 AU
	4192 Mar 15 07:05	0° <b>)</b> €		morning rise	4193 Feb 07 03:15	7°≈12'01	
	4192 Apr 06 03:25	$0^{\circ}\mathbf{\Upsilon}$		direct	4193 Feb 12 16:37	4° <b>≈</b> 43'57	
morning set	4192 Apr 18 17:25	21° <b>Y</b> 29'31		morning max el	4193 Feb 23 20:47	11° <b>≈</b> 24′23	24°17'44
max. Earth dist.	4192 Apr 22 12:20	28° <b>Y</b> 34'06	1.35851 AU	desc. node	4193 Mar 01 09:47	17° <b>≈</b> 37'50	
	4192 Apr 23 06:17	$9^{\circ}$ 8			4193 Mar 10 17:19	0° <b>∀</b>	
					4193 Mar 29 21:38	$0^{\circ}\mathbf{\Upsilon}$	
superior conj	4192 Apr 28 03:37	9° <b>8</b> 36'50		morning set	4193 Mar 31 16:45	3° <b>Y</b> 05′51	
minimum elong	4192 Apr 28 06:59	9° <b>8</b> 53'47	1°02'04	max. Earth dist.	4193 Apr 04 09:14	9° <b>Ƴ</b> 37'33	1.37856 AU
asc. node	4192 May 04 14:06	22° <b>8</b> 45'04					
evening rise	4192 May 06 03:38	25° <b>8</b> 57'05		superior conj	4193 Apr 11 09:09	22° <b>Y</b> 39'22	
	4192 May 08 03:42	$\Pi$ °0		minimum elong	4193 Apr 11 13:44	23° <b>Y</b> 01′23	1°29'32
evening max el	4192 May 23 23:25	24° <b>Ⅱ</b> 57'46	20°04'29		4193 Apr 15 03:44	0° <b>8</b>	
	4192 Jun 02 07:28	0ං <b>ව</b>		evening rise	4193 Apr 20 03:41	9° <b>8</b> 53'41	
retrograde	4192 Jun 03 09:54	0°503'17		asc. node	4193 Apr 21 11:10	12° <b>8</b> 28'43	
	4192 Jun 04 12:41	30°RⅡ			4193 May 01 06:55	0°II	
evening set	4192 Jun 05 08:45	29° <b>I</b> I53'22		evening max el	4193 May 06 18:13	6° <b>Ⅱ</b> 48'43	19°05'50
desc. node	4192 Jun 10 12:01	28° <b>Ⅱ</b> 05'27	1000101	retrograde	4193 May 15 13:11	11° <b>I</b> 105'58	
inferior conj	4192 Jun 14 09:26	25° <b>Ⅱ</b> 53'44		evening set	4193 May 17 14:19	10° <b>I</b> 52'59	00.42122
minimum elong	4192 Jun 14 06:12	25° <b>II</b> 58'36		inferior conj	4193 May 25 20:54	6° <b>Ⅱ</b> 40'23	0°43'32
min. Earth dist.	4192 Jun 16 05:07	24° <b>∏</b> 48′25	0.55201 AU	minimum elong	4193 May 25 22:37	6° <b>Ⅱ</b> 37'25	0°42'54
morning rise direct	4192 Jun 23 02:01 4192 Jun 27 04:51	21° <b>Ⅲ</b> 34'19 20° <b>Ⅲ</b> 57'25		desc. node min. Earth dist.	4193 May 28 09:01 4193 May 28 20:28	4° <b>П</b> 57'17 4° <b>П</b> 38'13	0.56456 AU
morning max el	4192 Jul 10 21:23	20° <b>II</b> 37°23 27° <b>II</b> 40'44	24°00'26	morning rise	4193 May 28 20:28 4193 Jun 03 03:44	1° <b>П</b> 45'27	0.50450 AU
morning max ci	4192 Jul 10 21.23 4192 Jul 13 04:33	27 <b>11</b> 4044 0°9	4T 00 40	direct	4193 Jun 08 05:23	1 <b>П</b> 43 27 0° <b>П</b> 45'12	
asc. node	4192 Jul 31 13:20	0 55 28°534'52		morning max el	4193 Jun 22 11:40	8° <b>П</b> 05'03	25°38'55
ase. Houc	4192 Jul 31 13.20 4192 Aug 01 06:19	28 €34 32 0°Ω		morning max ci	4193 Jul	0. <b>உ</b> மாமா	در در در
morning set	4192 Aug 01 00:19 4192 Aug 04 09:09	6° <b>Ω</b> 27'10		asc. node	4193 Jul 18 10:23	18° <b>5</b> 20'16	
morning set	1172 11ug 07 07.09	0 062/10		morning set	4193 Jul 19 20:40	21°9519'58	
superior conj	4192 Aug 11 08:42	21° <b>Ω</b> 31'27	1°31'58	morning set	4193 Jul 23 21:02	0°Ω	
minimum elong	4192 Aug 11 06:42 4192 Aug 11 06:42	21° <b>Ω</b> 20'36	1°31'45		20 21.02	- 00	
max. Earth dist.	4192 Aug 13 11:10	26°Ω03'08	1.33156 AU	superior conj	4193 Jul 26 19:21	6° <b>Ω</b> 26'08	1°17'47
	4192 Aug 15 07:50	0°m)		minimum elong	4193 Jul 26 17:01	6° <b>Ω</b> 13'21	
		-		5			

max. Earth dist.	4193 Jul 27 18:42		1.32386 AU		4194 Jul 15 05:35	$0^{\circ}\Omega$	
evening rise	4193 Aug 02 20:24	21° <b>Ω</b> 34'13		evening rise	4194 Jul 18 03:34	6° <b>Ω</b> 15′21	
	4193 Aug 07 00:57	0° <b>m</b>			4194 Jul 30 15:05	0° <b>™</b>	
desc. node	4193 Aug 24 08:20	28° Mp 44'17		desc. node	4194 Aug 11 05:20	16° Mp 47′23	
	4193 Aug 25 06:45	0。 <b>ত</b>		evening max el	4194 Aug 16 20:08	22° M 52'30	26°35'55
evening max el	4193 Sep 03 17:58	10° <b>≏</b> 53'19	27°17'30		4194 Aug 29 18:38	0∘ <b>⊽</b>	
retrograde	4193 Sep 17 13:50	18° <b>≏</b> 07'42		retrograde	4194 Aug 30 18:58	0° <b>ჲ</b> 02'35	
evening set	4193 Sep 24 17:41	15° <b>≏</b> 44'37			4194 Aug 31 19:10	30°R, Mp	
min. Earth dist.	4193 Sep 28 08:21	12° <b>£</b> 55'34	0.61955 AU	evening set	4194 Sep 06 13:10	28° Mp 07'23	
inferior conj	4193 Oct 01 08:26	10° <b>≏</b> 11'19	-3°54'30	min. Earth dist.	4194 Sep 10 09:54	25° mp 31'32	0.59915 AU
minimum elong	4193 Oct 01 14:25	9° <b>£</b> 57'40	3°52'50	inferior conj	4194 Sep 13 16:02	22° m 55'52	-4°42'57
morning rise	4193 Oct 08 12:56	5° <b>£</b> 10'46		minimum elong	4194 Sep 13 21:20	22° m/45'16	4°42'02
direct	4193 Oct 10 21:31	4° <b>£</b> 46'45		morning rise	4194 Sep 21 07:33	18° <b>m</b> 17'02	
asc. node	4193 Oct 14 09:35	5° <b>≏</b> 41'39		direct	4194 Sep 23 16:21	17° m 56'32	
morning max el	4193 Oct 17 19:13	8° <b>≏</b> 16'17	17°53'00	asc. node	4194 Oct 01 06:37	21° m 39'26	
	4193 Oct 31 22:40	0°M	-,	morning max el	4194 Oct 01 06:31	21° m/39'11	18°13'27
morning set	4193 Nov 02 16:09	3°M07'14		morning mun vi	4194 Oct 07 16:50	0∘ <b>ʊ</b>	10 13 27
morning sec	11/5 1101 02 10.07	3 1100711		morning set	4194 Oct 17 02:57	0 <b>—</b> 16° <b>Ω</b> 50'28	
superior conj	4193 Nov 13 11:14	22°M15'51	0°46'51	morning set	4194 Oct 24 03:06	0°M	
minimum elong	4193 Nov 13 11:14 4193 Nov 13 15:01	22°M32'04			41)4 OCI 24 03.00	O IIG	
minimum clong	4193 Nov 18 01:03	0° <b>×</b> 7	0 4019	superior conj	4194 Oct 26 13:05	4°M25'17	101551
desc. node		3° <b>∡</b> ¹45'15		minimum elong	4194 Oct 26 17:02	4°M43'09	1°15'24
	4193 Nov 20 07:36		1 4200C ATT	_			
max. Earth dist.	4193 Nov 20 18:41	4° <b>₹</b> 30'33	1.42986 AU	max. Earth dist.	4194 Nov 03 03:44	17°M46'53	1.41131 AU
evening rise	4193 Nov 27 18:59	15° <b>₹</b> 43'10		desc. node	4194 Nov 07 04:38	24°M31'06	
	4193 Dec 07 03:20	0°る	21040105	evening rise	4194 Nov 08 01:08	25°M54'53	
evening max el	4193 Dec 29 09:50	29° <b>る</b> 49'04	21°48'05		4194 Nov 10 13:57	0° <b>∡</b> 7	
	4193 Dec 29 14:10	0° <b>≈</b>			4194 Nov 30 22:11	0°る	
retrograde	4194 Jan 07 13:53	5°≈16'12		evening max el	4194 Dec 12 01:50	13° <b>⋜</b> 25'39	23°07'01
asc. node	4194 Jan 10 08:52	4° <b>≈</b> 34'15		retrograde	4194 Dec 22 08:35	19° <b>る</b> 31'10	
evening set	4194 Jan 11 22:33	3° <b>≈</b> 32'08		evening set	4194 Dec 27 05:25	17° <b>る</b> 31'05	
	4194 Jan 15 05:46	30°Rる		asc. node	4194 Dec 28 05:53	16° <b>る</b> 34'45	
inferior conj	4194 Jan 17 06:49	27° <b>る</b> 13'53	2°10'04	min. Earth dist.	4195 Jan 01 05:55	11° <b>る</b> 37'26	0.68007 AU
minimum elong	4194 Jan 17 04:26	27° <b>る</b> 22'06	2°09'18	inferior conj	4195 Jan 01 14:41	11° <b>る</b> 07'13	1°26'11
min. Earth dist.	4194 Jan 17 09:10	27° <b>る</b> 05'40	0.67951 AU	minimum elong	4195 Jan 01 12:51	11° <b>る</b> 13'31	1°25'30
morning rise	4194 Jan 22 10:09	21° <b>る</b> 02'10		morning rise	4195 Jan 06 20:11	4° <b>る</b> 59'21	
direct	4194 Jan 27 08:48	18° <b>る</b> 55'03		direct	4195 Jan 11 04:27	3°る15′05	
morning max el	4194 Feb 06 06:30	24° <b>る</b> 46'56	22°48'31	morning max el	4195 Jan 19 21:00	8° <b>る</b> 18'21	21°23'54
	4194 Feb 10 22:45	0° <b>≈</b>		desc. node	4195 Feb 03 03:51	26° <b>る</b> 33'21	
desc. node	4194 Feb 16 06:49	6° <b>≈</b> 49'28			4195 Feb 05 13:02	0° <b>≈</b>	
	4194 Mar 04 04:50	0° <b>∀</b>		morning set	4195 Feb 20 06:36	22° <b>≈</b> 24'13	
morning set	4194 Mar 12 14:01	13° <b>)</b> €25'15			4195 Feb 25 00:22	0° <b>∀</b>	
max. Earth dist.	4194 Mar 17 04:24	21° <b>)</b> 09′28	1.40042 AU	max. Earth dist.	4195 Feb 27 05:17	3° <b>¥</b> 36'19	1.42121 AU
	4194 Mar 22 05:45	$0^{\circ}\mathbf{\Upsilon}$					
				superior conj	4195 Mar 06 16:01	16° <b>₩</b> 09'36	-2°06'15
superior conj	4194 Mar 24 22:55	4° <b>Y</b> 53'56	-1°52'48	minimum elong	4195 Mar 06 18:06	16° <b>)</b> 18′38	
minimum elong	4194 Mar 25 03:29	5° <b>Ƴ</b> 14'43		Č	4195 Mar 14 11:50	$0^{\circ}\Upsilon$	
evening rise	4194 Apr 03 18:24	23° <b>Y</b> 18'31		evening rise	4195 Mar 17 20:02	6° <b>Ƴ</b> 03'37	
8 21	4194 Apr 07 07:28	0°8		asc. node	4195 Mar 26 05:13	20° <b>Y</b> 56′16	
asc. node	4194 Apr 08 08:11	1° <b>8</b> 54'20			4195 Apr 01 08:57	0°8	
evening max el	4194 Apr 19 22:21	19° <b>8</b> 15'46	18°27'21	evening max el	4195 Apr 03 08:25	2° <b>8</b> 10'33	18°08'45
retrograde	4194 Apr 27 10:50	22° <b>8</b> 58'44	10 27 21	retrograde	4195 Apr 10 02:20	5° <b>8</b> 35'54	10 00 10
evening set	4194 Apr 29 18:36	22° <b>8</b> 38'31		evening set	4195 Apr 12 16:43	5° <b>8</b> 05'52	
inferior conj	4194 May 07 05:25	18° <b>8</b> 06'37	2°09'23	inferior conj	4195 Apr 19 10:31	0° <b>8</b> 13'00	3°03'22
minimum elong	4194 May 07 09:02	17° <b>8</b> 59'19	2°08'22	minimum elong	4195 Apr 19 13:30	0° <b>8</b> 06'02	
min. Earth dist.	4194 May 10 15:50	15° <b>8</b> 22'23	0.58352 AU	minimum ciong	4195 Apr 19 16:04	0 00002 30°RΥ	3 02 48
morning rise	4194 May 14 20:21	13° <b>8</b> 39'11	0.38332 AU	min. Earth dist.	4195 Apr 22 17:21	27° <b>Υ</b> 10'23	0.60532 AU
•	•				-	$24^{\circ}\Upsilon^{22'48}$	0.00332 AU
desc. node	4194 May 15 06:02	12° <b>8</b> 27'12		morning rise	4195 Apr 26 08:06	$24^{\circ}$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
direct	4194 May 20 20:23	11° <b>8</b> 05'38	26056150	desc. node	4195 May 02 03:03		
morning max el	4194 Jun 04 05:45	18° <b>8</b> 48′03	26°56'59	direct	4195 May 02 23:22	22° <b>Y</b> 14'47	
	4194 Jun 13 16:06	0° <b>I</b> I			4195 May 17 02:30	0°8	270 /212 0
	4194 Jul 01 07:25	0°99		morning max el	4195 May 17 06:09	0° <b>8</b> 08'58	21~42'30
morning set	4194 Jul 04 06:21	6°905'04			4195 Jun 07 17:04	0°II	
asc. node	4194 Jul 05 07:26	8° <b>©</b> 17'43		morning set	4195 Jun 18 12:27	20° <b>I</b> I37'03	
				asc. node	4195 Jun 22 04:29	28° <b>Ⅱ</b> 22'31	
superior conj	4194 Jul 11 07:07	21° <b>©</b> 21'04	0°59'11		4195 Jun 22 22:31	0°€	
minimum elong	4194 Jul 11 04:57			max. Earth dist.	4195 Jun 24 16:52	3° <b>©</b> 50'55	1.32084 AU
max. Earth dist.	4194 Jul 11 05:48	21° <b>©</b> 13'48	1.32028 AU				

superior conj	4195 Jun 25 18:20	6° <b>©</b> 10'43	0°36'47	minimum elong	4196 Jun 09 02:43	20° <b>∏</b> 46′28	0°11'06
minimum elong	4195 Jun 25 16:46	6°902'07	0°36'27	behind sun begin	4196 Jun 08 22:57	20° <b>II</b> 26'03	0 11 00
evening rise	4195 Jul 02 14:03	21° <b>©</b> 03'23	0 3027	behind sun end	4196 Jun 09 06:29	20 <b>H</b> 20 03	
evening rise	4195 Jul 06 22:03	0° <b>Ω</b>		oomina san ona	4196 Jun 13 08:26	0°99	
	4195 Jul 25 18:54	0° <b>m</b> )		evening rise	4196 Jun 16 01:52	5° <b>9</b> 51'53	
desc. node	4195 Jul 29 02:20	3° m/32'48			4196 Jun 28 20:18	0°Ω	
evening max el	4195 Jul 29 14:53	4° mp 03'11	25°23'47	evening max el	4196 Jul 10 04:06	14°Ω35'56	23°51'30
retrograde	4195 Aug 12 13:57	11° <b>m</b> )08'11		desc. node	4196 Jul 14 23:21	18° <b>Ω</b> 30'37	
evening set	4195 Aug 18 09:36	9° Mp 49'51		retrograde	4196 Jul 23 21:11	21° <b>Ω</b> 29'35	
min. Earth dist.	4195 Aug 23 02:43	7° <b>m</b> 09'37	0.57879 AU	evening set	4196 Jul 28 06:35	20° <b>Ω</b> 47'05	
inferior conj	4195 Aug 26 05:05	5° <b>m</b> 01'15	-5°10'14	min. Earth dist.	4196 Aug 03 14:19	17° <b>Ω</b> 45'04	0.56144 AU
minimum elong	4195 Aug 26 06:47	4° <b>™</b> 58'17	5°10'10	inferior conj	4196 Aug 05 21:51	16° <b>Ω</b> 20'46	-5°00'57
morning rise	4195 Sep 03 06:16	0° <b>m</b> ∕45'19		minimum elong	4196 Aug 05 17:31	16° <b>Ω</b> 27'23	5°00'29
direct	4195 Sep 05 18:43	0° Mp 26′01		morning rise	4196 Aug 14 07:00	12° <b>Ω</b> 24'04	
morning max el	4195 Sep 14 10:11	4° Mp31′47	18°54'48	direct	4196 Aug 17 01:35	12° <b>Ω</b> 04'29	
asc. node	4195 Sep 18 03:41	8° Mp 46'03		morning max el	4196 Aug 27 03:21	16° <b>Ω</b> 45′18	19°58'00
	4195 Sep 30 11:10	0∘ <b>⊽</b>		asc. node	4196 Sep 04 00:44	26° <b>Ω</b> 46'52	
morning set	4195 Oct 01 00:02	1° <b>ഫ</b> 03'04			4196 Sep 05 23:33	0° <b>m</b> )	
				morning set	4196 Sep 14 04:07	15° <b>m</b> 36'00	
superior conj	4195 Oct 09 10:32	17° <b>Ω</b> 32'17	1°34'04		4196 Sep 21 05:58	0∘ <b>⊽</b>	
minimum elong	4195 Oct 09 13:11	17° <b>Ω</b> 44'54	1°33'52				
	4195 Oct 16 04:11	0°M		superior conj	4196 Sep 21 22:24	1° <b>≏</b> 22'19	1°42'49
max. Earth dist.	4195 Oct 16 09:06	0°M22'00	1.39054 AU	minimum elong	4196 Sep 21 23:23	1° <b>≏</b> 27'12	1°42'48
evening rise	4195 Oct 20 06:19	7°M09'35		max. Earth dist.	4196 Sep 27 14:32	12° <b>≏</b> 24'43	1.37005 AU
desc. node	4195 Oct 25 01:38	15°M11'42		evening rise	4196 Oct 01 09:40	19° <b>≙</b> 25'43	
	4195 Nov 03 13:50	0° x̄¹	2 402 412 4		4196 Oct 07 11:15	0°M,	
evening max el	4195 Nov 24 15:05	27° <b>₹</b> 05'46	24°26'24	desc. node	4196 Oct 10 22:40	5°M43'04	
. 1	4195 Nov 27 20:03	0°る			4196 Oct 27 16:30	0° 🗷	25020117
retrograde	4195 Dec 05 23:33	3°₹43′58		evening max el	4196 Nov 06 03:28	10° 🗷 48'28	25°39'17
evening set	4195 Dec 11 09:50	1°る28'07		retrograde	4196 Nov 18 10:03	17° 🗷 50'23	
asc. node	4195 Dec 12 22:25 4195 Dec 15 02:55	30°R. <b>✓</b> 27°. <b>✓</b> 23'33		evening set min. Earth dist.	4196 Nov 24 10:10 4196 Nov 28 18:38	15° <b>х</b> 20'45 10° <b>х</b> 35'42	0.67067 AU
min. Earth dist.	4195 Dec 16 01:50	27 <b>x</b> · 23 33 26° <b>x</b> ¹08'15	0.67711 AU	inferior conj	4196 Nov 30 01:15	8° <b>∡</b> 758'10	
inferior conj	4195 Dec 16 21:25	26 <b>★</b> 08 13 25° <b>₹</b> 02'41	0°36'00	minimum elong	4196 Nov 30 01:45	8° <b>₹</b> 56'33	0°19'13
minimum elong	4195 Dec 16 20:34	25° × 0241 25° × 05'34	0°35'38	asc. node	4196 Nov 30 23:56	7° <b>∡</b> 746'30	0 1913
morning rise	4195 Dec 22 07:22	19°×700'42	0 33 38	morning rise	4196 Dec 05 17:43	3° <b>∡</b> 04′20	
direct	4195 Dec 26 02:19	17° <b>∡</b> 38'31		direct	4196 Dec 09 01:02	2° <b>×</b> <sup>0</sup> 1'32	
morning max el	4196 Jan 02 19:01	22° <b>₹</b> 01'15	20°09'57	morning max el	4196 Dec 16 00:58	5° <b>×</b> 7'55'12	19°10'12
morning max cr	4196 Jan 09 11:09	0°る	20 0) 37	greatest brilliancy	4196 Dec 30 12:57	25° <b>×</b> <sup>7</sup> 40'47	-0.8m
desc. node	4196 Jan 21 00:51	16° <b>පි</b> 40'01		8	4197 Jan 02 08:29	0°ප	******
	4196 Jan 29 18:57	0° <b>≈</b>		desc. node	4197 Jan 06 21:54	7° <b>る</b> 03'32	
morning set	4196 Jan 30 03:59	0° <b>≈</b> 34'52		morning set	4197 Jan 08 06:12	9° <b>ට</b> 08'57	
max. Earth dist.	4196 Feb 09 14:12	16° <b>≈</b> 57'41	1.43808 AU	Č	4197 Jan 21 14:36	0° <b>≈</b>	
				max. Earth dist.	4197 Jan 22 05:20	0° <b>≈</b> 58'01	1.44899 AU
superior conj	4196 Feb 15 07:55	26° <b>≈</b> 15'54	-2°05'08				
minimum elong	4196 Feb 15 04:35	26° <b>≈</b> 02'12	2°05'01	superior conj	4197 Jan 24 23:18	5° <b>≈</b> 18'35	-1°44'56
	4196 Feb 17 14:12	0° <b>)</b> €		minimum elong	4197 Jan 24 14:40	4° <b>≈</b> 44'24	1°44'14
evening rise	4196 Feb 28 04:13	17° <b>)</b> 59'14		evening rise	4197 Feb 08 14:53	28° <b>≈</b> 58'51	
	4196 Mar 06 03:47	$0$ ° $\Upsilon$			4197 Feb 09 05:44	0° <b>)</b> €	
asc. node	4196 Mar 12 02:14	9° <b>Ƴ</b> 26'15		asc. node	4197 Feb 26 23:16	27° <b>)</b> 14'32	
evening max el	4196 Mar 16 20:59	15° <b>Y</b> 23'16	18°09'32	evening max el	4197 Feb 28 09:15	28° <b>)</b> 46′54	18°29'00
retrograde	4196 Mar 23 07:29	18° <b>Ƴ</b> 46'22			4197 Mar 01 16:35	$0^{\circ}$ Y	
evening set	4196 Mar 26 03:47	18° <b>Ƴ</b> 05'10		retrograde	4197 Mar 06 21:40	2° <b>Y</b> 20'44	
inferior conj	4196 Apr 01 08:34	12° <b>Y</b> 52′13	3°30'05	evening set	4197 Mar 09 23:54	1° <b>Y</b> 27'31	
minimum elong	4196 Apr 01 09:53	12° <b>Y</b> 48'43	3°29'58		4197 Mar 11 23:59	30° <b>₹</b>	
min. Earth dist.	4196 Apr 04 03:26	9° <b>Y</b> 55'33	0.62665 AU	inferior conj	4197 Mar 15 19:27	25° <b>¥</b> 56′17	3°35'53
morning rise	4196 Apr 07 14:43	6° <b>Y</b> 48′27		minimum elong	4197 Mar 15 19:07	25° <b>¥</b> 57'17	3°35'52
direct	4196 Apr 14 11:47	4° <b>Υ</b> 13'39		min. Earth dist.	4197 Mar 17 23:08	23° <b>¥</b> 24′26	0.64531 AU
desc. node	4196 Apr 18 00:04	4° <b>Υ</b> 49'49	05050:21	morning rise	4197 Mar 21 13:39	19° <b>)</b> 45'31	
morning max el	4196 Apr 28 12:20	12° <b>Υ</b> 12'21	27°50'31	direct	4197 Mar 28 08:17	16° <b>¥</b> 56'39	
	4196 May 12 15:13	0° <b>B</b>		desc. node	4197 Apr 04 21:06	19° <b>)</b> 42'38	25022125
•	4196 May 30 02:40	0°II		morning max el	4197 Apr 10 21:52	24° <b>)</b> ₹51'11	27°22'37
morning set	4196 Jun 01 12:54	4° <b>Ⅱ</b> 49'30	1.22556 433		4197 Apr 15 14:08	0°Υ •••	
max. Earth dist.	4196 Jun 07 00:02	16° <b>Ⅱ</b> 13'10	1.32556 AU	mamirt	4197 May 06 01:48	0° <b>8</b>	
asc. node	4196 Jun 08 01:32	18° <b>Ⅱ</b> 30'16		morning set	4197 May 16 05:01	18° <b>8</b> 34'11	1 22 471 477
superior con-	4106 Jun 00 02:15	20° <b>∏</b> 49'22	0011112	max. Earth dist.	4197 May 20 23:12	28° <b>႘</b> 08'26 0°Ⅱ	1.33471 AU
superior conj	4196 Jun 09 03:15	zu <b>щ49</b> °22	0 11 15		4197 May 21 20:44	υц	

superior conj	4197 May 24 07:55	5° <b>Ⅱ</b> 11'01		max. Earth dist.	4198 May 03 11:13	9° <b>8</b> 31'36	1.34849 AU
minimum elong	4197 May 24 08:46	5° <b>Ⅱ</b> 15'34	0°16'33				
asc. node	4197 May 25 22:35	8° <b>Ⅱ</b> 36'50		superior conj	4198 May 08 06:02	19° <b>8</b> 09'13	
evening rise	4197 May 31 13:08	20° <b>Ⅱ</b> 34′26		minimum elong	4198 May 08 08:30	19° <b>8</b> 21'51	0°45'26
	4197 Jun 05 03:51	0ංම		asc. node	4198 May 12 19:38	28° <b>8</b> 38'21	
evening max el	4197 Jun 21 18:48	24°959'54	22°14'39		4198 May 13 11:15	$\Pi^{\circ}0$	
	4197 Jun 28 16:12	$0 ^{\circ} \Omega$		evening rise	4198 May 15 21:53	5° <b>Ⅱ</b> 05'03	
desc. node	4197 Jul 01 20:22	1° <b>Ω</b> 05'39			4198 May 29 20:14	0	
retrograde	4197 Jul 04 16:39	1° <b>Ω</b> 24'24		evening max el	4198 Jun 03 18:46	5°548'07	20°47'15
evening set	4197 Jul 07 15:05	1° <b>Ω</b> 05'17		retrograde	4198 Jun 15 05:24	11° <b>©</b> 24'04	
	4197 Jul 11 00:45	30° <b>₹</b> 5		evening set	4198 Jun 17 07:38	11° <b>©</b> 13'35	
min. Earth dist.	4197 Jul 16 00:50	27° <b>©</b> 27'43	0.55051 AU	desc. node	4198 Jun 18 17:23	10° <b>©</b> 55'21	
inferior conj	4197 Jul 16 21:34	26° <b>©</b> 58'29	-4°02'03	inferior conj	4198 Jun 26 14:56	7° <b>©</b> 16'23	-2°18'30
minimum elong	4197 Jul 16 13:06	27° <b>©</b> 10'26	3°59'56	minimum elong	4198 Jun 26 08:32	7° <b>5</b> 25'31	2°16'16
morning rise	4197 Jul 25 12:58	23° <b>©</b> 08'03		min. Earth dist.	4198 Jun 27 12:35	6° <b>©</b> 45'31	0.54867 AU
direct	4197 Jul 28 15:45	22° <b>5</b> 46'17		morning rise	4198 Jul 05 09:02	3° <b>©</b> 12'33	
morning max el	4197 Aug 09 08:40	28° <b>©</b> 13'46	21°21'47	direct	4198 Jul 09 01:09	2° <b>5</b> 43'31	
	4197 Aug 11 03:24	$0^{\circ}\Omega$		morning max el	4198 Jul 22 03:49	9° <b>©</b> 01'26	23°00'40
asc. node	4197 Aug 21 21:48	15° <b>Ω</b> 28'38			4198 Aug 06 06:41	$0^{\circ}\Omega$	
	4197 Aug 29 08:32	0° <b>m</b>		asc. node	4198 Aug 08 18:52	4° <b>Ω</b> 41'29	
morning set	4197 Aug 29 12:38	0° Mp 21'14		morning set	4198 Aug 13 23:38	15° <b>Ω</b> 13'24	
					4198 Aug 20 21:14	0° <b>m</b> )	
superior conj	4197 Sep 05 20:22	15° <b>m</b> 41'48	1°43'39				
minimum elong	4197 Sep 05 19:51	15° <b>m</b> 39'08	1°43'39	superior conj	4198 Aug 21 01:09	0° m/20'55	1°37'53
max. Earth dist.	4197 Sep 10 01:11	24° m 15'54	1.35204 AU	minimum elong	4198 Aug 20 23:33	0° m/ 12′24	1°37'45
	4197 Sep 12 23:15	0∘ <b>⊽</b>		max. Earth dist.	4198 Aug 23 20:37	6° Mp 18'14	1.33786 AU
evening rise	4197 Sep 14 07:09	2° <b>₽</b> 32'35		evening rise	4198 Aug 28 18:28	16° m 18'56	
desc. node	4197 Sep 27 19:42	25° <b>≏</b> 59'06		C	4198 Sep 05 01:22	$0$ $\circ$ $\overline{f v}$	
	4197 Sep 30 10:02	0°M₊		desc. node	4198 Sep 14 16:43	15° <b>≙</b> 52'48	
evening max el	4197 Oct 19 15:56	24°ML28'09	26°38'26		4198 Sep 24 22:44	0° <b>M</b>	
e venning man er	4197 Oct 26 19:11	0°×7	20 30 20	evening max el	4198 Oct 02 04:20	7°M56'12	27°16'21
retrograde	4197 Nov 01 15:27	1° <b>×</b> <sup>7</sup> 43'12		retrograde	4198 Oct 15 15:03	15°ML14'27	2, 1021
retrograde	4197 Nov 06 22:25	30°RML		evening set	4198 Oct 22 14:14	12°MJ33'37	
evening set	4197 Nov 08 04:26	29°ML04'16		min. Earth dist.	4198 Oct 26 09:48	8°M59'02	0.64720 AU
min. Earth dist.	4197 Nov 12 06:04	24°M54'45	0.66067 AU	inferior conj	4198 Oct 28 15:57	6°M31'32	
inferior conj	4197 Nov 12 00:04 4197 Nov 14 00:11	22°M49'25		minimum elong	4198 Oct 28 19:56	6°M20'39	
minimum elong	4197 Nov 14 00:11 4197 Nov 14 02:22	22°M42'55	1°17'58	morning rise	4198 Nov 04 02:46	1°ML02'05	2 1703
asc. node	4197 Nov 17 02:22 4197 Nov 17 20:59	18°MJ39'32	1 17 30	asc. node	4198 Nov 04 02:40 4198 Nov 04 18:03	0°M46'59	
morning rise	4197 Nov 17 20:39 4197 Nov 20 01:03	17°ML06'16		direct	4198 Nov 04 18:03 4198 Nov 06 17:17	0°M26'39	
direct	4197 Nov 22 01:03 4197 Nov 22 22:45	16°ML19'09		morning max el	4198 Nov 13 04:57	3°M53'20	17°59'26
morning max el	4197 Nov 22 22:43 4197 Nov 29 13:09	19°M.54'42	18°26'25	morning set	4198 Nov 30 18:12	0° <b>₹</b> 21'40	17 39 20
morning max er	4197 Nov 29 13:09 4197 Dec 07 07:55	19 IIG34 42 0° <b>₹</b>	18 20 23	morning set	4198 Nov 30 18:12 4198 Nov 30 13:02	0° <b>⊼</b> ¹	
mamina aat	4197 Dec 07 07:33 4197 Dec 19 09:30	0 <b>x</b> . 19° <b>x</b> 701'42		daga mada		0 <b>x</b> . 18° <b>∡</b> 21'13	
morning set				desc. node	4198 Dec 11 15:59	18-×-21-13	
desc. node	4197 Dec 24 18:57	27° <b>₹</b> 38'39			4100 D 14 12-10	220.75(107	0910122
	4197 Dec 26 06:32	0°₹		superior conj	4198 Dec 14 12:19	22° 🖈 56'07	
:	4198 Jan 04 01:59	13° <b>る</b> 53'27	1907/42	minimum elong	4198 Dec 14 09:57	22° <b>メ</b> 46'35 0°る	0-19-12
superior conj				Earth diet	4198 Dec 18 23:02		1 44015 ATT
minimum elong	4198 Jan 03 17:57	13° <b>る</b> 21'54	1.45277 AU	max. Earth dist.	4198 Dec 18 18:47	29° <b>₹</b> 43'14	1.44915 AU
max. Earth dist.	4198 Jan 04 23:42		1.432// AU	evening rise	4198 Dec 30 18:35	18° <b>る</b> 23'45	
	4198 Jan 14 08:31	0°≈ 0°02/22		4 41 111	4199 Jan 07 08:22	0°≈	0.6
evening rise	4198 Jan 20 02:17	9°≈02'23	0.0	greatest brilliancy	4199 Jan 14 01:17	10°≈04'20	-0.6m
greatest brilliancy	4198 Jan 30 00:58	24°≈41'34	-0.8m	evening max el	4199 Jan 25 23:58	25°≈48'45	19°59'10
	4198 Feb 02 12:08	0° <b>∀</b>	1000 (107	asc. node	4199 Jan 31 17:19	29°≈55'41	
evening max el	4198 Feb 11 18:50	12° <b>¥</b> 16'35	19°06'07		4199 Jan 31 22:48	0° <b>)</b> (	
asc. node	4198 Feb 13 20:17	14° <b>₩</b> 09'14		retrograde	4199 Feb 02 14:53	0° <b>)</b> 15′08	
retrograde	4198 Feb 18 17:07	16° <b>¥</b> 12'15			4199 Feb 04 05:48	30°R≈	
evening set	4198 Feb 22 02:04	15° <b>¥</b> 06′06		evening set	4199 Feb 06 07:51	28°≈55'00	
inferior conj	4198 Feb 27 15:30	9° <b>¥</b> 18'33		inferior conj	4199 Feb 11 17:43	22°≈53'21	3°03'51
minimum elong	4198 Feb 27 13:56	9° <b>∺</b> 23'33	3°25'44	minimum elong	4199 Feb 11 15:27	23°≈00'59	3°03'22
min. Earth dist.	4198 Mar 01 03:48	7° <b>∺</b> 23'09	0.66020 AU	min. Earth dist.	4199 Feb 12 15:43	21°≈39'36	0.67095 AU
morning rise	4198 Mar 05 01:27	3° <b>₩</b> 04'57		morning rise	4199 Feb 16 22:49	16° <b>≈</b> 39'19	
direct	4198 Mar 11 11:34	0° <b> ★</b> 15'35		direct	4199 Feb 22 20:30	14° <b>≈</b> 00'59	
desc. node	4198 Mar 22 18:09	6° <b>∺</b> 21'02		morning max el	4199 Mar 06 16:38	21° <b>≈</b> 05′27	25°07'33
morning max el	4198 Mar 24 07:50	7° <b>¥</b> 52'49	26°25'17	desc. node	4199 Mar 09 15:11	24°≈14'52	
	4198 Apr 10 13:22	$0^{\circ}\Upsilon$			4199 Mar 14 09:37	0° <b>∀</b>	
	4198 Apr 28 11:42	0°B			4199 Apr 03 18:36	$0^{\circ}\mathbf{\Upsilon}$	
morning set	4198 Apr 29 09:16	1° <b>8</b> 40'45		morning set	4199 Apr 11 20:45	13° <b>Y</b> 54'11	

max. Earth dist.	4199 Apr 15 12:12 4199 Apr 20 11:04	20° <b>Y</b> 33'25 0° <b>ප</b>	1.36669 AU	max. Earth dist.	4200 Mar 28 07:44	1° <b>Ƴ</b> 46'47	1.38791 AU
				superior conj	4200 Apr 04 18:04	15° <b>Y</b> 18′52	
superior conj	4199 Apr 21 18:38	2° <b>8</b> 34'48		minimum elong	4200 Apr 04 22:51	15° <b>Ƴ</b> 41'24	1°40'01
minimum elong	4199 Apr 21 22:37	2° <b>8</b> 54'24	1°14'03		4200 Apr 12 09:16	$0^{\circ}$ 8	
asc. node	4199 Apr 29 16:39	18° <b>8</b> 29'41		evening rise	4200 Apr 13 22:19	3° <b>8</b> 00'29	
evening rise	4199 Apr 30 01:49	19° <b>8</b> 15'56		asc. node	4200 Apr 16 13:39	8° <b>8</b> 06'31	
	4199 May 05 13:35	$\Pi$ °0		evening max el	4200 Apr 30 06:06	29° <b>8</b> 22'40	18°46'52
evening max el	4199 May 17 06:58	17° <b>Ⅱ</b> 15′28	19°37'05		4200 Apr 30 22:02	$\Pi$ °0	
retrograde	4199 May 26 23:36	21° <b>Ⅱ</b> 58'34		retrograde	4200 May 08 10:29	3° <b>Ⅱ</b> 23'18	
evening set	4199 May 28 22:38	21° <b>Ⅱ</b> 47'52		evening set	4200 May 10 14:25	3° <b>Ⅱ</b> 07'32	
desc. node	4199 Jun 05 14:25	18° <b>Ⅲ</b> 24'42			4200 May 16 19:36	30° <b>₹</b> 8	
inferior conj	4199 Jun 06 16:19	17° <b>∐</b> 44'13		inferior conj	4200 May 18 12:24	28° <b>8</b> 46'44	1°23'54
minimum elong	4199 Jun 06 15:28		0°18'51	minimum elong	4200 May 18 15:20	28° <b>8</b> 41'21	1°22'56
min. Earth dist.	4199 Jun 09 02:01	16° <b>Ⅱ</b> 13'37	0.55644 AU	min. Earth dist.	4200 May 21 18:29	26° <b>8</b> 24'33	0.57214 AU
morning rise	4199 Jun 15 05:48	13° <b>Ⅱ</b> 10′24		desc. node	4200 May 23 11:25	25° <b>8</b> 16'21	
direct	4199 Jun 19 18:15	12° <b>Ⅲ</b> 24'48		morning rise	4200 May 26 13:01	23° <b>8</b> 37'18	
morning max el	4199 Jul 03 17:47	19° <b>Ⅲ</b> 25′09	24°43'46	direct	4200 Jun 01 00:43	22° <b>8</b> 23'56	
_	4199 Jul 12 15:52	0° <b>©</b>			4200 Jun 15 11:35	0°II	
asc. node	4199 Jul 26 15:55	24°9516'41		morning max el	4200 Jun 15 09:05	29° <b>8</b> 53'55	26°15'31
morning set	4199 Jul 29 11:24	0° <b>Ω</b> 07'02			4200 Jul 06 10:02	0ං <b>ව</b>	
	4199 Jul 29 10:04	$0^{\circ}\Omega$		morning set	4200 Jul 13 22:19	14° <b>©</b> 57'11	
		0		asc. node	4200 Jul 13 12:56	14° <b>©</b> 07'48	
superior conj	4199 Aug 05 10:13		1°26'31				
minimum elong	4199 Aug 05 08:01	14° <b>Ω</b> 59'24	1°26'15	superior conj	4200 Jul 20 21:31	0° <b>Ω</b> 06'36	1°10'23
max. Earth dist.	4199 Aug 07 00:37		1.32781 AU	minimum elong	4200 Jul 20 19:12	29°553'49	1°10'00
	4199 Aug 12 09:15	0° <b>m</b>			4200 Jul 20 20:19	$0$ ° $\Omega$	
evening rise	4199 Aug 12 15:49	0° m 33'39		max. Earth dist.	4200 Jul 21 10:16	1° <b>Ω</b> 16'51	1.32188 AU
	4199 Aug 29 01:12	0∘ <b>⊽</b>		evening rise	4200 Jul 27 20:09	15° <b>Ω</b> 07'35	
desc. node	4199 Sep 01 13:44	5° <b>2</b> 14'50			4200 Aug 04 08:52	0° <b>m</b> )	
evening max el	4199 Sep 14 14:53	21° <b>Ω</b> 00'02	27°26'24	desc. node	4200 Aug 19 10:45	23° m 51'57	
retrograde	4199 Sep 28 08:02	28° <b>△</b> 15'40			4200 Aug 24 12:36	0° <b>⊽</b>	25002152
evening set	4199 Oct 05 12:28	25° <b>Ω</b> 42'50	0.62045.433	evening max el	4200 Aug 27 20:43	3° <b>£</b> 25′26	27°03'53
min. Earth dist.	4199 Oct 09 03:51		0.63045 AU	retrograde	4200 Sep 10 17:38	10° <b>£</b> 37'23	
inferior conj	4199 Oct 11 21:50	19° <b>2</b> 58'16		evening set	4200 Sep 17 19:04	8° <b>£</b> 24'39	0 (1100 177
minimum elong	4199 Oct 12 03:21	19° <b>£</b> 44'46	3°19'46	min. Earth dist.	4200 Sep 21 11:01	5° <b>£</b> 43'24	0.61102 AU
morning rise	4199 Oct 18 19:43	14° <b>Ω</b> 45'58		inferior conj	4200 Sep 24 14:33	3° <b>♀</b> 00'47	
direct	4199 Oct 21 05:42	14° <b>£</b> 18'36		minimum elong	4200 Sep 24 20:32		4°15'26
asc. node	4199 Oct 22 15:06	14° <b>£</b> 27'54	17050105		4200 Sep 28 09:17	30°RM)	
morning max el	4199 Oct 27 21:31	17° <b>≏</b> 44'38	1/3003	morning rise	4200 Oct 01 23:50	28° Mp 09'15	
. ,	4199 Nov 05 16:47	0°M 120 <b>m</b> 52120		direct	4200 Oct 04 08:15	27° Mp 46'55	
morning set	4199 Nov 13 03:18	12°M52'20		asc. node	4200 Oct 09 12:09	29° m/39'23	
	4199 Nov 23 01:00	0° <b>∡</b> ¹			4200 Oct 09 23:07	ე∘ <b>დ</b>	17950110
aumorior aoni	4100 Nov. 24, 21,54	3° <b>₹</b> '08'21	0925100	morning max el	4200 Oct 11 11:42	1° <b>2</b> 20'32 26° <b>2</b> 13'32	17°59'19
superior conj	4199 Nov 24 21:54 4199 Nov 25 00:22		0°24'48	morning set	4200 Oct 27 06:16	20 <b>=</b> 13 32 0° <b>M</b>	
minimum elong desc. node		3° <b>х</b> 18'38 9° <b>х</b> 07'58	0-2448		4200 Oct 29 07:25	UTIIL	
max. Earth dist.	4199 Nov 28 13:01 4199 Dec 01 11:57	9 <b>x</b> ·0/38 13° <b>x</b> <sup>7</sup> 55′24	1.43860 AU	superior conj	4200 Nov 06 10:04	14° <b>M</b> L38'11	1°00'31
evening rise	4199 Dec 10 04:19	27° × 35'48	1.43800 AU	minimum elong	4200 Nov 06 14:11	14°M56'16	0°59'59
evening rise	4199 Dec 10 04:19 4199 Dec 11 17:46	2/メ3346 0°る		max. Earth dist.	4200 Nov 14 00:24	27°M36'23	1.42237 AU
	4200 Jan 01 05:53	0°≈		desc. node	4200 Nov 14 00:24 4200 Nov 15 10:02	29°M55'05	1.42237 AU
evening max el	4200 Jan 08 23:41	0 ∞ 9°≈22'21	21°05'26	desc. Hode	4200 Nov 15 10:02 4200 Nov 15 11:14	29 II <b>c</b> 33 03	
retrograde	4200 Jan 17 12:49	9 ≈22 21 14°≈26'02	21 03 20	evening rise	4200 Nov 19 23:23	0 <b>x</b> ⁴ 7° <b>x</b> ⁴16′28	
asc. node	4200 Jan 17 12:49 4200 Jan 18 14:20	14 ≈20 02 14°≈19'53		evening rise	4200 Nov 19 23:23 4200 Dec 04 23:13	7 <b>メ</b> 10 28	
	4200 Jan 18 14.20 4200 Jan 21 15:22	14 ≈1933 12°≈50'47		evening max el	4200 Dec 04 23.13 4200 Dec 22 18:00	0 3 22° <b>る</b> 56'45	22°21'08
evening set inferior conj	4200 Jan 26 23:43	6° <b>≈</b> 37'41	2°32'06	retrograde	4200 Dec 22 18:00 4201 Jan 01 09:10	22 <b>3</b> 3043 28° <b>る</b> 40'32	22 21 08
minimum elong	4200 Jan 26 21:14	6°≈46'13	2°31'23	asc. node	4201 Jan 05 11:22	28 84032 27° <b>る</b> 11'57	
min. Earth dist.	4200 Jan 27 08:49	6°≈06'16	0.67755 AU		4201 Jan 05 22:56	26°る49'26	
morning rise	4200 Jan 27 08:49 4200 Feb 01 02:57	0°≈24'54	0.07733 AU	evening set inferior conj	4201 Jan 03 22:36 4201 Jan 11 07:25	20°る49'20 20°る28'12	1°52'18
morning 1150	4200 Feb 01 02.37 4200 Feb 01 14:38	0 ≈2434 30°Rる		minimum elong	4201 Jan 11 07.23 4201 Jan 11 05:14	20 828 12 20°る35'48	1°51'32
direct	4200 Feb 01 14:38 4200 Feb 06 10:11	30°なる 28° <b>る</b> 05'17		min. Earth dist.	4201 Jan 11 03:14 4201 Jan 11 04:53	20°る3348 20°る37'01	0.68020 AU
uncet	4200 Feb 06 10:11 4200 Feb 11 20:07	28 <b>3</b> 03 17 0° <b>≈</b>		morning rise	4201 Jan 11 04.33 4201 Jan 16 11:24	20 83701 14° <b>る</b> 18'05	0.00020 AU
morning max el	4200 Feb 17 20:07 4200 Feb 17 01:16	0°≈ 4°≈24'55	23°30'47	direct	4201 Jan 16 11:24 4201 Jan 21 03:48	14°る1803 12°る20'54	
desc. node	4200 Feb 17 01:16 4200 Feb 24 12:13	4°≈24°55 13°≈02'57	43 3941	morning max el	4201 Jan 21 03:48 4201 Jan 30 12:43	12° <b>る</b> 20°34 17° <b>る</b> 51'21	22°11'38
uese. Hout	4200 Feb 24 12:13 4200 Mar 08 16:40	13°≈02'37 0° <b>∺</b>		morning max er	4201 Jan 30 12:43 4201 Feb 09 13:30	0°≈	22 11 30
morning set	4200 Mar 24 09:40	0 <del>X</del> 24° <b>¥</b> 59'32		desc. node	4201 Feb	0 ≈ 2°≈29'30	
morning set	4200 Mar 24 09:40 4200 Mar 27 07:23	24 <b>χ</b> 3932 0° <b>Υ</b>		acse. Hude	4201 Feb 11 09:13 4201 Mar 01 19:42	2 <b>≈</b> 2930	
	1200 11101 21 01.23	V I			1201 IVIGI 01 17.42	υ <b>Λ</b>	

morning set max. Earth dist.	4201 Mar 04 18:38 4201 Mar 10 05:09	4° <b>)</b> 44′09 13° <b>)</b> 42′22	1.40958 AU	max. Earth dist.	4202 Feb 20 09:00 4202 Feb 22 11:59	26° <b>≈</b> 31'49 0° <b>米</b>	1.42893 AU
superior conj	4201 Mar 17 23:39	27° <b>)</b> €09'50	-1°59'56	superior conj	4202 Feb 27 06:22	7° <b>¥</b> 56'18	-2°07'54
minimum elong	4201 Mar 18 03:32	27° <b>)</b> 27'09		minimum elong	4202 Feb 27 06:28	7° <b>)</b> € 56'42	
8	4201 Mar 19 13:38	$0^{\circ}\mathbf{Y}$		evening rise	4202 Mar 11 02:46	28° <b>)</b> 35′14	
evening rise	4201 Mar 28 08:00	16° <b>Ƴ</b> 10′07		C	4202 Mar 11 21:47	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	4201 Apr 03 10:41	27° <b>Y</b> 23'21		asc. node	4202 Mar 21 07:43	16° <b>Ƴ</b> 13′01	
	4201 Apr 04 22:39	$9^{\circ}$ 8		evening max el	4202 Mar 28 00:37	25° <b>Ƴ</b> 06'17	18°06'48
evening max el	4201 Apr 13 13:06	12° <b>8</b> 02'42	18°16'58	retrograde	4202 Apr 03 14:17	28° <b>Y</b> 29'06	
retrograde	4201 Apr 20 16:27	15° <b>8</b> 36'38		evening set	4202 Apr 06 07:08	27° <b>Y</b> 54'37	
evening set	4201 Apr 23 02:58	15° <b>8</b> 12'35		inferior conj	4202 Apr 12 18:56		3°17'38
inferior conj	4201 Apr 30 06:05	10° <b>8</b> 31'32		minimum elong	4202 Apr 12 21:15	22° <b>Y</b> 47'35	3°17'17
minimum elong	4201 Apr 30 09:39	10° <b>8</b> 23'51	2°35'08	min. Earth dist.	4202 Apr 15 21:29	19° <b>Y</b> 50'07 16° <b>Y</b> 56'07	0.61454 AU
min. Earth dist. morning rise	4201 May 03 16:16 4201 May 07 13:32	7° <b>8</b> 36'22 4° <b>8</b> 52'49	0.59262 AU	morning rise direct	4202 Apr 19 09:33 4202 Apr 26 04:23	$16^{\circ}$ <b>Y</b> 36'07 $14^{\circ}$ <b>Y</b> 35'05	
desc. node	4201 May 07 13:32 4201 May 10 08:25	3° <b>8</b> 38'17		desc. node	4202 Apr 27 05:28	14 <b>γ</b> 33 03 14° <b>γ</b> 38'15	
direct	4201 May 10 08:23	3° <b>8</b> 04'26		morning max el	4202 May 10 09:14	22° <b>Υ</b> 33'10	27°50'32
morning max el	4201 May 28 06:03	10° <b>8</b> 53'10	27°20'52	morning max cr	4202 May 16 03:14 4202 May 16 23:06	0°8	27 30 32
morning man er	4201 Jun 12 02:06	0° <b>I</b>	2, 2002		4202 Jun 05 05:32	0°II	
morning set	4201 Jun 28 06:46	29° <b>Ⅱ</b> 38′28		morning set	4202 Jun 12 10:46	14° <b>Ⅱ</b> 03'35	
-	4201 Jun 28 10:53	0ಂತಾ		asc. node	4202 Jun 17 07:00	24° <b>Ⅱ</b> 16′20	
asc. node	4201 Jun 30 09:58	4° <b>5</b> 09'30		max. Earth dist.	4202 Jun 18 07:43	26° <b>Ⅲ</b> 30′11	1.32227 AU
superior conj	4201 Jul 05 09:18	15° <b>©</b> 00'44	0°50'06	superior conj	4202 Jun 19 19:47	29° <b>∏</b> 46′56	0°26'18
minimum elong	4201 Jul 05 07:20	14°549'51	0°49'43	minimum elong	4202 Jun 19 18:36	29° <b>I</b> I40'30	0°26'02
max. Earth dist.	4201 Jul 04 21:57	13°958'09	1.32000 AU		4202 Jun 19 22:10	0 - -	
evening rise	4201 Jul 12 05:01	29° <b>©</b> 53'05		evening rise	4202 Jun 26 16:17	14°9542'17	
	4201 Jul 12 06:19	$0^{\circ}\Omega$			4202 Jul 04 07:16	$0^{\circ}\Omega$	
	4201 Jul 28 15:55	0° <b>m</b>		evening max el	4202 Jul 22 11:21	25° <b>Ω</b> 55'56	24°46'09
desc. node	4201 Aug 06 07:45	11° <b>m</b> 25'50		desc. node	4202 Jul 24 04:46	27° <b>Ω</b> 30′03	
evening max el	4201 Aug 09 19:35	15° Mp 03'42	26°08'27		4202 Jul 27 12:10	0° <b>™</b>	
retrograde	4201 Aug 23 18:55	22° Mp 12'33		retrograde	4202 Aug 05 09:31	2°m/58'10	
evening set	4201 Aug 30 05:19	20° m/31'58		evening set	4202 Aug 10 15:21	1° m 56'03	
min. Earth dist.	4201 Sep 03 08:20	17° Mp 56'50	0.59032 AU	t material	4202 Aug 14 12:55	30°RΩ	0.55000 444
inferior conj	4201 Sep 06 14:38	15° m 30'08		min. Earth dist.	4202 Aug 15 22:44		0.57082 AU
minimum elong	4201 Sep 06 18:49 4201 Sep 14 10:32	15° Tp 22'16 11° Tp 01'32	4-37-27	inferior conj minimum elong	4202 Aug 18 19:05 4202 Aug 18 18:22	27° <b>Ω</b> 16'40 27° <b>Ω</b> 17'50	
morning rise direct	4201 Sep 14 10.32 4201 Sep 16 20:28	11 my 01 32 10° mp 41'49		morning rise	4202 Aug 16 18.22 4202 Aug 26 23:52	27° <b>€</b> 17′30 23° <b>€</b> 09′45	3 1143
morning max el	4201 Sep 10 20:28 4201 Sep 24 20:17	14° Mp 32'43	18°28'29	direct	4202 Aug 29 14:25	22°Ω50'40	
asc. node	4201 Sep 26 09:12	16° Mp 08'55	10 202)	morning max el	4202 Sep 07 19:51	27°Ω10'14	19°18'59
	4201 Oct 05 12:06	0∘ <b>⊽</b>			4202 Sep 10 11:24	0° m/y	
morning set	4201 Oct 10 21:56	10° <b>Ω</b> 10'47		asc. node	4202 Sep 13 06:15	3° m/40'25	
-				morning set	4202 Sep 24 22:20	24° m/32'50	
superior conj	4201 Oct 19 21:01	27° <b>≙</b> 14'46	1°24'48		4202 Sep 27 15:42	0∘ <b>⊽</b>	
minimum elong	4201 Oct 20 00:30	27° <b>ჲ</b> 30'57	1°24'28				
	4201 Oct 21 08:53	$0^{\circ}$ M		superior conj	4202 Oct 03 01:11	10° <b>≏</b> 41'44	1°38'49
max. Earth dist.	4201 Oct 27 07:21	10°M34'19	1.40256 AU	minimum elong	4202 Oct 03 03:07	10° <b>£</b> 51'12	
evening rise	4201 Oct 31 15:04	17° <b>M</b> 54'20		max. Earth dist.	4202 Oct 09 11:36		1.38165 AU
desc. node	4201 Nov 02 07:04	20°M39'22		evening rise	4202 Oct 13 06:05	29° <b>£</b> 36'21	
	4201 Nov 08 03:31	0° <b>∡</b> 7		JJ.	4202 Oct 13 11:29	0°M	
avanina may al	4201 Nov 29 11:18 4201 Dec 05 08:24	0°궁 6°궁34'03	23°41'03	desc. node	4202 Oct 20 04:06	11° <b>M</b> .16'42 0° <b>⊀</b>	
evening max el retrograde	4201 Dec 03 08:24 4201 Dec 16 02:33	12°る55'07	23 41 03	evening max el	4202 Nov 01 11:38 4202 Nov 17 21:05	0 <b>x</b> ⁴ 20° <b>x</b> ⁴15'42	24058142
evening set	4201 Dec 10 02:33 4201 Dec 21 04:58	12 <b>3</b> 3307 10° <b>る</b> 48'06		retrograde	4202 Nov 17 21:03 4202 Nov 29 15:50	27°×705'45	24 36 42
asc. node	4201 Dec 23 08:25	8° <b>ප</b> 38'05		evening set	4202 Nov 25 13:50 4202 Dec 05 07:52	24° <b>×</b> <sup>7</sup> 43'54	
min. Earth dist.	4201 Dec 26 01:36		0.67921 AU	min. Earth dist.	4202 Dec 09 20:38	19° <b>х</b> 38′24	0.67474 AU
inferior conj	4201 Dec 26 15:02	4° <b>る</b> 22'44	1°05'37	asc. node	4202 Dec 10 05:28	19° <b>∡</b> *09'25	
minimum elong	4201 Dec 26 13:34	4° <b>පි</b> 27'45	1°05'02	inferior conj	4202 Dec 10 20:48	18° <b>∡</b> 18'56	0°13'05
3	4201 Dec 30 02:06	30°R. <b>✓</b>		minimum elong	4202 Dec 10 20:28	18° <b>≯</b> 20′00	0°12'56
morning rise	4201 Dec 31 22:09	28° <b>҂</b> 17′03		transit middle	4202 Dec 10 20:28	18° <b>≯</b> 20′00	0°12'56
direct	4202 Jan 05 00:28	26° <b>⊀</b> ¹42'36		transit begin	4202 Dec 10 18:48	18° <b>∡</b> ¹25'29	
	4202 Jan 11 17:02	0°₹		transit end	4202 Dec 10 22:08	18° <b>≯</b> 14'32	
morning max el	4202 Jan 13 06:18	1° <b>පි</b> 27'50	20°50'51	morning rise	4202 Dec 16 09:14	12° <b>₹</b> 19'51	
desc. node	4202 Jan 29 06:17	22° <b>る</b> 23'54		direct	4202 Dec 19 22:59	11° <b>∡</b> 06'18	
•	4202 Feb 03 09:08	0°≈		morning max el	4202 Dec 27 07:44	15° <b>⊀</b> 15'38	19°42'36
morning set	4202 Feb 12 00:52	13° <b>≈</b> 15'48			4203 Jan 07 16:52	0°ප	

1 '11'	4202 I 00 11 02	20725105	0.7		420231 20 10 26	2 COM 22121	
greatest brilliancy	4203 Jan 09 11:03	2°る35'05	-0./m	morning rise	4203 Nov 30 18:36	26°M23'21	
desc. node	4203 Jan 16 03:19	12°る38'38 21°る26'52		direct	4203 Dec 03 21:38	25°M27'32	10040121
morning set	4203 Jan 21 21:00	21° <b>6</b> 26′52 0° <b>≈</b>		morning max el	4203 Dec 10 16:30	29°M12'05 0°⊀	18°49'31
max. Earth dist.	4203 Jan 27 09:15		1.44349 AU		4203 Dec 11 11:00 4204 Jan 01 08:20	0° <b>ズ</b> 1 0° <b>ろ</b> 30'27	
max. Earth dist.	4203 Feb 02 20:22	10°≈10′19	1.44349 AU	morning set	4204 Jan 01 08:20 4204 Jan 01 00:35	0°る30'27 0°る	
aumorior comi	4202 Eab 07 11:10	17° <b>≈</b> 34'10	1950/02	desc. node	4204 Jan 01 00:33 4204 Jan 03 00:22	3°る07'35	
superior conj minimum elong	4203 Feb 07 11:19 4203 Feb 07 05:21	17 ≈34 10 17°≈10'08		max. Earth dist.	4204 Jan 16 13:35	3 00/33 24°る22'39	1.45153 AU
minimum clong	4203 Feb 07 03:21 4203 Feb 15 01:30	0° <b>\</b>	1 3043	max. Earth dist.	4204 Jan 10 15.55	24 022 39	1.43133 AU
evening rise	4203 Feb 21 02:13	10° <b>)</b> €07'38		superior conj	4204 Jan 17 19:04	26° <b>ප</b> 18'32	1020124
evening rise	4203 Net 21 02:13 4203 Mar 05 02:22	10 <b>Λ</b> 0/38		minimum elong	4204 Jan 17 19:04 4204 Jan 17 09:46	20 <b>31</b> 8 32 25° <b>3</b> 42'00	
asc. node	4203 Mar 08 04:46	4° <b>Υ</b> 27'10		minimum clong	4204 Jan 20 03:19	23 <b>⊙</b> 42 00	1 2937
evening max el	4203 Mar 11 13:29	8° <b>Υ</b> 25'15	18°15'41	evening rise	4204 Jan 20 03:19 4204 Feb 02 02:52	0 ≈ 20°≈42'23	
retrograde	4203 Mar 17 13:29 4203 Mar 17 23:41	11° <b>Υ</b> 51'09	10 1341	evening rise	4204 Feb 07 20:52	20 <b>≈</b> 42 23	
evening set	4203 Mar 17 23:41 4203 Mar 20 22:30	11° <b>Y</b> 04'56		evening max el	4204 Feb 07 20:52 4204 Feb 23 00:54	21° <b>¥</b> 52'00	18°42'45
inferior conj	4203 Mar 26 22:57	5° <b>Υ</b> 44'18	3°34'43	asc. node	4204 Feb 23 00:34 4204 Feb 23 01:49	21° <b>X</b> 52'00	16 42 43
minimum elong	4203 Mar 26 22:37 4203 Mar 26 23:32	5° <b>Υ</b> 42'41	3°34'41	retrograde	4204 Feb 29 16:25	25° <b>H</b> 33'31	
min. Earth dist.	4203 Mar 20 23:32 4203 Mar 29 11:38	2°Υ56'09	0.63500 AU	evening set	4204 Mar 03 21:30	24° <b>)</b> 34'43	
morning rise	4203 Apr 01 23:35	29° <b>H</b> 37'08	0.03300 AU	inferior conj	4204 Mar 09 14:05	18° <b>¥</b> 56'16	3°33'16
morning rise	4203 Apr 01 12:21	29 <b>₹</b> 3708		minimum elong	4204 Mar 09 14:03 4204 Mar 09 13:10	18° <b>¥</b> 59'05	3°33'14
direct	4203 Apr 08 20:43	30 KX 26° <b>¥</b> 54'22		min. Earth dist.	4204 Mar 11 11:05	16° <b>₩</b> 39'11	0.65218 AU
	4203 Apr 14 02:30	28° <del>X</del> 15'08				10 <b>X</b> 39 11 12° <b>X</b> 44'12	0.03218 AU
desc. node	•	28 χ1308 0° <b>Υ</b>		morning rise	4204 Mar 15 04:22 4204 Mar 21 20:03	9° <b>X</b> 53'43	
mamina may al	4203 Apr 17 00:50	0° γ 4° <b>Υ</b> 52'32	27942142	direct desc. node	4204 Mar 21 20:03 4204 Mar 30 23:32	13° <b>¥</b> 56'36	
morning max el	4203 Apr 22 16:58	0° <b>8</b>	21 4242			17° <b>)</b> 41'43	27°01'22
	4203 May 11 15:43	28° <b>8</b> 05'33		morning max el	4204 Apr 04 02:48	17 <del>Κ</del> 4143	27 01 22
morning set	4203 May 27 08:02	0°II			4204 Apr 14 10:07	0° <b>∀</b>	
may Earth dist	4203 May 28 06:51	0° <b>П</b> 8° <b>П</b> 41'34	1.32890 AU	morning set	4204 May 03 13:28	11° <b>8</b> 34'54	
max. Earth dist.	4203 Jun 01 11:45	о щ41 34	1.32890 AU	morning set max. Earth dist.	4204 May 09 19:33	20° <b>8</b> 23'11	1.34005 AU
aumorior comi	4202 Jun 04 02:10	1.40∏1.0!41	0.00122	max. Earth dist.	4204 May 14 06:30	20 023 11	1.34003 AU
superior conj	4203 Jun 04 03:10	14° <b>Ⅱ</b> 19'41 14° <b>Ⅱ</b> 19'46			4204 M 19, 05-21	200	0020101
minimum elong	4203 Jun 04 03:11	14° <b>Д</b> 1946 13° <b>Д</b> 51'17	0-00-23	superior conj	4204 May 18 05:21	28° <b>8</b> 32'03	
behind sun begin	4203 Jun 03 21:53	13° <b>Д</b> 31°17 14° <b>Д</b> 48'17		minimum elong	4204 May 18 06:52	28° <b>8</b> 40′02 0° <b>Ⅱ</b>	0-2843
behind sun end	4203 Jun 04 08:29			1	4204 May 18 22:07		
asc. node	4203 Jun 04 04:04	14° <b>Ⅲ</b> 24'27 29° <b>Ⅲ</b> 29'20		asc. node	4204 May 21 01:06	4° <b>П</b> 29'19 14° <b>П</b> 07'35	
evening rise	4203 Jun 11 04:06			evening rise	4204 May 25 14:32		
	4203 Jun 11 09:54	0ა <b>U</b> 0ა©			4204 Jun 02 16:38	0°©	21925141
	4203 Jun 28 10:52		22000157	evening max el	4204 Jun 14 18:18	16°952'37	21°35'41
evening max el	4203 Jul 04 00:23	6° <b>£</b> 21'36	23°09'57	desc. node	4204 Jun 26 22:46	22° <b>©</b> 57'46 22° <b>©</b> 57'49	
desc. node	4203 Jul 11 01:47	11° <b>Ω</b> 31'38		retrograde	4204 Jun 27 02:21		
retrograde	4203 Jul 17 11:14	13° <b>Ω</b> 04'42		evening set	4204 Jun 29 14:12	22°543'42	2022117
evening set	4203 Jul 21 04:46	12° <b>Ω</b> 34'19 9° <b>Ω</b> 18'44	0.55500 ATT	inferior conj	4204 Jul 08 23:06	18°542'51	
min. Earth dist.	4203 Jul 28 09:40		0.55589 AU	minimum elong	4204 Jul 08 14:44	18°554'32	
inferior conj	4203 Jul 30 03:49	8° <b>Ω</b> 17'17		min. Earth dist.	4204 Jul 08 20:09	18°546'58	0.54859 AU
minimum elong	4203 Jul 29 21:08	8° <b>Ω</b> 27'04	4°41'12	morning rise	4204 Jul 17 16:21	14°549'37	
morning rise	4203 Aug 07 15:48	4° <b>Ω</b> 24'55		direct	4204 Jul 21 00:16	14°525'29	22002121
direct	4203 Aug 10 13:40	4° <b>Ω</b> 04'36	20021112	morning max el	4204 Aug 02 08:19	20°9513'57	22°02'31
morning max el	4203 Aug 21 07:53	9° <b>Ω</b> 04'29	20°31'12	1	4204 Aug 10 10:53	0°Ω	
asc. node	4203 Aug 31 03:18	22° <b>Ω</b> 00'01		asc. node	4204 Aug 17 00:21	10° <b>Ω</b> 56'25	
. ,	4203 Sep 04 13:48	0° m/y		morning set	4204 Aug 23 14:23	24° <b>Ω</b> 01'11	
morning set	4203 Sep 09 04:34	9° <b>m</b> 11'40			4204 Aug 26 10:24	0° <b>m</b> )	
	4202 C 16 17 47	240 m- 4511 5	1044104		4204 A 20 10 50	00 m. 1 4/20	1041157
superior conj	4203 Sep 16 17:45	24° m 45'17		superior conj	4204 Aug 30 18:58	9° m 14'32	
minimum elong	4203 Sep 16 18:03	24° m/46'50	1°44'03	minimum elong	4204 Aug 30 17:57	9° <b>m</b> 09'08	1°41'54
	4203 Sep 19 08:20	0∘ <b>⊽</b>		max. Earth dist.	4204 Sep 03 09:22	16° Mp 42'52	1.34554 AU
max. Earth dist.	4203 Sep 21 18:45	4° <b>£</b> 46'36	1.36206 AU	evening rise	4204 Sep 07 21:35	25° <b>m</b> 40'57	
evening rise	4203 Sep 25 17:42	12° <b>≏</b> 15'34			4204 Sep 10 04:00	0∘ <b>ত</b>	
	4203 Oct 05 23:41	0°M		desc. node	4204 Sep 22 22:09	21° <b>≏</b> 50'20	
desc. node	4203 Oct 07 01:08	1° <b>M</b> 42'19			4204 Sep 28 09:51	0° <b>M</b>	
	4203 Oct 27 14:22	0° <b>∡</b> ¹		evening max el	4204 Oct 12 22:20	17°M35'33	26°57'32
evening max el	4203 Oct 31 09:40	3° <b>₹</b> 58'44	26°06'41	retrograde	4204 Oct 26 02:54	24°M52'12	
retrograde	4203 Nov 13 00:07	11° <b>∡</b> 06'52		evening set	4204 Nov 01 20:50	22°M11'22	
evening set	4203 Nov 19 05:51	8° <b>∡</b> ³32'56		min. Earth dist.	4204 Nov 05 19:46	18° <b>M</b> ₁7'07	
min. Earth dist.	4203 Nov 23 11:28	4° <b>∡</b> °02'48	0.66684 AU	inferior conj	4204 Nov 07 18:59	16° <b>™</b> 01'39	
inferior conj	4203 Nov 24 22:48	2° <b>҂</b> 13'11		minimum elong	4204 Nov 07 21:56	15°M53'11	1°43'42
minimum elong	4203 Nov 24 23:59	2° <b>₹</b> 09'30	0°43'44	asc. node	4204 Nov 12 23:33	10°M59'35	
	4203 Nov 26 18:54	30°RM₊		morning rise	4204 Nov 13 23:55	10° <b>M</b> 24'04	
asc. node	4203 Nov 27 02:31	29°M38'19		direct	4204 Nov 16 18:22	9° <b>M</b> 42'16	

	4204 N	120 <b>M</b> 12124	10012152		4205 0 4 22 11 24	200 0 25126	2045102
morning max el	4204 Nov 23 06:36	13°M12'34	18°12'53	minimum elong	4205 Oct 22 11:34	29° <b>£</b> 25'36	2°45'03
	4204 Dec 05 05:39 4204 Dec 12 00:28	0° <b>₰</b> 11° <b>₰</b> 02'08		morning rise asc. node	4205 Oct 28 22:20	24° <b>£</b> 15'39	
morning set desc. node	4204 Dec 12 00:28 4204 Dec 19 21:26	23° <b>×</b> <sup>7</sup> 46'44		direct	4205 Oct 30 20:35 4205 Oct 31 10:34	23° <b>Ω</b> 45'52 23° <b>Ω</b> 44'08	
desc. node	4204 Dec 19 21.26 4204 Dec 23 19:02	23 <b>x</b> ·4044		morning max el	4205 Nov 06 23:09	23 <b>≅</b> 44 08 27° <b>£</b> 09'23	17°53'17
	4204 Dec 23 19.02	0.0		morning max er	4205 Nov 09 11:22	27 <b>=</b> 0923 0° <b>M</b>	17 33 17
superior conj	4204 Dec 26 22:26	4° <b>⋜</b> 58′12	-0°47'04	morning set	4205 Nov 23 20:17	22°M54'20	
minimum elong	4204 Dec 26 16:32	4°₹34'56		morning set	4205 Nov 28 00:18	0° <b>√</b>	
max. Earth dist.	4204 Dec 29 09:12	8° <b>る</b> 49'25	1.45219 AU		4203 1107 20 00.10	0 %	
	4205 Jan 11 22:37	0°≈		superior conj	4205 Dec 06 17:32	14° <b>∡</b> °27'49	0°00'16
evening rise	4205 Jan 12 05:14	0°≈25'46		minimum elong	4205 Dec 06 17:33	14° <b>∡</b> 27'55	0°00'15
greatest brilliancy	4205 Jan 24 04:55	18° <b>≈</b> 58'00	-0.7m	behind sun begin	4205 Dec 06 07:36	13° <b>∡</b> ¹47'23	
· ·	4205 Jan 31 20:31	0° <b>)</b>		behind sun end	4205 Dec 07 03:31	15° <b>₹</b> '08'23	
evening max el	4205 Feb 05 08:43	5° <b>)</b> 22'35	19°26'47	desc. node	4205 Dec 06 18:28	14° <b>∡</b> ³31'37	
asc. node	4205 Feb 08 22:49	8° <b>)</b> €21'40		max. Earth dist.	4205 Dec 12 03:33	23° <b>∡</b> 10′01	1.44544 AU
retrograde	4205 Feb 12 13:14	9° <b>)</b> 30′21			4205 Dec 16 11:37	ರ°0	
evening set	4205 Feb 16 01:27	8° <b>升</b> 18'15		evening rise	4205 Dec 22 16:47	9° <b>⋜</b> 38′08	
inferior conj	4205 Feb 21 13:04	2° <b>)</b> 24′06	3°17'50		4206 Jan 05 04:30	0° <b>≈</b>	
minimum elong	4205 Feb 21 11:08	2° <b>)</b> 30′24	3°17'32	evening max el	4206 Jan 19 11:28	18° <b>≈</b> 54'56	20°25'52
min. Earth dist.	4205 Feb 22 19:00	0° <b>)</b> 46′24	0.66531 AU	asc. node	4206 Jan 26 19:49	23° <b>≈</b> 34'50	
	4205 Feb 23 09:30	30° <b>R</b> ≈		retrograde	4206 Jan 27 11:25	23° <b>≈</b> 37′08	
morning rise	4205 Feb 26 20:34	26° <b>≈</b> 10′04		evening set	4206 Jan 31 08:11	22° <b>≈</b> 10'45	
direct	4205 Mar 05 01:38	23° <b>≈</b> 24'33		inferior conj	4206 Feb 05 17:10	16° <b>≈</b> 03'39	2°51'29
	4205 Mar 16 16:34	0° <b>∀</b>		minimum elong	4206 Feb 05 14:45	16° <b>≈</b> 11'54	2°50'52
morning max el	4205 Mar 17 12:31	0° <b>)</b> 49′27	25°54'09	min. Earth dist.	4206 Feb 06 09:30	15° <b>≈</b> 08'01	0.67421 AU
desc. node	4205 Mar 17 20:35	1° <b>∺</b> 10′00		morning rise	4206 Feb 10 21:07	9° <b>≈</b> 49'43	
	4205 Apr 08 10:03	0°Υ		direct	4206 Feb 16 12:39	7° <b>≈</b> 18'44	
morning set	4205 Apr 22 17:17	24° <b>Y</b> 20′12		morning max el	4206 Feb 27 21:10	14° <b>≈</b> 06′01	24°30'50
	4205 Apr 25 17:49	0°8		desc. node	4206 Mar 04 17:39	19° <b>≈</b> 29'25	
max. Earth dist.	4205 Apr 26 13:48	1° <b>8</b> 35'36	1.35576 AU		4206 Mar 12 19:47	0° <b>)</b> €	
	100534 01 00 16	100111011	00.5011.0		4206 Apr 01 06:44	0°Υ	
superior conj	4205 May 01 23:46	12° <b>8</b> 16'47		morning set	4206 Apr 04 20:00	6° <b>Y</b> 07'16	1 275 40 411
minimum elong	4205 May 02 02:54	12° <b>8</b> 32'40	0°5/44	max. Earth dist.	4206 Apr 08 11:30	12° (13/142	1.37540 AU
asc. node	4205 May 07 22:08	24° <b>8</b> 26'49			4206 A 15 07.16	25° <b>Ƴ</b> 25'59	1927112
evening rise	4205 May 09 21:31	28°₩30'28 0°Ⅲ		superior conj	4206 Apr 15 07:16	25° <b>Y</b> 47'33	
evening max el	4205 May 10 15:04 4205 May 27 23:12	27° <b>II</b> 55'38	20°15'01	minimum elong	4206 Apr 15 11:43 4206 Apr 17 15:27	0° <b>8</b>	1 23 33
evening max er	4205 May 27 23:12 4205 May 30 08:21	0°95	20 13 01	evening rise	4206 Apr 23 22:41	12° <b>8</b> 31'16	
retrograde	4205 Jun 07 16:10	3° <b>5</b> 09'18		asc. node	4206 Apr 24 19:09	14° <b>8</b> 12'44	
evening set	4205 Jun 09 15:19	2°959'29		asc. node	4206 May 03 08:35	0°П	
desc. node	4205 Jun 13 19:47	1°940'20		evening max el	4206 May 10 16:22	9° <b>∏</b> 40'47	19°13'17
dese. node	4205 Jun 17 01:31	30°RⅡ		retrograde	4206 May 19 16:43	14° <b>∏</b> 04'17	19 13 17
inferior conj	4205 Jun 18 18:06	29° <b>I</b> I00'55	-1°27'40	evening set	4206 May 21 17:05	13° <b>∏</b> 52'03	
minimum elong	4205 Jun 18 13:59	29° <b>Ⅱ</b> 07'00		inferior conj	4206 May 30 02:41	9° <b>∏</b> 42'11	0°27'49
min. Earth dist.	4205 Jun 20 08:21	28° <b>Ⅲ</b> 04'31	0.55077 AU	minimum elong	4206 May 30 03:49	9° <b>Ⅱ</b> 40′16	0°27'24
morning rise	4205 Jun 27 11:19	24° <b>Ⅱ</b> 46′00		desc. node	4206 May 31 16:48	8° <b>Ⅱ</b> 38′01	
direct	4205 Jul 01 11:01	24° <b>Ⅱ</b> 11'33		min. Earth dist.	4206 Jun 01 23:17	7° <b>Ⅱ</b> 47'43	0.56221 AU
	4205 Jul 14 03:14	$0$ $\circ$ $\odot$		morning rise	4206 Jun 07 11:27	4° <b>Ⅱ</b> 52'38	
morning max el	4205 Jul 15 00:36	0°548'46	23°45'02	direct	4206 Jun 12 09:40	3° <b>Ⅱ</b> 56′29	
asc. node	4205 Aug 03 21:23	0° <b>Ω</b> 19'42		morning max el	4206 Jun 26 14:36	11° <b>Ⅱ</b> 12′01	25°25'10
	4205 Aug 03 17:24	$0^{\circ}\Omega$			4206 Jul 10 23:43	$0$ $\circ$ $\odot$	
morning set	4205 Aug 08 01:54	8° <b>Ω</b> 54'55		asc. node	4206 Jul 21 18:26	20° <b>ട്ട</b> 02'31	
				morning set	4206 Jul 23 13:30	23° <b>©</b> 47'50	
superior conj	4205 Aug 15 01:51	23° <b>Ω</b> 59'41	1°33'42		4206 Jul 26 10:45	$0$ $^{\circ}$ $\Omega$	
minimum elong	4205 Aug 14 23:56	23° <b>Ω</b> 49'22	1°33'31				
max. Earth dist.	4205 Aug 17 08:38	28° <b>Ω</b> 53′28	1.33302 AU	superior conj	4206 Jul 30 12:07	8° <b>Ω</b> 53'19	
	4205 Aug 17 21:11	0° <b>m</b>		minimum elong	4206 Jul 30 09:49	8° <b>Ω</b> 40'40	
evening rise	4205 Aug 22 12:22	9° <b>™</b> 40'28		max. Earth dist.	4206 Jul 31 15:14		1.32473 AU
	4205 Aug 22 13:33	00.5			"" 1114 A (1) 1 1 1 1 1	24 CHA123	
, ,	4205 Sep 02 13:01	0° <b>™</b>		evening rise	4206 Aug 06 14:11	24° <b>Ω</b> 04'32	
desc. node	4205 Sep 02 13:01 4205 Sep 09 19:08	11° <b>≏</b> 32'08		evening rise	4206 Aug 09 12:26	0° <b>m</b> )	
	4205 Sep 02 13:01 4205 Sep 09 19:08 4205 Sep 24 11:39	11° <b>≏</b> 32'08 0° <b>™</b>	27024115	·	4206 Aug 09 12:26 4206 Aug 27 05:31	0ം <b>⊽</b> 0ംൂ⊅	
evening max el	4205 Sep 02 13:01 4205 Sep 09 19:08 4205 Sep 24 11:39 4205 Sep 25 09:57	11° <b>2</b> 32'08 0°M 0°M54'09	27°24'15	desc. node	4206 Aug 09 12:26 4206 Aug 27 05:31 4206 Aug 27 16:07	0°മ 0°മ 0°മ36'57	27°20'54
evening max el retrograde	4205 Sep 02 13:01 4205 Sep 09 19:08 4205 Sep 24 11:39 4205 Sep 25 09:57 4205 Oct 08 23:46	11° <b>2</b> 32'08 0° <b>M</b> 0° <b>M</b> 54'09 8° <b>M</b> 12'13	27°24'15	desc. node evening max el	4206 Aug 09 12:26 4206 Aug 27 05:31 4206 Aug 27 16:07 4206 Sep 07 18:42	0°™ 0°Ω 0°Ω36′57 13°Ω42′48	27°20'54
evening max el retrograde evening set	4205 Sep 02 13:01 4205 Sep 09 19:08 4205 Sep 24 11:39 4205 Sep 25 09:57 4205 Oct 08 23:46 4205 Oct 16 02:08	11° <b>2</b> 32'08 0° <b>M</b> 0° <b>M</b> 54'09 8° <b>M</b> 12'13 5° <b>M</b> 33'00		desc. node evening max el retrograde	4206 Aug 09 12:26 4206 Aug 27 05:31 4206 Aug 27 16:07 4206 Sep 07 18:42 4206 Sep 21 14:04	0°™ 0°Ω 0°Ω36'57 13°Ω42'48 20°Ω57'39	27°20'54
evening max el retrograde	4205 Sep 02 13:01 4205 Sep 09 19:08 4205 Sep 24 11:39 4205 Sep 25 09:57 4205 Oct 08 23:46 4205 Oct 16 02:08 4205 Oct 19 19:25	11° \$\Omega\$ 32'08 0° \$\mathbb{m}\$ 0° \$\mathbb{m}\$.54'09 8° \$\mathbb{m}\$.12'13 5° \$\mathbb{m}\$.33'00 2° \$\mathbb{m}\$.12'47		desc. node evening max el retrograde evening set	4206 Aug 09 12:26 4206 Aug 27 05:31 4206 Aug 27 16:07 4206 Sep 07 18:42 4206 Sep 21 14:04 4206 Sep 28 18:17	0° നു 0° മ 0° മ36'57 13° മ42'48 20° മ57'39 18° മ31'42	
evening max el retrograde evening set	4205 Sep 02 13:01 4205 Sep 09 19:08 4205 Sep 24 11:39 4205 Sep 25 09:57 4205 Oct 08 23:46 4205 Oct 16 02:08	11° <b>2</b> 32'08 0° <b>M</b> 0° <b>M</b> 54'09 8° <b>M</b> 12'13 5° <b>M</b> 33'00	0.64049 AU	desc. node evening max el retrograde	4206 Aug 09 12:26 4206 Aug 27 05:31 4206 Aug 27 16:07 4206 Sep 07 18:42 4206 Sep 21 14:04	0° നു 0° മ 0° മ36'57 13° മ42'48 20° മ57'39 18° മ31'42	0.62245 AU

minimum elong	4206 Oct 05 13:27	12° <b>≏</b> 41'31	3°44'24	inferior conj	4207 Sep 17 17:40	25° <b>m</b> 45'05	-4°36'44
morning rise	4206 Oct 12 10:20	7° <b>£</b> 51'30		minimum elong	4207 Sep 17 23:13	25° m 33'43	4°35'40
direct	4206 Oct 14 19:08	7° <b>≏</b> 26'45		morning rise	4207 Sep 25 07:35	21° <b>m</b> 02'47	
asc. node	4206 Oct 17 17:38	8° <b>≏</b> 06'07		direct	4207 Sep 27 16:11	20° Mp 41'51	
morning max el	4206 Oct 21 15:07	10° <b>≏</b> 55'15	17°51'35	asc. node	4207 Oct 04 14:42	23° <b>m</b> 52'25	
	4206 Nov 03 07:50	0°M		morning max el	4207 Oct 05 03:17	24° <b>m</b> 21'55	18°09'08
morning set	4206 Nov 06 13:40	5° <b>™</b> 48'12			4207 Oct 09 18:12	0∘ <b>⊽</b>	
				morning set	4207 Oct 20 22:41	19° <b>≏</b> 26'45	
superior conj	4206 Nov 17 14:33	25° <b>™</b> 13'23	0°41'29		4207 Oct 26 14:04	0°M₊	
minimum elong	4206 Nov 17 18:05	25°M28'27	0°40'59				
	4206 Nov 20 10:26	0° <b>₹</b>		superior conj	4207 Oct 30 13:04	7°M13'26	1°12'09
desc. node	4206 Nov 23 15:27	5° 🖈 18'43	1 42220 ATT	minimum elong	4207 Oct 30 17:07	7°M31'36	1°11'41
max. Earth dist.	4206 Nov 24 18:19	7°×708'20	1.43228 AU	max. Earth dist.	4207 Nov 07 04:27	20°M32'21	1.41429 AU
evening rise	4206 Dec 02 04:30 4206 Dec 09 09:36	18°♂57'16 0°る		desc. node	4207 Nov 10 12:28	26°M05'08 29°M00'58	
	4206 Dec 31 01:53	0°≈		evening rise	4207 Nov 12 07:37 4207 Nov 12 22:15	29 11600 38 0° <b>x</b> 7	
evening max el	4200 Dec 31 01:33 4207 Jan 02 08:46	0 ∞ 2°≈28'34	21°36'51		4207 Nov 12 22:13 4207 Dec 02 23:48	0°ප ව°0	
retrograde	4207 Jan 11 08:53	7°≈49'34	21 3031	evening max el	4207 Dec 02 23:48 4207 Dec 16 01:23	0 0 16° <b>る</b> 04'59	22°55'03
asc. node	4207 Jan 13 16:52	7°≈20'10		retrograde	4207 Dec 16 01:23 4207 Dec 26 04:00	10 <b>3</b> 0439 22° <b>る</b> 04'46	22 33 03
evening set	4207 Jan 15 15:54	6°≈07'53		evening set	4207 Dec 30 23:00	20°る06'59	
e vening sec	4207 Jan 20 21:31	30°Rる		asc. node	4207 Dec 31 13:55	19° <b>る</b> 33'58	
inferior conj	4207 Jan 21 00:08		2°16'09	inferior conj	4208 Jan 05 08:02	13° <b>る</b> 43'46	1°33'18
minimum elong	4207 Jan 20 21:43	29° <b>る</b> 59'18	2°15'23	minimum elong	4208 Jan 05 06:06	13° <b>る</b> 50'28	1°32'34
min. Earth dist.	4207 Jan 21 04:14	29° <b>る</b> 36'42	0.67911 AU	min. Earth dist.	4208 Jan 05 00:52	14° <b>る</b> 08'31	0.68025 AU
morning rise	4207 Jan 26 03:21	23° <b>る</b> 38'53		morning rise	4208 Jan 10 13:05	7° <b>る</b> 35'19	
direct	4207 Jan 31 04:17	21° <b>る</b> 28'20		direct	4208 Jan 14 23:27	5° <b>る</b> 47'41	
morning max el	4207 Feb 10 06:25	27° <b>る</b> 27'30	23°01'42	morning max el	4208 Jan 23 20:00	10° <b>る</b> 57'31	21°35'57
	4207 Feb 12 15:36	0° <b>≈</b>		desc. node	4208 Feb 06 11:43	28° <b>る</b> 15'04	
desc. node	4207 Feb 19 14:41	8° <b>≈</b> 35'24			4208 Feb 07 17:07	0° <b>≈</b>	
	4207 Mar 06 11:30	0° <b>∀</b>		morning set	4208 Feb 24 18:06	25° <b>≈</b> 49'03	
morning set	4207 Mar 16 21:27	16° <b>)</b> ₹39'00			4208 Feb 27 08:46	0° <b>)</b>	
max. Earth dist.	4207 Mar 21 06:26	24° <b>)</b> €03'43	1.39721 AU	max. Earth dist.	4208 Mar 02 06:28	6° <b>)</b> 22′53	1.41834 AU
	4207 Mar 24 15:53	$0^{\circ}\Upsilon$				.,	
	400734 00 00 40	<b>7000</b> 40440	1040151	superior conj	4208 Mar 09 20:12	19° <b>)(</b> 14'00	
superior conj	4207 Mar 28 23:42	7° <b>Υ</b> 48'49		minimum elong	4208 Mar 09 22:52	19° <b>)</b> €25'38	2°04'56
minimum elong	4207 Mar 29 04:24	8°Υ10'23 26°Υ01'36	1°49'25		4208 Mar 15 21:47	0°Υ 8°Υ53'20	
evening rise	4207 Apr 07 15:00			evening rise asc. node	4208 Mar 20 18:52	8° γ 33′20 22° <b>Υ</b> 47'41	
asc. node	4207 Apr 09 17:00 4207 Apr 11 16:10	0° <b>と</b> 3° <b>と</b> 41'36		asc. node	4208 Mar 28 13:12 4208 Apr 02 03:20	0° <b>8</b>	
evening max el	4207 Apr 23 19:22	22° <b>8</b> 03'15	18°31'45	evening max el	4208 Apr 06 04:45	4° <b>8</b> 54'27	18°10'14
retrograde	4207 May 01 11:30	25° <b>8</b> 50'05	10 31 43	retrograde	4208 Apr 13 00:43	8° <b>8</b> 21'31	10 10 14
evening set	4207 May 03 18:18	25° <b>8</b> 31'05		evening set	4208 Apr 15 14:08	7° <b>8</b> 53'02	
inferior conj	4207 May 11 07:57	21° <b>8</b> 02'08	1°58'29	inferior conj	4208 Apr 22 10:13	3° <b>8</b> 03'04	2°57'04
minimum elong	4207 May 11 11:29	20° <b>8</b> 55'11	1°57'25	minimum elong	4208 Apr 22 13:23	2° <b>8</b> 55'48	
min. Earth dist.	4207 May 14 17:46	18° <b>8</b> 22'57	0.58050 AU	C	4208 Apr 25 18:58	30° <b>₹</b> Υ	
desc. node	4207 May 18 13:51	15° <b>8</b> 54'02		min. Earth dist.	4208 Apr 25 18:10	0° <b>8</b> 01'42	0.60207 AU
morning rise	4207 May 19 01:30	15° <b>8</b> 39'11		morning rise	4208 Apr 29 10:19	27° <b>Y</b> 15'33	
direct	4207 May 24 22:38	14° <b>8</b> 10'56		desc. node	4208 May 04 10:53	25° <b>Y</b> 19'13	
morning max el	4207 Jun 08 07:47	21° <b>8</b> 50'17	26°47'10	direct	4208 May 05 23:47	25° <b>Y</b> 12'33	
	4207 Jun 15 11:36	$\Pi$ °0			4208 May 16 21:08	$9^{\circ}$ 8	
	4207 Jul 03 18:50	$0$ $\circ$ $\odot$		morning max el	4208 May 20 07:17	3° <b>8</b> 05'13	27°38'05
morning set	4207 Jul 07 23:33	8° <b>©</b> 34'10			4208 Jun 09 00:10	0°Щ	
asc. node	4207 Jul 08 15:28	9° <b>©</b> 58'15		morning set	4208 Jun 21 06:21	23° <b>∏</b> 08'40	
				asc. node	4208 Jun 24 12:30	0°502'09	
superior conj	4207 Jul 14 23:50	23°5548'22	1°02'15	n d r	4208 Jun 24 12:06	0.220130	1 22051 444
minimum elong	4207 Jul 14 21:37	23°536'04	1°01'52	max. Earth dist.	4208 Jun 27 13:30	6° <b>©</b> 39'30	1.32051 AU
max. Earth dist.	4207 Jul 15 02:04 4207 Jul 17 19:21	24° <b>©</b> 00'39 0° <b>Ω</b>	1.32057 AU	cuparior coni	4208 Jun 28 11:16	8° <b>©</b> 39'12	0°40'24
evening rise	4207 Jul 17 19:21 4207 Jul 21 20:43	8° <b>Ω</b> 43'59		superior conj minimum elong	4208 Jun 28 11:16 4208 Jun 28 09:35	8°939'12	0°40'24 0°40'03
evening rise	4207 Aug 01 21:45	0°M)		evening rise	4208 Jul 05 06:52	23° <b>©</b> 31'33	0 70 03
desc. node	4207 Aug 14 13:07	18° Mp 49'35		0 ( Ching 1150	4208 Jul 08 09:29	0°Ω	
evening max el	4207 Aug 20 22:00	25° Mp 49'23	26°44'16		4208 Jul 26 09:08	0° m)	
	4207 Aug 26 02:37	0° <u>م</u>		desc. node	4208 Jul 31 10:09	5°Mp48'32	
retrograde	4207 Sep 03 20:22	2° <b>ჲ</b> 59'44		evening max el	4208 Aug 01 17:47	7° Mp 06'49	25°36'06
evening set	4207 Sep 10 16:51	0° <b>ჲ</b> 59'45		retrograde	4208 Aug 15 16:56	14° mp 12'49	
-	4207 Sep 12 07:06	30°R.M⊅		evening set	4208 Aug 21 16:55	12° <b>m</b> 48'36	
min. Earth dist.	4207 Sep 14 12:00	28° Mp 23'00	0.60221 AU	min. Earth dist.	4208 Aug 26 05:45	10° Mp 10'23	0.58168 AU

inferior conj	4208 Aug 29 09:37	7° <b>m</b> 56'44	5°08'10	min. Earth dist.	4209 Aug 07 17:57	200 055113	0.56369 AU
minimum elong	4208 Aug 29 12:05	7° My 52'22	5°08'00	inferior conj	4209 Aug 10 05:24	19° <b>Ω</b> 23'23	
Č	4208 Aug 29 12.03 4208 Sep 06 09:30		3 08 00	•		19° <b>Ω</b> 28'40	
morning rise	1	3°Mp37'40		minimum elong	4209 Aug 10 02:00		5-05-07
direct	4208 Sep 08 21:16	3°Mp18'16	10047100	morning rise	4209 Aug 18 13:30	15° <b>Ω</b> 24'28	
morning max el	4208 Sep 17 08:19	7° Mp 19'43	18°47'22	direct	4209 Aug 21 06:55	15° <b>Ω</b> 05'06	10047114
asc. node	4208 Sep 20 11:45	10° m/49'39		morning max el	4209 Aug 31 03:16	19° <b>Ω</b> 39'57	19°47'14
	4208 Oct 01 22:07	0∘ <b>⊽</b>		asc. node	4209 Sep 07 08:48	28° <b>Ω</b> 43'09	
morning set	4208 Oct 03 18:31	3° <b>£</b> 35'49			4209 Sep 08 04:17	0° <b>m</b> )	
		<b>_</b>		morning set	4209 Sep 17 21:43	18° <b>m</b> 05'58	
superior conj	4208 Oct 12 08:00	20° <b>Ω</b> 13'10			4209 Sep 23 18:31	0∘ <b>ত</b>	
minimum elong	4208 Oct 12 10:54	20° <b>Ω</b> 26'50	1°31'42			_	
	4208 Oct 17 14:54	0°M		superior conj	4209 Sep 25 18:02	3° <b>£</b> 57'37	1°42'02
max. Earth dist.	4208 Oct 19 10:20	3°M13'59	1.39365 AU	minimum elong	4209 Sep 25 19:16	4° <b>≙</b> 03'42	1°41'59
evening rise	4208 Oct 23 09:20	10°M06'06		max. Earth dist.	4209 Oct 01 15:09	15° <b>≙</b> 19'05	1.37297 AU
desc. node	4208 Oct 27 09:28	16°M46'47		evening rise	4209 Oct 05 09:35	22° <b>≙</b> 13′28	
	4208 Nov 04 19:36	0° <b>∡</b> ¹			4209 Oct 09 20:26	0° <b>M</b>	
evening max el	4208 Nov 27 14:53	29° <b>∡</b> ⁴44'27	24°14'45	desc. node	4209 Oct 14 06:30	7°M19'39	
	4208 Nov 27 21:11	0°ප			4209 Oct 29 15:59	0° <b>∡</b>	
retrograde	4208 Dec 08 19:39	6° <b>ප</b> 18'26		evening max el	4209 Nov 10 03:12	13° <b>⊀</b> 26'27	25°29'07
evening set	4208 Dec 14 03:55	4° <b>る</b> 04'43		retrograde	4209 Nov 22 06:57	20° <b>≯</b> 25'55	
asc. node	4208 Dec 17 10:59	0° <b>る</b> 31'25		evening set	4209 Nov 28 04:58	17° <b>∡</b> 758′07	
	4208 Dec 17 20:47	30°Ŗ <b>⋌</b> ¹		min. Earth dist.	4209 Dec 02 14:30	13° <b>∡</b> ¹07'45	0.67183 AU
min. Earth dist.	4208 Dec 18 21:03	28° <b>₮</b> 39'50	0.67780 AU	inferior conj	4209 Dec 03 19:28	11° <b>∡</b> ³34'39	-0°10'45
inferior conj	4208 Dec 19 15:05	27° <b>∡</b> ³39′08	0°43'59	minimum elong	4209 Dec 03 19:44	11° <b>∡</b> ³33'46	0°10'37
minimum elong	4208 Dec 19 14:03	27° <b>∡</b> ⁴42'36	0°43'34	transit middle	4209 Dec 03 19:44	11° <b>∡</b> ³33'46	0°10'37
morning rise	4208 Dec 25 00:14	21° <b>х</b> 36′14		transit begin	4209 Dec 03 17:38	11° <b>∡</b> 740′35	
direct	4208 Dec 28 21:03	20° <b>₮</b> 11'00		transit end	4209 Dec 03 21:51	11° <b>∡</b> ¹26'59	
morning max el	4209 Jan 05 16:55	24° <b>渘</b> ³39′05	20°20'06	asc. node	4209 Dec 04 08:02	10° <b>∡</b> 754'24	
	4209 Jan 10 08:59	8°0		morning rise	4209 Dec 09 10:50	5° <b>∡</b> ³39'24	
desc. node	4209 Jan 23 08:45	18° <b>る</b> 18'43		direct	4209 Dec 12 19:42	4° <b>∡</b> ³34'01	
	4209 Jan 31 02:00	0° <b>≈</b>		morning max el	4209 Dec 19 21:46	8° <b>∡</b> ³31′28	19°18'05
morning set	4209 Feb 02 17:07	4° <b>≈</b> 03'06		greatest brilliancy	4210 Jan 02 09:28	26° <b>∡</b> ³38'25	-0.7m
max. Earth dist.	4209 Feb 12 14:13	19° <b>≈</b> 36'44	1.43590 AU		4210 Jan 04 14:34	0°₹	
				desc. node	4210 Jan 10 05:46	8° <b>る</b> 39'49	
superior conj	4209 Feb 18 15:59	29° <b>≈</b> 30'36	-2°06'27	morning set	4210 Jan 12 16:56	12° <b>る</b> 28'49	
minimum elong	4209 Feb 18 13:35	29° <b>≈</b> 20'43	2°06'24		4210 Jan 23 22:37	0° <b>≈</b>	
minimum elong	4209 Feb 18 13:35 4209 Feb 18 23:05	29° <b>≈</b> 20'43 0° <b>米</b>	2°06'24	max. Earth dist.		0° <b>≈</b> 3° <b>≈</b> 31'13	1.44777 AU
minimum elong evening rise			2°06'24	max. Earth dist.	4210 Jan 23 22:37		1.44777 <b>A</b> U
	4209 Feb 18 23:05	0° <b>∀</b>	2°06'24	max. Earth dist.	4210 Jan 23 22:37		
	4209 Feb 18 23:05 4209 Mar 03 05:56	0° <b>∺</b> 20° <b>∺</b> 56'55	2°06'24		4210 Jan 23 22:37 4210 Jan 26 04:16	3°≈31'13	-1°49'17
evening rise	4209 Feb 18 23:05 4209 Mar 03 05:56 4209 Mar 08 10:50	0°¥ 20°¥56'55 0°Υ	2°06′24 18°08′14	superior conj	4210 Jan 23 22:37 4210 Jan 26 04:16 4210 Jan 29 10:36	3°≈31'13 8°≈41'26	-1°49'17
evening rise	4209 Feb 18 23:05 4209 Mar 03 05:56 4209 Mar 08 10:50 4209 Mar 15 10:15	0°¥ 20°¥56'55 0° <b>Υ</b> 11° <b>Υ</b> 23'14		superior conj	4210 Jan 23 22:37 4210 Jan 26 04:16 4210 Jan 29 10:36 4210 Jan 29 02:30	3°≈31'13 8°≈41'26 8°≈09'14	-1°49'17
evening rise asc. node evening max el	4209 Feb 18 23:05 4209 Mar 03 05:56 4209 Mar 08 10:50 4209 Mar 15 10:15 4209 Mar 20 17:08	0°¥ 20°¥56'55 0°Υ 11°Υ23'14 18°Υ05'00		superior conj minimum elong	4210 Jan 23 22:37 4210 Jan 26 04:16 4210 Jan 29 10:36 4210 Jan 29 02:30 4210 Feb 11 13:48	3°≈31'13 8°≈41'26 8°≈09'14 0°¥	-1°49'17
evening rise  asc. node evening max el retrograde	4209 Feb 18 23:05 4209 Mar 03 05:56 4209 Mar 08 10:50 4209 Mar 15 10:15 4209 Mar 20 17:08 4209 Mar 27 04:12	0°¥ 20°¥56'55 0°Y 11°Y23'14 18°Y05'00 21°Y27'44		superior conj minimum elong evening rise	4210 Jan 23 22:37 4210 Jan 26 04:16 4210 Jan 29 10:36 4210 Jan 29 02:30 4210 Feb 11 13:48 4210 Feb 12 19:59	3°≈31'13 8°≈41'26 8°≈09'14 0°₩ 2°₩04'58	-1°49'17
evening rise  asc. node evening max el retrograde evening set inferior conj	4209 Feb 18 23:05 4209 Mar 03 05:56 4209 Mar 08 10:50 4209 Mar 15 10:15 4209 Mar 20 17:08 4209 Mar 27 04:12 4209 Mar 29 23:35 4209 Apr 05 06:03	0°¥ 20°¥56'55 0°Y 11°Y23'14 18°Y05'00 21°Y27'44 20°Y48'20	18°08'14	superior conj minimum elong evening rise	4210 Jan 23 22:37 4210 Jan 26 04:16 4210 Jan 29 10:36 4210 Jan 29 02:30 4210 Feb 11 13:48 4210 Feb 12 19:59 4210 Mar 02 07:18	3°≈31'13 8°≈41'26 8°≈09'14 0°¥ 2°¥04'58 29°¥18'39	-1°49'17
evening rise  asc. node evening max el retrograde evening set	4209 Feb 18 23:05 4209 Mar 03 05:56 4209 Mar 08 10:50 4209 Mar 15 10:15 4209 Mar 20 17:08 4209 Mar 27 04:12 4209 Mar 29 23:35	0°¥ 20°¥56'55 0°Υ 11°Υ23'14 18°Υ05'00 21°Υ27'44 20°Υ48'20 15°Υ38'18	18°08'14 3°27'28	superior conj minimum elong evening rise asc. node evening max el	4210 Jan 23 22:37 4210 Jan 26 04:16 4210 Jan 29 10:36 4210 Jan 29 02:30 4210 Feb 11 13:48 4210 Feb 12 19:59 4210 Mar 02 07:18 4210 Mar 02 21:19	3°≈31'13 8°≈41'26 8°≈09'14 0° ₩ 2°₩04'58 29°₩18'39 0°♥	-1°49'17 1°48'39
evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	4209 Feb 18 23:05 4209 Mar 03 05:56 4209 Mar 08 10:50 4209 Mar 15 10:15 4209 Mar 20 17:08 4209 Mar 27 04:12 4209 Mar 29 23:35 4209 Apr 05 06:03 4209 Apr 05 07:38	0°¥ 20°¥56'55 0°° 11°°¥23'14 18°°¥05'00 21°°¥27'44 20°°¥48'20 15°°¥38'18 15°°¥34'09	18°08'14 3°27'28 3°27'19	superior conj minimum elong evening rise asc. node evening max el retrograde	4210 Jan 23 22:37 4210 Jan 26 04:16 4210 Jan 29 10:36 4210 Jan 29 02:30 4210 Feb 11 13:48 4210 Feb 12 19:59 4210 Mar 02 07:18 4210 Mar 02 21:19 4210 Mar 04 05:36	3°≈31'13 8°≈41'26 8°≈09'14 0° ₩ 2° ₩04'58 29° ₩18'39 0° Ψ 1°Ψ27'23	-1°49'17 1°48'39
evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong	4209 Feb 18 23:05 4209 Mar 03 05:56 4209 Mar 08 10:50 4209 Mar 15 10:15 4209 Mar 20 17:08 4209 Mar 27 04:12 4209 Mar 29 23:35 4209 Apr 05 06:03 4209 Apr 05 07:38 4209 Apr 08 03:00 4209 Apr 11 14:17	0° <del>X</del> 20° <del>X</del> 56'55 0° <b>Υ</b> 11° <b>Υ</b> 23'14 18° <b>Υ</b> 05'00 21° <b>Υ</b> 27'44 20° <b>Υ</b> 48'20 15° <b>Υ</b> 38'18 15° <b>Υ</b> 34'09 12° <b>Υ</b> 39'16	18°08'14 3°27'28 3°27'19	superior conj minimum elong evening rise asc. node evening max el	4210 Jan 23 22:37 4210 Jan 26 04:16 4210 Jan 29 10:36 4210 Jan 29 02:30 4210 Feb 11 13:48 4210 Feb 12 19:59 4210 Mar 02 07:18 4210 Mar 02 21:19 4210 Mar 04 05:36 4210 Mar 10 17:15	3°≈31'13 8°≈41'26 8°≈09'14 0° ₩ 2° ₩04'58 29° ₩18'39 0° Ψ 1° Ψ27'23 4° Ψ58'54	-1°49'17 1°48'39
evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	4209 Feb 18 23:05 4209 Mar 03 05:56 4209 Mar 08 10:50 4209 Mar 15 10:15 4209 Mar 20 17:08 4209 Mar 27 04:12 4209 Mar 29 23:35 4209 Apr 05 06:03 4209 Apr 05 07:38 4209 Apr 08 03:00 4209 Apr 11 14:17 4209 Apr 18 10:58	0°\;\; 20°\;\;\;56'55 0°\;\; 11°\;\;23'14 18°\;\;\;05'00 21°\;\;\;27'44 20°\;\;\;48'20 15°\;\;\;38'18 15°\;\;\;34'09 12°\;\;\;39'16 9°\;\;\;35'53	18°08'14 3°27'28 3°27'19	superior conj minimum elong evening rise asc. node evening max el retrograde	4210 Jan 23 22:37 4210 Jan 26 04:16 4210 Jan 29 10:36 4210 Jan 29 02:30 4210 Feb 11 13:48 4210 Feb 12 19:59 4210 Mar 02 07:18 4210 Mar 02 02:36 4210 Mar 04 05:36 4210 Mar 10 17:15 4210 Mar 13 18:33	3°≈31'13 8°≈41'26 8°≈09'14 0° ₩ 2° ₩04'58 29° ₩18'39 0° Ψ 1° Ψ27'23 4° Ψ58'54 4° Ψ07'35	-1°49'17 1°48'39
evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	4209 Feb 18 23:05 4209 Mar 03 05:56 4209 Mar 08 10:50 4209 Mar 15 10:15 4209 Mar 20 17:08 4209 Mar 27 04:12 4209 Mar 29 23:35 4209 Apr 05 06:03 4209 Apr 05 07:38 4209 Apr 08 03:00 4209 Apr 11 14:17 4209 Apr 18 10:58 4209 Apr 21 07:56	0° <del>X</del> 20° <del>X</del> 56'55 0° <b>Υ</b> 11° <b>Υ</b> 23'14 18° <b>Υ</b> 05'00 21° <b>Υ</b> 27'44 20° <b>Υ</b> 48'20 15° <b>Υ</b> 38'18 15° <b>Υ</b> 34'09 12° <b>Υ</b> 39'16 9° <b>Υ</b> 35'53 7° <b>Υ</b> 04'21	18°08'14 3°27'28 3°27'19 0.62355 AU	superior conj minimum elong evening rise asc. node evening max el retrograde evening set	4210 Jan 23 22:37 4210 Jan 26 04:16 4210 Jan 29 10:36 4210 Jan 29 02:30 4210 Feb 11 13:48 4210 Feb 12 19:59 4210 Mar 02 07:18 4210 Mar 02 21:19 4210 Mar 04 05:36 4210 Mar 10 17:15 4210 Mar 13 18:33 4210 Mar 18 11:00	3°≈31'13 8°≈41'26 8°≈09'14 0° ₩ 2° ₩04'58 29° ₩18'39 0° Ψ 1° Ψ27'23 4° Ψ58'54 4° Ψ07'35 30° ₹ ₩	-1°49'17 1°48'39
evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	4209 Feb 18 23:05 4209 Mar 03 05:56 4209 Mar 08 10:50 4209 Mar 15 10:15 4209 Mar 20 17:08 4209 Mar 27 04:12 4209 Mar 29 23:35 4209 Apr 05 06:03 4209 Apr 05 07:38 4209 Apr 08 03:00 4209 Apr 11 14:17 4209 Apr 18 10:58	0°¥ 20°¥56'55 0°Y 11°Y23'14 18°Y05'00 21°Y27'44 20°Y48'20 15°Y38'18 15°Y34'09 12°Y39'16 9°Y35'53 7°Y04'21 7°Y28'33 15°Y03'22	18°08'14 3°27'28 3°27'19 0.62355 AU	superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	4210 Jan 23 22:37 4210 Jan 26 04:16 4210 Jan 29 10:36 4210 Jan 29 02:30 4210 Feb 11 13:48 4210 Feb 12 19:59 4210 Mar 02 07:18 4210 Mar 02 21:19 4210 Mar 04 05:36 4210 Mar 10 17:15 4210 Mar 13 18:33 4210 Mar 18 11:00 4210 Mar 19 15:15	3°≈31'13 8°≈41'26 8°≈09'14 0° ₩ 2° ₩04'58 29° ₩18'39 0° Ψ 1°Ψ27'23 4°Ψ58'54 4°Ψ07'35 30° № ₩ 28° ₩39'06	-1°49'17 1°48'39 18°25'00 3°36'03
evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	4209 Feb 18 23:05 4209 Mar 03 05:56 4209 Mar 08 10:50 4209 Mar 15 10:15 4209 Mar 20 17:08 4209 Mar 27 04:12 4209 Mar 29 23:35 4209 Apr 05 06:03 4209 Apr 05 07:38 4209 Apr 08 03:00 4209 Apr 11 14:17 4209 Apr 18 10:58 4209 Apr 21 07:56 4209 May 02 12:54 4209 May 14 16:32	0°¥ 20°¥56'55 0°Y 11°Y23'14 18°Y05'00 21°Y27'44 20°Y48'20 15°Y38'18 15°Y34'09 12°Y39'16 9°Y35'53 7°Y04'21 7°Y28'33 15°Y03'22 0°8	18°08'14 3°27'28 3°27'19 0.62355 AU	superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	4210 Jan 23 22:37 4210 Jan 26 04:16 4210 Jan 29 10:36 4210 Jan 29 02:30 4210 Feb 11 13:48 4210 Feb 12 19:59 4210 Mar 02 07:18 4210 Mar 04 05:36 4210 Mar 10 17:15 4210 Mar 13 18:33 4210 Mar 18 11:00 4210 Mar 19 15:15 4210 Mar 19 15:09 4210 Mar 21 21:20	8°≈31'13 8°≈41'26 8°≈09'14 0° ₩ 2° ₩04'58 29° ₩18'39 0° Ψ 1° Ψ27'23 4° Ψ58'54 4° Ψ07'35 30° ₹ ₩ 28° ₩39'06 28° ₩39'26 26° ₩02'29	-1°49'17 1°48'39 18°25'00 3°36'03 3°36'04
evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	4209 Feb 18 23:05 4209 Mar 03 05:56 4209 Mar 08 10:50 4209 Mar 15 10:15 4209 Mar 20 17:08 4209 Mar 27 04:12 4209 Mar 29 23:35 4209 Apr 05 06:03 4209 Apr 05 07:38 4209 Apr 08 03:00 4209 Apr 11 14:17 4209 Apr 18 10:58 4209 Apr 21 07:56 4209 May 02 12:54 4209 May 14 16:32 4209 Jun 01 13:48	0°¥ 20°¥56'55 0°Y 11°Y23'14 18°Y05'00 21°Y27'44 20°Y48'20 15°Y38'18 15°Y34'09 12°Y39'16 9°Y35'53 7°Y04'21 7°Y28'33 15°Y03'22 0°¥	18°08'14 3°27'28 3°27'19 0.62355 AU	superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	4210 Jan 23 22:37 4210 Jan 26 04:16 4210 Jan 29 10:36 4210 Jan 29 02:30 4210 Feb 11 13:48 4210 Feb 12 19:59 4210 Mar 02 07:18 4210 Mar 04 05:36 4210 Mar 10 17:15 4210 Mar 13 18:33 4210 Mar 18 11:00 4210 Mar 19 15:15 4210 Mar 19 15:09 4210 Mar 21 21:20 4210 Mar 25 11:00	3°≈31'13 8°≈41'26 8°≈09'14 0° ₩ 2° ₩04'58 29° ₩18'39 0° Ψ 1° Ψ27'23 4° Ψ58'54 4° Ψ07'35 30° R ₩ 28° ₩39'26 28° ₩39'26 26° ₩02'29 22° ₩29'03	-1°49'17 1°48'39 18°25'00 3°36'03 3°36'04
evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set	4209 Feb 18 23:05 4209 Mar 03 05:56 4209 Mar 08 10:50 4209 Mar 15 10:15 4209 Mar 20 17:08 4209 Mar 27 04:12 4209 Mar 29 23:35 4209 Apr 05 06:03 4209 Apr 05 07:38 4209 Apr 08 03:00 4209 Apr 11 14:17 4209 Apr 18 10:58 4209 Apr 21 07:56 4209 May 02 12:54 4209 May 14 16:32 4209 Jun 01 13:48 4209 Jun 05 07:51	0°¥ 20°¥56'55 0°Y 11°Y23'14 18°Y05'00 21°Y27'44 20°Y48'20 15°Y38'18 15°Y34'09 12°Y39'16 9°Y35'53 7°Y04'21 7°Y28'33 15°Y03'22 0°B 0°II 7°IZ5'13	18°08'14 3°27'28 3°27'19 0.62355 AU 27°51'45	superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	4210 Jan 23 22:37 4210 Jan 26 04:16  4210 Jan 29 10:36 4210 Jan 29 02:30 4210 Feb 11 13:48 4210 Feb 12 19:59 4210 Mar 02 07:18 4210 Mar 04 05:36 4210 Mar 10 17:15 4210 Mar 13 18:33 4210 Mar 18 11:00 4210 Mar 19 15:15 4210 Mar 19 15:09 4210 Mar 21 21:20 4210 Mar 25 11:00 4210 Apr 01 06:28	3°≈31'13 8°≈41'26 8°≈09'14 0° ₩ 2° ₩04'58 29° ₩18'39 0° Ψ 1° Ψ27'23 4° Ψ58'54 4° Ψ07'35 30° ℝ ₩ 28° ₩39'26 26° ₩02'29 22° ₩29'03 19° ₩41'13	-1°49'17 1°48'39 18°25'00 3°36'03 3°36'04
evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	4209 Feb 18 23:05 4209 Mar 03 05:56 4209 Mar 08 10:50 4209 Mar 15 10:15 4209 Mar 20 17:08 4209 Mar 27 04:12 4209 Mar 29 23:35 4209 Apr 05 06:03 4209 Apr 05 07:38 4209 Apr 08 03:00 4209 Apr 11 14:17 4209 Apr 18 10:58 4209 Apr 21 07:56 4209 May 02 12:54 4209 May 14 16:32 4209 Jun 01 13:48 4209 Jun 05 07:51 4209 Jun 10 21:34	0°¥ 20°¥56'55 0°°Y 11°°Y23'14 18°°Y05'00 21°°Y27'44 20°°Y48'20 15°°Y38'18 15°°Y34'09 12°°Y39'16 9°°Y35'53 7°°Y04'21 7°°Y28'33 15°°Y03'22 0°В 0°П 7°П25'13 19°П05'33	18°08'14 3°27'28 3°27'19 0.62355 AU	superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	4210 Jan 23 22:37 4210 Jan 26 04:16  4210 Jan 29 10:36 4210 Jan 29 02:30 4210 Feb 11 13:48 4210 Feb 12 19:59 4210 Mar 02 07:18 4210 Mar 04 05:36 4210 Mar 10 17:15 4210 Mar 13 18:33 4210 Mar 18 11:00 4210 Mar 19 15:15 4210 Mar 19 15:09 4210 Mar 21 21:20 4210 Mar 25 11:00 4210 Apr 01 06:28 4210 Apr 08 04:59	3°≈31'13 8°≈41'26 8°≈09'14 0° ₩ 2° ₩04'58 29° ₩18'39 0° Ψ 1° Ψ27'23 4° Ψ58'54 4° Ψ07'35 30° R ₩ 28° ₩39'26 28° ₩39'26 26° ₩02'29 22° ₩29'03	-1°49'17 1°48'39 18°25'00 3°36'03 3°36'04
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evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set max. Earth dist. asc. node  superior conj minimum elong behind sun begin behind sun end	4209 Feb 18 23:05 4209 Mar 03 05:56 4209 Mar 08 10:50 4209 Mar 15 10:15 4209 Mar 20 17:08 4209 Mar 27 04:12 4209 Mar 29 23:35 4209 Apr 05 06:03 4209 Apr 05 07:38 4209 Apr 08 03:00 4209 Apr 11 14:17 4209 Apr 18 10:58 4209 Apr 21 07:56 4209 May 02 12:54 4209 May 14 16:32 4209 Jun 01 13:48 4209 Jun 05 07:51 4209 Jun 10 21:34 4209 Jun 10 21:34 4209 Jun 12 19:58 4209 Jun 12 19:58 4209 Jun 12 18:21 4209 Jun 12 18:21 4209 Jun 15 21:56 4209 Jun 19 18:38 4209 Jul 01 00:12	0°¥ 20°¥56'55 0°Y 11°Y23'14 18°Y05'00 21°Y27'44 20°Y48'20 15°Y38'18 15°Y34'09 12°Y39'16 9°Y35'53 7°Y04'21 7°Y28'33 15°Y03'22 0°B 0°II 7°I25'13 19°I05'33 20°I10'03 23°I20'25 23°I16'32 23°I16'32 23°I16'32 23°I25'21 0°S 8°S20'50 0°Ω	18°08'14  3°27'28 3°27'19 0.62355 AU  27°51'45  1.32456 AU  0°15'17 0°15'07	superior conj minimum elong  evening rise asc. node  evening max el retrograde evening set  inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set  max. Earth dist.  superior conj minimum elong	4210 Jan 23 22:37 4210 Jan 26 04:16  4210 Jan 29 10:36 4210 Jan 29 02:30 4210 Feb 11 13:48 4210 Feb 12 19:59 4210 Mar 02 07:18 4210 Mar 04 05:36 4210 Mar 10 17:15 4210 Mar 13 18:33 4210 Mar 18 11:00 4210 Mar 19 15:15 4210 Mar 19 15:09 4210 Mar 21 21:20 4210 Mar 25 11:00 4210 Apr 01 06:28 4210 Apr 01 06:28 4210 Apr 14 22:03 4210 Apr 17 04:12 4210 May 08 09:34 4210 May 20 01:23 4210 May 24 09:31 4210 May 28 02:05 4210 May 28 02:05 4210 May 28 02:05	3°≈31'13  8°≈41'26 8°≈09'14 0° H 2° H04'58 29° H18'39 0° Y 1° Y27'23 4° Y58'54 4° Y07'35 30° RH 28° H39'26 26° H02'29 22° H29'03 19° H41'13 22° H02'22 27° H37'27 0° Y 0° B 21° B14'39 0° II 1° II 04'48  7° II 45'03 7° II 48'23	-1°49'17 1°48'39 18°25'00 3°36'03 3°36'04 0.64272 AU 27°28'51 1.33302 AU -0°12'22
evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set max. Earth dist. asc. node  superior conj minimum elong behind sun begin behind sun end  evening rise evening max el	4209 Feb 18 23:05 4209 Mar 03 05:56 4209 Mar 08 10:50 4209 Mar 15 10:15 4209 Mar 20 17:08 4209 Mar 27 04:12 4209 Mar 29 23:35 4209 Apr 05 06:03 4209 Apr 05 07:38 4209 Apr 08 03:00 4209 Apr 11 14:17 4209 Apr 18 10:58 4209 Apr 21 07:56 4209 Apr 21 07:56 4209 May 02 12:54 4209 May 14 16:32 4209 Jun 01 13:48 4209 Jun 05 07:51 4209 Jun 10 21:34 4209 Jun 10 21:34 4209 Jun 12 20:41 4209 Jun 12 19:58 4209 Jun 12 19:58 4209 Jun 12 18:21 4209 Jun 15 21:35 4209 Jun 15 21:56 4209 Jun 19 18:38 4209 Jul 01 00:12 4209 Jul 11 07:27	0°¥ 20°¥56'55 0°Y 11°Y23'14 18°Y05'00 21°Y27'44 20°Y48'20 15°Y38'18 15°Y34'09 12°Y39'16 9°Y35'53 7°Y04'21 7°Y28'33 15°Y03'22 0°B 0°II 7°IL25'13 19°I05'33 20°I10'03 23°I20'25 23°I16'32 23°I07'43 23°I25'21 0° 8° 8°©20'50 0°Ω 17°Ω43'53	18°08'14  3°27'28 3°27'19 0.62355 AU  27°51'45  1.32456 AU  0°15'17 0°15'07	superior conj minimum elong  evening rise asc. node  evening max el retrograde evening set  inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set  max. Earth dist.  superior conj minimum elong behind sun begin	4210 Jan 23 22:37 4210 Jan 26 04:16  4210 Jan 29 10:36 4210 Jan 29 02:30 4210 Feb 11 13:48 4210 Feb 12 19:59 4210 Mar 02 07:18 4210 Mar 04 05:36 4210 Mar 10 17:15 4210 Mar 13 18:33 4210 Mar 18 11:00 4210 Mar 19 15:15 4210 Mar 19 15:09 4210 Mar 21 21:20 4210 Mar 25 11:00 4210 Apr 01 06:28 4210 Apr 08 04:59 4210 Apr 14 22:03 4210 Apr 17 04:12 4210 May 08 09:34 4210 May 20 01:23 4210 May 24 09:31 4210 May 28 02:05 4210 May 28 02:05 4210 May 28 02:05 4210 May 27 23:12	3°≈31'13  8°≈41'26 8°≈09'14 0° H 2° H04'58 29° H18'39 0° Y 1°Y27'23 4°Y58'54 4°Y07'35 30° R H 28° H39'26 26° H02'29 22° H29'03 19° H41'13 22° H02'22 27° H37'27 0° Y 0° B 21° B14'39 0° II 1° II 04'48  7° II 45'03 7° II 48'23 7° II 29'41	-1°49'17 1°48'39 18°25'00 3°36'03 3°36'04 0.64272 AU 27°28'51 1.33302 AU -0°12'22
evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set max. Earth dist. asc. node  superior conj minimum elong behind sun begin behind sun end  evening rise evening max el desc. node	4209 Feb 18 23:05 4209 Mar 03 05:56 4209 Mar 08 10:50 4209 Mar 15 10:15 4209 Mar 20 17:08 4209 Mar 27 04:12 4209 Mar 29 23:35 4209 Apr 05 06:03 4209 Apr 05 07:38 4209 Apr 08 03:00 4209 Apr 11 14:17 4209 Apr 18 10:58 4209 Apr 18 10:58 4209 Apr 21 07:56 4209 May 02 12:54 4209 May 14 16:32 4209 Jun 01 13:48 4209 Jun 05 07:51 4209 Jun 10 21:34 4209 Jun 10 21:34 4209 Jun 11 09:33 4209 Jun 12 19:58 4209 Jun 12 19:58 4209 Jun 12 19:58 4209 Jun 12 11:56 4209 Jun 15 21:56 4209 Jun 19 18:38 4209 Jun 10 00:12 4209 Jul 14 07:27 4209 Jul 18 07:11	0°¥ 20°¥56'55 0°Y 11°Y23'14 18°Y05'00 21°Y27'44 20°Y48'20 15°Y38'18 15°Y34'09 12°Y39'16 9°Y35'53 7°Y04'21 7°Y28'33 15°Y03'22 0°℧ 0°Ⅱ 7°Ⅱ25'13 19°Ⅱ05'33 20°Ⅱ10'03 23°Ⅱ20'25 23°Ⅱ16'32 23°Ⅱ16'32 23°Ⅱ25'21 0°© 8°©20'50 0°Ω 17°Ω43'53 21°Ω05'15	18°08'14  3°27'28 3°27'19 0.62355 AU  27°51'45  1.32456 AU  0°15'17 0°15'07	superior conj minimum elong  evening rise asc. node  evening max el retrograde evening set  inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set  max. Earth dist.  superior conj minimum elong behind sun begin behind sun end	4210 Jan 23 22:37 4210 Jan 26 04:16  4210 Jan 29 10:36 4210 Jan 29 02:30 4210 Feb 11 13:48 4210 Feb 12 19:59 4210 Mar 02 07:18 4210 Mar 04 05:36 4210 Mar 10 17:15 4210 Mar 13 18:33 4210 Mar 18 11:00 4210 Mar 19 15:15 4210 Mar 19 15:09 4210 Mar 21 21:20 4210 Mar 25 11:00 4210 Apr 01 06:28 4210 Apr 08 04:59 4210 Apr 14 22:03 4210 Apr 17 04:12 4210 May 08 09:34 4210 May 20 01:23 4210 May 24 09:31 4210 May 28 02:05 4210 May 28 02:05 4210 May 28 02:43 4210 May 27 23:12 4210 May 28 06:14	3°≈31'13  8°≈41'26 8°≈09'14 0° H 2° H04'58 29° H18'39 0° Y 1°Y27'23 4°Y58'54 4°Y07'35 30° RH 28° H39'26 26° H02'29 22° H29'03 19° H41'13 22° H02'22 27° H37'27 0° Y 0° B 21° B14'39 0° II 1° II 04'48  7° II 45'03 7° II 48'23 7° II 29'41 8° II 07'07	-1°49'17 1°48'39 18°25'00 3°36'03 3°36'04 0.64272 AU 27°28'51 1.33302 AU -0°12'22
evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set max. Earth dist. asc. node  superior conj minimum elong behind sun begin behind sun end  evening rise evening max el	4209 Feb 18 23:05 4209 Mar 03 05:56 4209 Mar 08 10:50 4209 Mar 15 10:15 4209 Mar 20 17:08 4209 Mar 27 04:12 4209 Mar 29 23:35 4209 Apr 05 06:03 4209 Apr 05 07:38 4209 Apr 08 03:00 4209 Apr 11 14:17 4209 Apr 18 10:58 4209 Apr 21 07:56 4209 Apr 21 07:56 4209 May 02 12:54 4209 May 14 16:32 4209 Jun 01 13:48 4209 Jun 05 07:51 4209 Jun 10 21:34 4209 Jun 10 21:34 4209 Jun 12 20:41 4209 Jun 12 19:58 4209 Jun 12 19:58 4209 Jun 12 18:21 4209 Jun 15 21:35 4209 Jun 15 21:56 4209 Jun 19 18:38 4209 Jul 01 00:12 4209 Jul 11 07:27	0°¥ 20°¥56'55 0°Y 11°Y23'14 18°Y05'00 21°Y27'44 20°Y48'20 15°Y38'18 15°Y34'09 12°Y39'16 9°Y35'53 7°Y04'21 7°Y28'33 15°Y03'22 0°B 0°II 7°IL25'13 19°I05'33 20°I10'03 23°I20'25 23°I16'32 23°I07'43 23°I25'21 0° 8° 8°©20'50 0°Ω 17°Ω43'53	18°08'14  3°27'28 3°27'19 0.62355 AU  27°51'45  1.32456 AU  0°15'17 0°15'07	superior conj minimum elong  evening rise asc. node  evening max el retrograde evening set  inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set  max. Earth dist.  superior conj minimum elong behind sun begin	4210 Jan 23 22:37 4210 Jan 26 04:16  4210 Jan 29 10:36 4210 Jan 29 02:30 4210 Feb 11 13:48 4210 Feb 12 19:59 4210 Mar 02 07:18 4210 Mar 04 05:36 4210 Mar 10 17:15 4210 Mar 13 18:33 4210 Mar 18 11:00 4210 Mar 19 15:15 4210 Mar 19 15:09 4210 Mar 21 21:20 4210 Mar 25 11:00 4210 Apr 01 06:28 4210 Apr 08 04:59 4210 Apr 14 22:03 4210 Apr 17 04:12 4210 May 08 09:34 4210 May 20 01:23 4210 May 24 09:31 4210 May 28 02:05 4210 May 28 02:05 4210 May 28 02:05 4210 May 27 23:12	3°≈31'13  8°≈41'26 8°≈09'14 0° H 2° H04'58 29° H18'39 0° Y 1°Y27'23 4°Y58'54 4°Y07'35 30° R H 28° H39'26 26° H02'29 22° H29'03 19° H41'13 22° H02'22 27° H37'27 0° Y 0° B 21° B14'39 0° II 1° II 04'48  7° II 45'03 7° II 48'23 7° II 29'41	-1°49'17 1°48'39 18°25'00 3°36'03 3°36'04 0.64272 AU 27°28'51 1.33302 AU -0°12'22

	4210 Jun 07 14:28	0°ಅ			4211 May 15 23:55	0° <b>Ⅱ</b>	
evening max el	4210 Jun 25 21:25	28° <b>©</b> 07'11	22°28'48	asc. node	4211 May 16 03:36	0° <b>П</b> 19'21	
evening max er	4210 Jun 27 23:28	0°Ω	22 20 40	evening rise	4211 May 19 05:30	7° <b>П</b> 36'52	
desc. node	4210 Jul 05 04:13	4°Ω04'03		evening rise	4211 May 31 18:04	0°95	
retrograde	4210 Jul 08 23:19	4° <b>Ω</b> 37'16		evening max el	4211 Jun 07 19:40	8° <b>©</b> 49'55	20°59'17
evening set	4210 Jul 12 02:14	4°Ω15'47		retrograde	4211 Jun 19 12:04	14°933'30	20 37 17
min. Earth dist.	4210 Jul 20 04:37	0°Ω44'18	0.55164 AU	evening set	4211 Jun 21 16:15	14° <b>©</b> 22'22	
inferior conj	4210 Jul 21 07:12	0° <b>Ω</b> 06'33		desc. node	4211 Jun 22 01:13	14°9518'18	
minimum elong	4210 Jul 20 23:00	0°Ω18'13		inferior conj	4211 Jul 01 00:31	10° <b>©</b> 24'53	-2°36'03
minimum ciong	4210 Jul 21 11:49	30°RS	7 12 23	minimum elong	4211 Jun 30 17:25	10° <b>©</b> 34'54	2°33'39
morning rise	4210 Jul 29 21:46	26°916'06		min. Earth dist.	4211 Jul 01 15:56	10°903'05	0.54836 AU
direct	4210 Jul 29 21:40 4210 Aug 01 23:06	25°954'51		morning rise	4211 Jul 09 18:35	6°\$24'24	0.54650 AU
uncci	4210 Aug 01 23:47	23 <b>3</b> 3431		direct	4211 Jul 13 08:28	5°956'48	
	=	1° <b>Ω</b> 15'08	2190902				22945120
morning max el	4210 Aug 13 10:19	1 <b>δι</b> 13 08	21 08 03	morning max el	4211 Jul 26 06:34	12° <b>©</b> 07'15 0° <b>Ω</b>	22 43 20
asc. node	4210 Aug 25 05:50				4211 Aug 08 13:47	6° <b>Ω</b> 27'38	
	4210 Aug 31 20:41	0°M)		asc. node	4211 Aug 12 02:51		
morning set	4210 Sep 02 05:40	2° Mp 49'24		morning set	4211 Aug 17 16:22	17° <b>Ω</b> 40'36	
	1210 0 00 14 40	100 7 13100	1042150		4211 Aug 23 10:52	0° <b>m</b>	
superior conj	4210 Sep 09 14:40	18° <b>m</b> 13'00					
minimum elong	4210 Sep 09 14:22	18° Mp 11'24	1°43'58	superior conj	4211 Aug 24 18:34	2° m/49'22	1°39'08
max. Earth dist.	4210 Sep 14 00:33	27° m 09'31	1.35454 AU	minimum elong	4211 Aug 24 17:06	2°Mp41'35	1°39'02
	4210 Sep 15 11:15	0ಂ <b>ರ</b>		max. Earth dist.	4211 Aug 27 18:46	9° <b>™</b> 09'52	1.33974 AU
evening rise	4210 Sep 18 04:38	5° <b>≏</b> 13'19		evening rise	4211 Sep 01 14:07	18° Mp 54'16	
desc. node	4210 Oct 01 03:32	27° <b>≏</b> 38'12			4211 Sep 07 11:13	0∘ <b>ত</b>	
	4210 Oct 02 15:46	0°M₊		desc. node	4211 Sep 18 00:32	17° <b>≏</b> 35'40	
evening max el	4210 Oct 23 15:42	27°ML07'08	26°30'52		4211 Sep 26 19:18	0°M₊	
	4210 Oct 26 21:38	0°⊀		evening max el	4211 Oct 06 04:16	10° <b>™</b> 37'49	27°12'23
retrograde	4210 Nov 05 13:11	4° <b>∡</b> ¹20'53		retrograde	4211 Oct 19 13:31	17° <b>™</b> 55'37	
evening set	4210 Nov 12 00:17	1° <b>∡¹</b> 43'09		evening set	4211 Oct 26 11:28	15° <b>™</b> 14'37	
	4210 Nov 13 20:37	30°RM₊		min. Earth dist.	4211 Oct 30 07:55	11° <b>M</b> 34'57	0.64942 AU
min. Earth dist.	4210 Nov 16 02:55	27°M28'12	0.66234 AU	inferior conj	4211 Nov 01 12:13	9° <b>™</b> 10′28	-2°11'12
inferior conj	4210 Nov 17 19:15	25°M26'46	-1°09'42	minimum elong	4211 Nov 01 15:56	9°M00'10	2°09'45
minimum elong	4210 Nov 17 21:10	25°M21'00	1°08'53	morning rise	4211 Nov 07 21:27	3°M38'41	
asc. node	4210 Nov 21 05:03	21°M39'23		asc. node	4211 Nov 08 02:05	3°M33'32	
morning rise	4210 Nov 23 18:44	19° <b>M</b> .41'44		direct	4211 Nov 10 12:55	3°M01'41	
direct	4210 Nov 26 17:44	18°ML52'30		morning max el	4211 Nov 17 00:30	6°M29′02	18°02'22
morning max el	4210 Dec 03 09:06	22°M30'12	18°31'52		4211 Dec 02 21:16	0° <b>∡</b> ¹	
-	4210 Dec 09 09:50	0° <b>√</b>		morning set	4211 Dec 04 20:24	3° <b>∡</b> 16′02	
morning set	4210 Dec 23 15:53	22° <b>₹</b> 08'22		desc. node	4211 Dec 14 23:50	19° <b>∡</b> 54'53	
desc. node	4210 Dec 28 02:49	29° <b>҂</b> 13′26					
	4210 Dec 28 14:34	0°ರ		superior conj	4211 Dec 18 21:53	26° <b>⊀</b> 11'58	-0°26'45
				minimum elong	4211 Dec 18 18:34	25° <b>₹</b> 58'46	
superior conj	4211 Jan 08 14:01	17° <b>る</b> 17'21	-1°13'23	8	4211 Dec 21 07:20	0°る	
minimum elong	4211 Jan 08 05:25	16° <b>පි</b> 43'41		max. Earth dist.	4211 Dec 22 17:45	2°る15'54	1.45016 AU
max. Earth dist.	4211 Jan 08 22:20	17° <b>る</b> 49'58		evening rise	4212 Jan 04 05:19	21° <b>る</b> 42'24	10010110
man. Darm dist.	4211 Jan 16 16:21	0° <b>≈</b>	1.10207110	evening noe	4212 Jan 09 14:39	0°≈	
evening rise	4211 Jan 24 10:46	12°≈16'26		greatest brilliancy	4212 Jan 18 00:03	12°≈42'48	-0.7m
greatest brilliancy	4211 Feb 02 14:30	26°≈46'44	-0.8m	evening max el	4212 Jan 29 21:38	28°≈28'31	19°50'18
greatest offinality	4211 Feb 04 16:10	0° <b>∀</b>	0.0111	evening max er	4212 Jan 31 12:02	0° <b>∀</b>	19 20 10
evening max el	4211 Feb 15 15:45	14° <b>¥</b> 56'42	18°59'32	asc. node	4212 Feb 04 01:21	2° <b>∺</b> 20'09	
asc. node	4211 Feb 17 04:19	16°\(\frac{1}{22}\)'30	10 37 32	retrograde	4212 Feb 06 09:35	2° <b>)</b> (49'39	
retrograde	4211 Feb 22 12:02	18° <b>)</b> 48'14		evening set	4212 Feb 10 01:18	1° <b>)</b> (31'34	
evening set	4211 Feb 25 19:56	17° <b>)</b> 44'03		evening set	4212 Feb 11 19:27	30°R≈	
•	4211 Mar 03 10:07	11° <b>X</b> 58'54	3°28'14	inforior coni	4212 Feb 15 11:33	25°≈31'49	3°07'51
inferior conj	4211 Mar 03 10:07 4211 Mar 03 08:42	11 X 38 34 12° <b>X</b> 03'21	3°28'05	inferior conj	4212 Feb 15 11.33 4212 Feb 15 09:21	25°≈39'08	3°07'24
minimum elong min. Earth dist.	4211 Mar 05 00:41	9° <b>H</b> 57'34		minimum elong min. Earth dist.		23 ≈3908 24°≈11'54	0.66965 AU
		5° <b>\</b> 45'38	0.03626 AU		4212 Feb 16 11:33		0.00903 AU
morning rise	4211 Mar 08 21:06			morning rise	4212 Feb 20 17:12	19°≈17'49	
direct	4211 Mar 15 08:51	2° <b>升</b> 55′29		direct	4212 Feb 26 16:53	16°≈37'23	25020101
desc. node	4211 Mar 26 02:00	8° <b>¥</b> 26'45	26925119	morning max el	4212 Mar 09 16:56	23°≈47'16	25°20'01
morning max el	4211 Mar 28 07:57	10° <b>)</b> ₹35'54	26~35'18	desc. node	4212 Mar 11 23:02	26°≈10'35	
	4211 Apr 12 16:57	0° <b>Υ</b>			4212 Mar 15 06:01	0° <b>)</b> €	
	4211 Apr 30 22:18	0° <b>8</b>			4212 Apr 05 02:27	0°Υ 1.60 <b>Ω</b> 4010.5	
morning set	4211 May 03 07:35	4° <b>8</b> 27'05		morning set	4212 Apr 14 21:54	16° <b>Y</b> 49'05	1.0.00=0 :=:
max. Earth dist.	4211 May 07 11:40	12° <b>8</b> 31'42	1.34617 AU	max. Earth dist.	4212 Apr 18 14:12	23° <b>Y</b> 35'26	1.36378 AU
		4 4			4212 Apr 21 22:48	$9^{\circ}$ 8	
superior conj	4211 May 12 01:19	21° <b>8</b> 46'50		_			
minimum elong	4211 May 12 03:32	21° <b>8</b> 58'15	0°41'02	superior conj	4212 Apr 24 15:32	5° <b>8</b> 17'39	-1°10'27

minimum alana	4212 Apr. 24 10:10	50\226122	1900/40		4212 Apr. 12 20:22	0°B	
minimum elong	4212 Apr 24 19:19	5° <b>8</b> 36'23 20° <b>8</b> 12'28	1°09'49		4213 Apr 13 20:32	5° <b>8</b> 40'10	
asc. node	4212 May 02 00:38	_		evening rise asc. node	4213 Apr 16 17:56	9° <b>8</b> 51'53	
evening rise	4212 May 02 20:06	21° <b>႘</b> 51'04 0° <b>Ⅱ</b>		asc. node	4213 Apr 18 21:40	0°Ⅱ	
	4212 May 06 22:43 4212 May 20 05:59	0°П 20°П10'43	10046115		4213 May 01 02:49	0°Д 2°Д12'14	10052102
evening max el	,		19°46'15	evening max el	4213 May 03 03:39		18°53'02
retrograde	4212 May 30 04:44	25° <b>H</b> 01'28		retrograde	4213 May 11 12:57	6° <b>Ⅱ</b> 18'29	
evening set	4212 Jun 01 03:31	24° <b>∏</b> 51'07		evening set	4213 May 13 15:49	6° <b>Ⅱ</b> 03'47	1010110
desc. node	4212 Jun 07 22:13	22° <b>I</b> 104'06	002 (140	inferior conj	4213 May 21 16:49		1°10'10
inferior conj	4212 Jun 09 23:48	20° <b>Ⅱ</b> 49'06		minimum elong	4213 May 21 19:23		1°09'16
minimum elong	4212 Jun 09 22:08	20° <b>∏</b> 51'42	0°36'09		4213 May 24 03:51	30° <b>₹</b> 8	
min. Earth dist.	4212 Jun 12 04:54	19° <b>∐</b> 27'17	0.55468 AU	min. Earth dist.	4213 May 24 20:56	29° <b>8</b> 30'20	0.56935 AU
morning rise	4212 Jun 18 14:33	16° <b>Ⅱ</b> 20'39		desc. node	4213 May 25 19:16	28° <b>8</b> 52'59	
direct	4212 Jun 22 23:35	15° <b>Ⅱ</b> 38′20		morning rise	4213 May 29 19:42	26° <b>8</b> 41'22	
morning max el	4212 Jul 06 20:52	22° <b>Ⅱ</b> 32'49	24°28'52	direct	4213 Jun 04 03:51	25° <b>8</b> 32'51	
	4212 Jul 13 11:24	0			4213 Jun 15 01:24	$\Pi^{\circ}0$	
asc. node	4212 Jul 28 23:54	26° <b>©</b> 00'05		morning max el	4213 Jun 18 11:48	2° <b>Ⅱ</b> 59'33	26°03'18
	4212 Jul 30 22:40	$0 {\circ} \Omega$			4213 Jul 07 18:36	0ං <b>ම</b>	
morning set	4212 Aug 01 04:09	2° <b>Ω</b> 34'47		asc. node	4213 Jul 15 20:56	15° <b>5</b> 49'09	
				morning set	4213 Jul 16 15:19	17° <b>©</b> 25'53	
superior conj	4212 Aug 08 03:09	17° <b>Ω</b> 38'53	1°28'33		4213 Jul 22 10:19	$0^{\circ}\Omega$	
minimum elong	4212 Aug 08 01:00	17° <b>Ω</b> 27'15	1°28'20				
max. Earth dist.	4212 Aug 09 21:45	21° <b>Ω</b> 29'45	1.32902 AU	superior conj	4213 Jul 23 14:16	2° <b>Ω</b> 33'54	1°13'07
	4212 Aug 13 22:03	o° mp		minimum elong	4213 Jul 23 11:56	2° <b>Ω</b> 21′03	1°12'45
evening rise	4212 Aug 15 10:11	3° mp 05'38		max. Earth dist.	4213 Jul 24 06:44	4° <b>Ω</b> 04'34	1.32245 AU
C	4212 Aug 30 06:07	0∘ <u>⊽</u>		evening rise	4213 Jul 30 13:39	17° <b>Ω</b> 37'08	
desc. node	4212 Sep 03 21:31	7° <b>£</b> 03'25		Z .	4213 Aug 05 18:50	0° <b>m</b> )	
evening max el	4212 Sep 17 15:13	23° <b>Ω</b> 46'13	27°26'51	desc. node	4213 Aug 21 18:32	25° mp 48'25	
evening max er	4212 Sep 26 11:53	0°M	27 2031	dese. Hode	4213 Aug 25 01:51	0ಂ <del>⊽</del>	
retrograde	4212 Oct 01 07:27	1°M02'18		evening max el	4213 Aug 30 21:50		27°09'21
retrograde	4212 Oct 05 20:55	30°R <b>Ω</b>		retrograde	4213 Sep 13 18:22	13° <b>⊆</b> 30'39	27 07 21
evening set	4212 Oct 03 20:33 4212 Oct 08 11:40	28° <b>£</b> 27'26		evening set	4213 Sep 13 18:22 4213 Sep 20 20:56	13 <b>=</b> 30 39 11° <b>⊆</b> 13'54	
min. Earth dist.	4212 Oct 08 11:40 4212 Oct 12 03:25		0.63317 AU	min. Earth dist.	4213 Sep 24 12:12	8° <b>£</b> 30'19	0.61405 AU
inferior conj		23 <b>≗</b> 20 02 22° <b>£</b> 40'05		inferior conj		8 <b>2</b> 30 19 5° <b>2</b> 46'44	
3	4212 Oct 14 19:46			,	4213 Sep 27 14:41		
minimum elong	4212 Oct 15 01:06	22° <b>Ω</b> 26'49	3°10'45	minimum elong	4213 Sep 27 20:43	5° <b>£</b> 33'27	4°07'39
morning rise	4212 Oct 21 15:59	17° <b>Ω</b> 25'08		morning rise	4213 Oct 04 22:20	0° <b>£</b> 52'02	
direct	4212 Oct 24 02:31	16° <b>Ω</b> 56'45		direct	4213 Oct 07 06:44	0° <b>£</b> 29'11	
asc. node	4212 Oct 24 23:07	17° <b>Ω</b> 00'21		asc. node	4213 Oct 11 20:11	1° <b>≙</b> 58'48	
morning max el	4212 Oct 30 17:10	20° <b>Ω</b> 22'09	17°50'20	morning max el	4213 Oct 14 07:59	4° <b>≙</b> 01'07	17°56'41
	4212 Nov 06 22:02	0°M		morning set	4213 Oct 30 02:59	28° <b>≙</b> 51'59	
morning set	4212 Nov 16 02:17	15°M37'27			4213 Oct 30 17:50	0° <b>M</b>	
	4212 Nov 24 10:29	0°⊀					
				superior conj	4213 Nov 09 11:55	17° <b>M</b> 31'24	0°55'51
superior conj	4212 Nov 28 03:32	6° <b>∡</b> 12'36	0°18'53	minimum elong	4213 Nov 09 15:58	17° <b>M</b> 49'01	0°55'19
minimum elong	4212 Nov 28 05:28	6° <b>∡</b> ¹20'36	0°18'37		4213 Nov 16 20:26	0° <b>∡</b> ¹	
desc. node	4212 Nov 30 20:51	10° <b>∡</b> 741′07		max. Earth dist.	4213 Nov 17 00:30	0° <b>∡</b> 16'48	1.42509 AU
max. Earth dist.	4212 Dec 04 11:27	16° <b>∡</b> ³31'11	1.44059 AU	desc. node	4213 Nov 17 17:51	1° <b>≯</b> 128′10	
	4212 Dec 13 01:14	5°0		evening rise	4213 Nov 23 07:44	10° <b>∡</b> ¹26'58	
evening rise	4212 Dec 13 15:00	0°る53'07			4213 Dec 06 04:12	0°₹	
	4213 Jan 02 06:40	0° <b>≈</b>		evening max el	4213 Dec 25 17:09	25° <b>る</b> 35'18	22°09'29
evening max el	4213 Jan 11 22:07	12° <b>≈</b> 01′26	20°54'48		4213 Dec 31 03:03	0° <b>≈</b>	
retrograde	4213 Jan 20 07:40	16° <b>≈</b> 59′26		retrograde	4214 Jan 04 04:26	1°≈13'28	
asc. node	4213 Jan 20 22:23	16° <b>≈</b> 57'23		asc. node	4214 Jan 07 19:26	0° <b>≈</b> 03'26	
evening set	4213 Jan 24 08:42	15° <b>≈</b> 26′26			4214 Jan 07 21:30	30°Ŗ₹	
inferior conj	4213 Jan 29 17:08	9° <b>≈</b> 14'42	2°37'29	evening set	4214 Jan 08 16:23	29° <b>る</b> 24'48	
minimum elong	4213 Jan 29 14:40	9° <b>≈</b> 23'13	2°36'47	inferior conj	4214 Jan 14 00:45	23° <b>る</b> 04'28	1°58'50
min. Earth dist.	4213 Jan 30 04:03	8° <b>≈</b> 37'10	0.67682 AU	minimum elong	4214 Jan 13 22:29	23° <b>る</b> 12'19	1°58'03
morning rise	4213 Feb 03 20:28	3° <b>≈</b> 01'36		min. Earth dist.	4214 Jan 13 23:54	23° <b>る</b> 07'27	0.68001 AU
direct	4213 Feb 09 05:51	0° <b>≈</b> 39'00		morning rise	4214 Jan 19 04:27	16° <b>පි</b> 53'44	
morning max el	4213 Feb 20 01:34	7°≈05'57	23°53'06	direct	4214 Jan 23 23:00	14° <b>る</b> 53'06	
desc. node	4213 Feb 26 20:06	14°≈51'27	25 55 00	morning max el	4214 Feb 02 12:25	20°る31'10	22°24'26
aese. noue	4213 Mar 09 21:28	0° <b>)</b>		morning max ci	4214 Feb 10 13:32	20 <b>⊘</b> 31 10 0° <b>≈</b>	22 27 20
morning set	4213 Mar 27 14:37	28° <b>)</b> € 05'41		desc. node	4214 Feb 10 13:32 4214 Feb 13 17:08	0 ≈ 4°≈12'56	
morning set	4213 Mar 28 17:09	28 <b>π</b> 0341 0° <b>Υ</b>		desc. Houc	4214 Mar 03 03:23	4 ≈12 30 0° <b>\</b>	
may Earth dist		0° γ 4° <b>Υ</b> 45'22	1.38463 AU	morning set		8° <b>∺</b> 02'57	
max. Earth dist.	4213 Mar 31 10:14	4 143/22	1.30403 AU	morning set	4214 Mar 08 04:00		1 40620 411
	4012 A 07 17 12	10000000	1927/50	max. Earth dist.	4214 Mar 13 06:49	16° <b>¥</b> 32'45 0° <b>Ƴ</b>	1.40639 AU
superior conj	4213 Apr 07 17:13	18° <b>Y</b> '08'26			4214 Mar 20 24:00	U- Y	
minimum elong	4213 Apr 07 21:58	18° <b>Ƴ</b> 30'56	1 30 24				

superior conj	4214 Mar 21 01:49	0° <b>Υ</b> 08'11	-1°57'37	minimum elong	4215 Mar 02 13:05	11° <b>∺</b> 08'21	2°07'39
minimum elong	4214 Mar 21 06:00	0° <b>Υ</b> 27'00	1°57'20		4215 Mar 13 07:13	0° <b>Υ</b>	
evening rise	4214 Mar 31 05:31	18° <b>Y</b> 55'43		evening rise	4215 Mar 14 02:46	1° <b>Y</b> 27'37	
asc. node	4214 Apr 05 18:43	29° <b>Ƴ</b> 12'17		asc. node	4215 Mar 23 15:47	18° <b>Ƴ</b> 06'25	
	4214 Apr 06 05:24	0°8		evening max el	4215 Mar 30 20:53	27° <b>Y</b> ′48'56	18°07'08
evening max el	4214 Apr 16 09:48	14° <b>8</b> 48'22	18°20'11	-	4215 Apr 02 14:08	0°8	
retrograde	4214 Apr 23 16:08	18° <b>8</b> 25'10		retrograde	4215 Apr 06 11:50	1° <b>8</b> 12'18	
evening set	4214 Apr 26 01:40	18° <b>8</b> 02'32		evening set	4215 Apr 09 03:49	0° <b>8</b> 39'24	
inferior conj	4214 May 03 07:25	13° <b>8</b> 24'45	2°27'05		4215 Apr 10 11:44	30° <b>₹Ƴ</b>	
minimum elong	4214 May 03 11:03	13° <b>8</b> 17'07	2°26'09	inferior conj	4215 Apr 15 17:39	25° <b>Ƴ</b> 41'05	3°12'58
min. Earth dist.	4214 May 06 17:57	10° <b>8</b> 32'51	0.58940 AU	minimum elong	4215 Apr 15 20:13	25° <b>Ƴ</b> 34'52	3°12'34
morning rise	4214 May 10 17:30	7° <b>8</b> 49'40		min. Earth dist.	4215 Apr 18 21:52	22° <b>Y</b> 37'35	0.61134 AU
desc. node	4214 May 12 16:19	6° <b>8</b> 55'12		morning rise	4215 Apr 22 10:39	19° <b>Y</b> 46'12	
direct	4214 May 16 22:25	6° <b>8</b> 06'27		direct	4215 Apr 29 04:28	17° <b>Y</b> 29'27	
morning max el	4214 May 31 07:50	13° <b>8</b> 53'21	27°13'11	desc. node	4215 Apr 29 13:21	17° <b>Y</b> ′29'50	
	4214 Jun 13 04:24	$\Pi$ °0		morning max el	4215 May 13 10:00	25° <b>Y</b> ′26′21	27°48'28
	4214 Jun 29 23:32	$0$ $\circ$ $\odot$			4215 May 17 14:54	0°8	
morning set	4214 Jul 01 00:16	2° <b>©</b> 08'34			4215 Jun 06 14:56	$\Pi$ °0	
asc. node	4214 Jul 02 17:59	5° <b>©</b> 49'22		morning set	4215 Jun 15 05:04	16° <b>Ⅲ</b> 36′11	
				asc. node	4215 Jun 19 15:02	25° <b>∏</b> 55'29	
superior conj	4214 Jul 08 02:07	17° <b>©</b> 28'25	0°53'26	max. Earth dist.	4215 Jun 21 04:32	29° <b>Ⅱ</b> 18'55	1.32170 AU
minimum elong	4214 Jul 08 00:04	17° <b>©</b> 17'05	0°53'03		4215 Jun 21 12:04	$0$ $\circ$	
max. Earth dist.	4214 Jul 07 18:16	16° <b>©</b> 45'08	1.32001 AU			_	
	4214 Jul 13 19:31	$0$ ° $\Omega$		superior conj	4215 Jun 22 12:55	2° <b>©</b> 15'59	0°30'08
evening rise	4214 Jul 14 22:00	2° <b>Ω</b> 21'06		minimum elong	4215 Jun 22 11:36	2°508'44	0°29'50
	4214 Jul 29 18:32	0° m/y		evening rise	4215 Jun 29 09:04	17° <b>©</b> 10'03	
desc. node	4214 Aug 08 15:34	13° m 33'00			4215 Jul 05 16:44	$0$ ° $\Omega$	
evening max el	4214 Aug 12 21:50	18° Mp 02'59	26°18'39	evening max el	4215 Jul 25 14:39	29° <b>Ω</b> 01'28	24°59'39
retrograde	4214 Aug 26 21:07	25° m 12'29		desc. node	4215 Jul 26 12:35	29° <b>Ω</b> 52'34	
evening set	4214 Sep 02 10:31	23° Mp 26'35	0.50220.411		4215 Jul 26 15:53	0° m)	
min. Earth dist.	4214 Sep 06 11:00	20° m 51'33	0.59338 AU	retrograde	4215 Aug 08 13:21	6° Mp 04'46	
inferior conj	4214 Sep 09 17:28	18° Mp 21'16		evening set	4215 Aug 14 00:11	4° Mp 57'08	0.57252 AII
minimum elong	4214 Sep 09 22:06	18° Mp 12'20 13° Mp 49'08	4°52'34	min. Earth dist. inferior conj	4215 Aug 19 02:14	0° Mg 14'34	0.57352 AU
morning rise direct	4214 Sep 17 11:53 4214 Sep 19 21:18	13°My29'13		minimum elong	4215 Aug 22 00:57 4215 Aug 22 01:08	0°Mg14'14	
morning max el	4214 Sep 19 21:18 4214 Sep 27 17:37	17° Mp 17'05	18°22'47	minimum clong	4215 Aug 22 01:08 4215 Aug 22 09:40	30°RΩ	3 12 10
asc. node	4214 Sep 28 17:14	17 mg 17 03	10 2247	morning rise	4215 Aug 30 04:30	26° <b>Ω</b> 04'31	
asc. node	4214 Oct 06 19:51	0° <b>⊽</b>		direct	4215 Sep 01 18:15	25°Ω45'23	
morning set	4214 Oct 13 17:02	0 <b>—</b> 12° <b>Ω</b> 44'23		direct	4215 Sep 01 18:15 4215 Sep 10 18:39	0° m)	
morning set	4214 Oct 13 17.02	12		morning max el	4215 Sep 10 18:40	0° m) 00'03	19°10'05
superior conj	4214 Oct 22 19:49	29° <b>£</b> 58'41	1°21'49	asc. node	4215 Sep 15 14:16	5° mp 39'57	17 10 05
minimum elong	4214 Oct 22 23:29	0°M15'34		morning set	4215 Sep 27 16:23	27° m 03'31	
g	4214 Oct 22 20:06	0°M	1 21 20	morning sev	4215 Sep 29 03:52	0° <b>⊽</b>	
max. Earth dist.	4214 Oct 30 08:02	13°M20'34	1.40566 AU		orp		
evening rise	4214 Nov 03 20:02	20°M55'23		superior conj	4215 Oct 05 21:46	13° <b>≏</b> 19'08	1°37'18
desc. node	4214 Nov 04 14:52	22°M12'51		minimum elong	4215 Oct 05 23:58	13° <b>≏</b> 29'45	1°37'09
	4214 Nov 09 11:15	0°⊀		max. Earth dist.	4215 Oct 12 12:37	25° <b>≏</b> 44'00	1.38474 AU
	4214 Nov 30 08:36	5°0			4215 Oct 14 21:51	0° <b>M</b>	
evening max el	4214 Dec 08 08:03	9° <b>ප</b> 12'08	23°29'12	evening rise	4215 Oct 16 07:43	2°M28'25	
retrograde	4214 Dec 18 22:21	15° <b>る</b> 28'03		desc. node	4215 Oct 22 11:53	12°M51'36	
evening set	4214 Dec 23 22:45	13° <b>る</b> 23'29			4215 Nov 02 15:46	0° <b>∡</b> ¹	
asc. node	4214 Dec 25 16:30	11° <b>る</b> 41'07		evening max el	4215 Nov 20 20:59	22° <b>∡</b> ′53'45	24°47'33
inferior conj	4214 Dec 29 08:31	6° <b>る</b> 58'30	1°13'06	retrograde	4215 Dec 02 12:13	29° <b>х</b> 39'43	
minimum elong	4214 Dec 29 06:55	7° <b>る</b> 04'01	1°12'29	evening set	4215 Dec 08 02:13	27° <b>҂</b> ²20′01	
min. Earth dist.	4214 Dec 28 20:43	7° <b>る</b> 38'56	0.67957 AU	min. Earth dist.	4215 Dec 12 16:07	22° <b>₹</b> 09'25	0.67566 AU
morning rise	4215 Jan 03 15:01	0° <b>る</b> 51'57		asc. node	4215 Dec 12 13:31	22° <b>∡</b> 17'56	
	4215 Jan 04 22:17	30°₽ <b>,</b> ✓		inferior conj	4215 Dec 13 14:40	20° <b>х</b> 54'48	0°21'23
direct	4215 Jan 07 19:23	29° <b>₰</b> 14'05		minimum elong	4215 Dec 13 14:08	20° <b>х</b> 756′32	0°21'11
	4215 Jan 10 21:03	5°0		morning rise	4215 Dec 19 02:11	14° <b>₹</b> ′54'36	
morning max el	4215 Jan 16 04:51	4° <b>る</b> 05'32	21°02'08	direct	4215 Dec 22 17:44	13° <b>∡</b> °38′02	
desc. node	4215 Jan 31 14:09	24° <b>る</b> 03'27		morning max el	4215 Dec 30 05:04	17° <b>∡</b> ′51'43	19°51'50
	4215 Feb 04 15:04	0° <b>≈</b>			4216 Jan 08 20:00	0°ಕ	
morning set	4215 Feb 15 13:32	16° <b>≈</b> 42'45		desc. node	4216 Jan 18 11:10	14° <b>る</b> 15'25	
max. Earth dist.	4215 Feb 23 09:23	29°≈13'11	1.42630 AU	morning set	4216 Jan 25 09:33	24°る51'56	
	4215 Feb 23 20:50	0° <b>)</b> €			4216 Jan 28 17:06	0° <b>≈</b>	
	1015 ) 6 15 15	1101/0	2007/20	max. Earth dist.	4216 Feb 05 19:58	12° <b>≈</b> 46′04	1.44176 AU
superior conj	4215 Mar 02 12:13	11° <b>)</b> 04'40	-2~0/39				

direct

direct

direct

morning max el

morning set

4216 Dec 05 16:25

4216 Dec 10 12:44

4216 Dec 12 12:52

4217 Jan 01 07:56

4217 Jan 03 17:20

27°M59'55

1°**∡**747'19

3°る44'20

18°56'26

0°**∡** 

0°る

4217 Dec 06 11:45

4217 Dec 15 04:53

4217 Dec 22 05:12

4217 Dec 25 03:30

morning set

desc. node

0°**∡**7

0°정

14°**∡**°02'04

25° ₹ 19'55

superior conj	4217 Dec 30 09:40	8° <b>ප</b> 18'28	-0°54'10	morning set	4218 Nov 26 20:57	25°M43'25	
minimum elong	4217 Dec 30 02:55	7° <b>る</b> 51'56	0°53'19		4218 Nov 29 09:33	0° <b>∡</b> 7	
max. Earth dist.	4218 Jan 01 07:50	11° <b>る</b> 19'47	1.45254 AU	desc. node	4218 Dec 09 02:14	16° <b>≯</b> 04'03	
	4218 Jan 13 06:16	0° <b>≈</b>					
evening rise	4218 Jan 15 14:50	3° <b>≈</b> 41'12		superior conj	4218 Dec 10 01:28	17° <b>∡</b> 38′10	
greatest brilliancy	4218 Jan 26 22:07	21°≈16′11	-0.7m	minimum elong	4218 Dec 10 00:41	17° 🗷 35'00	0°06'35
·	4218 Feb 01 19:43	0° <b>∀</b>	10010112	behind sun begin	4218 Dec 09 15:19	16° 🖈 57'05	
evening max el asc. node	4218 Feb 08 05:50 4218 Feb 11 06:51	8° <b>₩</b> 01'11 10° <b>₩</b> 38'18	19°19'13	behind sun end max. Earth dist.	4218 Dec 10 10:04 4218 Dec 15 02:24	18° <b>₹</b> 12'51 25° <b>₹</b> 41'49	1.44687 AU
retrograde	4218 Feb 15 08:04	10 <b>X</b> 38 18 12° <b>X</b> 04'39		max. Earth dist.	4218 Dec 17 19:52	23 <b>X</b> ·4149	1.44087 AU
evening set	4218 Feb 18 19:05	10° <b>)</b> 54'39		evening rise	4218 Dec 26 03:45	12°る56'02	
inferior conj	4218 Feb 24 07:18	5° <b>₩</b> 02'43	3°20'57	evening rise	4219 Jan 06 09:29	0°≈	
minimum elong	4218 Feb 24 05:29	5° <b>)</b> €08'35	3°20'41	evening max el	4219 Jan 22 09:27	21° <b>≈</b> 33'45	20°16'16
min. Earth dist.	4218 Feb 25 15:26	3° <b>)</b> 18'43	0.66360 AU	asc. node	4219 Jan 29 03:53	26° <b>≈</b> 03'50	
	4218 Feb 28 10:26	30° <b>R</b> ≈		retrograde	4219 Jan 30 06:11	26° <b>≈</b> 10′21	
morning rise	4218 Mar 01 15:35	28° <b>≈</b> 48'42		evening set	4219 Feb 03 01:33	24° <b>≈</b> 46′14	
direct	4218 Mar 07 22:25	26° <b>≈</b> 01'38		inferior conj	4219 Feb 08 10:48	18° <b>≈</b> 41′00	2°56'05
	4218 Mar 16 16:27	0° <b>∀</b>		minimum elong	4219 Feb 08 08:26	18° <b>≈</b> 49'03	2°55'31
desc. node	4218 Mar 20 04:27	3° <b>)</b> 10′20		min. Earth dist.	4219 Feb 09 05:07	17°≈38'57	0.67316 AU
morning max el	4218 Mar 20 12:49	3° <b>)</b> €31'19	26°05'25	morning rise	4219 Feb 13 15:05	12°≈26'57	
	4218 Apr 09 16:06	0° <b>Υ</b> 27° <b>Υ</b> 09'20		direct	4219 Feb 19 08:49 4219 Mar 02 21:31	9°≈53'10	24942149
morning set	4218 Apr 25 16:44 4218 Apr 27 05:13	0° <b>8</b>		morning max el desc. node	4219 Mar 02 21:31 4219 Mar 07 01:28	16°≈46'53 21°≈21'10	24°43'48
max. Earth dist.	4218 Apr 29 15:03	_	1.35310 AU	desc. Hode	4219 Mar 13 21:11	21 <b>≈</b> 21 10	
max. Earth dist.	4210 Apr 27 15.05	4 03032	1.55510710		4219 Apr 02 15:42	0° <b>Υ</b>	
superior conj	4218 May 04 19:40	14° <b>8</b> 55'37	-0°53'54	morning set	4219 Apr 07 22:39	9° <b>Ƴ</b> 06'07	
minimum elong	4218 May 04 22:34	15° <b>8</b> 10'23	0°53'21	max. Earth dist.	4219 Apr 11 13:41	15° <b>Ƴ</b> 37'30	1.37232 AU
asc. node	4218 May 10 06:08	26° <b>8</b> 07'48			•		
	4218 May 12 03:02	$\Pi^{\circ}0$		superior conj	4219 Apr 18 05:02	28° <b>Ƴ</b> 10′51	-1°22'11
evening rise	4218 May 12 15:16	1° <b>Ⅱ</b> 02'53		minimum elong	4219 Apr 18 09:21	28° <b>Ƴ</b> 31'48	1°21'33
	4218 May 30 01:59	$0$ $\circ$ $\odot$			4219 Apr 19 03:23	0°8	
evening max el	4218 May 30 23:16	0° <b>9</b> 54'02	20°25'57	evening rise	4219 Apr 26 17:28	15° <b>8</b> 07'22	
retrograde	4218 Jun 10 22:36	6°515'42		asc. node	4219 Apr 27 03:12	15° <b>8</b> 55'52	
evening set	4218 Jun 12 22:26	6°505'49			4219 May 04 13:29	0°Ⅱ 12°Ⅲ22154	10021110
desc. node	4218 Jun 16 03:40	5°511'48	1045!56	evening max el	4219 May 13 14:45	12° <b>Ⅲ</b> 32'54 17° <b>Ⅲ</b> 02'53	19°21'10
inferior conj minimum elong	4218 Jun 22 03:04 4218 Jun 21 22:06	2° <b>©</b> 08'03 2° <b>©</b> 15'18	1°44'08	retrograde evening set	4219 May 22 20:36 4219 May 24 20:23	16° <b>I</b> 51'16	
min. Earth dist.	4218 Jun 23 11:42	1°9520'35	0.54980 AU	inferior conj	4219 Jun 02 08:54	10 <b>Ⅱ</b> 31 10	0°11'36
mm. Earth dist.	4218 Jun 25 21:39	30°R∏	0.5 1700 110	minimum elong	4219 Jun 02 09:23	12° <b>I</b> I43'03	
morning rise	4218 Jun 30 20:44	27° <b>Ⅲ</b> 57'19		transit middle	4219 Jun 02 09:23	12° <b>Ⅱ</b> 43'03	
direct	4218 Jul 04 17:35	27° <b>II</b> 25'00		transit begin	4219 Jun 02 06:41	12° <b>Ⅱ</b> 47'30	
	4218 Jul 13 02:15	0°9		transit end	4219 Jun 02 12:06	12° <b>Ⅲ</b> 38'36	
morning max el	4218 Jul 18 03:45	3° <b>©</b> 55'50	23°29'30	desc. node	4219 Jun 03 00:41	12° <b>Ⅱ</b> 17'52	
	4218 Aug 05 03:49	$0^{\circ}\Omega$		min. Earth dist.	4219 Jun 05 02:06	10° <b>I</b> 57′26	0.56004 AU
asc. node	4218 Aug 06 05:22	2° <b>Ω</b> 03'50		morning rise	4219 Jun 10 19:27	7° <b>Ⅱ</b> 59'48	
morning set	4218 Aug 10 18:38	11° <b>Ω</b> 21'39		direct	4219 Jun 15 14:18	7° <b>Ⅱ</b> 07'29	
	4210 4 17 10 02	260 027110	1025110	morning max el	4219 Jun 29 17:33	14° <b>Ⅱ</b> 18'07	25°11'04
superior conj minimum elong	4218 Aug 17 19:03 4218 Aug 17 17:15	26° <b>Ω</b> 27'10 26° <b>Ω</b> 17'27		asc. node	4219 Jul 12 03:16 4219 Jul 24 02:26	0°ഇ 21° <b>ഇ</b> 43'50	
minimum ciong	4218 Aug 19 10:48	0° m	1 33 09	morning set	4219 Jul 26 06:20	26°914'40	
max. Earth dist.	4218 Aug 20 06:12	1° Mp 43'00	1.33462 AU	morning set	4219 Jul 28 00:29	0°Ω	
evening rise	4218 Aug 25 08:36	12° <b>m</b> 13'33	1.55 102 110		.219 001 20 00.29	· • • • • • • • • • • • • • • • • • • •	
<i>y</i>	4218 Sep 03 21:30	0∘ <u>⊽</u>		superior conj	4219 Aug 02 04:57	11° <b>Ω</b> 19'39	1°22'35
desc. node	4218 Sep 12 02:58	13° <b>≏</b> 16'32		minimum elong	4219 Aug 02 02:41	11° <b>Ω</b> 07'11	1°22'16
	4218 Sep 24 21:35	0°M		max. Earth dist.	4219 Aug 03 11:54	14° <b>Ω</b> 08'39	1.32569 AU
evening max el	4218 Sep 28 09:55	3°M36'23	27°22'04	evening rise	4219 Aug 09 08:10	26° <b>Ω</b> 34'25	
retrograde	4218 Oct 11 22:49	10°M54'47			4219 Aug 11 00:34	0° <b>m</b>	
evening set	4218 Oct 19 00:08	8°M14'45			4219 Aug 28 06:45	0∘ <b>ত</b>	
min. Earth dist.	4218 Oct 22 18:09	4°M49'36		desc. node	4219 Aug 29 23:59	2° <b>£</b> 27'49	27022127
inferior conj	4218 Oct 25 03:47	2°M17'01		evening max el	4219 Sep 10 19:23		27°23'34
minimum elong	4218 Oct 25 08:14	2°M05'12	Z-33'48	retrograde	4219 Sep 24 14:06	23° <b>£</b> 45′58	
morning rise	4218 Oct 27 09:27 4218 Oct 31 17:37	30° <b>₹</b> Ω 26°Ω52'13		evening set min. Earth dist.	4219 Oct 01 18:32 4219 Oct 05 09:23	21° <b>Ω</b> 17'27	0.62528 AU
asc. node	4218 Nov 02 04:35	26° <b>£</b> 25'28		inferior conj	4219 Oct 08 06:23	16 <b>=</b> 21 16 15° <b>£</b> 38'02	
direct	4218 Nov 03 06:33	26° <b>⊆</b> 19'27		minimum elong	4219 Oct 08 12:10	15° <b>⊆</b> 24'18	
morning max el	4218 Nov 09 18:43	29° <b>Ω</b> 45'07	17°55'02	morning rise	4219 Oct 15 07:27	10° <b>£</b> 31'10	-
Ç	4218 Nov 10 00:36	0° <b>M</b> .		direct	4219 Oct 17 16:35	10° <b>≏</b> 05'36	

1	4210 0 4 20 01 20	100 0 21152		1	4220 C 20 15 45	220 m- 2 (100	
asc. node	4219 Oct 20 01:39	10° <b>£</b> 31'53	1,505,012,0	direct	4220 Sep 29 15:45	23° Mp 26'00	
morning max el	4219 Oct 24 10:58	13° <b>Ω</b> 33'07	1/50/39	asc. node	4220 Oct 05 22:43	26° Mp 06'22	10005117
	4219 Nov 04 16:25	0°M		morning max el	4220 Oct 06 23:57	27° m 03'37	18°05'17
morning set	4219 Nov 09 11:38	8°M29'48			4220 Oct 09 14:54	0∘ <b>ত</b>	
				morning set	4220 Oct 22 18:43	22° <b>△</b> 03'12	
superior conj	4219 Nov 20 18:30	28°M12'09	0°35'51		4220 Oct 27 01:07	0° <b>M</b>	
minimum elong	4219 Nov 20 21:44	28°M25'46	0°35'24				
	4219 Nov 21 20:06	0°⊀		superior conj	4220 Nov 01 13:34	10°M02'26	1°08'12
desc. node	4219 Nov 25 23:15	6° <b>₹</b> 51'06		minimum elong	4220 Nov 01 17:41	10°M20'44	1°07'42
max. Earth dist.	4219 Nov 27 18:01	9° <b>∡</b> ¹45'15	1.43462 AU	max. Earth dist.	4220 Nov 09 05:12	23°M16'33	1.41722 AU
evening rise	4219 Dec 05 14:28	22° <b>≯</b> 12'00		desc. node	4220 Nov 11 20:17	27° <b>™</b> 38'10	
	4219 Dec 10 16:25	0°ಕ			4220 Nov 13 07:02	0° <b>∡</b>	
	4219 Dec 31 19:38	0° <b>≈</b>		evening rise	4220 Nov 14 14:41	2° <b>∡</b> 107'49	
evening max el	4220 Jan 05 07:37	5° <b>≈</b> 07'26	21°25'42		4220 Dec 03 02:47	0°₹	
retrograde	4220 Jan 14 03:50	10° <b>≈</b> 22'15		evening max el	4220 Dec 18 00:52	18° <b>る</b> 43'28	22°43'04
asc. node	4220 Jan 16 00:56	10° <b>≈</b> 03'06		retrograde	4220 Dec 27 23:24	24° <b>る</b> 37'33	
evening set	4220 Jan 18 09:16	8° <b>≈</b> 42'51		evening set	4221 Jan 01 16:35	22° <b>る</b> 42'03	
inferior conj	4220 Jan 23 17:30	2° <b>≈</b> 27'16	2°21'59	asc. node	4221 Jan 01 21:58	22° <b>る</b> 30'37	
minimum elong	4220 Jan 23 15:04	2° <b>≈</b> 35'44	2°21'15	inferior conj	4221 Jan 07 01:24	16° <b>る</b> 19'28	1°40'13
min. Earth dist.	4220 Jan 23 23:21	2° <b>≈</b> 07'01	0.67867 AU	minimum elong	4221 Jan 06 23:22	16° <b>පි</b> 26'31	1°39'29
	4220 Jan 25 12:42	30°R₹		min. Earth dist.	4221 Jan 06 19:50	16° <b>⋜</b> 38'46	0.68037 AU
morning rise	4220 Jan 28 20:40	26° <b>ප</b> 14'56		morning rise	4221 Jan 12 06:02	10° <b>る</b> 10'29	
direct	4220 Feb 02 23:50	24° <b>පි</b> 01'07		direct	4221 Jan 16 18:31	8° <b>る</b> 19'30	
	4220 Feb 13 03:31	0° <b>≈</b>		morning max el	4221 Jan 25 19:14	13° <b>る</b> 36'13	21°48'10
morning max el	4220 Feb 13 06:27	0° <b>≈</b> 07'22	23°14'57	desc. node	4221 Feb 07 19:32	29° <b>る</b> 56'05	
desc. node	4220 Feb 21 22:30	10° <b>≈</b> 20'55			4221 Feb 07 20:38	0° <b>≈</b>	
	4220 Mar 06 17:57	0° <b>∀</b>		morning set	4221 Feb 27 05:06	29° <b>≈</b> 11'31	
morning set	4220 Mar 19 04:14	19° <b>)</b> 49'51		C	4221 Feb 27 17:12	0° <b>∀</b>	
max. Earth dist.	4220 Mar 23 08:38	26° <b>∺</b> 58'22	1.39398 AU	max. Earth dist.	4221 Mar 05 07:49	9° <b>₩</b> 09'41	1.41537 AU
	4220 Mar 25 02:08	$0^{\circ}\mathbf{\Upsilon}$					
				superior conj	4221 Mar 12 23:48	22° <b>)</b> 15'48	-2°03'29
superior conj	4220 Mar 31 00:03	10° <b>Ƴ</b> 41'30	-1°46'42	minimum elong	4221 Mar 13 02:58	22° <b>)</b> €29'43	2°03'22
minimum elong	4220 Mar 31 04:49	11° <b>Ƴ</b> 03'37	1°46'14	Ü	4221 Mar 17 08:04	$_0$ ° $\Upsilon$	
evening rise	4220 Apr 09 11:20	28° <b>Ƴ</b> 42'55		evening rise	4221 Mar 23 17:18	11° <b>Ƴ</b> 41'05	
<i>y</i>	4220 Apr 10 03:21	0°8		asc. node	4221 Mar 30 21:17	24° <b>Y</b> '37'57	
asc. node	4220 Apr 13 00:15	5° <b>8</b> 27'52			4221 Apr 03 03:34	0°8	
evening max el	4220 Apr 25 16:31	24° <b>8</b> 50'27	18°36'37	evening max el	4221 Apr 09 01:08	7° <b>8</b> 37'54	18°12'11
retrograde	4220 May 03 12:38	28° <b>8</b> 41'40		retrograde	4221 Apr 15 23:27	11° <b>8</b> 07'07	
evening set	4220 May 05 18:27	28° <b>8</b> 23'50		evening set	4221 Apr 18 11:52	10° <b>8</b> 40'13	
inferior conj	4220 May 13 10:58	23° <b>8</b> 57'45	1°46'47	inferior conj	4221 Apr 25 10:19	5° <b>8</b> 53'16	2°50'05
minimum elong	4220 May 13 14:21	23° <b>8</b> 51'15	1°45'44	minimum elong	4221 Apr 25 13:39	5° <b>8</b> 45'46	2°49'22
min. Earth dist.	4220 May 16 19:49	21° <b>8</b> 24'04	0.57750 AU	min. Earth dist.	4221 Apr 28 19:13	2° <b>8</b> 53'36	0.59874 AU
desc. node	4220 May 19 21:43	19° <b>8</b> 22'55	0.57750110	morning rise	4221 May 02 12:58	0° <b>8</b> 08'35	0.57071710
morning rise	4220 May 21 07:03	18° <b>8</b> 39'26		morning rise	4221 May 02 12:30 4221 May 02 18:48	30°RY	
direct	4220 May 27 01:04	17° <b>8</b> 16'28		desc. node	4221 May 06 18:45	28° <b>Υ</b> 24'40	
morning max el	4220 Jun 10 09:59	24° <b>8</b> 52'34	26°36'48	direct	4221 May 09 00:24	28° <b>Υ</b> 10'42	
morning max er	4220 Jun 15 03:15	0°Ⅱ	20 30 40	uncer	4221 May 15 13:28	0°8	
	4220 Jul 04 05:46	0°.©		morning max el	4221 May 23 08:38	6° <b>8</b> 02'05	27°32'54
morning set	4220 Jul 09 16:46	11° <b>©</b> 02'39		morning max or	4221 Jun 10 06:21	0°Ⅱ	27 3231
asc. node	4220 Jul 09 23:31	11°538'17		morning set	4221 Jun 24 00:09	25° <b>∏</b> 39'39	
ase. Hode	4220 Jul 07 25.51	11 30 17		morning sec	4221 Jun 26 01:34	0°95	
superior conj	4220 Jul 16 16:36	26°515'09	1°05'15	asc. node	4221 Jun 26 20:33	1°5541'36	
minimum elong	4220 Jul 16 14:20	26°902'37	1°04'52	max. Earth dist.	4221 Jun 30 10:07	9° <b>5</b> 27'41	1.32022 AU
max. Earth dist.	4220 Jul 16 22:27	26°547'26	1.32091 AU	max. Lartii dist.	4221 Juli 30 10.07	) 32/41	1.52022 AO
max. Earth dist.	4220 Jul 18 09:24	0°Ω	1.52071 AU	superior conj	4221 Jul 01 04:10	11° <b>©</b> 07'07	0°43'57
evening rise	4220 Jul 23 14:01	11° <b>Ω</b> 12'25		minimum elong	4221 Jul 01 02:22	10°957'13	0°43'35
evening rise	4220 Aug 02 05:39	0° m		evening rise	4221 Jul 07 23:44	25°\$59'20	0 43 33
desc. node	4220 Aug 15 21:00	20° Mp 49'52		evening rise	4221 Jul 09 21:36	0°Ω	
evening max el	4220 Aug 13 21:00 4220 Aug 22 23:45	20 m/49 32 28° m/44'47	26°51'53		4221 Jul 27 04:16	0°Mp	
Cronning must of	4220 Aug 24 08:47	26 il/44 47 0° <b>Ω</b>	20 51 55	desc. node	4221 Jul 27 04:10 4221 Aug 02 18:03	8°Mp01'50	
retrograde	4220 Aug 24 08:47 4220 Sep 05 21:36	0 <b>==</b> 5° <b>£</b> 55'29		evening max el	4221 Aug 02 18:03 4221 Aug 04 20:34	10° Mp 09'12	25°47'58
evening set	4220 Sep 03 21:36 4220 Sep 12 20:04	3° <b>£</b> 50'51		retrograde	4221 Aug 14 20:34 4221 Aug 18 19:46	10 mg 09 12 17° mg 16'16	23 7/30
min. Earth dist.	4220 Sep 12 20:04 4220 Sep 16 13:52	1° <b>£</b> 12'55	0.60530 AU	evening set	4221 Aug 18 19.46 4221 Aug 24 23:46	15° Mg 46'07	
mm. Latin dist.	4220 Sep 16 13:32 4220 Sep 18 01:29	1 == 12 33 30°R, Mp	0.00 <i>33</i> 0 AU	min. Earth dist.	4221 Aug 24 23.46 4221 Aug 29 08:43	13°Mp09'30	0.58465 AU
inferior conj	4220 Sep 18 01.29 4220 Sep 19 18:56	28° Mp 33'02	-4°30'04	inferior conj	4221 Aug 29 08.43 4221 Sep 01 13:46	13 11/09 30 10° Mp 50'52	
minimum elong	4220 Sep 19 18:30 4220 Sep 20 00:42	28° m) 21'01		minimum elong	4221 Sep 01 13:46 4221 Sep 01 16:55	10° Mp 45'11	5°04'59
morning rise	4220 Sep 20 00.42 4220 Sep 27 07:15	23° Mp 47'24	T 20 J1	morning rise	4221 Sep 01 10:33 4221 Sep 09 12:19	6° Mg 28'33	5 07 57
morning 115¢	1220 Sep 21 01.13	4∠/+پرا دے		morning 1150	7221 Sep 07 12.19	∪ 11 <b>y</b> 20 33	

direct	4221 Sep 11 23:23	6° Mp 09′05		morning max el	4222 Sep 03 02:50	22° <b>Ω</b> 32'41	19°36'56
morning max el	4221 Sep 20 06:17	10° Mp 06'30	18°40'20	morning man vi	4222 Sep 09 06:13	0°m	1, 5000
asc. node	4221 Sep 22 19:45	12° m 53'49		asc. node	4222 Sep 09 16:47	0° m 39'30	
	4221 Oct 03 08:35	$0 \circ \overline{\mathbf{v}}$		morning set	4222 Sep 20 15:21	20° m 35'18	
morning set	4221 Oct 06 13:08	6° <b>Ω</b> 08'16		Č	4222 Sep 25 07:08	0∘ <u>⊽</u>	
-					•		
superior conj	4221 Oct 15 05:49	22° <b>≏</b> 54'25	1°29'35	superior conj	4222 Sep 28 13:50	6° <b>£</b> 32'41	1°41'02
minimum elong	4221 Oct 15 08:56	23° <b>ჲ</b> 09'03	1°29'18	minimum elong	4222 Sep 28 15:19	6° <b>₽</b> 39'59	1°40'59
	4221 Oct 19 01:54	0°M₊		max. Earth dist.	4222 Oct 04 15:43	18° <b>≏</b> 11'51	1.37594 AU
max. Earth dist.	4221 Oct 22 11:26	6° <b>™</b> 04'05	1.39678 AU	evening rise	4222 Oct 08 09:52	25° <b>≏</b> 01'34	
evening rise	4221 Oct 26 12:51	13°M03'19			4222 Oct 11 06:05	0°M	
desc. node	4221 Oct 29 17:19	18°M20'57		desc. node	4222 Oct 16 14:21	8°M55'23	
	4221 Nov 06 02:09	0° <b>∡</b> 7			4222 Oct 30 17:12	0° <b>⊼</b>	
	4221 Nov 28 08:08	0°る	2.4002150	evening max el	4222 Nov 13 02:56	16° <b>₹</b> 03'57	25°18'44
evening max el	4221 Nov 30 14:36	2°る22'15 8°る51'58	24°02′59	retrograde	4222 Nov 25 03:44	23°×700'37	
retrograde	4221 Dec 11 15:43	6° <b>ろ</b> 40'30		evening set min. Earth dist.	4222 Nov 30 23:38	20° <b>₹</b> 34'49 15° <b>₹</b> 39'07	0.67289 AU
evening set asc. node	4221 Dec 16 21:55 4221 Dec 19 19:00	3° <b>る</b> 37'57		inferior conj	4222 Dec 05 10:16 4222 Dec 06 13:33	13 <b>x</b> 3907 14° <b>x</b> 10'39	
min. Earth dist.	4221 Dec 19 19:00 4221 Dec 21 16:14		0.67839 AU	minimum elong	4222 Dec 06 13:36 4222 Dec 06 13:36	14 <b>x</b> ·1039 14° <b>x</b> <sup>7</sup> 10′29	0°02'05
inferior conj	4221 Dec 21 10:14 4221 Dec 22 08:41	0°る14'51		transit middle	4222 Dec 06 13:36 4222 Dec 06 13:36	14 × 10 29 14° × 10'29	0°02'05
minimum elong	4221 Dec 22 08:41 4221 Dec 22 07:29	0°る1451		transit begin	4222 Dec 06 10:50	14° 🖈 10'29	0 02 03
minimum clong	4221 Dec 22 07:29	30°R. <b>✓</b>	0 31 23	transit end	4222 Dec 06 16:30 4222 Dec 06 16:22	14° <b>х</b> 1728	
morning rise	4221 Dec 27 17:05	24° <b>₹</b> 10'59		asc. node	4222 Dec 06 16:01	14° <b>×</b> <sup>7</sup> 02'41	
direct	4221 Dec 31 15:47	22° <b>×</b> <sup>7</sup> 42'38		morning rise	4222 Dec 10 10:01	8°×713'59	
morning max el	4222 Jan 08 15:01	27°×16'29	20°30'34	direct	4222 Dec 15 14:21	7° <b>₹</b> 05'51	
	4222 Jan 11 03:21	0°る		morning max el	4222 Dec 22 18:39	11° <b>×</b> <sup>7</sup> 07'21	19°26'20
desc. node	4222 Jan 25 16:34	19° <b>る</b> 56'50		greatest brilliancy	4223 Jan 04 23:47	28° <b>∡</b> ⁴43'42	-0.7m
	4222 Feb 01 08:56	0° <b>≈</b>		,	4223 Jan 05 20:07	0°ರ	
morning set	4222 Feb 06 06:17	7° <b>≈</b> 31'04		desc. node	4223 Jan 12 13:35	10° <b>る</b> 15'49	
max. Earth dist.	4222 Feb 15 14:17	22° <b>≈</b> 15'49	1.43358 AU	morning set	4223 Jan 16 04:16	15° <b>る</b> 50'15	
	4222 Feb 20 08:06	0° <b>)</b> €			4223 Jan 25 06:39	0° <b>≈</b>	
				max. Earth dist.	4223 Jan 29 03:18	6° <b>≈</b> 04'38	1.44642 AU
superior conj	4222 Feb 21 23:29	2° <b>)</b> 43′20					
minimum elong	4222 Feb 21 22:01	2° <b>)</b> €37'13	2°07'20	superior conj	4223 Feb 01 21:36	12° <b>≈</b> 03′21	-1°53'11
evening rise	4222 Mar 06 07:12	23° <b>¥</b> 52′55		minimum elong	4223 Feb 01 14:10	11° <b>≈</b> 33'42	1°52'40
	4222 Mar 09 18:50	0° <b>Υ</b>			4223 Feb 12 22:12	0° <b>∀</b>	
asc. node	4222 Mar 17 18:19	13° <b>Y</b> 18′59		evening rise	4223 Feb 16 00:36	5° <b>)</b> €09'37	
evening max el	4222 Mar 23 13:16	20° <b>Y</b> 46′27	18°07'19		4223 Mar 03 14:13	0° <b>Υ</b>	
retrograde	4222 Mar 30 01:06	24°Υ09'01		asc. node	4223 Mar 04 15:19	1° <b>Υ</b> 21'20	
evening set	4222 Apr 01 19:33	23° <b>Y</b> 31'24	202422	evening max el	4223 Mar 07 01:54	4°Υ07'44	18°21'19
inferior conj	4222 Apr 08 03:49		3°24'22	retrograde	4223 Mar 13 12:53	7° <b>Υ</b> 37'02	
minimum elong	4222 Apr 08 05:40	18° <b>Υ</b> 19'39	3°24'09	evening set	4223 Mar 16 13:17	6°Υ47'34	2025154
min. Earth dist.	4222 Apr 11 02:49	15°Υ23'25 12°Υ23'33	0.62043 AU	inferior conj	4223 Mar 22 11:15	1° <b>Y</b> 21'52 1° <b>Y</b> 21'29	
morning rise direct	4222 Apr 14 14:12 4222 Apr 21 10:23	9° <b>Υ</b> 55'28		minimum elong	4223 Mar 22 11:22 4223 Mar 23 15:42	1 <b>1</b> 21 29 30° <b>₹</b>	3 33 33
desc. node	4222 Apr 23 15:46	10° <b>Υ</b> '09'57		min. Earth dist.	4223 Mar 24 19:42	28° <b>)</b> (40'48	0.64012 AU
morning max el	4222 May 05 13:30	17° <b>Υ</b> 54'31	27°52'06	morning rise	4223 Mar 28 08:38	25° <del>)(</del> 12'42	0.04012 AC
morning max or	4222 May 15 16:08	0° <b>8</b>	2, 2200	direct	4223 Apr 04 04:49	22° <b>H</b> 26'16	
	4222 Jun 03 00:36	0°II		desc. node	4223 Apr 10 12:48	24° <b>H</b> 24'06	
morning set	4222 Jun 08 02:33	9° <b>∏</b> 59′29			4223 Apr 17 12:43	$_{0}$ $^{\circ}$ $\Upsilon$	
asc. node	4222 Jun 13 17:35	21° <b>∏</b> 49′26		morning max el	4223 Apr 17 22:11	0° <b>Y</b> 23'34	27°34'19
max. Earth dist.	4222 Jun 13 18:49	21° <b>Ⅱ</b> 56′07	1.32367 AU		4223 May 09 16:48	$9^{\circ}$ 8	
				morning set	4223 May 22 21:26	23° <b>8</b> 53'26	
superior conj	4222 Jun 15 13:58	25° <b>Ⅱ</b> 50′16	0°19'17		4223 May 25 22:15	$\Pi^{\circ}0$	
minimum elong	4222 Jun 15 13:05	25° <b>∏</b> 45′26	0°19'05	max. Earth dist.	4223 May 27 20:30	3° <b>∏</b> 59′22	1.33148 AU
	4222 Jun 17 11:40	0°€					
evening rise	4222 Jun 22 11:20	10° <b>©</b> 48'41		superior conj	4223 May 30 20:05	10° <b>Ⅱ</b> 17'48	
	4222 Jul 02 06:11	$0^{\circ}\Omega$		minimum elong	4223 May 30 20:29	10° <b>Ⅱ</b> 19'58	0°07'58
evening max el	4222 Jul 17 10:43	20° <b>Ω</b> 50'35	24°20'09	behind sun begin	4223 May 30 15:47	9° <b>∏</b> 54'51	
desc. node	4222 Jul 20 15:03	23° <b>Ω</b> 35'57		behind sun end	4223 May 31 01:12	10° <b>Ⅱ</b> 45'07	
retrograde	4222 Jul 31 06:59	27° <b>Ω</b> 49'37		asc. node	4223 May 31 14:36	11° <b>Ⅱ</b> 56'55	
evening set	4222 Aug 05 03:13	26° <b>Ω</b> 57'17	0.5000= :==	evening rise	4223 Jun 06 22:55	25° <b>Ⅱ</b> 33'33	
min. Earth dist.	4222 Aug 10 21:34	24° <b>Ω</b> 03'06	0.56607 AU		4223 Jun 09 01:57	0° <b>©</b>	
inferior conj	4222 Aug 13 12:29	22° <b>Ω</b> 24'04			4223 Jun 27 18:55	0°N	220 4210 4
minimum elong	4222 Aug 13 10:03	22° <b>Ω</b> 27'56	5~08'34	evening max el	4223 Jun 29 00:10	1° <b>Ω</b> 14'03	22~43'04
morning rise	4222 Aug 21 19:28	18° <b>Ω</b> 22'37		desc. node	4223 Jul 07 12:03	6° <b>Ω</b> 57'43	
direct	4222 Aug 24 11:49	18° <b>Ω</b> 03'24		retrograde	4223 Jul 12 05:39	7° <b>Ω</b> 49'06	

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evening set	4223 Jul 15 13:23	7° <b>Ω</b> 24'53		retrograde	4224 Jun 21 18:53	17° <b>©</b> 43'33	
min. Earth dist.	4223 Jul 23 08:18	3° <b>Ω</b> 59′12	0.55295 AU	desc. node	4224 Jun 23 09:04	17° <b>5</b> 37'38	
inferior conj	4223 Jul 24 16:31	3° <b>£</b> 13′06	-4°25'24	evening set	4224 Jun 24 01:22	17° <b>©</b> 31'36	
minimum elong	4223 Jul 24 08:44	3° <b>Ω</b> 24'17	4°23'46	inferior conj	4224 Jul 03 10:13	13° <b>©</b> 33'22	-2°53'06
	4223 Jul 31 03:25	30° <b>₹</b> 5		minimum elong	4224 Jul 03 02:33	13° <b>5</b> 544'07	2°50'36
morning rise	4223 Aug 02 06:12	29° <b>©</b> 22'17		min. Earth dist.	4224 Jul 03 19:17	13° <b>©</b> 20'38	0.54824 AU
direct	4223 Aug 05 06:15	29° <b>©</b> 01'24		morning rise	4224 Jul 12 04:06	9° <b>©</b> 35'53	
	4223 Aug 10 03:11	$0$ $^{\circ}$ $\Omega$		direct	4224 Jul 15 15:50	9° <b>©</b> 09'36	
morning max el	4223 Aug 16 11:36	4° <b>Ω</b> 14'35	20°54'49	morning max el	4224 Jul 28 09:11	15° <b>©</b> 12'24	22°30'11
asc. node	4223 Aug 27 13:49	19° <b>Ω</b> 10′05			4224 Aug 08 19:05	$0^{\circ}\Omega$	
	4223 Sep 02 08:19	0° <b>™</b>		asc. node	4224 Aug 13 10:52	8° <b>Ω</b> 14'34	
morning set	4223 Sep 04 22:43	5° Mp 17'16		morning set	4224 Aug 19 09:09	20° <b>Ω</b> 08'03	
	1000 0 10 00 05	200 1 1111	101400		4224 Aug 24 00:25	0° <b>m</b>	
superior conj	4223 Sep 12 09:05	20° mp 44'11	1°44'08		1224 4 26 12 05	50 m- 10111	1040115
minimum elong	4223 Sep 12 08:59	20° <b>™</b> 43'41 0° <b>⊆</b>	1°44'08	superior conj	4224 Aug 26 12:05	5°Mp18'11	1°40'15
max. Earth dist.	4223 Sep 16 23:29	0° <b>£</b> 03'26	1.35707 AU	minimum elong max. Earth dist.	4224 Aug 26 10:46 4224 Aug 29 17:11	5°Mp11'13	1°40'10 1.34168 AU
	4223 Sep 17 00:11 4223 Sep 21 02:23	0 <b>≥</b> 03 20 7° <b>£</b> 54'37	1.55/0/ AU		4224 Aug 29 17.11 4224 Sep 03 09:59	12° Mp 02'25	1.34108 AU
evening rise desc. node	4223 Sep 21 02.23 4223 Oct 03 11:22	7 <b>2</b> 34 37 29° <b>2</b> 16'42		evening rise	4224 Sep 03 09.39 4224 Sep 07 21:31	21° <b>™</b> 30'21 0° <b>≏</b>	
desc. node	4223 Oct 03 11:22 4223 Oct 03 22:18	0°M		desc. node	4224 Sep 19 08:23	0 <b>=</b> 19° <b>£</b> 18'09	
evening max el	4223 Oct 05 22:18 4223 Oct 26 15:30	29°M45'57	26°22'52	dese. node	4224 Sep 26 18:13	0°M	
evening max er	4223 Oct 26 21:21	0° <b>x</b> <sup>7</sup>	20 22 32	evening max el	4224 Oct 08 04:10	13°ML19'04	27°07'47
retrograde	4223 Nov 08 10:43	6° <b>≯</b> 758'00		retrograde	4224 Oct 21 11:50	20°M36'26	27 07 47
evening set	4223 Nov 14 19:55	4° <b>∡</b> °21'34		evening set	4224 Oct 28 08:28	17°M55'23	
min. Earth dist.	4223 Nov 18 23:36	0° <b>∡</b> °01'13	0.66395 AU	min. Earth dist.	4224 Nov 01 05:48	14°M10'39	0.65158 AU
	4223 Nov 19 00:00	30°RM		inferior conj	4224 Nov 03 08:18	11° <b>M</b> 49'14	
inferior conj	4223 Nov 20 14:09	28°M03'51	-1°00'31	minimum elong	4224 Nov 03 11:45	11°M39'34	
minimum elong	4223 Nov 20 15:48	27°M58'50	0°59'49	asc. node	4224 Nov 09 10:05	6°M22'37	
asc. node	4223 Nov 23 13:02	24°M41'00		morning rise	4224 Nov 09 16:00	6°M15'19	
morning rise	4223 Nov 26 12:17	22°M17'01		direct	4224 Nov 12 08:28	5°M36'41	
direct	4223 Nov 29 12:40	21°M25'32		morning max el	4224 Nov 18 20:06	9° <b>M</b> 04'50	18°05'42
morning max el	4223 Dec 06 05:07	25°M05'30	18°37'44		4224 Dec 03 05:03	0°⊀	
	4223 Dec 10 09:03	0° <b>∡</b> ¹		morning set	4224 Dec 06 23:12	6° <b>≯</b> 12'13	
morning set	4223 Dec 26 22:59	25° <b>∡</b> 17′02		desc. node	4224 Dec 16 07:38	21° <b>尽</b> 28'34	
	4223 Dec 29 22:28	5°0					
desc. node	4223 Dec 30 10:37	0° <b>る</b> 47'59		superior conj	4224 Dec 21 07:59	29° <b>₹</b> 29'28	-0°34'01
				minimum elong	4224 Dec 21 03:44	29° <b>∡</b> 12'36	0°33'25
superior conj	4224 Jan 12 02:10	20° <b>る</b> 41'32	-1°19'46		4224 Dec 21 15:41	0°ප	
minimum elong		20070(115	404044	***		40-740122	1 45102 ATT
_	4224 Jan 11 17:10	20° <b>පි</b> 06'15		max. Earth dist.	4224 Dec 24 16:44		1.45102 AU
max. Earth dist.	4224 Jan 11 21:07	20° <b>ප්</b> 21'46	1°18'47 1.45244 AU	max. Earth dist. evening rise	4225 Jan 06 15:52	25° <b>ප්</b> 00'44	1.45102 AU
max. Earth dist.	4224 Jan 11 21:07 4224 Jan 18 00:20	20° <b>පි</b> 21'46 0° <b>≈</b>		evening rise	4225 Jan 06 15:52 4225 Jan 09 21:18	25° <b>ට</b> 00'44 0° <b>≈</b>	
max. Earth dist.	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49	20° <b>ප්</b> 21'46 0°≈ 15°≈29'18	1.45244 AU		4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33	25° <b>ප</b> 00'44 0°≈ 15°≈13'15	-0.7m
max. Earth dist.	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37	20° <b>ට</b> 21'46 0°≈ 15°≈29'18 28°≈42'03		evening rise greatest brilliancy	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40	25° <b>ට</b> 00'44 0°≈ 15°≈13'15 0°⊁	-0.7m
max. Earth dist. evening rise greatest brilliancy	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37 4224 Feb 05 21:22	20°る21'46 0°≈ 15°≈29'18 28°≈42'03 0°升	1.45244 AU -0.8m	evening rise greatest brilliancy evening max el	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40 4225 Jan 31 19:11	25°る00'44 0°≈ 15°≈13'15 0°⊁ 1°⊁08'16	
max. Earth dist.  evening rise greatest brilliancy  evening max el	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37 4224 Feb 05 21:22 4224 Feb 18 12:35	20°♂21'46 0°≈ 15°≈29'18 28°≈42'03 0°升 17°升36'38	1.45244 AU	evening rise greatest brilliancy evening max el asc. node	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40 4225 Jan 31 19:11 4225 Feb 05 09:23	25°♂00'44 0°≈ 15°≈13'15 0°¥ 1°¥08'16 4°¥42'50	-0.7m
max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37 4224 Feb 05 21:22 4224 Feb 18 12:35 4224 Feb 19 12:20	0°€21'46 0°≈ 15°≈29'18 28°≈42'03 0°₩ 17°₩36'38 18°₩34'00	1.45244 AU -0.8m	evening rise greatest brilliancy evening max el asc. node retrograde	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40 4225 Jan 31 19:11 4225 Feb 05 09:23 4225 Feb 08 04:21	25° <b>♂</b> 00'44 0°≈ 15°≈13'15 0° <b>ℋ</b> 1° <b>ℋ</b> 08'16 4° <b>ℋ</b> 42'50 5° <b>ℋ</b> 24'31	-0.7m
max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37 4224 Feb 05 21:22 4224 Feb 18 12:35 4224 Feb 19 12:20 4224 Feb 25 06:59	20° <b>5</b> 21'46 0°≈ 15°≈29'18 28°≈42'03 0°¥ 17°¥36'38 18°¥34'00 21°¥24'17	1.45244 AU -0.8m	evening rise greatest brilliancy evening max el asc. node	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40 4225 Jan 31 19:11 4225 Feb 05 09:23 4225 Feb 08 04:21 4225 Feb 11 18:51	25°♂00'44 0°≈ 15°≈13'15 0° ₩ 1° ₩08'16 4° ₩42'50 5° ₩24'31 4° ₩08'27	-0.7m
max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37 4224 Feb 05 21:22 4224 Feb 18 12:35 4224 Feb 19 12:20 4224 Feb 25 06:59 4224 Feb 28 13:54	20° <b>5</b> 21'46 0°≈ 15°≈29'18 28°≈42'03 0°¥ 17°¥36'38 18°¥34'00 21°¥24'17 20°¥22'00	1.45244 AU -0.8m 18°53'16	evening rise greatest brilliancy evening max el asc. node retrograde evening set	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40 4225 Jan 31 19:11 4225 Feb 05 09:23 4225 Feb 08 04:21 4225 Feb 11 18:51 4225 Feb 15 19:55	25°♂00'44 0°≈ 15°≈13'15 0° ₩ 1° ₩08'16 4° ₩42'50 5° ₩24'31 4° ₩08'27 30° R≈	-0.7m 19°41'47
max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37 4224 Feb 05 21:22 4224 Feb 18 12:35 4224 Feb 19 12:20 4224 Feb 25 06:59 4224 Feb 28 13:54 4224 Mar 05 04:53	20° <b>5</b> 21'46 0°≈ 15°≈29'18 28°≈42'03 0° ₭ 17° ₭36'38 18° ₭34'00 21° ₭24'17 20° ₭22'00 14° ₭39'12	1.45244 AU -0.8m 18°53'16 3°30'17	evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40 4225 Jan 31 19:11 4225 Feb 05 09:23 4225 Feb 08 04:21 4225 Feb 11 18:51 4225 Feb 15 19:55 4225 Feb 17 05:32	25° <b>♂</b> 00'44 0°≈ 15°≈13'15 0° <b>ℋ</b> 1° <b>ℋ</b> 08'16 4° <b>ℋ</b> 42'50 5° <b>ℋ</b> 24'31 4° <b>ℋ</b> 08'27 30° <b>ℝ</b> ≈ 28°≈10'35	-0.7m 19°41'47 3°11'37
max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37 4224 Feb 05 21:22 4224 Feb 18 12:35 4224 Feb 19 12:20 4224 Feb 25 06:59 4224 Feb 28 13:54 4224 Mar 05 04:53 4224 Mar 05 03:38	20° <b>♂</b> 21'46 0°≈ 15°≈29'18 28°≈42'03 0° <b>米</b> 17° <b>¥</b> 36'38 18° <b>¥</b> 34'00 21° <b>¥</b> 24'17 20° <b>¥</b> 22'00 14° <b>¥</b> 39'12 14° <b>¥</b> 43'05	1.45244 AU -0.8m 18°53'16 3°30'17 3°30'09	evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40 4225 Jan 31 19:11 4225 Feb 05 09:23 4225 Feb 08 04:21 4225 Feb 11 18:51 4225 Feb 15 19:55 4225 Feb 17 05:32 4225 Feb 17 03:25	25° <b>♂</b> 00'44 0°≈ 15°≈13'15 0° <b>ℋ</b> 1° <b>ℋ</b> 08'16 4° <b>ℋ</b> 42'50 5° <b>ℋ</b> 24'31 4° <b>ℋ</b> 08'27 30° <b>ℝ</b> ≈ 28°≈10'35 28°≈17'35	-0.7m 19°41'47 3°11'37 3°11'13
max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37 4224 Feb 05 21:22 4224 Feb 18 12:35 4224 Feb 19 12:20 4224 Feb 25 06:59 4224 Feb 28 13:54 4224 Mar 05 04:53 4224 Mar 05 03:38 4224 Mar 06 21:41	20°₹21'46 0°≈ 15°≈29'18 28°≈42'03 0° ₩ 17° ₩36'38 18° ₩34'00 21° ₩24'17 20° ₩22'00 14° ₩39'12 14° ₩43'05 12° ₩32'12	1.45244 AU -0.8m 18°53'16 3°30'17	evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40 4225 Jan 31 19:11 4225 Feb 05 09:23 4225 Feb 08 04:21 4225 Feb 11 18:51 4225 Feb 15 19:55 4225 Feb 17 05:32 4225 Feb 17 03:25 4225 Feb 18 07:34	25° <b>5</b> 00'44 0°≈ 15°≈13'15 0° ₩ 1° ₩08'16 4° ₩42'50 5° ₩24'31 4° ₩08'27 30° R≈ 28°≈10'35 28°≈17'35 26°≈44'30	-0.7m 19°41'47 3°11'37
max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37 4224 Feb 05 21:22 4224 Feb 18 12:35 4224 Feb 19 12:20 4224 Feb 25 06:59 4224 Feb 28 13:54 4224 Mar 05 04:53 4224 Mar 05 03:38 4224 Mar 06 21:41 4224 Mar 10 16:57	20° <b>5</b> 21'46 0°≈ 15°≈29'18 28°≈42'03 0° ₩ 17° ₩36'38 18° ₩34'00 21° ₩24'17 20° ₩22'00 14° ₩39'12 14° ₩43'05 12° ₩32'12 8° ₩26'20	1.45244 AU -0.8m 18°53'16 3°30'17 3°30'09	evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40 4225 Jan 31 19:11 4225 Feb 05 09:23 4225 Feb 08 04:21 4225 Feb 11 18:51 4225 Feb 15 19:55 4225 Feb 17 05:32 4225 Feb 17 03:25 4225 Feb 18 07:34 4225 Feb 22 11:46	25° <b>5</b> 00'44 0°≈ 15°≈13'15 0° ₩ 1° ₩08'16 4° ₩42'50 5° ₩24'31 4° ₩08'27 30°R≈ 28°≈10'35 28°≈17'35 26°≈44'30 21°≈56'37	-0.7m 19°41'47 3°11'37 3°11'13
max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37 4224 Feb 05 21:22 4224 Feb 18 12:35 4224 Feb 19 12:20 4224 Feb 25 06:59 4224 Feb 28 13:54 4224 Mar 05 04:53 4224 Mar 05 03:38 4224 Mar 06 21:41 4224 Mar 10 16:57 4224 Mar 17 06:14	20° <b>♂</b> 21'46 0°≈ 15°≈29'18 28°≈42'03 0° ₩ 17° ₩36'38 18° ₩34'00 21° ₩24'17 20° ₩22'00 14° ₩39'12 14° ₩43'05 12° ₩32'12 8° ₩26'20 5° ₩35'47	1.45244 AU -0.8m 18°53'16 3°30'17 3°30'09	evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40 4225 Jan 31 19:11 4225 Feb 05 09:23 4225 Feb 08 04:21 4225 Feb 11 18:51 4225 Feb 15 19:55 4225 Feb 17 05:32 4225 Feb 17 03:25 4225 Feb 18 07:34 4225 Feb 22 11:46 4225 Feb 28 13:23	25° <b>♂</b> 00'44 0°≈ 15°≈13'15 0° ₩ 1° ₩08'16 4° ₩42'50 5° ₩24'31 4° ₩08'27 30°R≈ 28°≈10'35 28°≈10'35 26°≈44'30 21°≈56'37 19°≈14'16	-0.7m 19°41'47 3°11'37 3°11'13 0.66822 AU
max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37 4224 Feb 05 21:22 4224 Feb 18 12:35 4224 Feb 19 12:20 4224 Feb 25 06:59 4224 Feb 28 13:54 4224 Mar 05 04:53 4224 Mar 05 03:38 4224 Mar 06 21:41 4224 Mar 10 16:57 4224 Mar 17 06:14 4224 Mar 27 09:50	20° <b>♂</b> 21'46 0°≈ 15°≈29'18 28°≈42'03 0° ₩ 17° ₩36'38 18° ₩34'00 21° ₩24'17 20° ₩22'00 14° ₩39'12 14° ₩43'05 12° ₩32'12 8° ₩26'20 5° ₩35'47 10° ₩33'59	1.45244 AU -0.8m 18°53'16 3°30'17 3°30'09 0.65629 AU	evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40 4225 Jan 31 19:11 4225 Feb 05 09:23 4225 Feb 08 04:21 4225 Feb 11 18:51 4225 Feb 15 19:55 4225 Feb 17 03:25 4225 Feb 18 07:34 4225 Feb 22 11:46 4225 Feb 28 13:23 4225 Mar 12 17:19	25° <b>5</b> 00'44 0°≈ 15°≈13'15 0° ₩ 1° ₩08'16 4° ₩42'50 5° ₩24'31 4° ₩08'27 30° №≈ 28°≈10'35 28°≈17'35 26°≈44'30 21°≈56'37 19°≈14'16 26°≈29'31	-0.7m 19°41'47 3°11'37 3°11'13
max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37 4224 Feb 05 21:22 4224 Feb 18 12:35 4224 Feb 19 12:20 4224 Feb 25 06:59 4224 Feb 28 13:54 4224 Mar 05 04:53 4224 Mar 05 03:38 4224 Mar 06 21:41 4224 Mar 10 16:57 4224 Mar 17 06:14	20° <b>♂</b> 21'46 0°≈ 15°≈29'18 28°≈42'03 0° ₩ 17° ₩36'38 18° ₩34'00 21° ₩24'17 20° ₩22'00 14° ₩39'12 14° ₩43'05 12° ₩32'12 8° ₩26'20 5° ₩35'47	1.45244 AU -0.8m 18°53'16 3°30'17 3°30'09	evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40 4225 Jan 31 19:11 4225 Feb 05 09:23 4225 Feb 08 04:21 4225 Feb 11 18:51 4225 Feb 15 19:55 4225 Feb 17 05:32 4225 Feb 17 03:25 4225 Feb 18 07:34 4225 Feb 22 11:46 4225 Feb 28 13:23	25° <b>♂</b> 00'44 0°≈ 15°≈13'15 0° ₩ 1° ₩08'16 4° ₩42'50 5° ₩24'31 4° ₩08'27 30°R≈ 28°≈10'35 28°≈10'35 26°≈44'30 21°≈56'37 19°≈14'16	-0.7m 19°41'47 3°11'37 3°11'13 0.66822 AU
max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37 4224 Feb 05 21:22 4224 Feb 18 12:35 4224 Feb 19 12:20 4224 Feb 25 06:59 4224 Feb 28 13:54 4224 Mar 05 04:53 4224 Mar 05 03:38 4224 Mar 06 21:41 4224 Mar 10 16:57 4224 Mar 17 06:14 4224 Mar 27 09:50 4224 Mar 30 08:03	20° <b>♂</b> 21'46 0°≈ 15°≈29'18 28°≈42'03 0° ₩ 17° ₩36'38 18° ₩34'00 21° ₩24'17 20° ₩22'00 14° ₩39'12 14° ₩43'05 12° ₩32'12 8° ₩26'20 5° ₩35'47 10° ₩33'59 13° ₩19'00	1.45244 AU -0.8m 18°53'16 3°30'17 3°30'09 0.65629 AU	evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40 4225 Jan 31 19:11 4225 Feb 05 09:23 4225 Feb 11 18:51 4225 Feb 15 19:55 4225 Feb 17 05:32 4225 Feb 18 07:34 4225 Feb 22 11:46 4225 Feb 28 13:23 4225 Mar 12 17:19 4225 Mar 14 06:51	25° <b>5</b> 00'44 0°≈ 15°≈13'15 0° ₩ 1° ₩08'16 4° ₩42'50 5° ₩24'31 4° ₩08'27 30°R≈ 28°≈10'35 28°≈17'35 26°≈44'30 21°≈56'37 19°≈14'16 26°≈29'31 28°≈07'35	-0.7m 19°41'47 3°11'37 3°11'13 0.66822 AU
max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37 4224 Feb 05 21:22 4224 Feb 18 12:35 4224 Feb 19 12:20 4224 Feb 25 06:59 4224 Feb 28 13:54 4224 Mar 05 04:53 4224 Mar 05 03:38 4224 Mar 06 21:41 4224 Mar 10 16:57 4224 Mar 17 06:14 4224 Mar 27 09:50 4224 Mar 30 08:03 4224 Apr 12 19:29	20° <b>5</b> 21'46 0°≈ 15°≈29'18 28°≈42'03 0° ₩ 17° ₩36'38 18° ₩34'00 21° ₩24'17 20° ₩22'00 14° ₩39'12 14° ₩39'12 14° ₩39'12 14° ₩39'12 10° ₩32'12 8° ₩26'20 5° ₩35'47 10° ₩33'59 13° ₩19'00 0° ❤	1.45244 AU -0.8m 18°53'16 3°30'17 3°30'09 0.65629 AU	evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40 4225 Jan 31 19:11 4225 Feb 05 09:23 4225 Feb 11 18:51 4225 Feb 15 19:55 4225 Feb 17 05:32 4225 Feb 18 07:34 4225 Feb 22 11:46 4225 Feb 28 13:23 4225 Mar 12 17:19 4225 Mar 14 06:51 4225 Mar 15 23:23	25° <b>5</b> 00'44 0°≈ 15°≈13'15 0° ₩ 1° ₩08'16 4° ₩42'50 5° ₩24'31 4° ₩08'27 30°R≈ 28°≈10'35 28°≈17'35 26°≈44'30 21°≈56'37 19°≈14'16 26°≈29'31 28°≈07'35 0° ₩	-0.7m 19°41'47 3°11'37 3°11'13 0.66822 AU
max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37 4224 Feb 05 21:22 4224 Feb 18 12:35 4224 Feb 19 12:20 4224 Feb 25 06:59 4224 Feb 28 13:54 4224 Mar 05 04:53 4224 Mar 05 03:38 4224 Mar 10 16:57 4224 Mar 17 06:14 4224 Mar 27 09:50 4224 Mar 30 08:03 4224 Apr 12 19:29 4224 May 01 08:39	20°♂21'46 0°≈ 15°≈29'18 28°≈42'03 0° ₩ 17° ₩36'38 18° ₩34'00 21° ₩24'17 20° ₩22'00 14° ₩39'12 14° ₩43'05 12° ₩32'12 8° ₩26'20 5° ₩35'47 10° ₩33'59 13° ₩19'00 0° ❤ 0° ₩	1.45244 AU -0.8m 18°53'16 3°30'17 3°30'09 0.65629 AU	evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40 4225 Jan 31 19:11 4225 Feb 05 09:23 4225 Feb 11 18:51 4225 Feb 15 19:55 4225 Feb 17 05:32 4225 Feb 18 07:34 4225 Feb 22 11:46 4225 Feb 28 13:23 4225 Mar 12 17:19 4225 Mar 14 06:51 4225 Mar 15 23:23 4225 Apr 06 09:46	25° ₹500'44 0° ≈ 15° ≈ 13'15 0° ₩ 1° ₩ 08'16 4° ₩ 42'50 5° ₩ 24'31 4° ₩ 08'27 30° ₹≈ 28° ≈ 10'35 28° ≈ 17'35 26° ≈ 44'30 21° ≈ 56'37 19° ≈ 14'16 26° ≈ 29'31 28° ≈ 07'35 0° ₩ 0° Ψ	-0.7m 19°41'47 3°11'37 3°11'13 0.66822 AU
max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37 4224 Feb 05 21:22 4224 Feb 18 12:35 4224 Feb 19 12:20 4224 Feb 25 06:59 4224 Feb 28 13:54 4224 Mar 05 04:53 4224 Mar 05 03:38 4224 Mar 10 16:57 4224 Mar 10 16:57 4224 Mar 17 06:14 4224 Mar 27 09:50 4224 Mar 30 08:03 4224 Apr 12 19:29 4224 May 01 08:39 4224 May 05 05:34	20°♂21'46 0°≈ 15°≈29'18 28°≈42'03 0° ₩ 17° ₩36'38 18° ₩34'00 21° ₩24'17 20° ₩22'00 14° ₩39'12 14° ₩43'05 12° ₩32'12 8° ₩26'20 5° ₩35'47 10° ₩33'59 13° ₩19'00 0° ₩ 0° ₩ 7° ₩11'59	1.45244 AU -0.8m 18°53'16 3°30'17 3°30'09 0.65629 AU 26°44'51	evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40 4225 Jan 31 19:11 4225 Feb 05 09:23 4225 Feb 08 04:21 4225 Feb 11 18:51 4225 Feb 15 19:55 4225 Feb 17 05:32 4225 Feb 18 07:34 4225 Feb 22 11:46 4225 Feb 28 13:23 4225 Mar 12 17:19 4225 Mar 14 06:51 4225 Mar 15 23:23 4225 Apr 06 09:46 4225 Apr 17 22:39	25° ₹500'44 0° ≈ 15° ≈ 13'15 0° ₩ 1° ₩ 08'16 4° ₩ 42'50 5° ₩ 24'31 4° ₩ 08'27 30° R≈ 28° ≈ 10'35 28° ≈ 17'35 26° ≈ 44'30 21° ≈ 56'37 19° ≈ 14'16 26° ≈ 29'31 28° ≈ 07'35 0° ₩ 0° Ψ 19° Ψ 43'02	-0.7m 19°41'47 3°11'37 3°11'13 0.66822 AU 25°32'16
max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37 4224 Feb 05 21:22 4224 Feb 18 12:35 4224 Feb 19 12:20 4224 Feb 25 06:59 4224 Feb 28 13:54 4224 Mar 05 04:53 4224 Mar 05 03:38 4224 Mar 10 16:57 4224 Mar 10 16:57 4224 Mar 17 06:14 4224 Mar 27 09:50 4224 Mar 30 08:03 4224 Apr 12 19:29 4224 May 01 08:39 4224 May 05 05:34	20°♂21'46 0°≈ 15°≈29'18 28°≈42'03 0° ₩ 17° ₩36'38 18° ₩34'00 21° ₩24'17 20° ₩22'00 14° ₩39'12 14° ₩43'05 12° ₩32'12 8° ₩26'20 5° ₩35'47 10° ₩33'59 13° ₩19'00 0° ₩ 0° ₩ 7° ₩11'59	1.45244 AU -0.8m 18°53'16 3°30'17 3°30'09 0.65629 AU 26°44'51	evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40 4225 Jan 31 19:11 4225 Feb 05 09:23 4225 Feb 11 18:51 4225 Feb 15 19:55 4225 Feb 17 05:32 4225 Feb 18 07:34 4225 Feb 22 11:46 4225 Feb 28 13:23 4225 Mar 12 17:19 4225 Mar 14 06:51 4225 Apr 06 09:46 4225 Apr 17 22:39 4225 Apr 21 16:13	25° ₹500'44 0° ≈ 15° ≈ 13'15 0° ₩ 1° ₩ 08'16 4° ₩ 42'50 5° ₩ 24'31 4° ₩ 08'27 30° R≈ 28° ≈ 10'35 28° ≈ 17'35 26° ≈ 44'30 21° ≈ 56'37 19° ≈ 14'16 26° ≈ 29'31 28° ≈ 07'35 0° ₩ 0° Ψ 19° Ψ 43'02 26° Ψ 38'30	-0.7m 19°41'47 3°11'37 3°11'13 0.66822 AU 25°32'16
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max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set max. Earth dist.  superior conj minimum elong asc. node	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37 4224 Feb 05 21:22 4224 Feb 18 12:35 4224 Feb 19 12:20 4224 Feb 25 06:59 4224 Feb 28 13:54 4224 Mar 05 04:53 4224 Mar 05 03:38 4224 Mar 06 21:41 4224 Mar 10 16:57 4224 Mar 17 06:14 4224 Mar 27 09:50 4224 Mar 30 08:03 4224 Apr 12 19:29 4224 May 01 08:39 4224 May 05 05:34 4224 May 09 11:54  4224 May 13 20:24 4224 May 13 20:24 4224 May 13 22:22 4224 May 17 11:38	20° <b>5</b> 21'46 0°≈ 15°≈29'18 28°≈42'03 0°¥ 17°¥36'38 18°¥34'00 21°¥24'17 20°¥22'00 14°¥39'12 14°¥43'05 12°¥32'12 8°¥26'20 5°¥35'47 10°¥33'59 13°¥19'00 0° <b>Y</b> 0° <b>8</b> 7° <b>8</b> 11'59 15° <b>8</b> 31'03 24° <b>8</b> 23'32 24° <b>8</b> 33'44 0° <b>Ⅱ</b> 2° <b>Ⅱ</b> 00'14	1.45244 AU -0.8m 18°53'16 3°30'17 3°30'09 0.65629 AU 26°44'51 1.34396 AU -0°37'01	evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40 4225 Jan 31 19:11 4225 Feb 05 09:23 4225 Feb 08 04:21 4225 Feb 11 18:51 4225 Feb 15 19:55 4225 Feb 17 03:25 4225 Feb 18 07:34 4225 Feb 22 11:46 4225 Feb 28 13:23 4225 Mar 12 17:19 4225 Mar 14 06:51 4225 Mar 15 23:23 4225 Apr 06 09:46 4225 Apr 17 22:39 4225 Apr 21 16:13 4225 Apr 23 10:26  4225 Apr 27 12:13 4225 Apr 27 15:47 4225 May 04 08:42	25° ₹300'44 0° ≈ 15° ≈13'15 0° ₩ 1° ₩08'16 4° ₩42'50 5° ₩24'31 4° ₩08'27 30° ₹≈ 28° ≈10'35 28° ≈17'35 26° ≈44'30 21° ≈56'37 19° ≈14'16 26° ≈29'31 28° ≈07'35 0° ₩ 19° ¥43'02 26° ¥38'30 0° ₩ 8° ₩30'01 8° ₩317'48 21° ₩555'29	-0.7m 19°41'47 3°11'37 3°11'13 0.66822 AU 25°32'16 1.36091 AU -1°06'08
max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set max. Earth dist.  superior conj minimum elong	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37 4224 Feb 05 21:22 4224 Feb 18 12:35 4224 Feb 19 12:20 4224 Feb 25 06:59 4224 Feb 28 13:54 4224 Mar 05 04:53 4224 Mar 05 03:38 4224 Mar 06 21:41 4224 Mar 10 16:57 4224 Mar 17 06:14 4224 Mar 27 09:50 4224 Mar 30 08:03 4224 Apr 12 19:29 4224 May 01 08:39 4224 May 09 11:54  4224 May 13 20:24 4224 May 13 20:24 4224 May 13 22:22 4224 May 17 11:38 4224 May 21 08:36	20° <b>5</b> 21'46 0°≈ 15°≈29'18 28°≈42'03 0° <b>H</b> 17° <b>H</b> 36'38 18° <b>H</b> 34'00 21° <b>H</b> 24'17 20° <b>H</b> 22'00 14° <b>H</b> 39'12 14° <b>H</b> 43'05 12° <b>H</b> 33'59 13° <b>H</b> 19'00 0° <b>Y</b> 0° <b>B</b> 7° <b>B</b> 11'59 15° <b>B</b> 31'03 24° <b>B</b> 23'32 24° <b>B</b> 33'44 0° <b>II</b> 2° <b>II</b> 00'14 10° <b>II</b> 08'07	1.45244 AU -0.8m 18°53'16 3°30'17 3°30'09 0.65629 AU 26°44'51 1.34396 AU -0°37'01	evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40 4225 Jan 31 19:11 4225 Feb 05 09:23 4225 Feb 08 04:21 4225 Feb 11 18:51 4225 Feb 15 19:55 4225 Feb 17 05:32 4225 Feb 17 03:25 4225 Feb 18 07:34 4225 Feb 28 13:23 4225 Feb 28 13:23 4225 Mar 12 17:19 4225 Mar 14 06:51 4225 Mar 15 23:23 4225 Apr 06 09:46 4225 Apr 17 22:39 4225 Apr 21 16:13 4225 Apr 27 12:13 4225 Apr 27 15:47 4225 May 04 08:42 4225 May 05 14:17	25° ₹300'44 0° ≈ 15° ≈13'15 0° ₩ 1° ₩08'16 4° ₩42'50 5° ₩24'31 4° ₩08'27 30° ₹≈ 28° ≈10'35 28° ≈17'35 26° ≈44'30 21° ≈56'37 19° ≈14'16 26° ≈29'31 28° ≈07'35 0° ₩ 19° ¥43'02 26° ¥38'30 0° ₩ 8° ₩30'01 8° ₩317'48 21° ₩555'29 24° ₩26'12	-0.7m 19°41'47 3°11'37 3°11'13 0.66822 AU 25°32'16 1.36091 AU -1°06'08
max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set max. Earth dist.  superior conj minimum elong asc. node	4224 Jan 11 21:07 4224 Jan 18 00:20 4224 Jan 27 18:49 4224 Feb 05 01:37 4224 Feb 05 21:22 4224 Feb 18 12:35 4224 Feb 19 12:20 4224 Feb 25 06:59 4224 Feb 28 13:54 4224 Mar 05 04:53 4224 Mar 05 03:38 4224 Mar 06 21:41 4224 Mar 10 16:57 4224 Mar 17 06:14 4224 Mar 27 09:50 4224 Mar 30 08:03 4224 Apr 12 19:29 4224 May 01 08:39 4224 May 05 05:34 4224 May 09 11:54  4224 May 13 20:24 4224 May 13 20:24 4224 May 13 22:22 4224 May 17 11:38	20° <b>5</b> 21'46 0°≈ 15°≈29'18 28°≈42'03 0°¥ 17°¥36'38 18°¥34'00 21°¥24'17 20°¥22'00 14°¥39'12 14°¥43'05 12°¥32'12 8°¥26'20 5°¥35'47 10°¥33'59 13°¥19'00 0° <b>Y</b> 0° <b>8</b> 7° <b>8</b> 11'59 15° <b>8</b> 31'03 24° <b>8</b> 23'32 24° <b>8</b> 33'44 0° <b>Ⅱ</b> 2° <b>Ⅱ</b> 00'14	1.45244 AU -0.8m 18°53'16 3°30'17 3°30'09 0.65629 AU 26°44'51 1.34396 AU -0°37'01 0°36'37	evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.	4225 Jan 06 15:52 4225 Jan 09 21:18 4225 Jan 19 20:33 4225 Jan 30 17:40 4225 Jan 31 19:11 4225 Feb 05 09:23 4225 Feb 08 04:21 4225 Feb 11 18:51 4225 Feb 15 19:55 4225 Feb 17 03:25 4225 Feb 18 07:34 4225 Feb 22 11:46 4225 Feb 28 13:23 4225 Mar 12 17:19 4225 Mar 14 06:51 4225 Mar 15 23:23 4225 Apr 06 09:46 4225 Apr 17 22:39 4225 Apr 21 16:13 4225 Apr 23 10:26  4225 Apr 27 12:13 4225 Apr 27 15:47 4225 May 04 08:42	25° ₹300'44 0° ≈ 15° ≈13'15 0° ₩ 1° ₩08'16 4° ₩42'50 5° ₩24'31 4° ₩08'27 30° ₹≈ 28° ≈10'35 28° ≈17'35 26° ≈44'30 21° ≈56'37 19° ≈14'16 26° ≈29'31 28° ≈07'35 0° ₩ 19° ¥43'02 26° ¥38'30 0° ₩ 8° ₩30'01 8° ₩317'48 21° ₩555'29	-0.7m  19°41'47  3°11'37 3°11'13 0.66822 AU  25°32'16  1.36091 AU  -1°06'08 1°05'32

retrograde	4225 Jun 02 10:22	28° <b>Ⅱ</b> 06'05			4226 May 01 19:37	П°0	
evening set	4225 Jun 04 09:04	27° <b>II</b> 56'02		evening max el	4226 May 06 01:28	5° <b>П</b> 03'16	18°59'41
desc. node	4225 Jun 10 06:06	25° <b>I</b> I42'52		retrograde	4226 May 14 15:53	9° <b>Ⅱ</b> 15'22	10 37 41
inferior conj	4225 Jun 13 07:49	23° <b>I</b> I55'25	-0°54'45	evening set	4226 May 16 17:45	9° <b>∏</b> 01'38	
minimum elong	4225 Jun 13 05:17	23° <b>I</b> 59'16	0°53'48	inferior conj	4226 May 24 21:47	4° <b>∏</b> 46'36	0°55'38
min. Earth dist.	4225 Jun 15 07:57	22° <b>I</b> I42'29	0.55314 AU	minimum elong	4226 May 24 23:55	4° <b>∏</b> 42'52	
morning rise	4225 Jun 21 23:36	19° <b>∏</b> 32'00	0.55511110	min. Earth dist.	4226 May 27 23:35	2° <b>I</b> I38'08	0.56673 AU
direct	4225 Jun 26 05:16	18° <b>∏</b> 52'44		desc. node	4226 May 28 03:08	2° <b>I</b> 32'12	0.00075110
morning max el	4225 Jul 10 00:07	25° <b>∏</b> 41'14	24°13'38		4226 Jun 01 14:38	30° <b>₹</b> 8	
	4225 Jul 14 01:44	0ಂಣ		morning rise	4226 Jun 02 02:50	29° <b>8</b> 47'11	
asc. node	4225 Jul 31 07:56	27° <b>©</b> 44'15		direct	4226 Jun 07 07:30	28° <b>8</b> 43'13	
	4225 Aug 01 10:45	$0^{\circ}\Omega$			4226 Jun 13 01:06	0°Щ	
morning set	4225 Aug 03 20:55	5° <b>Ω</b> 02'41		morning max el	4226 Jun 21 14:41	6° <b>Ⅱ</b> 06'23	25°50'25
8				. 8	4226 Jul 09 02:03	0°5	
superior conj	4225 Aug 10 20:10	20° <b>Ω</b> 06'44	1°30'31	asc. node	4226 Jul 18 05:00	17° <b>©</b> 31'12	
minimum elong	4225 Aug 10 18:06	19° <b>Ω</b> 55'31	1°30'17	morning set	4226 Jul 19 08:19	19° <b>©</b> 54'35	
max. Earth dist.	4225 Aug 12 19:01	24° <b>Ω</b> 19'43	1.33035 AU	Z .	4226 Jul 24 00:15	$0^{\circ}\Omega$	
	4225 Aug 15 11:09	0° m/y					
evening rise	4225 Aug 18 04:45	5° m 38'08		superior conj	4226 Jul 26 07:04	5° <b>Ω</b> 01'27	1°15'46
8 21	4225 Aug 31 12:08	$0 \circ \overline{\mathbf{v}}$		minimum elong	4226 Jul 26 04:44	4° <b>Ω</b> 48'38	1°15'24
desc. node	4225 Sep 06 05:25	8° <b>£</b> 51'24		max. Earth dist.	4226 Jul 27 03:15	6° <b>Ω</b> 52'18	1.32317 AU
evening max el	4225 Sep 20 15:24	26° <b>£</b> 31'19	27°26'32	evening rise	4226 Aug 02 07:18	20° <b>Ω</b> 07'10	
	4225 Sep 24 18:08	0°M			4226 Aug 07 05:30	0° m	
retrograde	4225 Oct 04 06:46	3°M48'01		desc. node	4226 Aug 24 02:27	27° <b>m</b> 43'51	
evening set	4225 Oct 11 10:31	1° <b>M</b> .11'21			4226 Aug 25 19:40	0∘ <u>⊽</u>	
<i>8</i>	4225 Oct 12 22:36	30° <b>Ŗ</b> Ω		evening max el	4226 Sep 02 22:46	9° <b>亞</b> 08'55	27°14'01
min. Earth dist.	4225 Oct 15 02:44	27° <b>£</b> 59'41	0.63583 AU	retrograde	4226 Sep 16 18:58	16° <b>£</b> 22'38	
inferior conj	4225 Oct 17 17:26	25° <b>£</b> 21'15		evening set	4226 Sep 23 22:19	14° <b>≙</b> 02'20	
minimum elong	4225 Oct 17 22:33		3°01'40	min. Earth dist.	4226 Sep 27 13:11	11° <b>≙</b> 15'56	0.61703 AU
morning rise	4225 Oct 24 11:59	20° <b>£</b> 03'45		inferior conj	4226 Sep 30 14:26	8° <b>≏</b> 31'51	-4°01'14
direct	4225 Oct 26 23:04	19° <b>Ω</b> 34'19		minimum elong	4226 Sep 30 20:28	8° <b>≏</b> 18'19	
asc. node	4225 Oct 27 07:09	19° <b>£</b> 34'52		morning rise	4226 Oct 07 20:25	3° <b>ჲ</b> 34'00	
morning max el	4225 Nov 02 12:49	22° <b>♀</b> 59'23	17°50'58	direct	4226 Oct 10 04:51	3° <b>£</b> 10'36	
5 5	4225 Nov 08 01:09	0°M		asc. node	4226 Oct 14 04:12	4° <b>£</b> 19'59	
morning set	4225 Nov 19 01:40	18°M23'31		morning max el	4226 Oct 17 04:08	6° <b>≙</b> 41'09	17°54'30
3	4225 Nov 25 19:55	0° <b>×</b> <sup>7</sup>			4226 Nov 01 03:52	0°M	
				morning set	4226 Nov 01 23:57	1°M31'18	
superior conj							
	4225 Dec 01 09:45	9°×718'30	0°12'26				
minimum elong	4225 Dec 01 09:45 4225 Dec 01 11:04	9° <b>х</b> 18′30 9° <b>х</b> 23′57	0°12'26 0°12'15	superior coni	4226 Nov 12 14:16	20° <b>M</b> -26'11	0°50'57
minimum elong behind sun begin	4225 Dec 01 11:04	9° <b>∡</b> ¹23'57		superior conj minimum elong		20°M26'11 20°M43'07	
behind sun begin	4225 Dec 01 11:04 4225 Dec 01 04:43	9° <b>х</b> 23′57 8° <b>х</b> 57′50		superior conj minimum elong	4226 Nov 12 18:11	20°M43'07	
behind sun begin behind sun end	4225 Dec 01 11:04 4225 Dec 01 04:43 4225 Dec 01 17:25	9° ₹23'57 8° ₹57'50 9° ₹50'02		minimum elong	4226 Nov 12 18:11 4226 Nov 18 05:41	20°M43'07 0°⊀	0°50'25
behind sun begin behind sun end desc. node	4225 Dec 01 11:04 4225 Dec 01 04:43 4225 Dec 01 17:25 4225 Dec 03 04:40	9° <b>₹</b> 23'57 8° <b>₹</b> 57'50 9° <b>₹</b> 50'02 12° <b>₹</b> 14'14	0°12'15	minimum elong max. Earth dist.	4226 Nov 12 18:11 4226 Nov 18 05:41 4226 Nov 20 00:22	20°M43'07 0°⊀ 2°⊀56'07	
behind sun begin behind sun end	4225 Dec 01 11:04 4225 Dec 01 04:43 4225 Dec 01 17:25 4225 Dec 03 04:40 4225 Dec 07 10:46	9° 🖈 23'57 8° 🖈 57'50 9° 🖈 50'02 12° 🖈 14'14 19° 🖈 05'58		minimum elong max. Earth dist. desc. node	4226 Nov 12 18:11 4226 Nov 18 05:41 4226 Nov 20 00:22 4226 Nov 20 01:43	20°M.43'07 0° ♣7 2° ♣756'07 3° ♣701'38	0°50'25
behind sun begin behind sun end desc. node max. Earth dist.	4225 Dec 01 11:04 4225 Dec 01 04:43 4225 Dec 01 17:25 4225 Dec 03 04:40 4225 Dec 07 10:46 4225 Dec 14 08:56	9° \$\frac{7}{23'57} 8° \$\frac{7}{57'50} 9° \$\frac{7}{50'02} 12° \$\frac{7}{14'14} 19° \$\frac{7}{05'58} 0° \$\frac{7}{50'558}	0°12'15	minimum elong max. Earth dist.	4226 Nov 12 18:11 4226 Nov 18 05:41 4226 Nov 20 00:22 4226 Nov 20 01:43 4226 Nov 26 16:31	20°M.43'07 0° ₹ 2° ₹ 56'07 3° ₹ 01'38 13° ₹ 38'53	0°50'25
behind sun begin behind sun end desc. node	4225 Dec 01 11:04 4225 Dec 01 04:43 4225 Dec 01 17:25 4225 Dec 03 04:40 4225 Dec 07 10:46 4225 Dec 14 08:56 4225 Dec 17 01:48	9° \$723'57 8° \$757'50 9° \$750'02 12° \$714'14 19° \$705'58 0° 당 4°당10'44	0°12'15	minimum elong max. Earth dist. desc. node evening rise	4226 Nov 12 18:11 4226 Nov 18 05:41 4226 Nov 20 00:22 4226 Nov 20 01:43 4226 Nov 26 16:31 4226 Dec 07 09:42	20°M43'07 0°⊀ 2°⊀56'07 3°⊀'01'38 13°⊀'38'53 0°₹	0°50'25 1.42768 AU
behind sun begin behind sun end desc. node max. Earth dist. evening rise	4225 Dec 01 11:04 4225 Dec 01 04:43 4225 Dec 01 17:25 4225 Dec 03 04:40 4225 Dec 07 10:46 4225 Dec 14 08:56 4225 Dec 17 01:48 4226 Jan 03 08:54	9° ₹23'57 8° ₹57'50 9° ₹50'02 12° ₹14'14 19° ₹05'58 0° ₹ 4° ₹10'44 0° ≈	0°12'15 1.44241 AU	minimum elong max. Earth dist. desc. node	4226 Nov 12 18:11 4226 Nov 18 05:41 4226 Nov 20 00:22 4226 Nov 20 01:43 4226 Nov 26 16:31 4226 Dec 07 09:42 4226 Dec 28 16:13	20°M.43'07 0°Å 2°Å56'07 3°Å01'38 13°Å38'53 0°중 28°중14'20	0°50'25 1.42768 AU
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el	4225 Dec 01 11:04 4225 Dec 01 04:43 4225 Dec 01 17:25 4225 Dec 03 04:40 4225 Dec 07 10:46 4225 Dec 14 08:56 4225 Dec 17 01:48 4226 Jan 03 08:54 4226 Jan 14 20:27	9° \$\frac{7}{23'57} 8° \$\frac{7}{57'50} 9° \$\frac{7}{50'02} 12° \$\frac{7}{14'14} 19° \$\frac{7}{05'58} 0° \$\frac{7}{65'05'44} 0° \$\approx 14° \$\approx 40'40	0°12'15	minimum elong max. Earth dist. desc. node evening rise evening max el	4226 Nov 12 18:11 4226 Nov 18 05:41 4226 Nov 20 00:22 4226 Nov 20 01:43 4226 Nov 26 16:31 4226 Dec 07 09:42 4226 Dec 28 16:13 4226 Dec 30 12:23	20°M43'07 0°⊀ 2°⊀56'07 3°⊀01'38 13°⊀38'53 0°♂ 28°♂14'20 0°≈	0°50'25 1.42768 AU
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el retrograde	4225 Dec 01 11:04 4225 Dec 01 04:43 4225 Dec 01 17:25 4225 Dec 03 04:40 4225 Dec 07 10:46 4225 Dec 14 08:56 4225 Dec 17 01:48 4226 Jan 03 08:54 4226 Jan 14 20:27 4226 Jan 23 02:34	9° ₹23'57 8° ₹57'50 9° ₹50'02 12° ₹14'14 19° ₹05'58 0° ℧ 4° ℧10'44 0° ≈ 14° ≈40'40 19° ≈33'09	0°12'15 1.44241 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	4226 Nov 12 18:11 4226 Nov 18 05:41 4226 Nov 20 00:22 4226 Nov 20 01:43 4226 Nov 26 16:31 4226 Dec 07 09:42 4226 Dec 28 16:13 4226 Dec 30 12:23 4227 Jan 06 23:38	20°M43'07 0°⊀ 2°₹56'07 3°₹01'38 13°₹38'53 0°₹ 28°₹14'20 0°≈ 3°≈46'44	0°50'25 1.42768 AU
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el retrograde asc. node	4225 Dec 01 11:04 4225 Dec 01 04:43 4225 Dec 01 17:25 4225 Dec 03 04:40 4225 Dec 07 10:46 4225 Dec 14 08:56 4225 Dec 17 01:48 4226 Jan 03 08:54 4226 Jan 14 20:27 4226 Jan 23 02:34 4226 Jan 23 06:26	9° ₹23'57 8° ₹57'50 9° ₹50'02 12° ₹14'14 19° ₹05'58 0° ₹5 4° ₹10'44 0° ≈ 14° ≈40'40 19° ≈33'09 19° ≈33'01	0°12'15 1.44241 AU	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node	4226 Nov 12 18:11 4226 Nov 18 05:41 4226 Nov 20 00:22 4226 Nov 20 01:43 4226 Nov 26 16:31 4226 Dec 07 09:42 4226 Dec 28 16:13 4226 Dec 30 12:23 4227 Jan 06 23:38 4227 Jan 10 03:28	20°M43'07 0°メ 2°メ56'07 3°メ701'38 13°メ738'53 0°उ 28°उ714'20 0°≈ 3°≈46'44 2°≈53'12	0°50'25 1.42768 AU
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set	4225 Dec 01 11:04 4225 Dec 01 04:43 4225 Dec 01 17:25 4225 Dec 03 04:40 4225 Dec 07 10:46 4225 Dec 14 08:56 4225 Dec 17 01:48 4226 Jan 03 08:54 4226 Jan 14 20:27 4226 Jan 23 02:34 4226 Jan 23 06:26 4226 Jan 27 02:05	9° ₹23'57 8° ₹57'50 9° ₹50'02 12° ₹14'14 19° ₹05'58 0° ₹5 4° ₹10'44 0° ≈ 14° ≈40'40 19° ≈33'09 19° ≈33'01 18° ≈02'26	0°12'15  1.44241 AU  20°44'31	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	4226 Nov 12 18:11 4226 Nov 18 05:41 4226 Nov 20 00:22 4226 Nov 20 01:43 4226 Nov 26 16:31 4226 Dec 07 09:42 4226 Dec 28 16:13 4226 Dec 30 12:23 4227 Jan 06 23:38 4227 Jan 10 03:28 4227 Jan 11 09:48	20°M43'07 0°メ 2°メ756'07 3°メ701'38 13°メ738'53 0°石 28°石14'20 0°≈ 3°≈46'44 2°≈53'12 2°≈00'31	0°50'25 1.42768 AU
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj	4225 Dec 01 11:04 4225 Dec 01 04:43 4225 Dec 01 17:25 4225 Dec 03 04:40 4225 Dec 07 10:46 4225 Dec 14 08:56 4225 Dec 17 01:48 4226 Jan 03 08:54 4226 Jan 14 20:27 4226 Jan 23 02:34 4226 Jan 23 06:26 4226 Jan 27 02:05 4226 Feb 01 10:39	9° ₹23'57 8° ₹57'50 9° ₹50'02 12° ₹14'14 19° ₹05'58 0° ℧ 4° ℧10'44 0° ≈ 14° ≈40'40 19° ≈33'09 19° ≈33'01 18° ≈02'26 11° ≈52'11	0°12'15  1.44241 AU  20°44'31  2°42'37	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set	4226 Nov 12 18:11 4226 Nov 18 05:41 4226 Nov 20 00:22 4226 Nov 20 01:43 4226 Nov 26 16:31 4226 Dec 07 09:42 4226 Dec 28 16:13 4226 Dec 30 12:23 4227 Jan 06 23:38 4227 Jan 10 03:28 4227 Jan 11 09:48 4227 Jan 13 10:46	20°M.43'07 0° ₹ 2° ₹ 56'07 3° ₹ 01'38 13° ₹ 38'53 0° ₹ 28° ₹ 14'20 0° ≈ 3° ≈ 46'44 2° ≈ 53'12 2° ≈ 00'31 30° ₹ ₹	0°50'25 1.42768 AU 21°57'59
behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	4225 Dec 01 11:04 4225 Dec 01 04:43 4225 Dec 01 04:43 4225 Dec 03 04:40 4225 Dec 07 10:46 4225 Dec 17 01:48 4226 Jan 03 08:54 4226 Jan 14 20:27 4226 Jan 23 06:26 4226 Jan 27 02:05 4226 Feb 01 10:39 4226 Feb 01 08:12	9° ₹23'57 8° ₹57'50 9° ₹50'02 12° ₹14'14 19° ₹05'58 0° ₹ 4° ₹10'44 0° ≈ 14° ≈40'40 19° ≈33'09 19° ≈33'01 18° ≈02'26 11° ≈52'11 12° ≈00'38	0°12'15  1.44241 AU  20°44'31  2°42'37 2°41'59	minimum elong  max. Earth dist. desc. node evening rise  evening max el  retrograde asc. node evening set  inferior conj	4226 Nov 12 18:11 4226 Nov 18 05:41 4226 Nov 20 00:22 4226 Nov 20 01:43 4226 Nov 26 16:31 4226 Dec 07 09:42 4226 Dec 28 16:13 4226 Dec 30 12:23 4227 Jan 06 23:38 4227 Jan 10 03:28 4227 Jan 11 09:48 4227 Jan 13 10:46 4227 Jan 16 18:05	20°M.43'07 0° ₹ 2° ₹ 56'07 3° ₹ 01'38 13° ₹ 38'53 0° ₹ 28° ₹ 14'20 0° ≈ 3° ≈ 46'44 2° ≈ 53'12 2° ≈ 00'31 30° ₹ ₹ 25° ₹ 41'15	0°50'25 1.42768 AU 21°57'59 2°05'09
behind sun begin behind sun end desc. node max. Earth dist.  evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	4225 Dec 01 11:04 4225 Dec 01 04:43 4225 Dec 01 04:43 4225 Dec 03 04:40 4225 Dec 07 10:46 4225 Dec 17 01:48 4226 Jan 03 08:54 4226 Jan 14 20:27 4226 Jan 23 06:26 4226 Jan 27 02:05 4226 Feb 01 10:39 4226 Feb 01 08:12 4226 Feb 01 23:25	9° ₹23'57 8° ₹57'50 9° ₹50'02 12° ₹14'14 19° ₹05'58 0° ₹ 4° ₹10'44 0° ≈ 14° ≈40'40 19° ≈33'09 19° ≈33'01 18° ≈02'26 11° ≈52'11 12° ≈00'38 11° ≈08'25	0°12'15  1.44241 AU  20°44'31  2°42'37	minimum elong  max. Earth dist. desc. node evening rise  evening max el  retrograde asc. node evening set  inferior conj minimum elong	4226 Nov 12 18:11 4226 Nov 18 05:41 4226 Nov 20 00:22 4226 Nov 20 01:43 4226 Nov 26 16:31 4226 Dec 07 09:42 4226 Dec 28 16:13 4226 Dec 30 12:23 4227 Jan 06 23:38 4227 Jan 10 03:28 4227 Jan 11 09:48 4227 Jan 13 10:46 4227 Jan 16 18:05 4227 Jan 16 15:45	20°M43'07 0°ズ 2°ズ56'07 3°ズ01'38 13°ズ38'53 0°G 28°G14'20 0°≈ 3°≈46'44 2°≈53'12 2°≈00'31 30°RG 25°G41'15 25°G49'20	0°50'25 1.42768 AU 21°57'59 2°05'09 2°04'23
behind sun begin behind sun end desc. node max. Earth dist.  evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	4225 Dec 01 11:04 4225 Dec 01 04:43 4225 Dec 01 04:43 4225 Dec 03 04:40 4225 Dec 07 10:46 4225 Dec 17 01:48 4226 Jan 03 08:54 4226 Jan 14 20:27 4226 Jan 23 02:34 4226 Jan 23 06:26 4226 Jan 27 02:05 4226 Feb 01 10:39 4226 Feb 01 08:12 4226 Feb 01 23:25 4226 Feb 06 14:08	9° ₹23'57 8° ₹57'50 9° ₹50'02 12° ₹14'14 19° ₹05'58 0° ₹ 4° ₹10'44 0° ≈ 14° ≈40'40 19° ≈33'09 19° ≈33'01 18° ≈02'26 11° ≈52'11 12° ≈00'38 11° ≈08'25 5° ≈38'45	0°12'15  1.44241 AU  20°44'31  2°42'37 2°41'59	minimum elong  max. Earth dist. desc. node evening rise  evening max el  retrograde asc. node evening set  inferior conj minimum elong min. Earth dist.	4226 Nov 12 18:11 4226 Nov 18 05:41 4226 Nov 20 00:22 4226 Nov 20 01:43 4226 Nov 26 16:31 4226 Dec 07 09:42 4226 Dec 28 16:13 4226 Dec 30 12:23 4227 Jan 06 23:38 4227 Jan 10 03:28 4227 Jan 11 09:48 4227 Jan 13 10:46 4227 Jan 16 18:05 4227 Jan 16 18:05 4227 Jan 16 18:57	20°M43'07 0°ズ 2°ズ56'07 3°ズ01'38 13°ズ38'53 0°G 28°G14'20 0°≈ 3°≈46'44 2°≈53'12 2°≈00'31 30°RG 25°G41'15 25°G49'20 25°G38'15	0°50'25 1.42768 AU 21°57'59 2°05'09
behind sun begin behind sun end desc. node max. Earth dist.  evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	4225 Dec 01 11:04 4225 Dec 01 04:43 4225 Dec 01 04:40 4225 Dec 03 04:40 4225 Dec 07 10:46 4225 Dec 17 01:48 4226 Jan 03 08:54 4226 Jan 14 20:27 4226 Jan 23 02:34 4226 Jan 23 06:26 4226 Feb 01 10:39 4226 Feb 01 08:12 4226 Feb 01 23:25 4226 Feb 06 14:08 4226 Feb 12 01:39	9° ₹23'57 8° ₹57'50 9° ₹50'02 12° ₹14'14 19° ₹05'58 0° ₹5 4° ₹510'44 0° ≈ 14° ≈40'40 19° ≈33'09 19° ≈33'01 18° ≈02'26 11° ≈52'11 12° ≈00'38 11° ≈08'25 5° ≈38'45 3° ≈13'12	0°12'15  1.44241 AU  20°44'31  2°42'37 2°41'59	minimum elong  max. Earth dist. desc. node evening rise  evening max el  retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise	4226 Nov 12 18:11 4226 Nov 18 05:41 4226 Nov 20 00:22 4226 Nov 20 01:43 4226 Nov 26 16:31 4226 Dec 07 09:42 4226 Dec 28 16:13 4226 Dec 30 12:23 4227 Jan 06 23:38 4227 Jan 10 03:28 4227 Jan 11 09:48 4227 Jan 13 10:46 4227 Jan 16 18:05 4227 Jan 16 18:57 4227 Jan 16 18:57 4227 Jan 21 21:33	20°M.43'07 0°ズ 2°ズ56'07 3°ズ901'38 13°ズ38'53 0°उ 28°उ14'20 0°≈ 3°≈46'44 2°≈53'12 2°≈00'31 30°Rउ 25°उ41'15 25°उ49'20 25°उ38'15 19°उ29'58	0°50'25 1.42768 AU 21°57'59 2°05'09 2°04'23
behind sun begin behind sun end desc. node max. Earth dist.  evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	4225 Dec 01 11:04 4225 Dec 01 04:43 4225 Dec 01 04:43 4225 Dec 03 04:40 4225 Dec 07 10:46 4225 Dec 14 08:56 4225 Dec 17 01:48 4226 Jan 03 08:54 4226 Jan 23 02:34 4226 Jan 23 06:26 4226 Jan 27 02:05 4226 Feb 01 10:39 4226 Feb 01 08:12 4226 Feb 01 23:25 4226 Feb 01 10:39 4226 Feb 02 3 01:58	9° 水23'57 8° 水57'50 9° 水50'02 12° 水14'14 19° 水05'58 0° 云 4° 云10'44 0° ≈ 14° ≈40'40 19° ≈33'09 19° ≈33'01 18° ≈02'26 11° ≈52'11 12° ≈00'38 11° ≈08'25 5° ≈38'45 3° ≈13'12 9° ≈47'32	0°12'15  1.44241 AU  20°44'31  2°42'37 2°41'59 0.67595 AU	minimum elong  max. Earth dist. desc. node evening rise  evening max el  retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct	4226 Nov 12 18:11 4226 Nov 18 05:41 4226 Nov 20 00:22 4226 Nov 20 01:43 4226 Nov 26 16:31 4226 Dec 07 09:42 4226 Dec 28 16:13 4226 Dec 30 12:23 4227 Jan 06 23:38 4227 Jan 10 03:28 4227 Jan 11 09:48 4227 Jan 16 18:05 4227 Jan 16 18:05 4227 Jan 16 18:57 4227 Jan 16 18:57 4227 Jan 21 21:33 4227 Jan 26 18:18	20°M.43'07 0°ズ 2°ズ56'07 3°ズ901'38 13°ズ38'53 0°उ 28°उ14'20 0°≈ 3°≈46'44 2°≈53'12 2°≈00'31 30°Rउ 25°उ41'15 25°उ49'20 25°उ38'15 19°उ29'58 17°उ25'49	0°50'25 1.42768 AU 21°57'59 2°05'09 2°04'23 0.67974 AU
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behind sun begin behind sun end desc. node max. Earth dist.  evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.	4225 Dec 01 11:04 4225 Dec 01 04:43 4225 Dec 01 04:43 4225 Dec 03 04:40 4225 Dec 07 10:46 4225 Dec 17 01:48 4225 Dec 17 01:48 4226 Jan 03 08:54 4226 Jan 23 02:34 4226 Jan 23 06:26 4226 Feb 01 10:39 4226 Feb 01 08:12 4226 Feb 01 23:25 4226 Feb 01 23:25 4226 Feb 02 01:39 4226 Feb 12 01:39 4226 Feb 12 01:39 4226 Feb 13 01:58 4226 Mar 01 03:53 4226 Mar 11 01:28 4226 Mar 30 19:01 4226 Apr 10 16:02 4226 Apr 10 16:02 4226 Apr 10 10:24	9° ₹23'57 8° ₹57'50 9° ₹50'02 12° ₹14'14 19° ₹05'58 0° ₹ 4° ₹10'44 0° ≈ 14° ≈40'40 19° ≈33'09 19° ≈33'01 18° ≈02'26 11° ≈52'11 12° ≈00'38 11° ≈08'25 5° ≈38'45 3° ≈13'12 9° ≈47'32 16° ≈40'55 0° ₹ 0° ₹ 1° ₹10'40 7° ₹45'21 20° ₹57'27 21° ₹19'46	0°12'15  1.44241 AU  20°44'31  2°42'37 2°41'59 0.67595 AU  24°06'25  1.38135 AU -1°33'14	minimum elong  max. Earth dist. desc. node evening rise  evening max el  retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct morning max el  desc. node  morning set max. Earth dist.	4226 Nov 12 18:11 4226 Nov 18 05:41 4226 Nov 20 00:22 4226 Nov 20 01:43 4226 Dec 07 09:42 4226 Dec 28 16:13 4226 Dec 30 12:23 4227 Jan 06 23:38 4227 Jan 10 03:28 4227 Jan 11 09:48 4227 Jan 16 18:05 4227 Jan 16 18:05 4227 Jan 16 18:57 4227 Jan 16 18:57 4227 Jan 21 21:33 4227 Jan 26 18:18 4227 Feb 05 12:12 4227 Feb 11 11:24 4227 Feb 16 00:55 4227 Mar 04 10:40 4227 Mar 11 12:42 4227 Mar 16 08:30 4227 Mar 22 10:15	20°M.43'07 0°ズ 2°ズ56'07 3°ズ01'38 13°ズ38'53 0°G 28°G14'20 0°≈ 3°≈46'44 2°≈53'12 2°≈00'31 30°RG 25°G41'15 25°G49'20 25°G38'15 19°G29'58 17°G25'49 23°G11'27 0°≈ 5°≈57'05 0°升 11°升20'08 19°升24'07 0°个	0°50'25  1.42768 AU  21°57'59  2°05'09 2°04'23 0.67974 AU  22°37'22
behind sun begin behind sun end desc. node max. Earth dist.  evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.  superior conj minimum elong	4225 Dec 01 11:04 4225 Dec 01 04:43 4225 Dec 01 04:43 4225 Dec 03 04:40 4225 Dec 07 10:46 4225 Dec 17 01:48 4225 Dec 17 01:48 4226 Jan 03 08:54 4226 Jan 23 02:34 4226 Jan 23 06:26 4226 Feb 01 10:39 4226 Feb 01 08:12 4226 Feb 01 23:25 4226 Feb 01 23:25 4226 Feb 12 01:39 4226 Feb 12 01:39 4226 Feb 13 01:58 4226 Mar 01 03:53 4226 Mar 11 01:28 4226 Mar 30 02:37 4226 Mar 30 19:01 4226 Apr 10 16:02 4226 Apr 10 16:02 4226 Apr 10 10:28	9° ₹23'57 8° ₹57'50 9° ₹50'02 12° ₹14'14 19° ₹05'58 0° ₹ 4° ₹10'44 0° ≈ 14° ≈40'40 19° ≈33'09 19° ≈33'01 18° ≈02'26 11° ≈52'11 12° ≈00'38 11° ≈08'25 5° ≈38'45 3° ≈13'12 9° ≈47'32 16° ≈40'55 0° ₹ 0° ₹ 0° ₹ 1° ₹10'40 7° ₹45'21 20° ₹57'27 21° ₹19'46 0° ₹	0°12'15  1.44241 AU  20°44'31  2°42'37 2°41'59 0.67595 AU  24°06'25  1.38135 AU -1°33'14	minimum elong  max. Earth dist. desc. node evening rise  evening max el  retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct morning max el  desc. node  morning set max. Earth dist.	4226 Nov 12 18:11 4226 Nov 18 05:41 4226 Nov 20 00:22 4226 Nov 20 01:43 4226 Dec 07 09:42 4226 Dec 28 16:13 4226 Dec 30 12:23 4227 Jan 06 23:38 4227 Jan 10 03:28 4227 Jan 11 09:48 4227 Jan 16 18:05 4227 Jan 16 18:05 4227 Jan 16 18:57 4227 Jan 16 18:57 4227 Jan 21 21:33 4227 Jan 26 18:18 4227 Feb 05 12:12 4227 Feb 11 11:24 4227 Feb 16 00:55 4227 Mar 17 10:40 4227 Mar 18:30 4227 Mar 18:30 4227 Mar 18:30 4227 Mar 22 10:15	20°M.43'07 0°ズ 2°ズ56'07 3°ズ01'38 13°ズ38'53 0°उ 28°उ14'20 0°≈ 3°≈46'44 2°≈53'12 2°≈00'31 30°Rउ 25°उ49'20 25°उ38'15 19°उ29'58 17°उ25'49 23°उ11'27 0°≈ 5°≈57'05 0°ዢ 11°₭20'08 19°₭24'07 0°℃	0°50'25  1.42768 AU  21°57'59  2°05'09 2°04'23 0.67974 AU  22°37'22  1.40317 AU  -1°55'04
behind sun begin behind sun end desc. node max. Earth dist.  evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist. superior conj	4225 Dec 01 11:04 4225 Dec 01 04:43 4225 Dec 01 04:43 4225 Dec 03 04:40 4225 Dec 07 10:46 4225 Dec 17 01:48 4225 Dec 17 01:48 4226 Jan 03 08:54 4226 Jan 23 02:34 4226 Jan 23 06:26 4226 Feb 01 10:39 4226 Feb 01 08:12 4226 Feb 01 23:25 4226 Feb 01 23:25 4226 Feb 02 01:39 4226 Feb 12 01:39 4226 Feb 12 01:39 4226 Feb 13 01:58 4226 Mar 01 03:53 4226 Mar 11 01:28 4226 Mar 30 19:01 4226 Apr 10 16:02 4226 Apr 10 16:02 4226 Apr 10 10:24	9° ₹23'57 8° ₹57'50 9° ₹50'02 12° ₹14'14 19° ₹05'58 0° ₹ 4° ₹10'44 0° ≈ 14° ≈40'40 19° ≈33'09 19° ≈33'01 18° ≈02'26 11° ≈52'11 12° ≈00'38 11° ≈08'25 5° ≈38'45 3° ≈13'12 9° ≈47'32 16° ≈40'55 0° ₹ 0° ₹ 1° ₹10'40 7° ₹45'21 20° ₹57'27 21° ₹19'46	0°12'15  1.44241 AU  20°44'31  2°42'37 2°41'59 0.67595 AU  24°06'25  1.38135 AU -1°33'14	minimum elong  max. Earth dist. desc. node evening rise  evening max el  retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct morning max el  desc. node  morning set max. Earth dist.	4226 Nov 12 18:11 4226 Nov 18 05:41 4226 Nov 20 00:22 4226 Nov 20 01:43 4226 Dec 07 09:42 4226 Dec 28 16:13 4226 Dec 30 12:23 4227 Jan 06 23:38 4227 Jan 10 03:28 4227 Jan 11 09:48 4227 Jan 16 18:05 4227 Jan 16 18:05 4227 Jan 16 18:57 4227 Jan 16 18:57 4227 Jan 21 21:33 4227 Jan 26 18:18 4227 Feb 05 12:12 4227 Feb 11 11:24 4227 Feb 16 00:55 4227 Mar 04 10:40 4227 Mar 11 12:42 4227 Mar 16 08:30 4227 Mar 22 10:15	20°M.43'07 0°ズ 2°ズ56'07 3°ズ01'38 13°ズ38'53 0°G 28°G14'20 0°≈ 3°≈46'44 2°≈53'12 2°≈00'31 30°RG 25°G41'15 25°G49'20 25°G38'15 19°G29'58 17°G25'49 23°G11'27 0°≈ 5°≈57'05 0°升 11°升20'08 19°升24'07 0°个	0°50'25  1.42768 AU  21°57'59  2°05'09 2°04'23 0.67974 AU  22°37'22  1.40317 AU  -1°55'04

	4227 Apr 07 13:26	0°8		evening max el	4228 Apr 01 17:08	0° <b>8</b> 32'06	18007!52
asc. node	4227 Apr 07 13:20 4227 Apr 08 02:48	1° <b>8</b> 01'03		retrograde	4228 Apr 01 17:08 4228 Apr 08 09:34	3° <b>8</b> 56'23	18 07 32
evening max el	4227 Apr 19 06:36	17° <b>8</b> 34'53	18°23'50	evening set	4228 Apr 11 00:42	3° <b>8</b> 25'01	
retrograde	4227 Apr 26 16:08	21° <b>8</b> 14'50	10 23 30	evening set	4228 Apr 16 01:40	30°RY	
evening set	4227 Apr 29 00:41	20° <b>8</b> 53'33		inferior conj	4228 Apr 17 16:38	28° <b>Y</b> 29'39	3°07'47
inferior conj	4227 May 06 09:10		2°17'27	minimum elong	4228 Apr 17 19:26	28° <b>Y</b> 23'00	
minimum elong	4227 May 06 12:48		2°16'27	min. Earth dist.	4228 Apr 20 22:21	25°Υ26'23	0.60808 AU
min. Earth dist.	4227 May 09 19:45	13° <b>8</b> 30'57	0.58623 AU	morning rise	4228 Apr 24 12:05	22° <b>Y</b> 37'14	
morning rise	4227 May 13 21:52	10° <b>8</b> 47'51		desc. node	4228 Apr 30 21:09	20° <b>Y</b> 25′22	
desc. node	4227 May 15 00:08	10° <b>8</b> 16'06		direct	4228 May 01 04:37	20° <b>Y</b> 25′05	
direct	4227 May 20 00:14	9° <b>8</b> 09'48		morning max el	4228 May 15 10:50	28° <b>Y</b> 20'36	27°45'40
morning max el	4227 Jun 03 09:40	16° <b>8</b> 54'24	27°04'45	S	4228 May 17 01:30	0°8	
S	4227 Jun 14 04:31	0° <b>I</b> I			4228 Jun 06 23:26	0°II	
	4227 Jul 01 11:44	$0 \circ \mathfrak{S}$		morning set	4228 Jun 16 23:11	19° <b>∏</b> 08'52	
morning set	4227 Jul 03 17:40	4° <b>©</b> 38'37		asc. node	4228 Jun 20 23:06	27° <b>Ⅱ</b> 35'36	
asc. node	4227 Jul 05 02:03	7° <b>5</b> 29'58			4228 Jun 22 01:46	0∘ <b>©</b>	
				max. Earth dist.	4228 Jun 23 01:17	2° <b>©</b> 08'17	1.32116 AU
superior conj	4227 Jul 10 18:55	19° <b>©</b> 56'19	0°56'41				
minimum elong	4227 Jul 10 16:47	19° <b>©</b> 44'35	0°56'17	superior conj	4228 Jun 24 05:57	4°5545'20	0°33'53
max. Earth dist.	4227 Jul 10 14:32	19° <b>©</b> 32'08	1.32013 AU	minimum elong	4228 Jun 24 04:29	4° <b>©</b> 37'18	0°33'34
	4227 Jul 15 08:56	$0^{\circ}\Omega$		evening rise	4228 Jul 01 01:49	19° <b>©</b> 38'30	
evening rise	4227 Jul 17 15:03	4° <b>Ω</b> 49'39			4228 Jul 06 02:56	$0^{\circ}\Omega$	
	4227 Jul 30 22:54	0° <b>m</b> )			4228 Jul 25 15:37	O° Mp	
desc. node	4227 Aug 10 23:28	15° <b>m</b> 38'55		evening max el	4228 Jul 27 17:52	2°Mp07'22	25°12'53
evening max el	4227 Aug 15 23:57	21°Mp01'40	26°28'13	desc. node	4228 Jul 27 20:27	2° Mp 13'32	
retrograde	4227 Aug 29 23:04	28° Mp 11'33		retrograde	4228 Aug 10 16:51	9° <b>m</b> 11'33	
evening set	4227 Sep 05 15:09	26° Mp 20′37		evening set	4228 Aug 16 08:32	7° <b>™</b> 58'10	
min. Earth dist.	4227 Sep 09 13:29	23° <b>m</b> 45'17	0.59645 AU	min. Earth dist.	4228 Aug 21 05:35	5° Mp 15′57	0.57633 AU
inferior conj	4227 Sep 12 19:50	21°Mp11'57	-4°47'52	inferior conj	4228 Aug 24 06:24	3° Mp 12′24	-5°11'35
minimum elong	4227 Sep 13 00:52	21° <b>m</b> 02'03	4°47'04	minimum elong	4228 Aug 24 07:27	3°M 10'36	5°11'34
morning rise	4227 Sep 20 12:44	16°M)36'15			4228 Aug 29 13:50	$30^{\circ}$ R $\Omega$	
direct	4227 Sep 22 21:45	16° Mp 16'03		morning rise	4228 Sep 01 08:42	28° <b>Ω</b> 59'11	
morning max el	4227 Sep 30 14:43	20° Mp 01'07	18°17'34	direct	4228 Sep 03 21:42	28° <b>Ω</b> 39'58	
asc. node	4227 Oct 01 01:15	20° Mp 27'08			4228 Sep 08 21:52	0°Щ	
	4227 Oct 08 01:42	0∘ <b>ত</b>		morning max el	4228 Sep 12 17:14	2° <b>m</b> 49'48	19°01'37
morning set	4227 Oct 16 12:20	15° <b>≏</b> 19'11		asc. node	4228 Sep 16 22:17	7° <b>™</b> 41'26	
	4227 Oct 24 07:12	0° <b>M</b>		morning set	4228 Sep 29 10:32	29° <b>m</b> 35'20	
					4228 Sep 29 15:31	0∘ <b>⊽</b>	
superior conj	4227 Oct 25 18:59	2°M44'17					
minimum elong	4227 Oct 25 22:49	3°M01'45	1°18'09	superior conj	4228 Oct 07 18:36	15° <b>£</b> 58'03	1°35'33
max. Earth dist.	4227 Nov 02 08:41	16°M06'46	1.40872 AU	minimum elong	4228 Oct 07 21:03	16° <b>Ω</b> 09'49	1°35'23
desc. node	4227 Nov 06 22:44	23°M47'12		max. Earth dist.	4228 Oct 14 13:46	28° <b>△</b> 37'08	1.38788 AU
evening rise	4227 Nov 07 01:31	23°M58'34			4228 Oct 15 08:17	0°M.	
	4227 Nov 10 19:07	0° <b>⊼</b>		evening rise	4228 Oct 18 09:48	5°M22'20	
	4227 Dec 01 07:46	0°る	22017116	desc. node	4228 Oct 23 19:47	14°M27'21	
evening max el	4227 Dec 11 07:40	11° <b>ろ</b> 51'02	23°1/16		4228 Nov 02 20:31	0°⊀ <sup>7</sup> 25°∗ <b>7</b> 22014	24927110
retrograde	4227 Dec 21 17:57 4227 Dec 26 16:25	18°る01'26 15°る59'19		evening max el	4228 Nov 22 20:49	25°渘32'14 0°る	24 36 10
evening set asc. node	4227 Dec 28 16.23 4227 Dec 28 00:29	13 <b>3</b> 3919 14° <b>る</b> 43'17		retrograde	4228 Nov 28 04:26 4228 Dec 04 08:24	0 3 2° <b>る</b> 13'58	
min. Earth dist.	4227 Dec 28 00:29 4227 Dec 31 15:44	14 043 17 10°る09'49	0.67989 AU	evening set	4228 Dec 04 08:24 4228 Dec 09 20:24	29° <b>x</b> 56'21	
inferior conj	4228 Jan 01 01:54	9° <b>る</b> 34'53	1°20'28	evening set	4228 Dec 09 20:24 4228 Dec 09 18:40	29 <b>x</b> 30 21 30°₹ <b>x</b>	
minimum elong	4228 Jan 01 00:10	9° <b>る</b> 40'50	1°19'48	asc. node	4228 Dec 13 21:29	25° <b>₹</b> 26'37	
morning rise	4228 Jan 06 07:50	3°る4030	1 1940	min. Earth dist.	4228 Dec 13 21:29 4228 Dec 14 11:25	24° <b>x</b> 40'46	0.67654 AU
direct	4228 Jan 10 14:18	1° <b>る</b> 46'15		inferior conj	4228 Dec 14 11:23 4228 Dec 15 08:23	23°×730'58	0.07034 AU 0°29'37
morning max el	4228 Jan 19 03:30	6° <b>る</b> 43'56	21°13'41	minimum elong	4228 Dec 15 08:23 4228 Dec 15 07:40	23° 🖈 30'38' 21	0°29'19
desc. node	4228 Feb 02 21:56	25° <b>ප්</b> 43'49	21 1341	morning rise	4228 Dec 13 07:40 4228 Dec 20 19:02	17° <b>₹</b> 29'47	0 29 19
dese. Hode	4228 Feb 05 20:17	23 <b>○</b> +3 +7		direct	4228 Dec 24 12:26	16° 🗷 10'11	
morning set	4228 Feb 19 01:48	0 ∞ 20°≈09'15		morning max el	4229 Jan 01 02:32	20° <b>₹</b> 28'31	20°01'21
morning set	4228 Feb 25 05:28	20 <b>≈</b> 09 13		morning max of	4229 Jan 08 21:29	20 × 20 31	20 0121
max. Earth dist.	4228 Feb 26 09:58		1.42360 AU	desc. node	4229 Jan 19 18:59	0 ප 15°පි53'04	
Zurur dist.	.220100 20 07.30	. 7(3023	12500710	morning set	4229 Jan 27 22:16	28° <b>ප</b> 18'18	
superior conj	4228 Mar 04 17:26	14° <b>)</b> 11'44	-2°07'04		4229 Jan 29 00:35	20 <b>⊘</b> 10 10 0° <b>≈</b>	
minimum elong	4228 Mar 04 17:20 4228 Mar 04 19:00	14° <b>)</b> (11'44'		max. Earth dist.	4229 Feb 07 19:41		1.43989 AU
	4228 Mar 13 16:50	0°Υ	2 0, 01	Durin dist.	, 100 0, 17.71	10.0.2010	1
evening rise	4228 Mar 16 02:15	4° <b>Υ</b> 19'00		superior conj	4229 Feb 13 05:58	24°≈09'02	-2°03'46
asc. node	4228 Mar 24 23:49	19° <b>Υ</b> 59'16		minimum elong	4229 Feb 13 01:50	23°≈52'14	
	4228 Apr 01 04:30	0°8			4229 Feb 16 19:14	0° <b>∀</b>	
	P	-					

evening rise	4229 Feb 26 07:49	16° <b>¥</b> 07'16			4230 Feb 09 11:33	0° <b>)</b> €	
evening rise	4229 Mar 06 11:10	0°Υ		asc. node	4230 Feb 26 17:48	26° <b>∺</b> 07'03	
asc. node	4229 Mar 11 20:48	8° <b>Υ</b> 24'25		evening max el	4230 Feb 27 17:51	27° <b>)</b> 11'09	18°32'45
evening max el	4229 Mar 16 05:48	13° <b>Υ</b> 46'20	18°11'04	evening max er	4230 Mar 03 08:16	0°Υ	10 32 43
retrograde	4229 Mar 22 15:59	17° <b>Υ</b> 09'56	10 11 0 1	retrograde	4230 Mar 06 07:02	0° <b>Υ</b> 47'07	
evening set	4229 Mar 25 13:05	16° <b>Y</b> 27'12		evening set	4230 Mar 09 10:07	29° <b>)</b> 52'13	
inferior conj	4229 Mar 31 16:28	10 <b>γ</b> 27 12	3°31'41	evening set	4230 Mar 09 04:32	30°R <b>)</b> €	
minimum elong	4229 Mar 31 17:35	11° <b>Υ</b> 08'55	3°31'36	inferior conj	4230 Mar 15 04:42	24° <b>)</b> 18'42	3°35'20
min. Earth dist.	4229 Apr 03 09:31	8° <b>Υ</b> 17'29	0.62918 AU	minimum elong	4230 Mar 15 04:42	24° <del>)(</del> 20'14	
morning rise	4229 Apr 06 20:55	5° <b>Υ</b> '07'01	0.02918 AU	min. Earth dist.	4230 Mar 17 06:21	21° <b>)</b> 51'06	0.64743 AU
direct	-	2° <b>Υ</b> 29'40			4230 Mar 20 21:39	18° <b>\(\)</b> 07'26	0.04743 AU
desc. node	4229 Apr 13 18:09	2 γ 29 40 3° <b>Υ</b> 16'40		morning rise			
	4229 Apr 17 18:10	10° <b>Υ</b> 28'19	27949157	direct	4230 Mar 27 15:28	15° <b>升</b> 17'55 18° <b>升</b> 24'18	
morning max el	4229 Apr 27 17:28		27°48'57	desc. node	4230 Apr 04 15:12		27017152
	4229 May 13 00:27	0° <b>B</b>		morning max el	4230 Apr 10 03:10	23° <b>)</b> 10'46	2/*16/52
	4229 May 30 06:55	0°П			4230 Apr 16 04:38	0° <b>Υ</b>	
morning set	4229 May 31 22:41	3° <b>Ⅱ</b> 18'00	1 22642 411		4230 May 06 07:36	0° <b>8</b>	
max. Earth dist.	4229 Jun 06 07:34	14° <b>Ⅲ</b> 27′22	1.32643 AU	morning set	4230 May 15 13:29	16° <b>8</b> 58'16	
asc. node	4229 Jun 07 20:07	17° <b>Ⅱ</b> 43′20		max. Earth dist.	4230 May 20 05:31	26° <b>8</b> 18'48	1.33618 AU
		🗕			4230 May 22 00:16	$\Pi$ $^{\circ}0$	
superior conj	4229 Jun 08 14:24	19° <b>∐</b> 22'08	0°07'59			_	
minimum elong	4229 Jun 08 14:01	19° <b>Ⅱ</b> 20′02	0°07'54	superior conj	4230 May 23 18:21	3° <b>Ⅱ</b> 40'58	
behind sun begin	4229 Jun 08 09:26	18° <b>Ⅱ</b> 55'15		minimum elong	4230 May 23 19:23	3° <b>Ⅱ</b> 46'30	0°19'59
behind sun end	4229 Jun 08 18:36	19° <b>∏</b> 44'51		asc. node	4230 May 25 17:09	7° <b>Ⅱ</b> 49'25	
	4229 Jun 13 11:54	0		evening rise	4230 May 31 00:40	19° <b>Ⅱ</b> 07'53	
evening rise	4229 Jun 15 13:37	4°\$26'32			4230 Jun 05 09:23	0ಂ <b>ತಾ</b>	
	4229 Jun 29 06:26	$0^{\circ}\Omega$		evening max el	4230 Jun 20 22:19	23° <b>©</b> 02'33	22°02'47
evening max el	4229 Jul 09 06:53	12° <b>Ω</b> 37'27	23°39'09	desc. node	4230 Jul 01 14:27	29° <b>©</b> 11'45	
desc. node	4229 Jul 14 17:28	16° <b>Ω</b> 56′03		retrograde	4230 Jul 03 16:20	29° <b>5</b> 21'48	
retrograde	4229 Jul 22 22:17	19° <b>Ω</b> 28'10		evening set	4230 Jul 06 11:21	29° <b>5</b> 04'24	
evening set	4229 Jul 27 03:01	18° <b>Ω</b> 49'30		min. Earth dist.	4230 Jul 15 03:15	25° <b>©</b> 21'25	0.54976 AU
min. Earth dist.	4229 Aug 02 16:50	15° <b>Ω</b> 43'45	0.55966 AU	inferior conj	4230 Jul 15 18:50	24°©59'32	-3°51'31
inferior conj	4229 Aug 04 20:41	14° <b>Ω</b> 26'07	-4°56'43	minimum elong	4230 Jul 15 10:15	25° <b>©</b> 11'36	3°49'14
minimum elong	4229 Aug 04 15:37	14° <b>Ω</b> 33'46	4°56'06	morning rise	4230 Jul 24 10:50	21° <b>©</b> 08'46	
morning rise	4229 Aug 13 06:42	10° <b>Ω</b> 31'00		direct	4230 Jul 27 15:04	20°5946'24	
direct	4229 Aug 16 02:17	10°Ω11'12		morning max el	4230 Aug 08 12:38	26°519'59	21°33'42
morning max el	4229 Aug 26 08:50	14°Ω57'24	20°07'31	morning max er	4230 Aug 12 00:07	0°Ω	21 33 12
asc. node	4229 Sep 03 19:19	25° <b>Ω</b> 47'41	20 0/31	asc. node	4230 Aug 21 16:24	14° <b>Ω</b> 33'45	
asc. node	4229 Sep 06 06:58	0° m		morning set	4230 Aug 29 00:12	28° <b>Ω</b> 56'27	
morning set	4229 Sep 13 15:16	14° Mp 09'58		morning set	4230 Aug 29 00:12 4230 Aug 29 12:24	0° Mp	
morning set	4229 Sep 13 13.10	14 11/09 38			4230 Aug 29 12.24	עוו ט	
superior conj	4229 Sep 21 07:55	29° m 52'02	10/12/17	superior conj	4230 Sep 05 06:54	14° <b>m</b> 14'29	10/12/16
minimum elong	4229 Sep 21 07:33 4229 Sep 21 08:42	29° m 55'57		minimum elong	4230 Sep 05 06:14	14° <b>m</b> ) 11'01	1°43'15
minimum clong	4229 Sep 21 08:42 4229 Sep 21 09:30	0° <b>⊡</b>	1 43 10	max. Earth dist.	4230 Sep 03 00:14 4230 Sep 09 07:23	22° My 29'07	1.35005 AU
Fault die	1		1 26764 ATT	max. Earm dist.			1.55005 AU
max. Earth dist.	4229 Sep 26 19:39	10° <b>Ω</b> 37'08	1.36764 AU		4230 Sep 13 03:05	0° <b>೧</b>	
evening rise	4229 Sep 30 15:40	17° <b>Ω</b> 45'13		evening rise	4230 Sep 13 15:07	0° <b>£</b> 57'33	
	4229 Oct 07 16:18	0°M		desc. node	4230 Sep 27 13:48	25° <b>£</b> 10′27	
desc. node	4229 Oct 10 16:48	4°M56'55			4230 Sep 30 17:19	0°M	26044122
	4229 Oct 28 03:40	0° <b>₹</b>	25045144	evening max el	4230 Oct 18 21:42	22°M53'26	26°44'32
evening max el	4229 Nov 05 09:13	9° <b>√</b> 14'51	25°47'44		4230 Oct 30 06:37	0° ⊀ <b>7</b>	
retrograde	4229 Nov 17 18:12	16° <b>₹</b> 18'42		retrograde	4230 Oct 31 22:50	0° <b>₹</b> 09'10	
evening set	4229 Nov 23 20:02	13° <b>₹</b> 47'42			4230 Nov 02 13:51	30°RM₁	
min. Earth dist.	4229 Nov 28 03:39	9° <b>₰</b> 07'09	0.66963 AU	evening set	4230 Nov 07 13:22	27°M29'29	
inferior conj	4229 Nov 29 11:41	7° <b>≯</b> 25'54	-0°26'24	min. Earth dist.	4230 Nov 11 14:09	23°M24'38	0.65918 AU
minimum elong	4229 Nov 29 12:23	7° <b>҂</b> 23'42	0°26'06	inferior conj	4230 Nov 13 09:50	21°M16'01	-1°26'18
asc. node	4229 Nov 30 18:31	5° <b>√</b> 49'52		minimum elong	4230 Nov 13 12:14	21°M08'57	1°25'17
morning rise	4229 Dec 05 05:07	1° <b>∡</b> ³33′17		asc. node	4230 Nov 17 15:35	16°M49'43	
direct	4229 Dec 08 11:07	0° <b>≯</b> 32'38		morning rise	4230 Nov 19 11:53	15°M34'35	
morning max el	4229 Dec 15 09:22	4° <b>≯</b> 23'12	19°03'40	direct	4230 Nov 22 08:33	14°M49'10	
	4230 Jan 02 14:46	8°0		morning max el	4230 Nov 28 22:11	18°M22'55	18°21'59
desc. node	4230 Jan 06 16:03	81'81 <b>ठ</b> °∂			4230 Dec 07 16:32	0° <b>∡</b> ¹	
morning set	4230 Jan 07 02:57	7° <b>る</b> 00'45		morning set	4230 Dec 18 10:02	17° <b>∡</b> 04'47	
max. Earth dist.	4230 Jan 21 11:39	29° <b>る</b> 28'12	1.44992 AU	desc. node	4230 Dec 24 13:05	26° <b>₹</b> 54'19	
	4230 Jan 21 19:44	0° <b>≈</b>			4230 Dec 26 11:44	ರ°0	
superior conj	4230 Jan 23 18:51	3° <b>≈</b> 05'51	-1°41'07	superior conj	4231 Jan 02 21:17	11° <b>る</b> 40'44	-1°01'11
minimum elong	4230 Jan 23 09:53	2° <b>≈</b> 30′26	1°40'21	minimum elong	4231 Jan 02 13:47	11° <b>る</b> 11'16	1°00'14
evening rise	4230 Feb 07 15:34	26° <b>≈</b> 59'54		max. Earth dist.	4231 Jan 04 06:27	13° <b>る</b> 50'50	1.45273 AU

	4231 Jan 14 13:55	0° <b>≈</b>		minimum elong	4231 Dec 13 08:26	20° <b>∡</b> ⁴44'34 _	0°13'32
evening rise	4231 Jan 19 00:07	6°≈56'46		behind sun begin	4231 Dec 13 02:43	20° <b>₹</b> 21'36	
greatest brilliancy	4231 Jan 29 14:23	23° <b>≈</b> 31'44	-0.8m	behind sun end	4231 Dec 13 14:09	21°× <b>7</b> 07'32	1 44010 177
	4231 Feb 02 21:08	0° <b>∀</b>	10011150	max. Earth dist.	4231 Dec 18 01:17	28° <b>₹</b> 14'21	1.44819 AU
evening max el	4231 Feb 11 02:55	10° <b>)</b> 40′57	19°11'59		4231 Dec 19 04:04	0°궁 16°중14'55	
asc. node	4231 Feb 13 14:51	12° <b>)</b> 54'09		evening rise	4231 Dec 29 14:46		
retrograde	4231 Feb 18 02:58 4231 Feb 21 12:51	14° <b>¥</b> 40′08 13° <b>¥</b> 32′14			4232 Jan 07 14:59	0°≈	0.6
evening set	4231 Feb 21 12:31 4231 Feb 27 01:42	7° <b>¥</b> 42'39	2022145	greatest brilliancy	4232 Jan 13 04:42 4232 Jan 25 07:23	8°≈18'54 24°≈13'22	
inferior conj	4231 Feb 27 01:42 4231 Feb 27 00:01	7°\(\dagger{42}\)39 7°\(\dagger{48}\)03	3°23'32	evening max el asc. node	4232 Jan 31 11:54	24 ≈13 22 28°≈31'30	20 00 33
minimum elong min. Earth dist.	4231 Feb 27 00:01 4231 Feb 28 12:04	5° <b>¥</b> 52'25	0.66183 AU	retrograde	4232 Jan 31 11:34 4232 Feb 02 00:57	28°≈44'23	
morning rise	4231 Mar 04 10:51	1° <b>∺</b> 28'46	0.00183 AU	evening set	4232 Feb 05 19:00	26 <del>∞44</del> 25 27° <del>≈</del> 22'26	
morning risc	4231 Mar 06 09:40	30°R≈		inferior conj	4232 Feb 11 04:35	21°≈19'07	3°00'26
direct	4231 Mar 10 19:28	28°≈40'22		minimum elong	4232 Feb 11 04:35	21°≈26'57	2°59'56
direct	4231 Mar 15 15:45	0° <b>∀</b>		min. Earth dist.	4232 Feb 12 00:52	20°≈10'44	0.67205 AU
desc. node	4231 Mar 22 12:16	5° <b>₩</b> 13'01		morning rise	4232 Feb 16 09:16	15°≈05'02	0.07203710
morning max el	4231 Mar 23 13:07	6° <b>¥</b> 14'21	26°16'15	direct	4232 Feb 22 05:09	12° <b>≈</b> 28'42	
	4231 Apr 10 21:13	0°Υ		morning max el	4232 Mar 04 21:52	19° <b>≈</b> 28'20	24°56'35
morning set	4231 Apr 28 15:49	29° <b>Y</b> ′58′02		desc. node	4232 Mar 08 09:18	23°≈14'30	2.0000
	4231 Apr 28 16:14	0°8			4232 Mar 13 20:57	0° <b>∀</b>	
max. Earth dist.	4231 May 02 16:02	7° <b>8</b> 37'39	1.35060 AU		4232 Apr 03 00:15	0°Υ	
	j			morning set	4232 Apr 10 00:48	12° <b>Y</b> 03'50	
superior conj	4231 May 07 15:22	17° <b>8</b> 34'32	-0°49'28	max. Earth dist.	4232 Apr 13 15:48	18° <b>Ƴ</b> 38'18	1.36929 AU
minimum elong	4231 May 07 18:02	17° <b>8</b> 48'08	0°48'58		4232 Apr 19 15:13	0°8	
asc. node	4231 May 12 14:10	27° <b>8</b> 49'16			•		
	4231 May 13 15:18	$\Pi^{\circ}0$		superior conj	4232 Apr 20 02:32	0° <b>8</b> 55'21	-1°18'03
evening rise	4231 May 15 08:54	3° <b>Ⅱ</b> 35'31		minimum elong	4232 Apr 20 06:40	1° <b>8</b> 15'37	1°17'26
	4231 May 30 12:08	0ංම		asc. node	4232 Apr 28 11:13	17° <b>8</b> 39'02	
evening max el	4231 Jun 02 23:39	3°553'56	20°37'13	evening rise	4232 Apr 28 12:06	17° <b>8</b> 43'26	
retrograde	4231 Jun 14 05:09	9° <b>5</b> 23'19			4232 May 04 20:23	$\Pi$ $^{\circ}0$	
evening set	4231 Jun 16 06:04	9° <b>©</b> 13'12		evening max el	4232 May 15 13:24	15° <b>Ⅱ</b> 26′33	19°29'30
desc. node	4231 Jun 18 11:29	8° <b>5</b> 40'35		retrograde	4232 May 25 00:58	20° <b>Ⅱ</b> 03′25	
inferior conj	4231 Jun 25 12:16	5° <b>©</b> 15'55	-2°04'02	evening set	4232 May 27 00:16	19° <b>∏</b> 52′20	
minimum elong	4231 Jun 25 06:29	5° <b>5</b> 24'15	2°01'58	desc. node	4232 Jun 04 08:31	15° <b>Ⅱ</b> 58′27	
min. Earth dist.	4231 Jun 26 15:05	4°937'21	0.54908 AU	inferior conj	4232 Jun 04 15:37	15° <b>Ⅱ</b> 47'03	
morning rise	4231 Jul 04 06:12	1° <b>5</b> 09'03		minimum elong	4232 Jun 04 15:23		
direct	4231 Jul 08 00:29	0° <b>©</b> 38'32		transit middle	4232 Jun 04 15:23	15° <b>∏</b> 47'26	0°05'10
morning max el	4231 Jul 21 06:47		23°14'04	transit begin	4232 Jun 04 11:42	15° <b>∏</b> 53′20	
	4231 Aug 06 13:10	0° <b>Ω</b>		transit end	4232 Jun 04 19:05	15° <b>Ⅱ</b> 41'30	
asc. node	4231 Aug 08 13:28	3° <b>Ω</b> 49'15		min. Earth dist.	4232 Jun 07 04:59		0.55802 AU
morning set	4231 Aug 13 11:24	13° <b>Ω</b> 48'52		morning rise	4232 Jun 13 03:47	11° <b>I</b> 108'34	
	4221 4 20 12-22	200 0 5 5 122	1927147	direct	4232 Jun 17 19:14	10° <b>Ⅱ</b> 19'55 17° <b>Ⅱ</b> 25'08	24956127
superior conj	4231 Aug 20 12:22 4231 Aug 20 10:41	28° <b>Ω</b> 55'22 28° <b>Ω</b> 46'18		morning max el	4232 Jul 01 20:34 4232 Jul 12 04:19	1/°Щ2508	24°30'37
minimum elong	4231 Aug 20 10:41 4231 Aug 21 00:26	0°M)	1 30 39	asc. node	4232 Jul 12 04.19 4232 Jul 25 10:30	23°\$26'25	
max. Earth dist.	4231 Aug 23 03:57		1.33627 AU	morning set	4232 Jul 27 23:09	28° <b>©</b> 42'04	
evening rise	4231 Aug 28 03:53	14° Mp 47'51	1.55027 AU	morning set	4232 Jul 28 13:49	0°Ω	
evening rise	4231 Sep 05 06:30	0° <del>ت</del>			4232 Jul 26 13.47	0 66	
desc. node	4231 Sep 14 10:49	0 <b>—</b> 15° <b>Ω</b> 00'55		superior conj	4232 Aug 03 21:50	13° <b>Ω</b> 46'41	1°24'49
dese. node	4231 Sep 25 12:33	0°M		minimum elong	4232 Aug 03 19:36	13° <b>Ω</b> 34'28	
evening max el	4231 Oct 01 09:56		27°19'20	max. Earth dist.	4232 Aug 05 08:44		1.32674 AU
retrograde	4231 Oct 14 21:45	13°MJ37'38		evening rise	4232 Aug 11 02:17	29° <b>Ω</b> 05′22	
evening set	4231 Oct 21 21:57	10°M57'05		C	4232 Aug 11 12:58	0° <b>™</b>	
min. Earth dist.	4231 Oct 25 16:47	7°M26'52	0.64523 AU		4232 Aug 28 09:35	0∘ <b>⊽</b>	
inferior conj	4231 Oct 28 00:32	4°M56'54	-2°28'08	desc. node	4232 Aug 31 07:51	4° <b>£</b> 18′09	
minimum elong	4231 Oct 28 04:44	4°M45'35	2°26'31	evening max el	4232 Sep 12 20:02	19° <b>≙</b> 18'43	27°25'29
3	4231 Nov 02 13:04	30° <b>₹</b>		retrograde	4232 Sep 26 13:57	26° <b>≏</b> 34'08	
morning rise	4231 Nov 03 12:45	29° <b>≙</b> 29'34		evening set	4232 Oct 03 18:27	24° <b>≙</b> 03'15	
asc. node	4231 Nov 04 12:40	29° <b>≏</b> 08′20		min. Earth dist.	4232 Oct 07 09:32	21° <b>ჲ</b> 03'19	0.62806 AU
direct	4231 Nov 06 02:29	28° <b>≏</b> 55'26		inferior conj	4232 Oct 10 04:57	18° <b>≏</b> 21'00	-3°28'48
	4231 Nov 09 15:49	0°M₊		minimum elong	4232 Oct 10 10:36	18° <b>≏</b> 07'21	3°27'00
morning max el	4231 Nov 12 14:20	2°M21'36	17°57'13	morning rise	4232 Oct 17 04:18	13° <b>≏</b> 11'09	
morning set	4231 Nov 29 22:14	28°M35'06		direct	4232 Oct 19 13:51	12° <b>≏</b> 44'38	
	4231 Nov 30 18:24	0° <b>∡</b> ¹		asc. node	4232 Oct 21 09:44	13° <b>ჲ</b> 00′27	
desc. node	4231 Dec 11 10:06	17° <b>∡</b> ³37'37		morning max el	4232 Oct 26 06:47	16° <b>≙</b> 11'17	17°50'08
_					4232 Nov 04 23:57	0° <b>™</b>	
superior conj	4231 Dec 13 10:05	20° <b>₹</b> 51'12	-0°13'47	morning set	4232 Nov 11 10:00	11°ML13'10	

	4232 Nov 22 05:40	0° <b>∡</b> 7		morning max el	4233 Oct 09 20:25	29° <b>™</b> 44'31 0° <b>≏</b>	18°01'52
superior conj	4232 Nov 22 23:06	1° <b>∡</b> 13'18	0°30'00	morning set	4233 Oct 10 02:41 4233 Oct 25 14:54	0° <b>11</b> 24° <b>1</b> 39'57	
minimum elong	4232 Nov 22 23:00 4232 Nov 23 01:55	1° 🗷 25'10	0°29'35	morning set	4233 Oct 28 12:00	24 <b>=</b> 3937 0° <b>M</b>	
desc. node	4232 Nov 27 07:08	8°×724'20	0 2733		4233 OCI 28 12.00	O IIG	
max. Earth dist.	4232 Nov 27 07:08 4232 Nov 29 17:46	12°×722'30	1.43686 AU	superior conj	4233 Nov 04 14:29	12°M52'32	1°04'00
evening rise	4232 Dec 08 00:48	25°×28'18	1.43000710	minimum elong	4233 Nov 04 14:27	13°M10'46	1°03'30
e vennig rise	4232 Dec 10 23:27	0°る		max. Earth dist.	4233 Nov 12 05:44	25°M59'15	1.42006 AU
	4232 Dec 31 16:49	0° <b>≈</b>		desc. node	4233 Nov 14 04:10	29°M11'17	1.12000710
evening max el	4233 Jan 07 06:24	7° <b>≈</b> 46'48	21°14'41		4233 Nov 14 16:04	0° <b>⊼</b> ¹	
retrograde	4233 Jan 15 22:44	12°≈55'30		evening rise	4233 Nov 17 22:10	5° <b>х</b> 15'36	
asc. node	4233 Jan 17 08:58	12° <b>≈</b> 44'27		<b>8</b>	4233 Dec 04 06:39	0°る	
evening set	4233 Jan 20 02:38	11° <b>≈</b> 18'19		evening max el	4233 Dec 21 00:11	21° <b>る</b> 21'47	22°31'13
inferior conj	4233 Jan 25 10:55	5°≈04'05	2°27'41	retrograde	4233 Dec 30 18:44	27° <b>る</b> 10'16	
minimum elong	4233 Jan 25 08:27	5°≈12'35	2°26'57	evening set	4234 Jan 04 10:05	25° <b>♂</b> 17'06	
min. Earth dist.	4233 Jan 25 18:31	4° <b>≈</b> 37'49	0.67815 AU	asc. node	4234 Jan 04 05:59	25° <b>පි</b> 25'24	
	4233 Jan 29 10:10	30°R₹		inferior conj	4234 Jan 09 18:43	18° <b>る</b> 55'10	1°47'01
morning rise	4233 Jan 30 14:05	28° <b>る</b> 51'29		minimum elong	4234 Jan 09 16:35	19° <b>る</b> 02'33	1°46'15
direct	4233 Feb 04 19:27	26° <b>る</b> 34'30		min. Earth dist.	4234 Jan 09 14:45	19° <b>る</b> 08'56	0.68035 AU
	4233 Feb 12 05:37	0° <b>≈</b>		morning rise	4234 Jan 14 22:59	12° <b>る</b> 45'37	
morning max el	4233 Feb 15 06:35	2° <b>≈</b> 47'52	23°28'13	direct	4234 Jan 19 13:34	10° <b>る</b> 51'18	
desc. node	4233 Feb 23 06:20	12° <b>≈</b> 07'36		morning max el	4234 Jan 28 18:38	16° <b>ප</b> 15'17	22°00'40
	4233 Mar 07 23:47	0° <b>ℋ</b>			4234 Feb 08 23:05	0° <b>≈</b>	
morning set	4233 Mar 22 10:23	22° <b>升</b> 59′17		desc. node	4234 Feb 10 03:22	1° <b>≈</b> 37'55	
max. Earth dist.	4233 Mar 26 11:03	29° <b>升</b> 54'59	1.39070 AU		4234 Mar 01 01:22	0° <b>ℋ</b>	
	4233 Mar 26 12:12	$0$ ° $\mathbf{\Upsilon}$		morning set	4234 Mar 02 15:35	2° <b>升</b> 32'57	
				max. Earth dist.	4234 Mar 08 09:18	11° <b>¥</b> 57'53	1.41228 AU
superior conj	4233 Apr 02 23:59	13° <b>Ƴ</b> 33′23					
minimum elong	4233 Apr 03 04:47	13° <b>Y</b> 55'49	1°42'52	superior conj	4234 Mar 16 02:53	25° <b>∺</b> 16′26	
	4233 Apr 11 14:05	0°8		minimum elong	4234 Mar 16 06:29	25° <b>)</b> 32′22	2°01'28
evening rise	4233 Apr 12 07:25	1° <b>8</b> 24'00			4234 Mar 18 18:24	0° <b>Υ</b>	
asc. node	4233 Apr 15 08:16	7° <b>8</b> 13'52		evening rise	4234 Mar 26 15:25	14° <b>Y</b> 28'11	
evening max el	4233 Apr 28 13:50	_	18°41'57	asc. node	4234 Apr 02 05:17	26° <b>Y</b> 27'32	
	4233 May 01 12:10	0° <b>П</b>			4234 Apr 04 07:04	0° <b>8</b>	10014124
retrograde	4233 May 06 14:16	1° <b>Ⅲ</b> 35'03 1° <b>Ⅲ</b> 18'21		evening max el	4234 Apr 11 21:36	10° <b>8</b> 22'06	18°14'34
evening set	4233 May 08 19:04	30°R <b>В</b>		retrograde	4234 Apr 18 22:31 4234 Apr 21 09:54	13° <b>8</b> 53'45 13° <b>8</b> 28'25	
inferior conj	4233 May 12 00:25 4233 May 16 14:31	26° <b>8</b> 55'08	1°34'20	evening set inferior conj	4234 Apr 28 10:49	8° <b>8</b> 44'36	2°42'30
minimum elong	4233 May 16 14.31 4233 May 16 17:40		1°33'19	minimum elong	4234 Apr 28 10:49 4234 Apr 28 14:18	8° <b>6</b> 36'58	
min. Earth dist.	4233 May 19 17:40 4233 May 19 22:01	_	0.57455 AU	min. Earth dist.	4234 May 01 20:29	_	0.59542 AU
desc. node	4233 May 19 22:01 4233 May 22 05:31	22° <b>8</b> 55'28	0.57433 AU	morning rise	4234 May 05 16:03	3° <b>8</b> 03'01	0.39342 AU
morning rise	4233 May 24 13:04	21° <b>8</b> 41'34		desc. node	4234 May 09 02:33	1° <b>8</b> 34'19	
direct	4233 May 30 03:43	20° <b>8</b> 23'52		direct	4234 May 12 01:20	1° <b>8</b> 10'16	
morning max el	4233 Jun 13 12:24	27° <b>8</b> 56'42	26°25'40	morning max el	4234 May 26 10:09	9° <b>8</b> 00'20	27°26'49
	4233 Jun 15 12:45	0°II			4234 Jun 11 11:14	0°Щ	
	4233 Jul 05 15:49	0ಂತಾ		morning set	4234 Jun 26 17:48	28° <b>Ⅱ</b> 10′21	
morning set	4233 Jul 12 09:52	13° <b>©</b> 31'26		3	4234 Jun 27 14:43	0°ಅ	
asc. node	4233 Jul 12 07:32	13° <b>©</b> 19'08		asc. node	4234 Jun 29 04:33	3°521'13	
superior conj	4233 Jul 19 09:20	28° <b>©</b> 42'11	1°08'10	superior conj	4234 Jul 03 21:00	13° <b>©</b> 34'55	0°47'25
minimum elong	4233 Jul 19 07:02	28° <b>©</b> 29'30	1°07'47	minimum elong	4234 Jul 03 19:06	13° <b>©</b> 24'27	0°47'03
	4233 Jul 19 23:27	$0^{\circ}\Omega$		max. Earth dist.	4234 Jul 03 06:35	12° <b>©</b> 15'25	1.32007 AU
max. Earth dist.	4233 Jul 19 18:55	29° <b>©</b> 35'00	1.32139 AU	evening rise	4234 Jul 10 16:36	28° <b>5</b> 27'05	
evening rise	4233 Jul 26 07:21	13° <b>Ω</b> 41′23			4234 Jul 11 10:11	$0^{\circ}\Omega$	
	4233 Aug 03 14:26	O° My			4234 Jul 28 02:53	0° <b>™</b>	
desc. node	4233 Aug 18 04:51	22° <b>m</b> 48'37		desc. node	4234 Aug 05 01:51	10° Mp 12'27	
	4233 Aug 24 09:10	0∘ <b>ত</b>		evening max el	4234 Aug 07 23:03	13° <b>m</b> 09'59	25°59'12
evening max el	4233 Aug 26 01:14	1° <b>≏</b> 38'53	26°58'39	retrograde	4234 Aug 21 22:18	20° m 18'03	
retrograde	4233 Sep 08 22:31	8° <b>£</b> 50'05		evening set	4234 Aug 28 05:56	18° Mp 42'10	0.50=:0::::
evening set	4233 Sep 15 22:44	6° <b>£</b> 40′58	0.60041 : **	min. Earth dist.	4234 Sep 01 11:31	16°Mp06'31	0.58769 AU
min. Earth dist.	4233 Sep 19 15:27		0.60841 AU	inferior conj	4234 Sep 04 17:21	13° Mp 43'24	
inferior conj	4233 Sep 22 19:44	1° <b>Ω</b> 19'56		minimum elong	4234 Sep 04 21:06	13°M)36'28	5~01'13
minimum elong	4233 Sep 23 01:39	1° <b>Ω</b> 07'22	4~21'3/	morning rise	4234 Sep 12 14:31	9° Mp 17'45	
morning rig-	4233 Sep 24 10:06	30°RM) 26°Mm31'03		direct	4234 Sep 15 00:56	8° Mp 58'10	10022147
morning rise	4233 Sep 30 06:27	26° Tp 31'03		morning max el	4234 Sep 23 03:56	12° Mp 51'57	10 334/
direct asc. node	4233 Oct 02 14:53 4233 Oct 08 06:45	26° Mp 09'10 28° Mp 22'00		asc. node	4234 Sep 25 03:46 4234 Oct 04 18:16	14°₯59'06 0° <b>乒</b>	
asc. Houc	4233 OCI 00 00.43	20 Hy2200			72JT OCI UH 10.10	· ==	

morning set	4234 Oct 09 07:50	8° <b>≏</b> 40'30		asc. node	4235 Sep 12 00:48	2° Mp 36'54	
	1224 0 4 10 02 52	250 0 26102	1027100	morning set	4235 Sep 23 09:04	23° <b>m</b> 04'43	
superior conj	4234 Oct 18 03:53	25° <b>Ω</b> 36'03	1°27'00		4235 Sep 26 19:40	0∘ <b>⊽</b>	
minimum elong	4234 Oct 18 07:13 4234 Oct 20 13:03	25° <b>£</b> 51'34 0° <b>I</b> L	1°26'41	aumariar aani	4235 Oct 01 09:50	9° <b>亞</b> 08'08	1920152
max. Earth dist.	4234 Oct 25 12:14	8°M51'52	1.39988 AU	superior conj minimum elong	4235 Oct 01 09:30 4235 Oct 01 11:35	9° <b>2</b> 16'39	1°39'53 1°39'47
evening rise	4234 Oct 29 16:48	16°M01'18	1.39988 AU	max. Earth dist.	4235 Oct 07 16:22	21° <b>⊆</b> 04'09	1.37897 AU
desc. node	4234 Nov 01 01:12	19°M54'47		evening rise	4235 Oct 07 10:22 4235 Oct 11 10:35	21° <b>⊆</b> 50'42	1.57697 AU
desc. node	4234 Nov 07 09:17	0° <b>⊼</b>		evening rise	4235 Oct 11 10:35 4235 Oct 12 16:05	0°M	
	4234 Nov 29 00:25	0°ਰ		desc. node	4235 Oct 18 22:12	10°M-30'42	
evening max el	4234 Dec 03 14:13	。3 4° <b>3</b> 59'45	23°51'13	dese. Hode	4235 Oct 31 19:47	0°×7	
retrograde	4234 Dec 14 11:38	11° <b>る</b> 25'01	25 01 15	evening max el	4235 Nov 16 02:44	18° <b>×</b> 741'19	25°08'05
evening set	4234 Dec 19 15:48	9° <b>ප</b> 15'55		retrograde	4235 Nov 28 00:23	25° <b>х</b> 34'38	
asc. node	4234 Dec 22 02:59	6° <b>る</b> 43'09		evening set	4235 Dec 03 18:10	23° <b>×</b> 10'58	
min. Earth dist.	4234 Dec 24 11:20	3° <b>る</b> 40'49	0.67885 AU	min. Earth dist.	4235 Dec 08 05:55	18° <b>∡</b> ¹09'58	0.67390 AU
inferior conj	4234 Dec 25 02:11	2° <b>る</b> 50'20	0°59'37	inferior conj	4235 Dec 09 07:32	16° <b>∡</b> ¹46'16	0°06'25
minimum elong	4234 Dec 25 00:50	2° <b>る</b> 54'56	0°59'04	minimum elong	4235 Dec 09 07:22	16° <b>∡</b> ¹46'48	0°06'21
C	4234 Dec 27 05:54	30°R. <b>✓</b>		transit middle	4235 Dec 09 07:22	16° <b>∡</b> ¹46'48	0°06'21
morning rise	4234 Dec 30 09:52	26° <b>∡</b> ¹45'28		transit begin	4235 Dec 09 04:49	16° <b>₹</b> ¹55'09	
direct	4235 Jan 03 10:29	25° <b>х</b> 13′53		transit end	4235 Dec 09 09:56	16° <b>∡</b> ³38′27	
morning max el	4235 Jan 11 13:14	29° <b>х</b> 53′46	20°41'22	asc. node	4235 Dec 09 00:02	17° <b>∡</b> 10'51	
	4235 Jan 11 15:43	8°0		morning rise	4235 Dec 14 20:48	10° <b>∡</b> ¹48'16	
desc. node	4235 Jan 28 00:25	21° <b>る</b> 35'22		direct	4235 Dec 18 09:03	9° <b>∡</b> ³37'14	
	4235 Feb 02 15:34	0° <b>≈</b>		morning max el	4235 Dec 25 15:41	13° <b>∡</b> ¹42'53	19°34'56
morning set	4235 Feb 09 19:21	10° <b>≈</b> 58'49			4236 Jan 07 00:58	ರ°0	
max. Earth dist.	4235 Feb 18 14:21	24° <b>≈</b> 55'12	1.43114 AU	greatest brilliancy	4236 Jan 07 18:08	1°る03'40	-0.7m
	4235 Feb 21 17:05	0° <b>∀</b>		desc. node	4236 Jan 14 21:27	11° <b>る</b> 51'55	
				morning set	4236 Jan 19 16:04	19° <b>る</b> 12'43	
superior conj	4235 Feb 25 06:24	5° <b>¥</b> 54'19	-2°07'51		4236 Jan 26 14:42	0° <b>≈</b>	
minimum elong	4235 Feb 25 05:49	5° <b>¥</b> 51'53	2°07'50	max. Earth dist.	4236 Feb 01 02:29	8° <b>≈</b> 38'27	1.44493 AU
evening rise	4235 Mar 09 07:59	26° <b>)</b> 47′20					
	4235 Mar 11 03:31	$0^{\circ}$ Y		superior conj	4236 Feb 05 08:08	15° <b>≈</b> 23'42	-1°56'37
asc. node	4235 Mar 20 02:18	15° <b>Ƴ</b> 13'26		minimum elong	4236 Feb 05 01:28	14° <b>≈</b> 56'58	1°56'13
evening max el	4235 Mar 26 09:24	23° <b>Y</b> 27'54	18°06'50		4236 Feb 14 06:53	0° <b>∀</b>	
retrograde	4235 Apr 01 22:09	26° <b>Ƴ</b> 50′30		evening rise	4236 Feb 19 04:39	8° <b>∺</b> 12'19	
evening set	4235 Apr 04 15:43	26° <b>Y</b> 14'36			4236 Mar 03 12:55	$0^{\circ}$ Y	
inferior conj	4235 Apr 11 01:51	21° <b>Y</b> 10'40	3°20'45	asc. node	4236 Mar 05 23:20	3° <b>Y</b> 22′18	
minimum elong	4235 Apr 11 03:58	21° <b>Y</b> 05'20	3°20'28	evening max el	4236 Mar 08 22:11	6° <b>Y</b> 47'51	18°18'05
min. Earth dist.	4235 Apr 14 02:50	18° <b>Y</b> ′08′13	0.61728 AU	retrograde	4236 Mar 15 08:38	10° <b>Y</b> 15′08	
morning rise	4235 Apr 17 14:30	15°Υ11'38		evening set	4236 Mar 18 08:12	9° <b>Y</b> 27'25	
direct	4235 Apr 24 10:00	12° <b>Y</b> ′47'14		inferior conj	4236 Mar 24 07:28	4° <b>Υ</b> '04'27	3°35'17
desc. node	4235 Apr 25 23:34	12° <b>Y</b> 54'23		minimum elong	4236 Mar 24 07:51	4°Υ03'24	
morning max el	4235 May 08 14:08	20° <b>Y</b> 45'55	27°51'36	min. Earth dist.	4236 Mar 26 18:14	1° <b>Y</b> 19′22	0.63743 AU
	4235 May 16 13:29	0° <b>B</b>			4236 Mar 28 00:22	30° <b>₹</b> ₩	
	4235 Jun 04 10:58	0°Ⅱ 120Ⅲ22147		morning rise	4236 Mar 30 06:35	27° <b>)</b> 56'17	
morning set	4235 Jun 10 21:04	12° <b>Ⅱ</b> 32'47		direct	4236 Apr 06 03:22	25° <b>)</b> 11'40	
asc. node	4235 Jun 16 01:35	23° <b>Ⅱ</b> 28'19 24° <b>Ⅱ</b> 45'29	1.32287 AU	desc. node	4236 Apr 11 20:37 4236 Apr 16 12:03	26° <b>)</b> 47′54 0° <b>°</b>	
max. Earth dist.	4235 Jun 16 15:51	24 1143 29	1.32287 AU	morning max el	4236 Apr 19 22:19		27°39'06
superior conj	4235 Jun 18 07:10	28° <b>Ⅱ</b> 19'27	0°23'13	morning max er	4236 May 09 23:23	0° <b>႘</b>	27 39 00
minimum elong	4235 Jun 18 06:07	28° <b>I</b> 13'42		morning set	4236 May 24 17:16	26° <b>8</b> 31'01	
minimum ciong	4235 Jun 19 01:33	20 <b>п</b> 1342 0° <b>©</b>	0 23 00	morning set	4236 May 26 10:54	0° <b>Ⅱ</b>	
evening rise	4235 Jun 25 04:01	13°9516'04		max. Earth dist.	4236 May 29 18:47	6° <b>∏</b> 52'50	1.33001 AU
evening rise	4235 Jul 03 13:46	0°Ω		max. Lartii dist.	4230 Way 2) 10.47	0 1132 30	1.55001 710
evening max el	4235 Jul 20 14:00	23° <b>Ω</b> 56'43	24°34'15	superior conj	4236 Jun 01 14:00	12° <b>Ⅱ</b> 49'49	-0°03'46
desc. node	4235 Jul 22 22:51	26°Ω03'18	24 54 15	minimum elong	4236 Jun 01 14:11		0°03'44
desc. Hode	4235 Jul 29 11:08	0° m)		behind sun begin	4236 Jun 01 08:58	12° <b>I</b> I22'50	0 03 11
retrograde	4235 Aug 03 11:26	0° <b>m</b> ) 57'39		behind sun end	4236 Jun 01 19:24	13° <b>Ⅱ</b> 18'48	
evening set	4235 Aug 08 12:54	0° my 00'08		asc. node	4236 Jun 01 22:38	13° <b>II</b> 36'08	
	4235 Aug 08 13:03	30°R <b>Ω</b>		evening rise	4236 Jun 08 15:45	28° <b>I</b> I02'06	
min. Earth dist.	4235 Aug 14 01:09	27° <b>Ω</b> 09'28	0.56857 AU		4236 Jun 09 14:08	0°95	
inferior conj	4235 Aug 16 19:08	25°Ω23'35			4236 Jun 27 03:58	0°N	
minimum elong	4235 Aug 16 17:40	25° <b>Ω</b> 25'58		evening max el	4236 Jul 01 03:13	4° <b>Ω</b> 21'30	22°57'35
morning rise	4235 Aug 25 00:58	21° <b>Ω</b> 19'17		desc. node	4236 Jul 08 19:51	9° <b>Ω</b> 47'49	
direct	4235 Aug 27 16:18	21° <b>Ω</b> 00'10		retrograde	4236 Jul 14 11:49	11° <b>Ω</b> 01'06	
morning max el	4235 Sep 06 02:09	25° <b>Ω</b> 24'11	19°27'04	evening set	4236 Jul 18 00:44	10° <b>Ω</b> 33'43	
-	4235 Sep 10 03:47	0° <b>m</b> )		min. Earth dist.	4236 Jul 25 12:03	7° <b>£</b> 13′40	0.55442 AU

Tranetary Trient	omena or wicreary	110111 +100	unough 4002	(O1), ristrodictist	710 10 100 2025 1	4.21, pt	150 / 4
inferior conj	4236 Jul 27 01:44	6° <b>Ω</b> 19'14	-4°35'22	minimum elong	4237 Jul 06 12:01	16°953'17	3°07'04
minimum elong	4236 Jul 26 18:29	6° <b>Ω</b> 29'44		min. Earth dist.	4237 Jul 06 22:44	16°538'18	0.54831 AU
morning rise	4236 Aug 04 14:29	2° <b>Ω</b> 27'44		morning rise	4237 Jul 15 13:42	12°547'00	***
direct	4236 Aug 07 13:20	2° <b>Ω</b> 07'11		direct	4237 Jul 18 23:21	12°9521'56	
morning max el	4236 Aug 18 12:42	7° <b>Ω</b> 13'12	20°41'54	morning max el	4237 Jul 31 11:46	18°916'59	22°15'13
asc. node	4236 Aug 28 21:52	21° <b>Ω</b> 01'53			4237 Aug 09 22:10	0°N	
	4236 Sep 02 19:15	0° mp		asc. node	4237 Aug 15 18:56	10° <b>Ω</b> 01'52	
morning set	4236 Sep 06 15:54	7° <b>m</b> 45'29		morning set	4237 Aug 22 02:03	22° <b>£</b> 35'38	
		, ,,,,			4237 Aug 25 13:58	0° <b>m</b> )	
superior conj	4236 Sep 14 03:44	23° m 15'52	1°44'09		1207 1108 20 1010	· · · · · · · · · · · · · · · · · · ·	
minimum elong	4236 Sep 14 03:52	23° m 16'30	1°44'08	superior conj	4237 Aug 29 05:49	7° <b>m</b> 47'19	1°41'14
	4236 Sep 17 11:58	0∘ <del>⊽</del>		minimum elong	4237 Aug 29 04:40	7° m 41'13	1°41'11
max. Earth dist.	4236 Sep 19 00:12	2° <b>₽</b> 58'09	1.35973 AU	max. Earth dist.	4237 Sep 01 15:56	14° m 55'30	1.34373 AU
evening rise	4236 Sep 23 00:34	10° <b>£</b> 36'54		evening rise	4237 Sep 06 06:13	24° m) 07'03	
	4236 Oct 04 05:35	0° <b>M</b> ,			4237 Sep 09 08:23	0∘ <b>ಹ</b>	
desc. node	4236 Oct 04 19:13	0°M54'33		desc. node	4237 Sep 21 16:13	20° <b>♀</b> 59'30	
	4236 Oct 26 06:38	0° <b>∡</b> 7			4237 Sep 27 19:09	0° <b>M</b>	
evening max el	4236 Oct 28 15:21	2° <b>×</b> 724'11	26°14'18	evening max el	4237 Oct 11 04:03	15°ML59'15	27°02'28
retrograde	4236 Nov 10 08:03	9° <b>×</b> 34'10	20 1.10	retrograde	4237 Oct 24 10:04	23°M16'11	2, 0220
evening set	4236 Nov 16 15:23	6° <b>₹</b> 159'05		evening set	4237 Oct 31 05:16	20°MJ35'12	
min. Earth dist.	4236 Nov 20 20:08	2° <b>×</b> <sup>7</sup> 33'25	0.66557 AU	min. Earth dist.	4237 Nov 04 03:29		0.65372 AU
inferior conj	4236 Nov 22 08:56	0° <b>₹</b> 40'13		inferior conj	4237 Nov 06 04:13	14°ML27'05	
minimum elong	4236 Nov 22 10:19	0° <b>₹</b> 35'57		minimum elong	4237 Nov 06 07:23	14°ML18'04	
minimum clong	4236 Nov 22 22:03	30°RM	0 30 47	asc. node	4237 Nov 11 18:09	9°M13'16	1 3107
asc. node	4236 Nov 24 21:05	27°M43'32		morning rise	4237 Nov 11 10:09	8°ML51'10	
morning rise	4236 Nov 28 05:47	24°M51'42		direct	4237 Nov 12 10:24 4237 Nov 15 03:56	8°ML10'51	
direct	4236 Dec 01 07:34	23°M57'54		morning max el	4237 Nov 13 03:30 4237 Nov 21 15:47	11°MJ39'59	18°09'21
morning max el	4236 Dec 08 01:15	27°M40'12	18°/3'53	morning max cr	4237 Nov 21 13:47 4237 Dec 04 12:29	0° <b>∡</b> 7	18 09 21
morning max ci	4236 Dec 10 04:12	27 11 <b>0</b> 40 12 0° <b>√</b>	16 43 33	morning set	4237 Dec 04 12:29 4237 Dec 10 02:34	0 <b>↗</b> 9° <b>渘</b> 109'11	
morning set	4236 Dec 29 06:42	28° <b>₹</b> 26'47		desc. node	4237 Dec 10 02:34 4237 Dec 18 15:32	23° 🗷 02'00	
morning set	4236 Dec 29 00:42 4236 Dec 30 06:21	28 x 2047		desc. node	4237 Dec 18 13.32 4237 Dec 23 00:14	23 x 02 00 0°る	
desc. node	4236 Dec 30 00:21 4236 Dec 31 18:30	0 る 2° <b>る</b> 22'24			4237 Dec 23 00.14	0.0	
max. Earth dist.	4230 Dec 31 18:50 4237 Jan 13 19:59	2 022 24 22° <b>る</b> 53'02	1.45206 AU	superior conj	4237 Dec 24 18:32	2° <b>る</b> 47'32	00/11/1/
max. Earm dist.	4237 Jan 13 19.39	22 033 02	1.43200 AU	minimum elong	4237 Dec 24 18:32 4237 Dec 24 13:21	2°る27'04	
superior conj	4237 Jan 14 14:16	24° <b>る</b> 04'49	1025152	max. Earth dist.	4237 Dec 24 13:21 4237 Dec 27 15:38	2 32704 7° <b>る</b> 19'56	1.45171 AU
minimum elong	4237 Jan 14 14:10 4237 Jan 14 05:02	24 30449 23° <b>る</b> 28'34		evening rise	4237 Dec 27 13:38 4238 Jan 10 02:08	7 81930 28° <b>8</b> 17'39	1.431/1 AU
minimum clong	4237 Jan 18 08:35	23 <b>⊙</b> 28 34	1 24 34	evening rise	4238 Jan 11 04:30	28 <b>⊙</b> 17 39	
evening rise	4237 Jan 30 02:20	0 <b>∞</b> 18° <b>≈</b> 40'06		greatest brilliancy	4238 Jan 22 15:47	0 <b>≈</b> 17° <b>≈</b> 38'28	0.7m
evening rise	4237 Feb 06 03:39	0° <b>)</b>		greatest offinalicy	4238 Jan 31 09:43	0° <b>\</b>	-0.7111
greatest brilliancy	4237 Feb 06 08:38	0° <b> ★</b> 19'54	-0.9m	evening max el	4238 Feb 03 16:36		19°33'35
evening max el	4237 Feb 00 08:38 4237 Feb 20 09:19	20° <b>H</b> 15'48	-0.9111 18°47'26	asc. node	4238 Feb 03 10:30 4238 Feb 07 17:24	7° <b>∺</b> 02'51	19 33 33
asc. node	4237 Feb 20 09:19 4237 Feb 20 20:22	20° <del>X</del> 43'15	18 47 20	retrograde	4238 Feb 10 23:12	7° <b>₩</b> 58'47	
retrograde	4237 Feb 20 20:22 4237 Feb 27 02:04	23° <b>H</b> 59'58		evening set	4238 Feb 10 23:12 4238 Feb 14 12:28	6° <b>H</b> 44'49	
evening set	4237 Mar 02 08:00	23° <b>H</b> 59'32		inferior conj	4238 Feb 19 23:37	0° <b>)</b> (44°49°	3°15'10
inferior conj	4237 Mar 07 23:48	17° <b>)</b> 19'04	3°31'59	minimum elong	4238 Feb 19 21:36	0° <b>\</b> 55'33	3°14'49
minimum elong	4237 Mar 07 22:44 4237 Mar 07 22:44	17° <b>X</b> 1704	3°31'55	minimum clong	4238 Feb 20 14:28	30°R≈	3 1447
min. Earth dist.	4237 Mar 07 22:44 4237 Mar 09 18:52	15° <b>)</b> (06'34	0.65414 AU	min. Earth dist.	4238 Feb 21 03:44	29°≈16'34	0.66667 AU
morning rise	4237 Mar 13 13:03	11° <b>)</b> (06'37	0.05414710	morning rise	4238 Feb 25 06:30	24°≈34'54	0.00007710
direct	4237 Mar 13 13:03 4237 Mar 20 03:41	8° <b>\(\)</b> 15'59		direct	4238 Mar 03 09:59	24 ≈54 34 21°≈50'49	
desc. node	4237 Mar 29 17:41	12° <b>)</b> 42'28		morning max el	4238 Mar 15 17:44	29°≈11'23	25°44'15
morning max el	4237 Mai 29 17:41 4237 Apr 02 08:11	16° <b>H</b> 01'49	26°53'58	desc. node	4238 Mar 16 14:44	0° <b>₩</b> 05'28	25 1715
	4237 Apr 02 08:11 4237 Apr 13 20:53	0° <b>Υ</b>	20 23 30	acce. noue	4238 Mar 16 12:39	0° <b>X</b>	
	4237 Apr 13 20:33 4237 May 02 18:46	0°8			4238 Apr 07 16:45	0° <b>Υ</b>	
morning set	4237 May 08 03:17	9° <b>8</b> 55'35		morning set	4238 Apr 20 22:59	22° <b>Ƴ</b> 34'57	
max. Earth dist.	4237 May 12 12:01	18° <b>8</b> 29'56	1.34179 AU	morning set	4238 Apr 24 22:06	0°8	
max. Lutin dist.	125, 1410y 12 12.01	10 02/30	1.5.117 AU	max. Earth dist.	4238 Apr 24 18:06	29° <b>Y</b> 40'58	1.35811 AU
superior conj	4237 May 16 15:22	26° <b>8</b> 59'20	-0°32'33	max. Earth dist.	1230 ripi 21 10.00	27 1 1030	1.55011710
minimum elong	4237 May 16 17:05	27° <b>8</b> 08'18		superior conj	4238 Apr 30 08:40	10° <b>8</b> 40'48	-1°01'47
Ciong	4237 May 18 01:52	0°II	0 02 10	minimum elong	4238 Apr 30 12:00	10° <b>8</b> 57'33	
asc. node	4237 May 19 19:41	3° <b>Ⅱ</b> 40′23		asc. node	4238 May 06 16:43	23° <b>8</b> 37'12	
evening rise	4237 May 24 01:54	12° <b>Ⅲ</b> 38'53		evening rise	4238 May 08 08:21	27° <b>8</b> 00'06	
	4237 Jun 02 00:38	0°9			4238 May 09 19:50	0°II	
evening max el	4237 Jun 12 22:21	14° <b>©</b> 55'32	21°24'28	evening max el	4238 May 26 04:54	26° <b>∏</b> 04'06	20°05'56
retrograde	4237 Jun 25 01:52	20°954'25	- = -		4238 May 31 14:47	0°95	
desc. node	4237 Jun 25 16:53	20°953'30		retrograde	4238 Jun 05 16:20	1°910'53	
evening set	4237 Jun 27 11:07	20°541'23		evening set	4238 Jun 07 15:10	1°501'00	
inferior conj	4237 Jul 06 20:08	16°5941'56	-3°09'36	<b>5</b> •	4238 Jun 11 01:47	30°RⅡ	
,		- *					

desc. node	4238 Jun 12 13:54	29° <b>Ⅱ</b> 19'03		retrograde	4239 May 17 19:10	12° <b>Ⅱ</b> 12'15	
inferior conj	4238 Jun 16 16:12	27° <b>∏</b> 01'34	-1°12'58	evening set	4239 May 17 19:10 4239 May 19 20:08	11° <b>I</b> I59'23	
minimum elong	4238 Jun 16 12:47	27° <b>I</b> 106'40	1°11'41	inferior conj	4239 May 28 03:12	7° <b>I</b> I47'11	0°40'27
min. Earth dist.	4238 Jun 18 11:06	25° <b>I</b> 57'32	0.55180 AU	minimum elong	4239 May 28 04:48	7° <b>∏</b> 44'24	0°39'52
morning rise	4238 Jun 25 08:49	22° <b>I</b> I42'51	0.55100710	desc. node	4239 May 30 10:57	6° <b>Ⅱ</b> 11'45	0 37 32
direct	4238 Jun 29 11:15	22° <b>I</b> 106'18		min. Earth dist.	4239 May 31 02:20	5° <b>I</b> I46'06	0.56425 AU
morning max el	4238 Jul 13 03:23	28° <b>I</b> I48'45	23°58'18	morning rise	4239 Jun 05 10:17	2° <b>I</b> I53'00	0.30423710
morning max cr	4238 Jul 14 08:32	0°95	25 50 10	direct	4239 Jun 10 11:31	1° <b>Д</b> 53'18	
asc. node	4238 Aug 02 16:00	29° <b>©</b> 27'57		morning max el	4239 Jun 24 17:35	9° <b>П</b> 12'30	25°37'03
asc. node	4238 Aug 02 22:26	0°Ω		morning max ci	4239 Jul 10 08:22	0°95	23 37 03
morning set	4238 Aug 06 13:43	7° <b>Ω</b> 29'40		asc. node	4239 Jul 10 08:22 4239 Jul 20 13:02	19° <b>©</b> 12'29	
morning set	4236 Aug 00 13.43	7 062940		morning set	4239 Jul 20 13:02 4239 Jul 22 01:12	22°S22'03	
superior conj	4238 Aug 13 13:17	22° <b>Ω</b> 33'56	1°32'19	morning set	4239 Jul 25 14:12	0°Ω	
minimum elong	4238 Aug 13 11:18	22° <b>Ω</b> 23'13	1°32'08		4239 Jul 23 14.12	0 00	
max. Earth dist.	Č	$27^{\circ}\Omega 08'55$	1.33174 AU		4239 Jul 28 23:51	7° <b>Ω</b> 28'04	1°18'17
max. Earm dist.	4238 Aug 15 16:24	27 <b>32</b> 08 33	1.331/4 AU	superior conj			1°17'58
	4238 Aug 17 00:36			minimum elong	4239 Jul 28 21:32	9° <b>Ω</b> 38'53	
evening rise	4238 Aug 20 23:29	8° Mp 10'14		max. Earth dist.	4239 Jul 29 23:42		1.32394 AU
	4238 Sep 01 19:20	0° <b>™</b>		evening rise	4239 Aug 05 01:01	22° <b>Ω</b> 36'33	
desc. node	4238 Sep 08 13:13	10° <b>Ω</b> 37'24	27025125		4239 Aug 08 16:52	0° M)	
evening max el	4238 Sep 23 15:30	29° <b>Ω</b> 14'55	27°25'35	desc. node	4239 Aug 26 10:14	29° m 37'00	
	4238 Sep 24 10:53	0°M			4239 Aug 26 16:57	0∘ <b>⊽</b>	
retrograde	4238 Oct 07 06:02	6°M32′22		evening max el	4239 Sep 05 23:37	11° <b>Ω</b> 58'42	27°18'07
evening set	4238 Oct 14 09:07	3°M54'12		retrograde	4239 Sep 19 19:26	19° <b>Ω</b> 13'13	
min. Earth dist.	4238 Oct 18 01:52		0.63837 AU	evening set	4239 Sep 26 23:20	16° <b>≙</b> 49'45	
	4238 Oct 18 16:56	30°Ŗ <b>Ω</b>		min. Earth dist.	4239 Sep 30 14:01	14° <b>£</b> 00′13	0.61992 AU
inferior conj	4238 Oct 20 14:51	28° <b>≏</b> 01'23		inferior conj	4239 Oct 03 13:53	11° <b>≏</b> 16′02	
minimum elong	4238 Oct 20 19:45		2°52'30	minimum elong	4239 Oct 03 19:51	11° <b>≏</b> 02'20	3°51'21
morning rise	4238 Oct 27 07:45	22° <b>≏</b> 41'20		morning rise	4239 Oct 10 18:10	6° <b>≏</b> 15'01	
direct	4238 Oct 29 19:24	22° <b>≏</b> 10'50		direct	4239 Oct 13 02:43	5° <b>≏</b> 50'58	
asc. node	4238 Oct 29 15:13	22° <b>£</b> 10′59		asc. node	4239 Oct 16 12:15	6° <b>£</b> 42'43	
morning max el	4238 Nov 05 08:28	25° <b>≏</b> 35'52	17°52'00	morning max el	4239 Oct 20 00:11	9° <b>ഫ</b> 20'22	17°52'46
	4238 Nov 09 01:09	0°M₊			4239 Nov 02 13:30	0°M	
morning set	4238 Nov 22 01:30	21°M10'19		morning set	4239 Nov 04 21:17	4° <b>ጤ</b> 11'24	
	4238 Nov 27 05:24	0° <b>⊼</b> ¹					
	4238 Nov 27 05:24	0° <b>∡</b> 7		superior conj	4239 Nov 15 17:12	23°M22'23	0°45'45
superior conj	4238 Nov 27 05:24 4238 Dec 04 16:37	0° ⊀ 12° ⊀ 25'50	0°05'47	superior conj minimum elong	4239 Nov 15 17:12 4239 Nov 15 20:56	23°M38'23	0°45'45 0°45'15
superior conj minimum elong			0°05'47 0°05'41				
	4238 Dec 04 16:37	12° <b>⊀</b> 25'50			4239 Nov 15 20:56	23°M38'23	
minimum elong	4238 Dec 04 16:37 4238 Dec 04 17:15	12° <b>⊀</b> 25'50 12° <b>≮</b> 28'25		minimum elong	4239 Nov 15 20:56 4239 Nov 19 15:08	23°M38'23 0°⊀ 4°⊀34'40	
minimum elong behind sun begin	4238 Dec 04 16:37 4238 Dec 04 17:15 4238 Dec 04 07:58	12° <b>₹</b> 25'50 12° <b>₹</b> 28'25 11° <b>₹</b> 50'27		minimum elong desc. node	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33	23°M38'23 0°⊀ 4°⊀34'40	0°45'15
minimum elong behind sun begin behind sun end	4238 Dec 04 16:37 4238 Dec 04 17:15 4238 Dec 04 07:58 4238 Dec 05 02:31 4238 Dec 05 12:32 4238 Dec 10 09:56	12° ₹25'50 12° ₹28'25 11° ₹50'27 13° ₹06'18		minimum elong  desc. node max. Earth dist.	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33 4239 Nov 23 00:09	23°M.38'23 0° ♣7 4° ♣734'40 5° ♣734'26	0°45'15
minimum elong behind sun begin behind sun end desc. node	4238 Dec 04 16:37 4238 Dec 04 17:15 4238 Dec 04 07:58 4238 Dec 05 02:31 4238 Dec 05 12:32	12° ₹25'50 12° ₹28'25 11° ₹50'27 13° ₹06'18 13° ₹47'05	0°05'41	minimum elong  desc. node max. Earth dist.	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33 4239 Nov 23 00:09 4239 Nov 30 01:49	23°M.38'23 0°\$\sqrt{3}\$ 4°\$\sqrt{3}\$4'40 5°\$\sqrt{3}\$4'26 16°\$\sqrt{5}\$2'01	0°45'15
minimum elong behind sun begin behind sun end desc. node	4238 Dec 04 16:37 4238 Dec 04 17:15 4238 Dec 04 07:58 4238 Dec 05 02:31 4238 Dec 05 12:32 4238 Dec 10 09:56	12° ₹25'50 12° ₹28'25 11° ₹50'27 13° ₹06'18 13° ₹47'05 21° ₹39'26	0°05'41	minimum elong  desc. node max. Earth dist.	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33 4239 Nov 23 00:09 4239 Nov 30 01:49 4239 Dec 08 15:49	23°M38'23 0° Å' 4° Å'34'40 5° Å'34'26 16° Å'52'01 0°중	0°45'15 1.43021 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist.	4238 Dec 04 16:37 4238 Dec 04 17:15 4238 Dec 04 07:58 4238 Dec 05 02:31 4238 Dec 05 12:32 4238 Dec 10 09:56 4238 Dec 15 16:59	12° ₹25'50 12° ₹28'25 11° ₹50'27 13° ₹06'18 13° ₹47'05 21° ₹39'26 0° ₹5	0°05'41	minimum elong desc. node max. Earth dist. evening rise	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33 4239 Nov 23 00:09 4239 Nov 30 01:49 4239 Dec 08 15:49 4239 Dec 30 18:49	23°M.38'23 0°⊀ 4°⊀34'40 5°⊀34'26 16°⊀52'01 0°♂ 0°≈	0°45'15 1.43021 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist.	4238 Dec 04 16:37 4238 Dec 04 17:15 4238 Dec 04 07:58 4238 Dec 05 02:31 4238 Dec 05 12:32 4238 Dec 10 09:56 4238 Dec 15 16:59 4238 Dec 20 12:44	12° ₹25'50 12° ₹28'25 11° ₹50'27 13° ₹06'18 13° ₹47'05 21° ₹39'26 0° ₹ 7° ₹28'19 0° ≈	0°05'41	minimum elong desc. node max. Earth dist. evening rise evening max el	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33 4239 Nov 23 00:09 4239 Nov 30 01:49 4239 Dec 08 15:49 4239 Dec 30 18:49 4239 Dec 31 15:12	23°M38'23 0°⊀ 4°₹'34'40 5°₹'34'26 16°₹'52'01 0°₹ 0°≈ 0°≈53'06	0°45'15 1.43021 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	4238 Dec 04 16:37 4238 Dec 04 17:15 4238 Dec 04 07:58 4238 Dec 05 02:31 4238 Dec 05 12:32 4238 Dec 10 09:56 4238 Dec 15 16:59 4238 Dec 20 12:44 4239 Jan 04 12:27	12° ₹25'50 12° ₹28'25 11° ₹50'27 13° ₹06'18 13° ₹47'05 21° ₹39'26 0° ₹5 7° ₹28'19 0° ≈	0°05'41 1.44410 AU	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33 4239 Nov 23 00:09 4239 Nov 30 01:49 4239 Dec 08 15:49 4239 Dec 30 18:49 4239 Dec 31 15:12 4240 Jan 09 18:42	23°M38'23 0°メ 4°メ34'40 5°メ34'26 16°メ52'01 0°云 0°≈ 0°≈53'06 6°≈19'24	0°45'15 1.43021 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	4238 Dec 04 16:37 4238 Dec 04 17:15 4238 Dec 04 07:58 4238 Dec 05 02:31 4238 Dec 05 12:32 4238 Dec 10 09:56 4238 Dec 15 16:59 4238 Dec 20 12:44 4239 Jan 04 12:27 4239 Jan 17 18:38	12° 🖈 25'50 12° 🖈 28'25 11° 🖈 50'27 13° 🖈 06'18 13° 🖈 47'05 21° 🖈 39'26 0° उ 7° उ 28'19 0° ≈ 17° ≈ 19'14	0°05'41 1.44410 AU	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33 4239 Nov 23 00:09 4239 Nov 30 01:49 4239 Dec 08 15:49 4239 Dec 30 18:49 4239 Dec 31 15:12 4240 Jan 09 18:42 4240 Jan 12 11:29	23°M38'23 0° ₹ 4° ₹34'40 5° ₹34'26 16° ₹52'01 0° ₹ 0° ≈ 0° ≈ 53'06 6° ≈ 19'24 5° ≈ 40'10	0°45'15 1.43021 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el retrograde	4238 Dec 04 16:37 4238 Dec 04 17:15 4238 Dec 04 07:58 4238 Dec 05 02:31 4238 Dec 05 12:32 4238 Dec 10 09:56 4238 Dec 15 16:59 4238 Dec 20 12:44 4239 Jan 04 12:27 4239 Jan 17 18:38 4239 Jan 25 21:25	12° 🖈 25'50 12° 🖈 28'25 11° 🖈 50'27 13° 🖈 06'18 13° 🖈 47'05 21° 🖈 39'26 0° 云 7° 云 28'19 0° ≈ 17° ≈ 19'14 22° ≈ 06'13	0°05'41 1.44410 AU	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33 4239 Nov 23 00:09 4239 Nov 30 01:49 4239 Dec 08 15:49 4239 Dec 30 18:49 4239 Dec 31 15:12 4240 Jan 09 18:42 4240 Jan 12 11:29 4240 Jan 14 03:09	23°M38'23 0° ₹ 4° ₹34'40 5° ₹34'26 16° ₹52'01 0° ₹ 0° ≈ 0° ≈53'06 6° ≈19'24 5° ≈40'10 4° ≈35'39	0°45'15 1.43021 AU 21°46'29
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el retrograde asc. node	4238 Dec 04 16:37 4238 Dec 04 17:15 4238 Dec 04 07:58 4238 Dec 05 02:31 4238 Dec 05 12:32 4238 Dec 10 09:56 4238 Dec 15 16:59 4238 Dec 20 12:44 4239 Jan 04 12:27 4239 Jan 17 18:38 4239 Jan 25 21:25 4239 Jan 25 14:27	12° 🖈 25'50 12° 🖈 28'25 11° 🖈 50'27 13° 🖈 06'18 13° 🖈 47'05 21° 🖈 39'26 0° 云 7° 云 28'19 0° ≈ 17° ≈ 19'14 22° ≈ 06'13 22° ≈ 05'45	0°05'41 1.44410 AU	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33 4239 Nov 23 00:09 4239 Nov 30 01:49 4239 Dec 08 15:49 4239 Dec 30 18:49 4239 Dec 31 15:12 4240 Jan 09 18:42 4240 Jan 12 11:29 4240 Jan 14 03:09 4240 Jan 18 05:37	23°M38'23 0° ₹ 4° ₹34'40 5° ₹34'26 16° ₹52'01 0° ₹ 0° ≈ 0° ≈ 0° ≈53'06 6° ≈19'24 5° ≈ 40'10 4° ≈35'39 30° ₹₹	0°45'15  1.43021 AU  21°46'29  2°11'21
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set	4238 Dec 04 16:37 4238 Dec 04 17:15 4238 Dec 04 07:58 4238 Dec 05 02:31 4238 Dec 05 12:32 4238 Dec 10 09:56 4238 Dec 15 16:59 4238 Dec 20 12:44 4239 Jan 04 12:27 4239 Jan 17 18:38 4239 Jan 25 21:25 4239 Jan 25 14:27 4239 Jan 29 19:26	12° 🖈 25'50 12° 🖈 28'25 11° 🖈 50'27 13° 🖈 06'18 13° 🖈 47'05 21° 🖈 39'26 0° 云 7° 云 28'19 0° ≈ 17° ≈ 19'14 22° ≈ 06'13 22° ≈ 05'45 20° ≈ 37'49	0°05'41 1.44410 AU 20°34'24	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set  inferior conj	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33 4239 Nov 23 00:09 4239 Nov 30 01:49 4239 Dec 08 15:49 4239 Dec 30 18:49 4239 Dec 31 15:12 4240 Jan 09 18:42 4240 Jan 12 11:29 4240 Jan 14 03:09 4240 Jan 18 05:37 4240 Jan 19 11:23	23°M38'23 0° ₹ 4° ₹34'40 5° ₹34'26 16° ₹52'01 0° ₹ 0° ≈ 0° ≈ 0° ≈53'06 6° ≈19'24 5° ≈40'10 4° ≈35'39 30° ₹₹ 28° ₹317'36	0°45'15  1.43021 AU  21°46'29  2°11'21
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj	4238 Dec 04 16:37 4238 Dec 04 17:15 4238 Dec 04 07:58 4238 Dec 05 02:31 4238 Dec 05 12:32 4238 Dec 10 09:56 4238 Dec 15 16:59 4238 Dec 20 12:44 4239 Jan 04 12:27 4239 Jan 17 18:38 4239 Jan 25 21:25 4239 Jan 25 14:27 4239 Jan 29 19:26 4239 Feb 04 04:12	12° 🖈 25'50 12° 🖈 28'25 11° 🖈 50'27 13° 🗷 06'18 13° 🗷 47'05 21° 🛪 39'26 0° 云 7° 云 28'19 0° ≈ 17° ≈ 19'14 22° ≈ 06'13 22° ≈ 05'45 20° ≈ 37'49 14° ≈ 29'13	0°05'41 1.44410 AU 20°34'24 2°47'38	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33 4239 Nov 23 00:09 4239 Nov 30 01:49 4239 Dec 08 15:49 4239 Dec 30 18:49 4239 Dec 31 15:12 4240 Jan 09 18:42 4240 Jan 12 11:29 4240 Jan 14 03:09 4240 Jan 18 05:37 4240 Jan 19 11:23 4240 Jan 19 09:01	23°M38'23 0°ズ 4°ズ34'40 5°ズ34'26 16°ズ52'01 0°云 0°≈ 0°≈53'06 6°≈19'24 5°≈40'10 4°≈35'39 30°Rउ 28°उ17'36 28°उ25'50	0°45'15  1.43021 AU  21°46'29  2°11'21 2°10'35
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	4238 Dec 04 16:37 4238 Dec 04 17:15 4238 Dec 04 07:58 4238 Dec 05 02:31 4238 Dec 05 12:32 4238 Dec 10 09:56 4238 Dec 15 16:59 4238 Dec 20 12:44 4239 Jan 04 12:27 4239 Jan 17 18:38 4239 Jan 25 21:25 4239 Jan 25 14:27 4239 Jan 29 19:26 4239 Feb 04 04:12 4239 Feb 04 01:45	12° 🗷 25'50 12° 🗷 28'25 11° 🗷 50'27 13° 🗷 06'18 13° 🗷 47'05 21° 🗷 39'26 0° 🛪 7° 🛪 28'19 0° 🕿 17° ≈ 19'14 22° ≈ 06'13 22° ≈ 05'45 20° ≈ 37'49 14° ≈ 29'13 14° ≈ 37'34	0°05'41  1.44410 AU  20°34'24  2°47'38 2°47'00	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist.	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33 4239 Nov 23 00:09 4239 Nov 30 01:49 4239 Dec 08 15:49 4239 Dec 30 18:49 4239 Dec 31 15:12 4240 Jan 09 18:42 4240 Jan 12 11:29 4240 Jan 14 03:09 4240 Jan 18 05:37 4240 Jan 19 11:23 4240 Jan 19 09:01 4240 Jan 19 09:01 4240 Jan 19 14:00	23°M38'23 0°ズ 4°ズ34'40 5°ズ34'26 16°ズ52'01 0°云 0°≈ 0°≈53'06 6°≈19'24 5°≈40'10 4°≈35'39 30°RG 28°G17'36 28°G25'50 28°G08'31	0°45'15  1.43021 AU  21°46'29  2°11'21 2°10'35
minimum elong behind sun begin behind sun end desc. node max. Earth dist.  evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	4238 Dec 04 16:37 4238 Dec 04 17:15 4238 Dec 04 07:58 4238 Dec 05 02:31 4238 Dec 05 12:32 4238 Dec 10 09:56 4238 Dec 15 16:59 4238 Dec 20 12:44 4239 Jan 04 12:27 4239 Jan 17 18:38 4239 Jan 25 21:25 4239 Jan 25 14:27 4239 Jan 29 19:26 4239 Feb 04 04:12 4239 Feb 04 01:45 4239 Feb 04 18:51	12° *725'50 12° *728'25 11° *750'27 13° *706'18 13° *747'05 21° *739'26 0° *5 7° *528'19 0° ※ 17° ※19'14 22° ※06'13 22° ※05'45 20° ※37'49 14° ※29'13 14° ※37'34 13° ※39'05	0°05'41  1.44410 AU  20°34'24  2°47'38 2°47'00	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33 4239 Nov 23 00:09 4239 Nov 30 01:49 4239 Dec 08 15:49 4239 Dec 30 18:49 4239 Dec 31 15:12 4240 Jan 09 18:42 4240 Jan 12 11:29 4240 Jan 14 03:09 4240 Jan 18 05:37 4240 Jan 19 11:23 4240 Jan 19 09:01 4240 Jan 19 14:00 4240 Jan 24 14:42	23°M38'23 0°ズ 4°ズ34'40 5°ズ34'26 16°ズ52'01 0°云 0°≈ 0°≈53'06 6°≈19'24 5°≈40'10 4°≈35'39 30°Rउ 28°उ17'36 28°उ25'50 28°उ08'31 22°उ05'50	0°45'15  1.43021 AU  21°46'29  2°11'21 2°10'35 0.67948 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist.  evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.  morning rise	4238 Dec 04 16:37 4238 Dec 04 17:15 4238 Dec 04 07:58 4238 Dec 05 02:31 4238 Dec 05 12:32 4238 Dec 10 09:56 4238 Dec 15 16:59 4238 Dec 20 12:44 4239 Jan 04 12:27 4239 Jan 17 18:38 4239 Jan 25 21:25 4239 Jan 25 14:27 4239 Jan 29 19:26 4239 Feb 04 04:12 4239 Feb 04 01:45 4239 Feb 04 18:51 4239 Feb 09 07:53	12° \$\frac{1}{2}\$5'0 12° \$\frac{1}{2}\$28'25 11° \$\frac{1}{2}\$50'27 13° \$\frac{1}{2}\$06'18 13° \$\frac{1}{4}\$7'05 21° \$\frac{1}{3}\$9'26 0° \$\frac{1}{3}\$20' \$\approx 05'45 20° \$\approx 37'49 14° \$\approx 29'13 14° \$\approx 37'34 13° \$\approx 39'05 8° \$\approx 15'29	0°05'41  1.44410 AU  20°34'24  2°47'38 2°47'00	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33 4239 Nov 23 00:09 4239 Nov 30 01:49 4239 Dec 08 15:49 4239 Dec 30 18:49 4239 Dec 31 15:12 4240 Jan 09 18:42 4240 Jan 12 11:29 4240 Jan 14 03:09 4240 Jan 18 05:37 4240 Jan 19 09:01 4240 Jan 19 11:23 4240 Jan 19 14:00 4240 Jan 24 14:42 4240 Jan 29 13:41	23°M38'23 0°ズ 4°ズ34'40 5°ズ34'26 16°ズ52'01 0°云 0°≈ 0°≈53'06 6°≈19'24 5°≈40'10 4°≈35'39 30°Rउ 28°उ17'36 28°उ25'50 28°उ08'31 22°उ05'50 19°उ58'11	0°45'15  1.43021 AU  21°46'29  2°11'21 2°10'35 0.67948 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist.  evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.  morning rise direct	4238 Dec 04 16:37 4238 Dec 04 17:15 4238 Dec 04 07:58 4238 Dec 05 02:31 4238 Dec 05 12:32 4238 Dec 10 09:56 4238 Dec 15 16:59 4238 Dec 20 12:44 4239 Jan 04 12:27 4239 Jan 25 21:25 4239 Jan 25 14:27 4239 Jan 29 19:26 4239 Feb 04 04:12 4239 Feb 04 01:45 4239 Feb 04 18:51 4239 Feb 09 07:53 4239 Feb 14 21:34	12° \$\frac{1}{2}\$5'50 12° \$\frac{1}{2}\$28'25 11° \$\frac{1}{2}\$50'27 13° \$\frac{1}{2}\$06'18 13° \$\frac{1}{4}\$7'05 21° \$\frac{1}{3}\$39'26 0° \$\frac{1}{3}\$20'** 17° \$\sigma 19'14 22° \$\sigma 06'13 22° \$\sigma 05'45 20° \$\sigma 37'49 14° \$\sigma 29'13 14° \$\sigma 37'34 13° \$\sigma 39'05 8° \$\sigma 15'29 5° \$\sigma 46'58	0°05'41  1.44410 AU  20°34'24  2°47'38 2°47'00 0.67504 AU	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33 4239 Nov 23 00:09 4239 Nov 30 01:49 4239 Dec 08 15:49 4239 Dec 30 18:49 4239 Dec 31 15:12 4240 Jan 09 18:42 4240 Jan 12 11:29 4240 Jan 14 03:09 4240 Jan 18 05:37 4240 Jan 19 11:23 4240 Jan 19 09:01 4240 Jan 19 14:00 4240 Jan 24 14:42 4240 Jan 29 13:41 4240 Feb 08 12:01	23°M38'23 0°ズ 4°ズ34'40 5°ズ34'26 16°ズ52'01 0°云 0°≈ 0°≈53'06 6°≈19'24 5°≈40'10 4°≈35'39 30°Rउ 28°उ17'36 28°उ25'50 28°उ08'31 22°उ08'55 19°उ58'11 25°उ51'06	0°45'15  1.43021 AU  21°46'29  2°11'21 2°10'35 0.67948 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist.  evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.  morning rise direct morning max el	4238 Dec 04 16:37 4238 Dec 04 07:58 4238 Dec 05 02:31 4238 Dec 05 02:31 4238 Dec 05 12:32 4238 Dec 10 09:56 4238 Dec 15 16:59 4238 Dec 20 12:44 4239 Jan 04 12:27 4239 Jan 17 18:38 4239 Jan 25 21:25 4239 Jan 25 14:27 4239 Jan 29 19:26 4239 Feb 04 04:12 4239 Feb 04 01:45 4239 Feb 04 18:51 4239 Feb 09 07:53 4239 Feb 14 21:34 4239 Feb 26 02:22	12° 🖈 25'50 12° 🖈 28'25 11° 🖈 50'27 13° 🗷 06'18 13° 🖈 47'05 21° 🖈 39'26 0° 云 7° 云 28'19 0° 会 17° 念 19'14 22° ≈ 06'13 22° ≈ 05'45 20° ≈ 37'49 14° ≈ 29'13 14° ≈ 37'34 13° ≈ 39'05 8° ≈ 15'29 5° ≈ 46'58 12° ≈ 28'30	0°05'41  1.44410 AU  20°34'24  2°47'38 2°47'00 0.67504 AU	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct morning max el	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33 4239 Nov 23 00:09 4239 Nov 30 01:49 4239 Dec 08 15:49 4239 Dec 30 18:49 4239 Dec 31 15:12 4240 Jan 09 18:42 4240 Jan 12 11:29 4240 Jan 14 03:09 4240 Jan 19 11:23 4240 Jan 19 11:23 4240 Jan 19 19:01 4240 Jan 19 14:00 4240 Jan 24 14:42 4240 Jan 29 13:41 4240 Feb 08 12:01 4240 Feb 12 06:43	23°M38'23 0°ズ 4°ズ34'40 5°ズ34'26 16°ズ52'01 0°云 0°≈ 0°≈53'06 6°≈19'24 5°≈40'10 4°≈35'39 30°Rउ 28°उ17'36 28°उ25'50 28°उ05'50 19°उ58'11 25°उ51'06 0°≈	0°45'15  1.43021 AU  21°46'29  2°11'21 2°10'35 0.67948 AU
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minimum elong behind sun begin behind sun end desc. node max. Earth dist.  evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.  superior conj minimum elong	4238 Dec 04 16:37 4238 Dec 04 07:58 4238 Dec 04 07:58 4238 Dec 05 02:31 4238 Dec 05 02:31 4238 Dec 05 12:32 4238 Dec 10 09:56 4238 Dec 15 16:59 4238 Dec 20 12:44 4239 Jan 04 12:27 4239 Jan 17 18:38 4239 Jan 25 21:25 4239 Jan 25 14:27 4239 Jan 29 19:26 4239 Feb 04 04:12 4239 Feb 04 01:45 4239 Feb 04 18:51 4239 Feb 04 18:51 4239 Feb 04 18:51 4239 Feb 14 21:34 4239 Feb 14 21:34 4239 Feb 26 02:22 4239 Mar 03 11:46 4239 Mar 12 04:46 4239 Mar 31 11:59 4239 Apr 06 15:08 4239 Apr 13 14:26 4239 Apr 13 19:01 4239 Apr 16 19:44	12° ₹25'50 12° ₹28'25 11° ₹50'27 13° ₹06'18 13° ₹47'05 21° ₹39'26 0° ₹5 7° ₹528'19 0° ≈ 17° ≈19'14 22° ≈06'13 22° ≈05'45 20° ≈37'49 14° ≈29'13 14° ≈37'34 13° ≈39'05 8° ≈15'29 5° ≈46'58 12° ≈28'30 18° ≈31'00 0° ₹ 0° ₹ 0° ₹ 4° ₹12'56 10° ₹44'34 23° ₹44'20 24° ₹06'18 0° ₹	0°05'41  1.44410 AU  20°34'24  2°47'38 2°47'00 0.67504 AU  24°19'36  1.37813 AU -1°29'24	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct morning max el  desc. node  morning set max. Earth dist.	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33 4239 Nov 23 00:09 4239 Nov 30 01:49 4239 Dec 08 15:49 4239 Dec 30 18:49 4239 Dec 31 15:12 4240 Jan 09 18:42 4240 Jan 12 11:29 4240 Jan 14 03:09 4240 Jan 18 05:37 4240 Jan 19 09:01 4240 Jan 19 11:23 4240 Jan 19 14:00 4240 Jan 24 14:42 4240 Jan 29 13:41 4240 Feb 08 12:01 4240 Feb 12 06:43 4240 Feb 18 08:47 4240 Mar 04 17:48 4240 Mar 13 20:37 4240 Mar 18 10:11 4240 Mar 26 04:34 4240 Mar 26 09:10 4240 Mar 26 09:10 4240 Apr 04 23:28	23°M38'23 0°ズ 4°ズ34'40 5°ズ34'26 16°ズ52'01 0°云 0°≈ 0°≈53'06 6°≈19'24 5°≈40'10 4°≈35'39 30°Rउ 28°उ17'36 28°उ25'50 28°उ05'50 19°उ58'11 25°उ51'06 0°≈ 7°≈41'40 0°Ж 14°X34'13 22°X15'28 0°Y 6°Y00'08 6°Y21'09 24°Y23'08	0°45'15  1.43021 AU  21°46'29  2°11'21 2°10'35 0.67948 AU  22°50'21  1.39999 AU  -1°52'17
minimum elong behind sun begin behind sun end desc. node max. Earth dist.  evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.  superior conj minimum elong	4238 Dec 04 16:37 4238 Dec 04 17:15 4238 Dec 04 07:58 4238 Dec 05 02:31 4238 Dec 05 02:31 4238 Dec 05 12:32 4238 Dec 10 09:56 4238 Dec 15 16:59 4238 Dec 20 12:44 4239 Jan 04 12:27 4239 Jan 17 18:38 4239 Jan 25 21:25 4239 Jan 25 14:27 4239 Jan 29 19:26 4239 Feb 04 04:12 4239 Feb 04 01:45 4239 Feb 04 18:51 4239 Feb 04 18:51 4239 Feb 04 07:53 4239 Feb 14 21:34 4239 Feb 14 21:34 4239 Feb 26 02:22 4239 Mar 03 11:46 4239 Mar 12 04:46 4239 Mar 31 11:59 4239 Apr 06 15:08 4239 Apr 13 19:01 4239 Apr 13 19:01 4239 Apr 16 19:44 4239 Apr 16 19:44 4239 Apr 16 19:44 4239 Apr 22 08:33	12° *725'50 12° *728'25 11° *750'27 13° *706'18 13° *747'05 21° *739'26 0° *8 17° ≈19'14 22° ≈06'13 22° ≈05'45 20° ≈37'49 14° ≈29'13 14° ≈37'34 13° ≈39'05 8° ≈15'29 5° ≈46'58 12° ≈28'30 18° ≈31'00 0° +4 0° +4 0° +4 23° +44'20 24° +06'18 0° +5 10° +57'23	0°05'41  1.44410 AU  20°34'24  2°47'38 2°47'00 0.67504 AU  24°19'36  1.37813 AU -1°29'24	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct morning max el  desc. node  morning set max. Earth dist.	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33 4239 Nov 23 00:09 4239 Nov 30 01:49 4239 Dec 08 15:49 4239 Dec 30 18:49 4239 Dec 31 15:12 4240 Jan 09 18:42 4240 Jan 12 11:29 4240 Jan 14 03:09 4240 Jan 19 09:01 4240 Jan 19 11:23 4240 Jan 19 14:00 4240 Jan 19 14:00 4240 Jan 24 14:42 4240 Jan 29 13:41 4240 Feb 08 12:01 4240 Feb 12 06:43 4240 Feb 18 08:47 4240 Mar 04 17:48 4240 Mar 13 20:37 4240 Mar 18 10:11 4240 Mar 26 04:34 4240 Mar 26 09:10 4240 Apr 04 23:28 4240 Apr 07 22:39	23°M38'23 0°ズ 4°ズ34'40 5°ズ34'26 16°ズ52'01 0°云 0°≈ 0°≈53'06 6°≈19'24 5°≈40'10 4°≈35'39 30°R♂ 28°♂25'50 28°♂25'50 19°♂58'11 25°♂51'06 0°≈ 7°≈41'40 0°ዢ 14°X34'13 22°X15'28 0°Y 6°Y00'08 6°Y21'09 24°Y23'08 0°႘	0°45'15  1.43021 AU  21°46'29  2°11'21 2°10'35 0.67948 AU  22°50'21  1.39999 AU  -1°52'17
minimum elong behind sun begin behind sun end desc. node max. Earth dist.  evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.  superior conj minimum elong	4238 Dec 04 16:37 4238 Dec 04 17:15 4238 Dec 04 07:58 4238 Dec 05 02:31 4238 Dec 05 02:31 4238 Dec 05 12:32 4238 Dec 10 09:56 4238 Dec 15 16:59 4238 Dec 20 12:44 4239 Jan 04 12:27 4239 Jan 25 21:25 4239 Jan 25 14:27 4239 Jan 29 19:26 4239 Feb 04 04:12 4239 Feb 04 01:45 4239 Feb 04 18:51 4239 Feb 04 18:51 4239 Feb 04 07:53 4239 Feb 14 21:34 4239 Feb 04 02:22 4239 Mar 03 11:46 4239 Mar 12 04:46 4239 Mar 12 04:46 4239 Mar 31 11:59 4239 Apr 06 15:08 4239 Apr 13 19:01 4239 Apr 13 19:01 4239 Apr 16 19:44 4239 Apr 22 08:33 4239 Apr 23 13:44	12° *725'50 12° *728'25 11° *750'27 13° *706'18 13° *747'05 21° *739'26 0° *8 17° ≈19'14 22° ≈06'13 22° ≈05'45 20° ≈37'49 14° ≈29'13 14° ≈37'34 13° ≈37'34 13° ≈37'34 13° ≈31'00 0° *H 0° Y 4° Y 12'56 10° Y 44'34 23° Y 44'20 24° Y 06'18 0° *B 10° *	0°05'41  1.44410 AU  20°34'24  2°47'38 2°47'00 0.67504 AU  24°19'36  1.37813 AU -1°29'24	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct morning max el  desc. node  morning set max. Earth dist.  superior conj minimum elong evening rise asc. node	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33 4239 Nov 23 00:09 4239 Nov 30 01:49 4239 Dec 08 15:49 4239 Dec 30 18:49 4239 Dec 31 15:12 4240 Jan 09 18:42 4240 Jan 12 11:29 4240 Jan 18 05:37 4240 Jan 19 11:23 4240 Jan 19 11:23 4240 Jan 19 14:00 4240 Jan 19 14:00 4240 Jan 24 14:42 4240 Jan 29 13:41 4240 Feb 08 12:01 4240 Feb 12 06:43 4240 Feb 18 08:47 4240 Mar 04 17:48 4240 Mar 13 20:37 4240 Mar 18 10:11 4240 Mar 26 04:34 4240 Mar 26 09:10 4240 Apr 04 23:28 4240 Apr 07 22:39 4240 Apr 09 10:45	23°M.38'23 0°  4°  4°  34'40 5°  34'26 16°  752'01 0°  0°  0°  0°  5°  4°  34'26 6°  19'24 5°  4°  35'39 30°  87 28°  30'  87 28°  30' 87 28°  30' 87 28°  30' 87 28°  30' 87 28°  30' 87 28°  30' 87 28°  30' 87 28°  30' 87 28°  30' 87 28°  30' 87 28°  30' 87 28°  30' 87 28' 31 22°  30' 87	0°45'15  1.43021 AU  21°46'29  2°11'21 2°10'35 0.67948 AU  22°50'21  1.39999 AU  -1°52'17 1°51'54
minimum elong behind sun begin behind sun end desc. node max. Earth dist.  evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.  superior conj minimum elong	4238 Dec 04 16:37 4238 Dec 04 17:15 4238 Dec 04 07:58 4238 Dec 05 02:31 4238 Dec 05 02:31 4238 Dec 05 12:32 4238 Dec 10 09:56 4238 Dec 15 16:59 4238 Dec 20 12:44 4239 Jan 04 12:27 4239 Jan 17 18:38 4239 Jan 25 21:25 4239 Jan 25 14:27 4239 Jan 29 19:26 4239 Feb 04 04:12 4239 Feb 04 01:45 4239 Feb 04 18:51 4239 Feb 04 18:51 4239 Feb 04 07:53 4239 Feb 14 21:34 4239 Feb 14 21:34 4239 Feb 26 02:22 4239 Mar 03 11:46 4239 Mar 12 04:46 4239 Mar 31 11:59 4239 Apr 06 15:08 4239 Apr 13 19:01 4239 Apr 13 19:01 4239 Apr 16 19:44 4239 Apr 16 19:44 4239 Apr 16 19:44 4239 Apr 22 08:33	12° ₹25'50 12° ₹28'25 11° ₹50'27 13° ₹06'18 13° ₹47'05 21° ₹39'26 0° ₹ 7° ₹28'19 0° ≈ 17° ≈19'14 22° ≈06'13 22° ≈05'45 20° ≈37'49 14° ≈29'13 14° ≈37'34 13° ≈39'05 8° ≈15'29 5° ≈46'58 12° ≈28'30 18° ≈31'00 0° ₹ 0° ♀ 4° ♀12'56 10° ♀44'34 23° ♀44'20 24° ♀06'18 0° ₺ 10° ₺57'23 13° ₺21'19 0° Ⅱ	0°05'41  1.44410 AU  20°34'24  2°47'38 2°47'00 0.67504 AU  24°19'36  1.37813 AU -1°29'24	minimum elong  desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct morning max el  desc. node  morning set max. Earth dist.	4239 Nov 15 20:56 4239 Nov 19 15:08 4239 Nov 22 09:33 4239 Nov 23 00:09 4239 Nov 30 01:49 4239 Dec 08 15:49 4239 Dec 30 18:49 4239 Dec 31 15:12 4240 Jan 09 18:42 4240 Jan 12 11:29 4240 Jan 14 03:09 4240 Jan 19 09:01 4240 Jan 19 11:23 4240 Jan 19 14:00 4240 Jan 19 14:00 4240 Jan 24 14:42 4240 Jan 29 13:41 4240 Feb 08 12:01 4240 Feb 12 06:43 4240 Feb 18 08:47 4240 Mar 04 17:48 4240 Mar 13 20:37 4240 Mar 18 10:11 4240 Mar 26 04:34 4240 Mar 26 09:10 4240 Apr 04 23:28 4240 Apr 07 22:39	23°M38'23 0°ズ 4°ズ34'40 5°ズ34'26 16°ズ52'01 0°云 0°≈ 0°≈53'06 6°≈19'24 5°≈40'10 4°≈35'39 30°R♂ 28°♂25'50 28°♂25'50 19°♂58'11 25°♂51'06 0°≈ 7°≈41'40 0°ዢ 14°X34'13 22°X15'28 0°Y 6°Y00'08 6°Y21'09 24°Y23'08 0°႘	0°45'15  1.43021 AU  21°46'29  2°11'21 2°10'35 0.67948 AU  22°50'21  1.39999 AU  -1°52'17

	4240 M 01 00-01	220 4 411 0			4241 A 12 21.40	CO <b>U</b> 10147	
evening set	4240 May 01 00:01	23° <b>8</b> 44'18	2007111	evening set	4241 Apr 13 21:49	6° <b>8</b> 10'47	2002101
inferior conj	4240 May 08 11:16	19° <b>8</b> 12'47	2°07'11	inferior conj	4241 Apr 20 15:57	1° <b>8</b> 18'21	3°02'01
minimum elong	4240 May 08 14:52	19° <b>8</b> 05'33	2°06'08	minimum elong	4241 Apr 20 18:57	1° <b>8</b> 11'20	3°01'26
min. Earth dist.	4240 May 11 21:36	16° <b>8</b> 29'16	0.58310 AU		4241 Apr 22 01:23	30° <b>₹Ƴ</b>	
morning rise	4240 May 16 02:35	13° <b>8</b> 45'59		min. Earth dist.	4241 Apr 23 22:57	28° <b>Ƴ</b> 15'52	0.60480 AU
desc. node	4240 May 16 07:58	13° <b>8</b> 39'15		morning rise	4241 Apr 27 13:53	25° <b>Y</b> 28'31	
direct	4240 May 22 02:12	12° <b>8</b> 13'11		desc. node	4241 May 03 05:00	23° <b>Y</b> 24'05	
morning max el	4240 Jun 05 11:32	19° <b>8</b> 55'05	26°55'39	direct	4241 May 04 04:51	23° <b>Y</b> 21'17	
	4240 Jun 14 02:13	$\Pi^{\circ}0$			4241 May 17 04:19	0°B	
	4240 Jul 01 23:33	0ಂಣ		morning max el	4241 May 18 11:47	1° <b>8</b> 15'22	27°42'03
morning set	4240 Jul 05 10:56	7° <b>©</b> 07'31			4241 Jun 08 07:11	0°П	
asc. node	4240 Jul 06 10:02	9° <b>5</b> 09'42		morning set	4241 Jun 19 17:09	21° <b>I</b> I40'32	
asc. Houc	4240 Jul 00 10.02	9 30942		•		21 H4032 29°H14'45	
	1010 7 1 10 11 00		0050150	asc. node	4241 Jun 23 07:04		
superior conj	4240 Jul 12 11:38	22° <b>©</b> 23'18	0°59'50		4241 Jun 23 15:27	0°©	
minimum elong	4240 Jul 12 09:26	22° <b>©</b> 11'14	0°59'27	max. Earth dist.	4241 Jun 25 21:58	4° <b>©</b> 56'57	1.32074 AU
max. Earth dist.	4240 Jul 12 10:46	22° <b>©</b> 18'34	1.32031 AU				
	4240 Jul 15 22:40	$0 {\circ} \Omega$		superior conj	4241 Jun 26 22:54	7° <b>©</b> 13'49	0°37'34
evening rise	4240 Jul 19 08:08	7° <b>Ω</b> 17'43		minimum elong	4241 Jun 26 21:18	7° <b>©</b> 05'03	0°37'14
	4240 Jul 31 04:53	0° <b>m</b> )		evening rise	4241 Jul 03 18:35	22° <b>©</b> 06'25	
desc. node	4240 Aug 12 07:15	17° Mp 42'12		Č	4241 Jul 07 13:59	$0^{\circ}\Omega$	
evening max el	4240 Aug 18 01:58	23° m 59'10	26°37'11		4241 Jul 26 01:43	0° m)	
evening max er	4240 Aug 26 16:30	ე∘ <u>ი</u>	20 37 11	desc. node	4241 Jul 30 04:15	4° Mp 31'04	
	· ·	0 <b>==</b> 1° <b>⊆</b> 09'15					25925127
retrograde	4240 Sep 01 00:44			evening max el	4241 Jul 30 20:55	5° m 11'39	25°25'37
	4240 Sep 06 05:53	30°R Mp		retrograde	4241 Aug 13 19:58	12° Mp 16'42	
evening set	4240 Sep 07 19:17	29° Mp 13'22		evening set	4241 Aug 19 16:19	10° Mp 57'26	
min. Earth dist.	4240 Sep 11 15:47	26° Mp 37′26	0.59954 AU	min. Earth dist.	4241 Aug 24 08:46	8° Mp 17'33	0.57923 AU
inferior conj	4240 Sep 14 21:49	24° Mp 01'29	-4°42'01	inferior conj	4241 Aug 27 11:20	6° Mp 08′27	-5°10'10
minimum elong	4240 Sep 15 03:11	23° <b>m</b> 50'43	4°41'04	minimum elong	4241 Aug 27 13:12	6° Mp 05′12	5°10'04
morning rise	4240 Sep 22 13:08	19° <b>m</b> 22'10		morning rise	4241 Sep 04 12:22	1° mp 52'02	
direct	4240 Sep 24 21:52	19° Mp 01'37		direct	4241 Sep 07 00:41	1° <b>m</b> 32'44	
asc. node	4240 Oct 02 09:17	22° m 38'20		morning max el	4241 Sep 15 15:31	5° m) 37'53	18°53'41
morning max el	4240 Oct 02 11:38	22° m/44'00	18°12'50	asc. node	4241 Sep 19 06:19	9° <b>m</b> ) 43'27	10 23 11
morning max ci	4240 Oct 02 11:38 4240 Oct 08 05:11	0° <b>⊡</b>	16 12 30	asc. nouc	•	ე° <u>ი</u>	
					4241 Oct 01 02:54		
morning set	4240 Oct 18 07:53	17° <b>£</b> 54'22		morning set	4241 Oct 02 04:49	2° <b>ഫ</b> 06'52	
	4240 Oct 24 18:22	0°M₊				_	
				superior conj	4241 Oct 10 15:44	18° <b>≏</b> 37'10	1°33'36
superior conj	4240 Oct 27 18:37	5°M30'51	1°15'04	minimum elong	4241 Oct 10 18:26	18° <b>≏</b> 50'00	1°33'23
minimum elong	4240 Oct 27 22:34	5°M48'46	1°14'38		4241 Oct 16 19:05	0°M₊	
max. Earth dist.	4240 Nov 04 09:26	18° <b>™</b> 52'22	1.41175 AU	max. Earth dist.	4241 Oct 17 14:54	1° <b>M</b> 28'41	1.39103 AU
desc. node	4240 Nov 08 06:34	25°M20'47		evening rise	4241 Oct 21 12:20	8°M16'45	
evening rise	4240 Nov 09 07:36	27°M03'03		desc. node	4241 Oct 26 03:35	16° <b>™</b> 01'46	
8	4240 Nov 11 03:25	0° <b>∡</b> 7			4241 Nov 04 02:08	0° <b>⊼</b> ¹	
	4240 Dec 01 08:44	ੈ°ਤ		evening max el	4241 Nov 25 20:36	28°× 10'02	24°24'41
evening max el	4240 Dec 13 07:17	14° <b>る</b> 29'47	23°05'15	evening max er	4241 Nov 27 19:21	0°る	24 2441
•			23 03 13				
retrograde	4240 Dec 23 13:27	20°る34'26		retrograde	4241 Dec 07 04:31	4°る47'38	
evening set	4240 Dec 28 10:02	18° <b>る</b> 34'41		evening set	4241 Dec 12 14:31	2°る32'04	
asc. node	4240 Dec 29 08:30	17° <b>る</b> 43'18			4241 Dec 15 01:45	30°Ŗ <b>⋌</b> 7	
inferior conj	4241 Jan 02 19:16	12° <b>る</b> 10'51	1°27'41	asc. node	4241 Dec 16 05:33	28° <b>∡</b> °34′00	
minimum elong	4241 Jan 02 17:25	12° <b>る</b> 17'15	1°26'59	min. Earth dist.	4241 Dec 17 06:41	27° <b>∡</b> 11'31	0.67727 AU
min. Earth dist.	4241 Jan 02 10:43	12° <b>る</b> 40'21	0.68018 AU	inferior conj	4241 Dec 18 02:04	26° <b>₰</b> 06'35	0°37'40
morning rise	4241 Jan 08 00:42	6° <b>る</b> 02'55		minimum elong	4241 Dec 18 01:10	26° <b>∡</b> ¹09'35	0°37'18
direct	4241 Jan 12 09:17	4°る18'10		morning rise	4241 Dec 23 11:53	20° <b>∡</b> °04'29	
morning max el	4241 Jan 21 02:20	9° <b>ප්</b> 22'13	21°25'28	direct	4241 Dec 27 07:07	18° <b>∡</b> ¹41'51	
desc. node	4241 Feb 04 05:50	27° <b>る</b> 24'36	21 20 20	morning max el	4242 Jan 04 00:14	23° <b>₹</b> 05'15	20°11'17
desc. Hode	4241 Feb 06 01:00	27 <b>⊙</b> 2∓30		morning max ci	4242 Jan 09 21:08	23×0313	20 11 17
				, ,			
morning set	4241 Feb 21 13:41	23° <b>≈</b> 34'16		desc. node	4242 Jan 22 02:52	17° <b>る</b> 30'54	
	4241 Feb 25 14:06	0° <b>∀</b>			4242 Jan 30 07:55	0° <b>≈</b>	
max. Earth dist.	4241 Feb 28 10:51	4° <b>) (</b> 40′43	1.42083 AU	morning set	4242 Jan 31 11:19	1° <b>≈</b> 45'41	
				max. Earth dist.	4242 Feb 10 19:40	18° <b>≈</b> 01′25	1.43781 AU
superior conj	4241 Mar 07 22:04	17° <b>∺</b> 16'44	-2°06'06				
minimum elong	4241 Mar 08 00:17	17° <b>)</b> €26'17	2°06'03	superior conj	4242 Feb 16 14:32	27° <b>≈</b> 24'43	-2°05'27
-	4241 Mar 15 02:48	$0^{\circ}\mathbf{Y}$		minimum elong	4242 Feb 16 11:22	27° <b>≈</b> 11'42	2°05'22
evening rise	4241 Mar 19 01:22	7° <b>Υ</b> 08'48		3	4242 Feb 18 04:11	0° <b>)</b> €	
asc. node	4241 Mar 27 07:47	21°\bar{50'32}		evening rise	4242 Mar 01 09:58	19° <b>)</b> 05'44	
200. 11040	4241 Apr 01 17:24	0°8			4242 Mar 07 17:41	0°Υ	
ovoning ma1	•		10000150	aga mada		0 1 10° <b>Υ</b> 21'46	
evening max el	4241 Apr 04 13:23	3° <b>8</b> 14'58	18°08'59	asc. node	4242 Mar 14 04:49		10000100
retrograde	4241 Apr 11 07:35	6° <b>8</b> 40'34		evening max el	4242 Mar 19 01:56	16° <b>Ƴ</b> 27'24	18°09'20

retrograde	4242 Mar 25 12:30	19° <b>Y</b> 50′26			4243 Mar 02 17:42	0° <b>Υ</b>	
evening set	4242 Mar 28 08:40	19° <b>Ƴ</b> 09'29		retrograde	4243 Mar 09 02:33	3° <b>Y</b> ′24'53	
inferior conj	4242 Apr 03 13:40	13° <b>Y</b> 56′58	3°29'27	evening set	4243 Mar 12 04:40	2° <b>Y</b> 31'55	
minimum elong	4242 Apr 03 15:02	13° <b>Y</b> 53′20	3°29'20		4243 Mar 15 08:05	30° <b>₹</b>	
min. Earth dist.	4242 Apr 06 08:50	10° <b>Y</b> 59'54	0.62617 AU	inferior conj	4243 Mar 18 00:21	27° <b>∺</b> 01'06	
morning rise	4242 Apr 09 20:08	7° <b>Y</b> 53′21		minimum elong	4243 Mar 18 00:04	27° <b>∺</b> 01'57	3°35'47
direct	4242 Apr 16 17:07	5° <b>Y</b> 19′03		min. Earth dist.	4243 Mar 20 04:24	24° <b>∺</b> 28′29	0.64496 AU
desc. node	4242 Apr 20 02:04	5° <b>Y</b> 52′26		morning rise	4243 Mar 23 18:47	20° <b>¥</b> 50′21	
morning max el	4242 Apr 30 17:54	13° <b>Y</b> 17′57	27°50'51	direct	4243 Mar 30 13:31	18° <b>∺</b> 01'39	
	4242 May 14 02:52	0°8		desc. node	4243 Apr 06 23:06	20° <b>)</b> 41′59	
	4242 May 31 18:24	$\Pi^{\circ}0$		morning max el	4243 Apr 13 03:25	25° <b>¥</b> 56'30	27°23'33
morning set	4242 Jun 03 17:44	5° <b>Ⅱ</b> 53'27			4243 Apr 16 21:22	$0^{\circ}$ Y	
max. Earth dist.	4242 Jun 09 05:14	17° <b>Ⅱ</b> 19'33	1.32536 AU		4243 May 07 15:50	$0^{\circ}$ 8	
asc. node	4242 Jun 10 04:05	19° <b>Ⅱ</b> 22'28		morning set	4243 May 18 10:02	19° <b>8</b> 38'43	
				max. Earth dist.	4243 May 23 04:34	29° <b>8</b> 15'11	1.33445 AU
superior conj	4242 Jun 11 07:52	21° <b>I</b> 52'43	0°12'06		4243 May 23 13:14	$\Pi^{\circ}0$	
minimum elong	4242 Jun 11 07:17	21° <b>Ⅱ</b> 49'36	0°11'57			_	
behind sun begin	4242 Jun 11 03:49	21° <b>Ⅱ</b> 30'49		superior conj	4243 May 26 12:38	6° <b>Ⅱ</b> 14'41	
behind sun end	4242 Jun 11 10:45	22° <b>Ⅱ</b> 08′25		minimum elong	4243 May 26 13:26	6° <b>Ⅱ</b> 18'59	0°15'40
	4242 Jun 15 01:21	0ංම		behind sun begin	4243 May 26 12:21	6° <b>Ⅱ</b> 13'12	
evening rise	4242 Jun 18 06:22	6° <b>©</b> 54'53		behind sun end	4243 May 26 14:32	6° <b>Ⅱ</b> 24'46	
	4242 Jun 30 09:03	$0^{\circ}\Omega$		asc. node	4243 May 28 01:09	9° <b>Ⅱ</b> 29'09	
evening max el	4242 Jul 12 10:08	15° <b>Ω</b> 44'46	23°53'36	evening rise	4243 Jun 02 17:39	21° <b>Ⅱ</b> 37′29	
desc. node	4242 Jul 17 01:17	19° <b>Ω</b> 32'41			4243 Jun 06 19:34	0	
retrograde	4242 Jul 26 03:28	22° <b>Ω</b> 38'52		evening max el	4243 Jun 24 00:40	26° <b>©</b> 08'16	22°16'39
evening set	4242 Jul 30 13:45	21° <b>Ω</b> 55'36			4243 Jun 28 20:05	$0$ ° $\Omega$	
min. Earth dist.	4242 Aug 05 20:24	18° <b>Ω</b> 54'13		desc. node	4243 Jul 03 22:19	2° <b>Ω</b> 12'18	
inferior conj	4242 Aug 08 04:31	17° <b>Ω</b> 28'49		retrograde	4243 Jul 06 23:08	2° <b>Ω</b> 33'36	
minimum elong	4242 Aug 08 00:21	17° <b>Ω</b> 35'12	5°01'41	evening set	4243 Jul 09 22:14	2° <b>Ω</b> 14'09	
morning rise	4242 Aug 16 13:31	13° <b>Ω</b> 31'49		t materia	4243 Jul 15 18:13	30° <b>₹</b> 5	0.55065.434
direct	4242 Aug 19 07:57	13° <b>Ω</b> 12'16	10056122	min. Earth dist.	4243 Jul 18 06:53	28°937'30	
morning max el	4242 Aug 29 08:55	17° <b>£</b> 52'11	19°56'23	inferior conj	4243 Jul 19 04:28	28°907'02	
asc. node	4242 Sep 06 03:22	27° <b>Ω</b> 42'37		minimum elong	4243 Jul 18 20:02	28°©18'58 24°©16'40	4-02/31
marring gat	4242 Sep 07 13:10 4242 Sep 16 08:45	0° Mp 16° Mp 39′10		morning rise direct	4243 Jul 27 19:43 4243 Jul 30 22:21	23°954'56	
morning set	4242 Sep 16 08.43 4242 Sep 22 22:10	0₀ <b>ʊ</b> 10 1162810		morning max el	4243 Jul 30 22.21 4243 Aug 11 14:27	23 \$34 36 29°\$21'25	21°19'49
	4242 Sep 22 22.10	0 ==		morning max er	4243 Aug 11 14.27 4243 Aug 12 06:39	29 <b>3</b> 21 23	21 1949
superior conj	4242 Sep 24 03:19	2° <b>ഫ</b> 26'08	1°42'38	asc. node	4243 Aug 24 00:25	16° <b>Ω</b> 23'11	
minimum elong	4242 Sep 24 04:21	2° <b>£</b> 31'16		asc. node	4243 Aug 31 00:54	0° M)	
max. Earth dist.	4242 Sep 29 20:09		1.37050 AU	morning set	4243 Aug 31 00:34 4243 Aug 31 17:11	1° <b>m</b> )24'09	
evening rise	4242 Oct 03 15:11	20° <b>£</b> 31'19	1.57050710	morning set	4243 Mug 31 17.11	1 11/2409	
e vennig rise	4242 Oct 09 01:22	0°M		superior conj	4243 Sep 08 01:04	16° Mp 45'03	1°43'42
desc. node	4242 Oct 13 00:36	6°M233'15		minimum elong	4243 Sep 08 00:36	16° Mp 42'38	1°43'42
dese. node	4242 Oct 29 02:09	0° <b>∡</b> 7		max. Earth dist.	4243 Sep 12 06:37	25° m) 22'26	1.35240 AU
evening max el	4242 Nov 08 08:57	11° <b>∡</b> 52'32	25°37'53		4243 Sep 14 15:01	0∘ <u>⊽</u>	
retrograde	4242 Nov 20 15:11	18° <b>∡</b> 754'11		evening rise	4243 Sep 16 12:19	3° <b>≏</b> 37'13	
evening set	4242 Nov 26 14:58	16° <b>≯</b> 24'50		desc. node	4243 Sep 29 21:37	26° <b>≏</b> 49'47	
min. Earth dist.	4242 Nov 30 23:36	11° <b>∡</b> ³39′03	0.67083 AU		4243 Oct 01 22:34	0° <b>M</b> .	
inferior conj	4242 Dec 02 06:00	10° <b>х</b> 02'04	-0°17'39	evening max el	4243 Oct 21 21:26	25°M32'29	26°37'25
minimum elong	4242 Dec 02 06:27	10° <b>∡</b> ¹00'37	0°17'26		4243 Oct 27 06:42	0° <b>∡¹</b>	
asc. node	4242 Dec 03 02:36	8° <b>₰</b> 56'48		retrograde	4243 Nov 03 20:42	2° <b>∡</b> ¹47'22	
morning rise	4242 Dec 07 22:17	4° <b>₰</b> 08'05		evening set	4243 Nov 10 09:24	0° <b>∡</b> 08'39	
direct	4242 Dec 11 05:49	3° <b>҂</b> 04'56			4243 Nov 10 13:34	30°RM₊	
morning max el	4242 Dec 18 06:02	6° <b>₹</b> 759'04	19°11'16	min. Earth dist.	4243 Nov 14 11:10	25°M58'23	0.66092 AU
greatest brilliancy	4243 Jan 01 03:39	25° <b>∡¹</b> 48'56	-0.7m	inferior conj	4243 Nov 16 05:04	23°M53'31	-1°17'03
	4243 Jan 03 21:15	0°ප		minimum elong	4243 Nov 16 07:12	23° <b>M</b> 47'10	1°16'08
desc. node	4243 Jan 08 23:53	7° <b>る</b> 54'04		asc. node	4243 Nov 19 23:40	19° <b>M</b> 48'07	
morning set	4243 Jan 10 13:13	10° <b>ප</b> 18'58		morning rise	4243 Nov 22 05:43	18° <b>M</b> ₊10′07	
	4243 Jan 23 03:50	0° <b>≈</b>		direct	4243 Nov 25 03:35	17°M22'43	
max. Earth dist.	4243 Jan 24 10:42	2° <b>≈</b> 01'30	1.44882 AU	morning max el	4243 Dec 01 18:06	20°M58'31	18°27'06
					4243 Dec 08 19:44	0° <b>∡</b> ¹	
superior conj	4243 Jan 27 06:27	6°≈29'10		morning set	4243 Dec 21 15:50	20° <b>∡</b> ′09'31	
minimum elong	4243 Jan 26 21:54	5°≈55'17	1~45'08	desc. node	4243 Dec 26 20:54	28° <b>₹</b> '28'39	
evening rise	4243 Feb 10 21:10	0° <b>米</b> 07'09			4243 Dec 27 19:54	0°ප	
1	4243 Feb 10 19:26	0° <b>∀</b>			4244 T 06 00 00	15070040	1000100
asc. node	4243 Mar 01 01:53	28°¥12'05	10020122	superior conj	4244 Jan 06 09:09	15° <b>る</b> 03'49	
evening max el	4243 Mar 02 14:16	29° <b>∺</b> 51′25	18-28-22	minimum elong	4244 Jan 06 01:00	14° <b>る</b> 31'50	1-0/01

max. Earth dist.	4244 Jan 07 05:02	16° <b>天</b> 21'48	1.45278 AU	evening rise	4245 Jan 01 01:38	19° <b>る</b> 33'43	
max. Lattii dist.	4244 Jan 15 21:44	0°≈	1.43276 AC	evening rise	4245 Jan 07 20:59	0°≈	
evening rise	4244 Jan 22 08:59	10°≈11'23		greatest brilliancy	4245 Jan 15 06:53	11° <b>≈</b> 09'26	-0.6m
greatest brilliancy	4244 Feb 01 05:19	25°≈42'05	-0.8m	evening max el	4245 Jan 27 05:10	26°≈53'03	19°57'51
8	4244 Feb 04 00:21	0° <b>\</b>		<i>&amp;</i>	4245 Jan 30 21:40	0° <b>)</b> €	
evening max el	4244 Feb 13 23:56	13° <b>)</b> €20'50	19°05'08	asc. node	4245 Feb 01 19:59	0° <b>)</b> €57'22	
asc. node	4244 Feb 15 22:57	15° <b>)</b> €08'34		retrograde	4245 Feb 03 19:39	1° <b>¥</b> 18'37	
retrograde	4244 Feb 20 21:54	17° <b>∺</b> 15'49			4245 Feb 07 11:44	30°R≈	
evening set	4244 Feb 24 06:42	16° <b>)</b> 09′56		evening set	4245 Feb 07 12:27	29° <b>≈</b> 58'44	
inferior conj	4244 Feb 29 20:14	10° <b>)</b> 22'44	3°26'18	inferior conj	4245 Feb 12 22:22	23° <b>≈</b> 57'21	3°04'37
minimum elong	4244 Feb 29 18:42	10° <b>)</b> 27′37	3°26'07	minimum elong	4245 Feb 12 20:06	24° <b>≈</b> 04'55	3°04'09
min. Earth dist.	4244 Mar 02 08:52	8° <b>)</b> €26'27	0.65998 AU	min. Earth dist.	4245 Feb 13 20:39	22° <b>≈</b> 42'41	0.67083 AU
morning rise	4244 Mar 06 06:20	4° <b>)</b> €09'07		morning rise	4245 Feb 18 03:32	17° <b>≈</b> 43'18	
direct	4244 Mar 12 16:41	1° <b>₩</b> 19'38		direct	4245 Feb 24 01:30	15° <b>≈</b> 04'39	
desc. node	4244 Mar 23 20:08	7° <b>升</b> 17′20		morning max el	4245 Mar 07 22:10	22° <b>≈</b> 09'52	25°09'15
morning max el	4244 Mar 25 13:20	8° <b>¥</b> 57'21	26°26'39	desc. node	4245 Mar 10 17:10	25° <b>≈</b> 09'12	
	4244 Apr 11 01:27	$0$ ° $\mathbf{\Upsilon}$			4245 Mar 14 18:46	0° <b>∀</b>	
	4244 Apr 29 02:59	$9^{\circ}$ 8			4245 Apr 04 08:19	$0$ ° $\Upsilon$	
morning set	4244 Apr 30 14:31	2° <b>8</b> 45'34		morning set	4245 Apr 13 02:25	15° <b>Y</b> 00′24	
max. Earth dist.	4244 May 04 16:42	10° <b>8</b> 38'00	1.34816 AU	max. Earth dist.	4245 Apr 16 17:55	21° <b>Y</b> 40'19	1.36627 AU
					4245 Apr 21 02:55	0°8	
superior conj	4244 May 09 10:53	20° <b>8</b> 12'54	-0°45'02				
minimum elong	4244 May 09 13:18	20° <b>8</b> 25'19	0°44'33	superior conj	4245 Apr 22 23:44	3° <b>8</b> 39'24	
asc. node	4244 May 13 22:13	29° <b>8</b> 30'39		minimum elong	4245 Apr 23 03:40	3° <b>8</b> 58'52	1°13'14
	4244 May 14 03:50	$\Pi$ $^{\circ}0$		asc. node	4245 Apr 30 19:15	19° <b>8</b> 22'32	
evening rise	4244 May 17 02:27	6° <b>Ⅱ</b> 07'52		evening rise	4245 May 01 06:32	20° <b>8</b> 19'27	
	4244 May 30 06:33	0			4245 May 06 04:42	0°Щ	
evening max el	4244 Jun 05 00:21	6° <b>©</b> 55'11	20°48'55	evening max el	4245 May 18 12:17	18° <b>Ⅱ</b> 21'43	19°38'20
retrograde	4244 Jun 16 11:50	12° <b>©</b> 32'17		retrograde	4245 May 28 05:47	23° <b>∏</b> 05'57	
evening set	4244 Jun 18 14:16	12° <b>©</b> 21'44		evening set	4245 May 30 04:44	22° <b>∏</b> 55'19	
desc. node	4244 Jun 19 19:20	12°506'32		desc. node	4245 Jun 06 16:21	19° <b>Ⅲ</b> 39'16	
inferior conj	4244 Jun 27 21:44	8°524'34		inferior conj	4245 Jun 07 22:49	18° <b>Ⅱ</b> 51'55	
minimum elong	4244 Jun 27 15:12	8°933'53		minimum elong	4245 Jun 07 21:48	18° <b>∏</b> 53'30	
min. Earth dist.	4244 Jun 28 18:31	7°954'59	0.54855 AU	min. Earth dist.	4245 Jun 10 07:53	17° <b>Ⅱ</b> 22'33	0.55613 AU
morning rise	4244 Jul 06 15:46	4°921'19		morning rise	4245 Jun 16 12:25	14° <b>Ⅱ</b> 18'56	
direct	4244 Jul 10 07:38 4244 Jul 23 09:41	3°\$52'26 10°\$09'23	22°58'39	direct morning max el	4245 Jun 21 00:26	13° <b>П</b> 33'46 20° <b>П</b> 33'18	24°41'50
morning max el	4244 Jul 23 09.41 4244 Aug 06 21:08	10 \$0923 0°Ω	22 38 39	morning max er	4245 Jul 04 23:40 4245 Jul 13 02:07	20 <b>п</b> 33 18	24 41 30
asc. node	4244 Aug 09 21:27	5° <b>Ω</b> 35'11		asc. node	4245 Jul 13 02.07 4245 Jul 27 18:29	0 50 25°509'46	
morning set	4244 Aug 09 21.27 4244 Aug 15 04:10	16° <b>Ω</b> 16'30		asc. Houe	4245 Jul 30 02:38	23 <b>3</b> 09 40 0° <b>Ω</b>	
morning set	4244 Aug 21 14:02	0° m		morning set	4245 Jul 30 02:38 4245 Jul 30 15:56	1° <b>Ω</b> 10'11	
	7244 Aug 21 14.02	עווי ∨		morning sec	4243 Jul 30 13.30	1 061011	
superior conj	4244 Aug 22 05:45	1° <b>m</b> 24'08	1°38'08	superior conj	4245 Aug 06 14:45	16° <b>Ω</b> 14'28	1°26'57
minimum elong	4244 Aug 22 04:11	1° Mp 15'47	1°38'02	minimum elong	4245 Aug 06 12:34	16°Ω02'33	1°26'42
max. Earth dist.	4244 Aug 25 01:57	7° m/25'02	1.33806 AU	max. Earth dist.	4245 Aug 08 05:46	19° <b>Ω</b> 46'29	1.32791 AU
evening rise	4244 Aug 29 23:23	17° m/23'12			4245 Aug 13 01:34	0° m)	
8	4244 Sep 05 16:00	0∘ <u>⊽</u>		evening rise	4245 Aug 13 20:32	1° m/37'22	
desc. node	4244 Sep 15 18:38	16° <b>≏</b> 44'40		S	4245 Aug 29 13:42	0∘ <u>v</u>	
	4244 Sep 25 07:13	0° <b>M</b> .		desc. node	4245 Sep 02 15:39	6° <b>≏</b> 07'49	
evening max el	4244 Oct 03 09:54	9° <b>M</b> 01'34	27°15'51	evening max el	4245 Sep 15 20:29	22° <b>≏</b> 05'59	27°26'31
retrograde	4244 Oct 16 20:25	16° <b>M</b> ₊19'48		retrograde	4245 Sep 29 13:31	29° <b>₽</b> 21'39	
evening set	4244 Oct 23 19:25	13°M39'00		evening set	4245 Oct 06 17:55	26° <b>≏</b> 48'33	
min. Earth dist.	4244 Oct 27 15:08	10°ML03'40	0.64754 AU	min. Earth dist.	4245 Oct 10 09:21	23° <b>≙</b> 44'40	0.63086 AU
inferior conj	4244 Oct 29 21:02	7°M36'33	-2°18'42	inferior conj	4245 Oct 13 03:07	21° <b>≙</b> 03'34	-3°19'51
minimum elong	4244 Oct 30 00:58	7°M25'47	2°17'11	minimum elong	4245 Oct 13 08:36	20° <b>♀</b> 50'05	3°18'04
morning rise	4244 Nov 05 07:38	2°M06'46		morning rise	4245 Oct 20 00:47	15° <b>≏</b> 50'52	
asc. node	4244 Nov 05 20:41	1°M53'33		direct	4245 Oct 22 10:50	15° <b>≏</b> 23'23	
direct	4244 Nov 07 22:16	1°MJ31'08		asc. node	4245 Oct 23 17:42	15° <b>≏</b> 31'21	
morning max el	4244 Nov 14 09:54	4°M57'50	17°59'46	morning max el	4245 Oct 29 02:28	18° <b>≏</b> 49'17	17°50'02
	4244 Dec 01 02:53	0°⊀			4245 Nov 06 06:06	$0^{\circ}$ M	
morning set	4244 Dec 02 00:00	1° <b>≯</b> 28′22		morning set	4245 Nov 14 08:39	13°M57'39	
desc. node	4244 Dec 12 17:56	19° <b>∡</b> 11'15			4245 Nov 23 15:08	0° <b>∡</b>	
superior conj	4244 Dec 15 19:12	24° <b>₹</b> 05'51		superior conj	4245 Nov 26 04:12	4° <b>≯</b> 16′20	0°23'54
minimum elong	4244 Dec 15 16:39	23° <b>∡</b> 55'37	0°20'34	minimum elong	4245 Nov 26 06:34	4° <b>≯</b> 26′10	0°23'35
	4244 Dec 19 12:18	0°る		desc. node	4245 Nov 29 14:57	9° <b>∡</b> 57'43	
max. Earth dist.	4244 Dec 20 00:09	0° <b>පි</b> 46'48	1.44937 AU	max. Earth dist.	4245 Dec 02 17:23	14° <b>₹</b> 59'18	1.43895 AU

evening rise	4245 Dec 11 11:19	28° <b>∡</b> ¹45'26		minimum elong	4246 Nov 07 19:56	16°ML02'33	0°59'02
	4245 Dec 12 06:39	8°0		max. Earth dist.	4246 Nov 15 05:57	28°M41'03	1.42280 AU
	4246 Jan 01 16:19	0° <b>≈</b>		desc. node	4246 Nov 16 11:57	0° <b>х</b> 44'43	
evening max el	4246 Jan 10 04:58	10° <b>≈</b> 26′27	21°03'54		4246 Nov 16 01:05	0° <b>∡</b> ¹	
retrograde	4246 Jan 18 17:36	15° <b>≈</b> 29'18		evening rise	4246 Nov 21 06:04	8° <b>₹</b> 25'13	
asc. node	4246 Jan 19 16:59	15° <b>≈</b> 24'08			4246 Dec 05 11:04	0°ಕ	
evening set	4246 Jan 22 19:57	13° <b>≈</b> 54′20		evening max el	4246 Dec 23 23:23	24° <b>る</b> 00'48	22°19'28
inferior conj	4246 Jan 28 04:18	7° <b>≈</b> 41'25	2°33'12	retrograde	4247 Jan 02 14:01	29° <b>る</b> 43'50	
minimum elong	4246 Jan 28 01:50	7° <b>≈</b> 49'56	2°32'30	asc. node	4247 Jan 06 14:00	28° <b>る</b> 19'07	
min. Earth dist.	4246 Jan 28 13:40	7° <b>≈</b> 09'08	0.67749 AU	evening set	4247 Jan 07 03:32	27° <b>る</b> 53'02	
morning rise	4246 Feb 02 07:32	1°≈28'35		inferior conj	4247 Jan 12 12:00	21° <b>る</b> 31'55	
	4246 Feb 04 08:53	30°₽₹		minimum elong	4247 Jan 12 09:48	21° <b>る</b> 39'34	1°52'53
direct	4246 Feb 07 15:05	29° <b>る</b> 08'32		min. Earth dist.	4247 Jan 12 09:41	21° <b>る</b> 39'56	0.68021 AU
	4246 Feb 11 03:50	0° <b>≈</b>		morning rise	4247 Jan 17 15:56	15° <b>る</b> 21'43	
morning max el	4246 Feb 18 06:49	5°≈29'12	23°41'37	direct	4247 Jan 22 08:38	13° <b>る</b> 24'01	
desc. node	4246 Feb 25 14:12	13°≈55'49		morning max el	4247 Jan 31 18:11	18° <b>ප</b> 55'31	22°13'22
	4246 Mar 09 04:51	0° <b>∀</b>			4247 Feb 09 23:56	0°≈	
morning set	4246 Mar 25 15:54	26° <b>₩</b> 07'32		desc. node	4247 Feb 12 11:13	3°≈21'18	
E d Ed	4246 Mar 27 21:56	0° <b>Υ</b>	1 20742 ATT	. ,	4247 Mar 02 09:02	0° <b>)</b> (53143	
max. Earth dist.	4246 Mar 29 13:36	2° <b>Y</b> 53'38	1.38742 AU	morning set	4247 Mar 06 01:28	5° <b>)</b> 53'42	1 40015 ATT
	4246 A 05 22:20	1.00001125	1920155	max. Earth dist.	4247 Mar 11 10:52	14° <b>)</b> 47'50	1.40915 AU
superior conj	4246 Apr 05 23:29	16° <b>Y</b> 24'35 16° <b>Y</b> 47'09			4247 Mar 19 05:27	200W17125	1950122
minimum elong	4246 Apr 06 04:16 4246 Apr 13 01:02	0° <b>8</b>	1°39'21	superior conj minimum elong	4247 Mar 19 05:27 4247 Mar 19 09:25	28° <b>)</b> 16'25 28° <b>)</b> 34'05	
evening rise	4246 Apr 15 03:14	4° <b>8</b> 04'52		minimum elong	4247 Mar 19 09.23 4247 Mar 20 04:36	28 <b>π</b> 3403 0° <b>Υ</b>	1 39 19
asc. node	4246 Apr 17 16:17	9° <b>8</b> 00'08		evening rise	4247 Mar 29 13:10	17° <b>Υ</b> 15'03	
asc. Houe	4246 Apr 30 23:54	9° <b>Ⅱ</b>		asc. node	4247 Mai 29 13:10 4247 Apr 04 13:18	28° <b>Υ</b> 17'26	
evening max el	4246 May 01 11:16	0° <b>Ⅱ</b> 28'27	18°47'44	asc. nouc	4247 Apr 04 13:18 4247 Apr 05 12:39	0°8	
retrograde	4246 May 09 16:21	4° <b>Ⅱ</b> 29'56	10 47 44	evening max el	4247 Apr 14 18:09	13° <b>8</b> 07'30	18°17'24
evening set	4246 May 11 20:06	4° <b>Ⅱ</b> 14'20		retrograde	4247 Apr 21 21:55	16° <b>8</b> 41'50	10 17 24
inferior conj	4246 May 19 18:32	29° <b>8</b> 53'57	1°21'10	evening set	4247 Apr 24 08:15	16° <b>8</b> 18'01	
minimum elong	4246 May 19 21:23	29° <b>8</b> 48'43	1°20'13	inferior conj	4247 May 01 11:45	11° <b>8</b> 37'25	2°34'08
g	4246 May 19 15:13	30°R8	1 20 13	minimum elong	4247 May 01 15:20	11° <b>8</b> 29'44	2°33'15
min. Earth dist.	4246 May 23 00:19	27° <b>8</b> 32'44	0.57169 AU	min. Earth dist.	4247 May 04 21:59	8° <b>8</b> 42'43	0.59216 AU
desc. node	4246 May 24 13:23	26° <b>8</b> 30'50	***************************************	morning rise	4247 May 08 19:35	5° <b>8</b> 59'11	***************************************
morning rise	4246 May 27 19:27	24° <b>8</b> 45'13		desc. node	4247 May 11 10:26	4° <b>8</b> 48'21	
direct	4246 Jun 02 06:40	23° <b>8</b> 32'35		direct	4247 May 15 02:34	4° <b>8</b> 11'32	
	4246 Jun 15 12:30	$\Pi^{\circ}0$		morning max el	4247 May 29 11:47	12° <b>8</b> 00'01	27°19'51
morning max el	4246 Jun 16 14:59	1° <b>Ⅲ</b> 02'07	26°13'53		4247 Jun 12 14:31	$\Pi^{\circ}0$	
-	4246 Jul 07 00:55	0°€		morning set	4247 Jun 29 11:22	0°541'10	
asc. node	4246 Jul 14 15:31	15° <b>©</b> 00'32			4247 Jun 29 03:28	$0$ $\circ$ $\odot$	
morning set	4246 Jul 15 02:53	16° <b>©</b> 00'22		asc. node	4247 Jul 01 12:34	5° <b>©</b> 01'30	
	4246 Jul 21 13:25	$0^{\circ}\Omega$		max. Earth dist.	4247 Jul 06 02:55	15° <b>©</b> 03'03	1.31997 AU
superior conj	4246 Jul 22 02:02	1° <b>Ω</b> 09'32		superior conj	4247 Jul 06 13:48	16° <b>©</b> 03'05	0°50'50
minimum elong	4246 Jul 21 23:43	0° <b>Ω</b> 56'44	1°10'36	minimum elong	4247 Jul 06 11:49	15° <b>©</b> 52'07	0°50'26
max. Earth dist.	4246 Jul 22 15:20	2° <b>Ω</b> 22'48	1.32193 AU		4247 Jul 12 23:06	$0^{\circ}\Omega$	
evening rise	4246 Jul 29 00:45	16° <b>Ω</b> 10'48		evening rise	4247 Jul 13 09:31	0° <b>£</b> 55′23	
	4246 Aug 04 23:56	0° <b>т</b> р			4247 Jul 29 03:59	0°Щ	
desc. node	4246 Aug 20 12:39	24° m/46'13		desc. node	4247 Aug 07 09:41	12° <b>m</b> 21'50	
	4246 Aug 24 18:36	0∘ <b>⊽</b>		evening max el	4247 Aug 11 01:26	16° Mp 10'40	26°09'59
evening max el	4246 Aug 29 02:27	4° <b>£</b> 32'01	27°04'43	retrograde	4247 Aug 25 00:45	23° m 19'38	
retrograde	4246 Sep 11 23:16	11° <b>£</b> 44'02		evening set	4247 Aug 31 11:38	21°M 38'15	0.50050 444
evening set	4246 Sep 19 00:54	9° <b>£</b> 30'41	0.61146.477	min. Earth dist.	4247 Sep 04 14:16	19° Mp 03'09	0.59070 AU
min. Earth dist.	4246 Sep 22 16:45	6° <b>£</b> 49'07	0.61146 AU	inferior conj	4247 Sep 07 20:34	16° Mp 35'59	
inferior conj	4246 Sep 25 20:08	4° <b>£</b> 06'23		minimum elong	4247 Sep 08 00:51	16° Mp 27'54	4°56'50
minimum elong	4246 Sep 26 02:08	3° <b>£</b> 53'22	4°14'06	morning rise	4247 Sep 15 16:17	12° Mp 06'54	
morning rice	4246 Oct 01 09:42	30°R∭0 20°™14'22		direct	4247 Sep 18 02:06	11°Mp47'11	18°27'41
morning rise direct	4246 Oct 03 05:13 4246 Oct 05 13:35	29° Mp 14'22 28° Mp 52'00		morning max el asc. node	4247 Sep 26 01:27 4247 Sep 27 11:47	15° Mp 37'44 17° Mp 06'46	10 2/41
uncci	4246 Oct 05 13:35 4246 Oct 09 13:43	28° IIJ 52′00 0° <b>⊆</b>		asc. node	4247 Sep 27 11:47 4247 Oct 06 02:41	1 /° 11006′46 0° <b>⊆</b>	
asc. node	4246 Oct 10 14:44	0° <b>£</b> 39'51		morning set	4247 Oct 06 02:41 4247 Oct 12 02:46	0 ♣ 11° <b>£</b> 14'21	
morning max el	4246 Oct 10 14:44 4246 Oct 12 16:43	0 <b>ഫ</b> 3931 2° <b>ഫ</b> 25'22	17°58'54	morning set	747/ OCI 12 U2.40	11 == 14 41	
morning set	4246 Oct 28 11:18	2 <b>=</b> 23 22 27° <b>£</b> 17'49	17 3037	superior conj	4247 Oct 21 02:22	28° <b>£</b> 19'50	1°24'11
morning sot	4246 Oct 29 22:31	27 <b>=</b> 1749 0° <b>M</b>		minimum elong	4247 Oct 21 02:22 4247 Oct 21 05:53	28° <b>⊆</b> 36'09	1°23'50
	.2.0 300 27 22.31	↓ IIV			4247 Oct 22 00:05	0°M	550
superior conj	4246 Nov 07 15:50	15°M44'35	0°59'34	max. Earth dist.	4247 Oct 28 13:00		1.40297 AU
r							

evening rise	4247 Nov 01 21:19	19° <b>M</b> 01'56		max. Earth dist.	4248 Oct 09 17:19	23° <b>£</b> 57'47	1.38206 AU
desc. node	4247 Nov 01 21.19 4247 Nov 03 08:59	21°M29'04			4248 Oct 13 11:50	0°M42'24	1.38200 AU
desc. node	4247 Nov 03 08.39 4247 Nov 08 16:36	21 11629 04 0° <b>√</b> 1		evening rise	4248 Oct 13 11.30 4248 Oct 13 02:11	0°M	
	4247 Nov 08 16.36 4247 Nov 29 19:51	0°중		desc. node	4248 Oct 20 06:00	12°M06'24	
avanina may al	4247 Nov 29 19.51 4247 Dec 06 13:53	7° <b>ろ</b> 38'28	23°39'20	desc. Hode		0° <b>√</b>	
evening max el	4247 Dec 06 13.33 4247 Dec 17 07:31	13° <b>る</b> 58'52	25 39 20	avanina may al	4248 Oct 31 23:12 4248 Nov 18 02:37	0 <b>x</b> . 21° <b>x</b> 19'52	24957107
retrograde		13°る38'32		evening max el		21° <b>×</b> '19'32 28° <b>×'</b> 09'21	24-3707
evening set	4247 Dec 22 09:38	9° <b>る</b> 48'08		retrograde	4248 Nov 29 20:53		
asc. node	4247 Dec 24 11:01	5° <b>る</b> 26'51	1007112	evening set	4248 Dec 05 12:36	25° 🖈 47'49	0.67400 AII
inferior conj	4247 Dec 27 19:40		1°07'13	min. Earth dist.	4248 Dec 10 01:31	20° 🖈 41'38	0.67490 AU
minimum elong	4247 Dec 27 18:10	5° <b>る</b> 31'59	1°06'37	asc. node	4248 Dec 10 08:05	20°×720'06	001.4140
min. Earth dist.	4247 Dec 27 06:27	6° <b>ප</b> 12'01	0.67929 AU	inferior conj	4248 Dec 11 01:29	19° 🖈 22'47	0°14'49
	4248 Jan 01 08:16	30°₹ <b>⋌</b> 7		minimum elong	4248 Dec 11 01:07	19° <b>×</b> <sup>7</sup> 24'00	0°14'41
morning rise	4248 Jan 02 02:41	29° <b>х</b> 21′03		transit middle	4248 Dec 11 01:07	19° <b>≯</b> 24'00	0°14'41
direct	4248 Jan 06 05:19	27° <b>∡</b> ¹46′06		transit begin	4248 Dec 10 23:56	19° <b>∡</b> 27'51	
	4248 Jan 11 15:02	0° <b>ろ</b>		transit end	4248 Dec 11 02:17	19° <b>∡</b> 20′09	
morning max el	4248 Jan 14 11:38	2° <b>る</b> 32'08	20°52'24	morning rise	4248 Dec 16 13:47	13° <b>≯</b> 23'33	
desc. node	4248 Jan 30 08:15	23° <b>る</b> 15'08		direct	4248 Dec 20 03:47	12° <b>≯</b> 09'32	
	4248 Feb 03 21:36	0° <b>≈</b>		morning max el	4248 Dec 27 12:53	16° <b>⊀</b> 19'25	19°43'51
morning set	4248 Feb 13 08:14	14° <b>≈</b> 26'57			4249 Jan 07 04:39	0°ಕ	
max. Earth dist.	4248 Feb 21 14:35	27° <b>≈</b> 36′18	1.42863 AU	greatest brilliancy	4249 Jan 09 16:38	3° <b>る</b> 39'39	-0.7m
	4248 Feb 23 01:49	0° <b>ℋ</b>		desc. node	4249 Jan 16 05:17	13° <b>る</b> 28'56	
				morning set	4249 Jan 22 04:18	22° <b>る</b> 37'23	
superior conj	4248 Feb 28 12:44	9° <b>₩</b> 04'35	-2°07'55		4249 Jan 26 22:28	0° <b>≈</b>	
minimum elong	4248 Feb 28 12:59	9° <b>₩</b> 05'37	2°07'55	max. Earth dist.	4249 Feb 03 01:51	11° <b>≈</b> 13'48	1.44331 AU
evening rise	4248 Mar 11 08:20	29° <b>)</b> 41′16					
	4248 Mar 11 12:32	$0^{\circ}\mathbf{\Upsilon}$		superior conj	4249 Feb 07 18:14	18° <b>≈</b> 43'37	-1°59'36
asc. node	4248 Mar 21 10:21	17° <b>Ƴ</b> 07'58		minimum elong	4249 Feb 07 12:25	18° <b>≈</b> 20'12	1°59'17
evening max el	4248 Mar 28 05:36	26° <b>Ƴ</b> 10'31	18°06'46		4249 Feb 14 15:32	0° <b>∀</b>	
retrograde	4248 Apr 03 19:26	29° <b>Ƴ</b> 33'21		evening rise	4249 Feb 21 08:12	11° <b>)</b> 14'31	
evening set	4248 Apr 06 12:08	28° <b>Ƴ</b> 59'06		•	4249 Mar 04 14:48	$_{0}^{\circ}\Upsilon$	
inferior conj	4248 Apr 13 00:14	23° <b>Y</b> 58'13	3°16'33	asc. node	4249 Mar 08 07:24	5° <b>Y</b> 23′05	
minimum elong	4248 Apr 13 02:36	23° <b>Y</b> 52'22	3°16'13	evening max el	4249 Mar 11 18:28	9° <b>Ƴ</b> 29'00	18°15'15
min. Earth dist.	4248 Apr 16 03:03	20° <b>Y</b> 54'54	0.61412 AU	retrograde	4249 Mar 18 04:36	12° <b>Ƴ</b> 54'37	
morning rise	4248 Apr 19 15:12	18° <b>Ƴ</b> 01'16		evening set	4249 Mar 21 03:18	12° <b>Ƴ</b> 08'39	
direct	4248 Apr 26 09:53	15° <b>Ƴ</b> 40'51		inferior conj	4249 Mar 27 03:57	6° <b>Y</b> 48′23	3°34'20
desc. node	4248 Apr 27 07:28	15° <b>Υ</b> 43'12		minimum elong	4249 Mar 27 04:35	6° <b>Y</b> 46'37	3°34'18
morning max el	4248 May 10 14:50	23° <b>Y</b> 38'46	27°50'17	min. Earth dist.	4249 Mar 29 16:58	3° <b>Υ</b> 59'41	0.63461 AU
morning max or	4248 May 16 07:35	0°8	27 30 17	morning rise	4249 Apr 02 04:52	0° <b>Υ</b> 41'18	0.03 101 110
	4248 Jun 04 20:39	0°II		morning rise	4249 Apr 03 03:17	30°R <b>)</b> €	
morning set	4248 Jun 12 15:29	15° <b>∏</b> 06'22		direct	4249 Apr 09 02:01	27° <b>)</b> 58'57	
asc. node	4248 Jun 17 09:37	25° <b>I</b> 108'04		desc. node	4249 Apr 14 04:31	29° <b>H</b> 15'37	
max. Earth dist.	4248 Jun 18 12:45	27° <b>II</b> 35'04	1.32215 AU	desc. Hode	4249 Apr 15 13:59	29 <b>γ</b> (1337	
max. Lartii dist.	4248 Jun 19 15:20	0°9	1.32213 AU	morning max el	4249 Apr 22 22:31	5° <b>Υ</b> 57'13	270/3/16
	4246 Juli 19 13.20	0 39		morning max er	4249 May 11 04:48	0° <b>8</b>	27 43 10
superior conj	4248 Jun 20 00:21	0°549'16	0°27'07	morning set	4249 May 27 12:57	29° <b>8</b> 08'58	
minimum elong	4248 Jun 19 23:08		0°26'50	morning set		29 <b>Ο</b> 08 38	
		0°542'39	0°26'30	Easth diet	4249 May 27 23:09		1 220// AII
evening rise	4248 Jun 26 20:46	15° <b>©</b> 44'21 0° <b>Ω</b>		max. Earth dist.	4249 Jun 01 16:59	9° <b>Ⅱ</b> 47'07	1.32866 AU
	4248 Jul 03 22:28		24040100		4240 I 04 07 51	1.50 <b>T</b> 22120	000012.1
evening max el	4248 Jul 22 17:22	27° <b>Ω</b> 03'40	24°48'08	superior conj	4249 Jun 04 07:51	15° <b>Ⅲ</b> 22'28 15° <b>Ⅲ</b> 22'20	0°00'31
desc. node	4248 Jul 24 06:43	28° <b>Ω</b> 28'59		minimum elong	4249 Jun 04 07:49		0°00'30
	4248 Jul 26 03:36	0° m/y		behind sun begin	4249 Jun 04 02:31	14° <b>∏</b> 53'51	
retrograde	4248 Aug 05 15:37	4° Mp 06'00		behind sun end	4249 Jun 04 13:07	15° <b>Ⅱ</b> 50′50	
evening set	4248 Aug 10 22:13	3° Mp 03'04		asc. node	4249 Jun 04 06:41	15° <b>Ⅱ</b> 16'11	
min. Earth dist.	4248 Aug 16 04:46		0.57116 AU	evening rise	4249 Jun 11 08:37	0°931'40	
	4248 Aug 16 14:34	30°R <b>Ω</b>			4249 Jun 11 02:39	0°€	
inferior conj	4248 Aug 19 01:27	28° <b>Ω</b> 23'18			4249 Jun 27 20:23	0°Ω	
minimum elong	4248 Aug 19 00:54	28° <b>Ω</b> 24'12	5°12'11	evening max el	4249 Jul 04 06:25	7° <b>Ω</b> 29'57	23°12'06
morning rise	4248 Aug 27 06:04	24° <b>Ω</b> 15'57		desc. node	4249 Jul 11 03:45	12° <b>Ω</b> 35'11	
direct	4248 Aug 29 20:29	23° <b>Ω</b> 56'51		retrograde	4249 Jul 17 17:39	14°Ω13'40	
morning max el	4248 Sep 08 01:14	28° <b>Ω</b> 15'49	19°17'44	evening set	4249 Jul 21 12:03	13° <b>Ω</b> 42'41	
	4248 Sep 09 17:57	0° <b>m</b>		min. Earth dist.	4249 Jul 28 15:46		0.55611 AU
asc. node	4248 Sep 13 08:51	4° Mp 36′22		inferior conj	4249 Jul 30 10:40	9° <b>Ω</b> 25'17	
morning set	4248 Sep 25 03:01	25° <b>m</b> 35'47		minimum elong	4249 Jul 30 04:06	9° <b>Ω</b> 34'55	4°43'04
	4248 Sep 27 07:52	0∘ <b>ত</b>		morning rise	4249 Aug 07 22:28	5° <b>Ω</b> 32'48	
				direct	4249 Aug 10 20:12	5° <b>Ω</b> 12'31	
superior conj	4248 Oct 03 06:12	11° <b>≏</b> 45'36		morning max el	4249 Aug 21 13:34	10° <b>Ω</b> 11′23	20°29'26
minimum elong	4248 Oct 03 08:12	11° <b>≏</b> 55'18	1°38'22	asc. node	4249 Aug 31 05:54	22° <b>Ω</b> 54'53	

morning sat	4249 Sep 04 05:09 4249 Sep 09 09:11	0° Mp 10° Mp 14'34		morning set	4250 Aug 24 18:56 4250 Aug 27 03:15	25° <b>Ω</b> 03'21 0° <b>™</b>	
morning set	4249 Sep 09 09.11	10 11/14 34			4230 Aug 27 03.13	עוו ט	
superior conj	4249 Sep 16 22:35	25° Mp 48'37	1°43'58	superior conj	4250 Aug 31 23:37	10° <b>m</b> 16'53	1°42'05
minimum elong	4249 Sep 16 22:56	25° <b>m</b> 50'26	1°43'58	minimum elong	4250 Aug 31 22:38	10° <b>m</b> 11'41	1°42'03
	4249 Sep 19 00:30	0∘ <b>⊽</b>		max. Earth dist.	4250 Sep 04 14:45	17° <b>m</b> 48'37	1.34586 AU
max. Earth dist.	4249 Sep 22 00:25	5° <b>Ω</b> 53'28	1.36246 AU	evening rise	4250 Sep 09 02:37	26° m/44'25	
evening rise	4249 Sep 25 23:05	13° <b>≏</b> 20'35 0° <b>™</b>		desc. node	4250 Sep 10 19:35 4250 Sep 24 00:04	0° <b>ჲ</b> 22° <b>ჲ</b> 40'33	
desc. node	4249 Oct 05 13:19 4249 Oct 07 03:02	2°M32'19		desc. node	4250 Sep 28 21:29	0°M	
desc. node	4249 Oct 26 21:19	0° <b>x</b> <sup>7</sup>		evening max el	4250 Oct 14 03:49	18°M39'04	26°56'41
evening max el	4249 Oct 31 15:11	5° <b>х</b> 02′39	26°05'22	retrograde	4250 Oct 27 08:09	25°M55'40	20 00 .1
retrograde	4249 Nov 13 05:14	12° <b>≯</b> 10′28		evening set	4250 Nov 03 01:50	23°M14'55	
evening set	4249 Nov 19 10:42	9° <b>∡</b> ³36'45		min. Earth dist.	4250 Nov 07 00:55	19° <b>M</b> 19'57	0.65571 AU
min. Earth dist.	4249 Nov 23 16:28	5° <b>₹</b> 05'52	0.66708 AU	inferior conj	4250 Nov 08 23:54	17°M04'53	-1°43'02
inferior conj	4249 Nov 25 03:35	3° <b>≯</b> 16'48	-0°42'24	minimum elong	4250 Nov 09 02:48	16°M56'32	1°41'51
minimum elong	4249 Nov 25 04:43	3° <b>х</b> 13′17	0°41'54	asc. node	4250 Nov 14 02:10	12°M06'12	
asc. node	4249 Nov 27 05:08	0° <b>∡</b> 747'50		morning rise	4250 Nov 15 04:37	11°M27'02	
	4249 Nov 27 22:34	30°RM		direct	4250 Nov 17 23:13	10°M45'01	
morning rise	4249 Nov 30 23:12	27°M26'47		morning max el	4250 Nov 24 11:30	14°M15'29	18°13'25
direct	4249 Dec 04 02:27	26°M30'37 0°⊀		mamina sat	4250 Dec 05 19:03	0°×7 12°×70°116	
morning max el	4249 Dec 10 15:14 4249 Dec 10 21:30	0° <b>x</b> ¹ 0° <b>x</b> ¹15'27	18°50'25	morning set desc. node	4250 Dec 13 06:30 4250 Dec 20 23:18	12° <b>尽</b> 08'16 24° <b>尽</b> 35'33	
morning max ci	4249 Dec 31 13:50	0×1327 0°る	18 30 23	desc. Hode	4250 Dec 24 08:37	24 × 33 33	
morning set	4250 Jan 01 15:05	1°る39'02			4230 Dec 24 00.57	<b>° °</b>	
desc. node	4250 Jan 03 02:17	3°₹57'08		superior conj	4250 Dec 28 05:28	6° <b>ප</b> 07'21	-0°48'26
max. Earth dist.	4250 Jan 16 18:56	25° <b>る</b> 25'23	1.45146 AU	minimum elong	4250 Dec 27 23:24	5° <b>ರ</b> 43'27	0°47'37
				max. Earth dist.	4250 Dec 30 14:29	9° <b>ප</b> 51'38	1.45222 AU
superior conj	4250 Jan 18 02:17	27° <b>る</b> 28'35	-1°31'38		4251 Jan 12 11:52	0° <b>≈</b>	
minimum elong	4250 Jan 17 16:59	26° <b>ප</b> 52'01	1°30'43	evening rise	4251 Jan 13 12:04	1° <b>≈</b> 34'19	
	4250 Jan 19 16:45	0°≈		greatest brilliancy	4251 Jan 25 09:48	19° <b>≈</b> 59'59	-0.7m
evening rise	4250 Feb 02 09:20	21°≈50′24			4251 Feb 01 06:44	0° <b>∀</b>	
	4250 Feb 07 10:23	0° <b>)</b> (₹5141	10041150	evening max el	4251 Feb 06 13:51	6° <b>¥</b> 26′16	19°25'43
evening max el	4250 Feb 23 05:56	22° <b>)</b> 55'41 22° <b>)</b> 51'51	18°41'58	asc. node	4251 Feb 10 01:28	9° <b>)</b> €21'23 10° <b>)</b> €33'26	
asc. node retrograde	4250 Feb 23 04:26 4250 Mar 01 21:15	26° <del>X</del> 36'44		retrograde evening set	4251 Feb 13 18:02 4251 Feb 17 06:05	9° <b>H</b> 21'35	
evening set	4250 Mar 05 02:12	25° <b>H</b> 38'11		inferior conj	4251 Feb 22 17:46	3° <b>\</b> 27'46	3°18'26
inferior conj	4250 Mar 10 18:54	20° <b>\</b> 00'04	3°33'28	minimum elong	4251 Feb 22 15:51	3° <b>)</b> (27 40	3°18'08
minimum elong	4250 Mar 10 18:01	20° <b>)</b> 02'45		min. Earth dist.	4251 Feb 24 00:01	1° <b>)</b> 49′08	0.66505 AU
min. Earth dist.	4250 Mar 12 16:15	17° <b>)</b> 42′10	0.65186 AU		4251 Feb 25 10:51	30° <b>R</b> ≈	
morning rise	4250 Mar 16 09:23	13° <b>)</b> 48′00		morning rise	4251 Feb 28 01:22	27° <b>≈</b> 13'43	
direct	4250 Mar 23 01:12	10° <b>)</b> 57′35		direct	4251 Mar 06 06:40	24° <b>≈</b> 27'59	
desc. node	4250 Apr 01 01:32	14° <b>)</b> 53′54			4251 Mar 16 18:57	0° <b>∀</b>	
morning max el	4250 Apr 05 08:20	18° <b>)</b> (45′59	27°02'34	desc. node	4251 Mar 18 22:31	2° <b>)</b> (04'54	
	4250 Apr 14 20:26	0° <b>Υ</b>		morning max el	4251 Mar 18 18:06	1° <b>)</b> 53'40	25°55'48
. ,	4250 May 04 04:16	0°8			4251 Apr 08 23:04	0° <b>Υ</b>	
morning set max. Earth dist.	4250 May 11 00:41 4250 May 15 12:00	12° <b>8</b> 39'00	1.33975 AU	morning set	4251 Apr 23 22:45 4251 Apr 26 09:29	25° <b>Y</b> 25'29 0° <b>と</b>	
max. Lattii Uist.	1250 May 15 12.00	21 029 32	1.55715 AU	max. Earth dist.	4251 Apr 27 19:35	2° <b>8</b> 42'45	1.35540 AU
superior conj	4250 May 19 10:08	29° <b>8</b> 35'10	-0°28'07	man. Barar alov.	120111pr 27 13.50	2 0 .2 .0	1.500 10 110
minimum elong	4250 May 19 11:37	29° <b>8</b> 42'54		superior conj	4251 May 03 04:45	13° <b>8</b> 20'38	-0°57'25
C	4250 May 19 14:52	$\Pi^{\circ}0$		minimum elong	4251 May 03 07:50	13° <b>8</b> 36'18	0°56'51
asc. node	4250 May 22 03:43	5° <b>Ⅱ</b> 21′06		asc. node	4251 May 09 00:45	25° <b>8</b> 18'57	
evening rise	4250 May 26 19:06	15° <b>Ⅱ</b> 10′03		evening rise	4251 May 11 02:12	29° <b>8</b> 33'21	
	4250 Jun 03 07:14	$0$ $\circ$ $\odot$			4251 May 11 07:24	$\Pi^{\circ}0$	
evening max el	4250 Jun 16 00:04	17° <b>©</b> 59'53	21°37'33	evening max el	4251 May 29 04:42	29° <b>Ⅱ</b> 01'53	20°16'28
retrograde	4250 Jun 28 08:53	24°506'13		_	4251 May 30 05:40	0°9	
desc. node	4250 Jun 28 00:48	24°905'57		retrograde	4251 Jun 08 22:34	4°5016'40	
evening set	4250 Jun 30 21:14	23°951'53	2025121	evening set	4251 Jun 10 21:47	4°506'52	
inferior conj minimum elong	4250 Jul 10 06:03 4250 Jul 09 21:37	19°550'47 20°502'34		desc. node inferior conj	4251 Jun 14 21:47 4251 Jun 20 00:52	2°\$52'49 0°\$08'24	-1°31'11
minimum elong min. Earth dist.	4250 Jul 09 21:37 4250 Jul 10 02:11	19° <b>©</b> 56'12	0.54865 AU	minimum elong	4251 Jun 20 00:52 4251 Jun 19 20:34	0°908'24 0°914'42	
morning rise	4250 Jul 18 23:10	15°957'51	0.5-1005 AU	mannum ciong	4251 Jun 20 06:33	0 €31442 30°R∏	1 4/31
direct	4250 Jul 22 06:52	15° <b>©</b> 33'51		min. Earth dist.	4251 Jun 21 14:18	29° <b>Ⅱ</b> 13'17	0.55066 AU
morning max el	4250 Aug 03 14:11	21° <b>©</b> 21'12	22°00'26	morning rise	4251 Jun 28 18:05	25° <b>I</b> I54'05	
-	4250 Aug 10 22:04	$0^{\circ}\Omega$		direct	4251 Jul 02 17:28	25° <b>Ⅱ</b> 19'54	
asc. node	4250 Aug 18 02:57	11° <b>Ω</b> 49'46			4251 Jul 14 01:14	0ಂತಾ	

morning max el	4251 Jul 16 06:33 4251 Aug 04 09:18	1°\$56'09 0°€	23°42'52	direct morning max el	4252 Jun 12 15:47 4252 Jun 26 20:29	5° <b>Ⅱ</b> 04'13 12° <b>Ⅱ</b> 19'02	25°23'17
asc. node	4251 Aug 04 23:58	1° <b>Ω</b> 11'57		1	4252 Jul 10 12:56	0°95	
morning set	4251 Aug 09 06:25	9° <b>Ω</b> 56'40		asc. node	4252 Jul 21 21:01 4252 Jul 23 18:03	20°©54'16 24°©49'43	
superior conj	4251 Aug 16 06:25	25° <b>Ω</b> 01'28	1°34'02	morning set	4252 Jul 26 03:54	24 <b>≥</b> 34943 0° <b>Ω</b>	
minimum elong	4251 Aug 16 00:25	24°Ω51'17	1°33'51		4232 Jul 20 03.34	0 80	
max. Earth dist.	4251 Aug 18 13:49	29° <b>Ω</b> 58′20	1.33323 AU	superior conj	4252 Jul 30 16:39	9° <b>Ω</b> 55'07	1°20'45
	4251 Aug 18 14:07	0° m		minimum elong	4252 Jul 30 14:21	9° <b>Ω</b> 42'30	1°20'25
evening rise	4251 Aug 23 18:22	10° <b>m</b> 43'02		max. Earth dist.	4252 Jul 31 20:17	12° <b>Ω</b> 26′21	1.32482 AU
	4251 Sep 03 03:18	0∘ <b>ত</b>		evening rise	4252 Aug 06 18:52	25° <b>Ω</b> 06'50	
desc. node	4251 Sep 10 21:06	12° <b>≏</b> 23'08			4252 Aug 09 04:37	0° <b>m</b>	
	4251 Sep 24 15:58	0°M₊			4252 Aug 26 16:43	0∘ <b>ಹ</b>	
evening max el	4251 Sep 26 15:29		27°24'01	desc. node	4252 Aug 27 18:07	1° <b>£</b> 29'31	
retrograde	4251 Oct 10 05:11	9°M16'12		evening max el	4252 Sep 08 00:23	14° <b>£</b> 47'58	27°21'22
evening set min. Earth dist.	4251 Oct 17 07:23 4251 Oct 21 00:47	6°M36'55 3°M15'59	0.64082 AU	retrograde evening set	4252 Sep 21 19:41 4252 Sep 28 23:55	22° <b>♀</b> 02'53 19° <b>♀</b> 36'37	
inferior conj	4251 Oct 23 11:59	0°M41'23		min. Earth dist.	4252 Sep 28 23:33 4252 Oct 02 14:37		0.62282 AU
minimum elong	4251 Oct 23 16:39	0°M29'11		inferior conj	4252 Oct 05 12:58	13° <b>⊆</b> 59'45	
	4251 Oct 24 03:53	30° <b>Ŗ</b> Ω		minimum elong	4252 Oct 05 18:52	13° <b>≏</b> 45'59	
morning rise	4251 Oct 30 03:14	25° <b>£</b> 18'48		morning rise	4252 Oct 12 15:32	8° <b>≏</b> 55'32	
asc. node	4251 Oct 31 23:11	24° <b>≏</b> 49'30		direct	4252 Oct 15 00:21	8° <b>₤</b> 30'43	
direct	4251 Nov 01 15:32	24° <b>₽</b> 47'08		asc. node	4252 Oct 17 20:13	9° <b>≏</b> 07'17	
morning max el	4251 Nov 08 04:03	28° <b>≏</b> 12'26	17°53'28	morning max el	4252 Oct 21 20:07	11° <b>≏</b> 59'06	17°51'26
	4251 Nov 09 19:35	0°M₊			4252 Nov 02 22:30	0°M₊	
morning set	4251 Nov 25 01:49	23°M58'54		morning set	4252 Nov 06 18:57	6°M52'26	
11-	4251 Nov 28 14:41	0°×7			4252 N 17, 20-41	260M 20105	0940121
desc. node	4251 Dec 07 20:18	15° <b>∡</b> 19'56		superior conj minimum elong	4252 Nov 17 20:41 4252 Nov 18 00:09	26°M20'05 26°M34'51	0°40'21 0°39'51
superior conj	4251 Dec 08 00:06	15° <b>∡</b> ³35'24	-0°01'06	minimum clong	4252 Nov 18 00:09 4252 Nov 20 00:43	20 11 <b>6</b> 3431 0° <b>√</b> 1	0 3931
minimum elong	4251 Dec 07 23:59	15° × 33′24′ 15° × 34′53	0°01'04	desc. node	4252 Nov 23 17:23	6° <b>∡</b> 707'34	
behind sun begin	4251 Dec 07 13:59	14° <b>₹</b> 54'14		max. Earth dist.	4252 Nov 24 23:52	8° <b>∡</b> 11'57	1.43266 AU
behind sun end	4251 Dec 08 09:59	16° <b>∡</b> 15′28		evening rise	4252 Dec 02 11:30	20° <b>х</b> 06′09	
max. Earth dist.	4251 Dec 13 08:53	24° <b>∡</b> 12'17	1.44566 AU		4252 Dec 08 22:23	0°ರ	
	4251 Dec 17 01:04	0° <b>ප</b>			4252 Dec 30 09:27	0° <b>≈</b>	
evening rise	4251 Dec 23 23:46	10° <b>る</b> 46'39		evening max el	4253 Jan 02 14:08	3° <b>≈</b> 31'57	21°35'11
	4252 Jan 05 16:50	0° <b>≈</b>		retrograde	4253 Jan 11 13:41	8°≈51'58	
evening max el	4252 Jan 20 16:41	19°≈58'06	20°24'31	asc. node	4253 Jan 13 19:29	8°≈24'49	
asc. node retrograde	4252 Jan 27 22:29 4252 Jan 28 16:11	24°≈36'33 24°≈39'31		evening set inferior conj	4253 Jan 15 20:29 4253 Jan 21 04:43	7°≈10'36 0°≈53'50	2°17'20
evening set	4252 Feb 01 12:46	24 ≈3931 23°≈13'25		minimum elong	4253 Jan 21 04:43 4253 Jan 21 02:18	0 ≈33 30 1°≈02'13	2°16'35
inferior conj	4252 Feb 06 21:46	17°≈06'35	2°52'22	min. Earth dist.	4253 Jan 21 09:04	0°≈38'44	0.67913 AU
minimum elong	4252 Feb 06 19:22	17°≈14'47	2°51'47	mm. Burur uist.	4253 Jan 21 20:16	30°R₹	0.07715110
min. Earth dist.	4252 Feb 07 14:23	16°≈10′01	0.67409 AU	morning rise	4253 Jan 26 07:56	24° <b>₹</b> 41'43	
morning rise	4252 Feb 12 01:45	10° <b>≈</b> 52'37		direct	4253 Jan 31 09:11	22° <b>る</b> 30'41	
direct	4252 Feb 17 17:36	8° <b>≈</b> 21'11		morning max el	4253 Feb 10 11:55	28° <b>る</b> 30'44	23°03'28
morning max el	4252 Feb 29 02:43	15° <b>≈</b> 09′27	24°32'38		4253 Feb 11 22:07	0° <b>≈</b>	
desc. node	4252 Mar 04 19:33	20°≈21'56		desc. node	4253 Feb 19 16:36	9° <b>≈</b> 26'34	
	4252 Mar 12 06:56	0° <b>ℋ</b> 0° <b>Ƴ</b>			4253 Mar 06 00:33	0° <b>∺</b> 17° <b>∺</b> 46'26	
morning set	4252 Mar 31 21:04 4252 Apr 05 01:52	0° γ 7° <b>Υ</b> 13'15		morning set max. Earth dist.	4253 Mar 17 03:54 4253 Mar 21 12:09	25° <b>H</b> 08'29	1.39676 AU
max. Earth dist.	4252 Apr 08 17:15		1.37497 AU	max. Earth dist.	4253 Mar 24 06:54	25 <b>γ</b> (0829	1.39070 AO
max. Darm dist.	4232 Apr 00 17.13	15 1 45 50	1.57477 110		4233 Wai 24 00.34	0 1	
superior conj	4252 Apr 15 12:27	26° <b>Ƴ</b> 30'01	-1°25'27	superior conj	4253 Mar 29 05:14	8° <b>Ƴ</b> 53'41	-1°49'18
minimum elong	4252 Apr 15 16:53	26° <b>Y</b> 51′30		minimum elong	4253 Mar 29 09:58	9° <b>Ƴ</b> 15'24	1°48'52
	4252 Apr 17 07:33	$9^{\circ}$ 8		evening rise	4253 Apr 07 19:59	27° <b>Y</b> 04'56	
evening rise	4252 Apr 24 03:27	13° <b>8</b> 34'06			4253 Apr 09 08:37	$9^{\circ}$ 8	
asc. node	4252 Apr 24 21:47	15° <b>8</b> 05'02		asc. node	4253 Apr 11 18:49	4° <b>8</b> 34'22	
	4252 May 02 22:00	0°II	1001	evening max el	4253 Apr 24 00:27	23° <b>8</b> 07'26	18°32'27
evening max el	4252 May 10 21:37	10° <b>Ⅱ</b> 45'47	19°14'22	retrograde	4253 May 01 17:09	26° <b>8</b> 54'56	
retrograde	4252 May 19 22:45	15° <b>Ⅱ</b> 10'14 14° <b>Ⅱ</b> 58'06		evening set inferior conj	4253 May 03 23:47	26° <b>8</b> 36'07 22° <b>8</b> 07'36	1°56'06
evening set inferior conj	4252 May 21 22:59 4252 May 30 09:01	14°Щ58'06 10°Щ48'36	0°24'40	minimum elong	4253 May 11 13:51 4253 May 11 17:21	22° <b>8</b> 00'36	1°55'06 1°55'03
minimum elong	4252 May 30 10:02	10° <b>I</b> I46'53	0°24'17	min. Earth dist.	4253 May 14 23:33	19° <b>8</b> 29'10	0.58000 AU
desc. node	4252 May 31 18:47	9° <b>П</b> 51'56	· -,	desc. node	4253 May 18 15:49	17° <b>8</b> 05'46	
min. Earth dist.	4252 Jun 02 05:09		0.56187 AU	morning rise	4253 May 19 07:45	16° <b>8</b> 45'20	
morning rise	4252 Jun 07 18:00	5° <b>Ⅱ</b> 59'52		direct	4253 May 25 04:26	15° <b>8</b> 17'51	

	1052 1 00 12 24	220 45 (147	26045152	T' .	125131 07 05 21	2600010122	
morning max el	4253 Jun 08 13:34	22° <b>8</b> 56'47	26°45'52	direct	4254 May 07 05:21	26° <b>Y</b> 18'33	
	4253 Jun 14 20:32	0° <b>I</b> I			4254 May 16 16:32	0° <b>8</b>	0.700.710.1
	4253 Jul 03 10:48	0.23 < 13.2		morning max el	4254 May 21 12:59	4° <b>8</b> 11'09	2/°3/'31
morning set	4253 Jul 08 04:09	9°936'25			4254 Jun 09 14:05	0°II	
asc. node	4253 Jul 08 18:04	10° <b>©</b> 49'55		morning set	4254 Jun 22 11:02	24° <b>Ⅱ</b> 11′23	
	4052 1 1 15 04 21	240650122	1000155	,	4254 Jun 25 05:05	0° <b>©</b>	
superior conj	4253 Jul 15 04:21	24°950'22	1°02'55	asc. node	4254 Jun 25 15:08	0°953'57	1 220 12 177
minimum elong	4253 Jul 15 02:07	24°938'01	1°02'31	max. Earth dist.	4254 Jun 28 18:36	7° <b>©</b> 44'46	1.32042 AU
max. Earth dist.	4253 Jul 15 07:07	25°905'38	1.32057 AU				
	4253 Jul 17 12:34	$0^{\circ}\Omega$		superior conj	4254 Jun 29 15:49	9° <b>5</b> 641'29	0°41'10
evening rise	4253 Jul 22 01:18	9° <b>Ω</b> 46'11		minimum elong	4254 Jun 29 14:07	9° <b>©</b> 32'04	0°40'49
	4253 Aug 01 12:05	0°Щт		evening rise	4254 Jul 06 11:24	24° <b>©</b> 33'45	
desc. node	4253 Aug 14 15:08	19° <b>m</b> 44'06			4254 Jul 09 01:50	$0$ $^{\circ}$ $\Omega$	
evening max el	4253 Aug 21 03:51	26° Mp 55'43	26°45'25		4254 Jul 26 18:13	0°Щ	
	4253 Aug 24 18:37	0ಂ <b>ರಾ</b>		desc. node	4254 Aug 01 12:08	6° Mp 45′40	
retrograde	4253 Sep 04 02:07	4° <b>£</b> 05'59		evening max el	4254 Aug 02 23:47	8° Mp 14'14	25°37'52
evening set	4253 Sep 10 22:55	2° <b>≏</b> 05'18		retrograde	4254 Aug 16 22:53	15° Mp 20′19	
	4253 Sep 14 01:29	30°R, Mp		evening set	4254 Aug 22 23:34	13° <b>m</b> 55'09	
min. Earth dist.	4253 Sep 14 17:52	•	0.60268 AU	min. Earth dist.	4254 Aug 27 11:47	11° <b>m</b> )17'13	0.58215 AU
inferior conj	4253 Sep 17 23:26	26° Mp 50'14		inferior conj	4254 Aug 30 15:50	9° <b>™</b> 02'50	-5°07'52
minimum elong	4253 Sep 18 05:03	26° M 38'43	4°34'34	minimum elong	4254 Aug 30 18:26	8° Mp 58'12	5°07'42
morning rise	4253 Sep 25 13:10	22°Mp07'24		morning rise	4254 Sep 07 15:33	4°₩43'16	
direct	4253 Sep 27 21:43	21°Mp46'26		direct	4254 Sep 10 03:12	4° <b>₯</b> 23'53	
asc. node	4253 Oct 04 17:16	24° <b>m</b> 50'56		morning max el	4254 Sep 18 13:37	8° Mp 24′43	18°46'15
morning max el	4253 Oct 05 08:24	25° Mp 26'10	18°08'31	asc. node	4254 Sep 21 14:20	11° <b>M</b> )46'12	
	4253 Oct 09 05:04	0∘ <b>ত</b>			4254 Oct 02 13:50	0∘ <b>⊽</b>	
morning set	4253 Oct 21 03:39	20° <b>£</b> 29'58		morning set	4254 Oct 04 23:16	4° <b>£</b> 38′24	
	4253 Oct 26 05:32	0°M					
				superior conj	4254 Oct 13 13:13	21° <b>≏</b> 16′56	1°31'25
superior conj	4253 Oct 30 18:41	8°M18'24	1°11'21	minimum elong	4254 Oct 13 16:09	21° <b>≏</b> 30'48	1°31'11
minimum elong	4253 Oct 30 22:44	8°M36'35	1°10'51		4254 Oct 18 06:08	$0^{\circ}$ M.	
max. Earth dist.	4253 Nov 07 10:08	21°M36'44	1.41476 AU	max. Earth dist.	4254 Oct 20 16:01	4° <b>ጤ</b> 19'00	1.39415 AU
desc. node	4253 Nov 10 14:25	26°M53'58		evening rise	4254 Oct 24 15:22	11°M12'09	
evening rise	4253 Nov 12 14:10	0° <b>∡</b> ¹08'26		desc. node	4254 Oct 28 11:27	17° <b>M</b> 35'47	
	4253 Nov 12 12:05	0° <b>∡</b> ¹			4254 Nov 05 08:27	0° <b>∡</b> ¹	
	4253 Dec 02 11:06	0°ප			4254 Nov 28 01:33	o°ප	
evening max el	4253 Dec 16 06:51	17° <b>පි</b> 08'15	22°53'19	evening max el	4254 Nov 28 20:22	0° <b>る</b> 47'32	24°13'05
retrograde	4253 Dec 26 08:54	23° <b>る</b> 07'12		retrograde	4254 Dec 10 00:39	7° <b>る</b> 20'59	
evening set	4253 Dec 31 03:39	21° <b>る</b> 09'44		evening set	4254 Dec 15 08:37	5° <b>る</b> 07'36	
asc. node	4253 Dec 31 16:31	20° <b>ප්</b> 41'27		asc. node	4254 Dec 18 13:35	1° <b>る</b> 40'51	
min. Earth dist.	4254 Jan 05 05:41	15° <b>ට</b> 10'37	0.68032 AU		4254 Dec 19 20:32	30°R. <b>✓</b>	
inferior conj	4254 Jan 05 12:39	14° <b>පි</b> 46'36	1°34'45	min. Earth dist.	4254 Dec 20 01:54	29° <b>∡</b> ¹42'00	0.67791 AU
minimum elong	4254 Jan 05 10:41	14° <b>る</b> 53'22	1°34'01	inferior conj	4254 Dec 20 19:44	28° <b>∡</b> ¹41'57	0°45'39
morning rise	4254 Jan 10 17:37	8°₹38'05		minimum elong	4254 Dec 20 18:40	28° <b>∡</b> ¹45'34	0°45'13
direct	4254 Jan 15 04:18	6° <b>る</b> 49'57		morning rise	4254 Dec 26 04:46	22° <b>∡</b> ³38'57	
morning max el	4254 Jan 24 01:25	12° <b>る</b> 00'42	21°37'36	direct	4254 Dec 30 01:51	21° <b>∡</b> 13'17	
desc. node	4254 Feb 06 13:39	29° <b>る</b> 05'25		morning max el	4255 Jan 06 22:10	25° <b>∡</b> ¹42'07	20°21'31
	4254 Feb 07 05:01	0° <b>≈</b>		_	4255 Jan 10 18:00	o°ප	
morning set	4254 Feb 25 01:12	26° <b>≈</b> 58'23		desc. node	4255 Jan 24 10:41	19° <b>පි</b> 08'30	
	4254 Feb 26 22:36	0° <b>∀</b>			4255 Jan 31 15:05	0° <b>≈</b>	
max. Earth dist.	4254 Mar 03 12:08	7° <b>ℋ</b> 26'57	1.41793 AU	morning set	4255 Feb 04 00:31	5°≈13'19	
				max. Earth dist.	4255 Feb 13 19:45	20°≈40'02	1.43559 AU
superior conj	4254 Mar 11 02:14	20° <b>)</b> 20'21	-2°04'49				
minimum elong	4254 Mar 11 05:00	20° <b>)</b> 32′27	2°04'43	superior conj	4255 Feb 19 22:35	0° <b>)</b> 38'39	-2°06'43
Č	4254 Mar 16 12:57	$_0$ $^{\circ}$ $^{\circ}$		minimum elong	4255 Feb 19 20:22	0° <b>¥</b> 29'28	
evening rise	4254 Mar 22 00:11	9° <b>Y</b> 57'48			4255 Feb 19 13:14	0° <b>)</b> €	
asc. node	4254 Mar 29 15:51	23° <b>Y</b> 41'20		evening rise	4255 Mar 04 11:41	22° <b>)(</b> 02'44	
	4254 Apr 02 14:37	0°8		<b>5</b>	4255 Mar 09 01:15	0°Υ	
evening max el	4254 Apr 07 09:45	5° <b>8</b> 58'16	18°10'30	asc. node	4255 Mar 16 12:54	12° <b>Υ</b> 17'59	
retrograde	4254 Apr 14 06:03	9° <b>8</b> 25'39		evening max el	4255 Mar 21 22:06	19° <b>Υ</b> 08'26	18°08'01
evening set	4254 Apr 16 19:18	8° <b>8</b> 57'25		retrograde	4255 Mar 28 09:15	22° <b>Y</b> 31'07	
inferior conj	4254 Apr 23 15:43	4° <b>8</b> 07'54	2°55'34	evening set	4255 Mar 31 04:30	21° <b>Y</b> 51'58	
minimum elong	4254 Apr 23 18:55	4° <b>8</b> 00'35		inferior conj	4255 Apr 06 11:12	16° <b>Υ</b> 42'21	3°26'45
min. Earth dist.	4254 Apr 26 23:49	1° <b>8</b> 06'45		minimum elong	4255 Apr 06 12:51	16° <b>Y</b> 38'05	3°26'34
	4254 Apr 28 08:03	30°RY		min. Earth dist.	4255 Apr 09 08:28	13° <b>Υ</b> 42'58	0.62312 AU
morning rise	4254 Apr 30 16:11	28° <b>Y</b> 20'46		morning rise	4255 Apr 12 19:46	10° <b>Υ</b> 40'05	
desc. node	4254 May 05 12:51	26° <b>Υ</b> 26'34		direct	4255 Apr 19 16:21	8° <b>Υ</b> 09'04	
						- 1 07 01	

desc. node	4255 Apr 22 09:53	8° <b>Ƴ</b> 30'55		min. Earth dist.	4256 Mar 22 02:37	27°¥05'36	0.64241 AU
morning max el	4255 May 03 18:29	16° <b>Υ</b> 08'07	27°51'52	morning rise	4256 Mar 25 16:10	23°\(\frac{1}{32}\)'55	0.04241 AU
morning max ci	4255 May 15 03:49	0° <b>8</b>	27 31 32	direct	4256 Apr 01 11:44	20° <b>)</b> 45'17	
	4255 Jun 02 05:36	0°II		desc. node	4256 Apr 08 06:55	23° <b>H</b> 01'02	
morning set	4255 Jun 06 12:37	8° <b>∏</b> 27'42		morning max el	4256 Apr 15 03:35	28° <b>)</b> 41'43	27°29'36
max. Earth dist.	4255 Jun 12 02:41	20° <b>I</b> I10'11	1.32440 AU	morning max or	4256 Apr 16 09:55	0°Υ	27 27 30
asc. node	4255 Jun 12 12:11	21° <b>I</b> I01'26	1.32110110		4256 May 07 23:38	0°8	
use. Houe	1233 3411 12 12.11	21 10120		morning set	4256 May 20 06:20	22° <b>8</b> 17'42	
superior conj	4255 Jun 14 01:15	24° <b>∏</b> 22'18	0°16'07	morning sec	4256 May 24 02:10	0°II	
minimum elong	4255 Jun 14 00:30	24° <b>I</b> 18'13	0°15'58	max. Earth dist.	4256 May 25 03:16	2° <b>П</b> 09'45	1.33279 AU
minimum ciong	4255 Jun 16 15:09	0°95	0 13 30	max. Earth dist.	1230 May 23 03.10	2 200 13	1.55277110
evening rise	4255 Jun 20 23:06	9° <b>5</b> 22'22		superior conj	4256 May 28 06:46	8° <b>Ⅱ</b> 47'19	-0°11'29
e vennig rise	4255 Jul 01 14:04	0°N		minimum elong	4256 May 28 07:21	8°П50'25	
evening max el	4255 Jul 15 13:25	18°Ω51'08	24°07'58	behind sun begin	4256 May 28 03:30	8° <b>∏</b> 29'57	
desc. node	4255 Jul 19 09:09	22° <b>Ω</b> 05′20		behind sun end	4256 May 28 11:12	9° <b>Ⅱ</b> 10'55	
retrograde	4255 Jul 29 08:28	25° <b>Ω</b> 48'08		asc. node	4256 May 29 09:13	11° <b>Ⅱ</b> 08'32	
evening set	4255 Aug 03 00:10	25° <b>Ω</b> 00'05		evening rise	4256 Jun 04 10:34	24° <b>∏</b> 06′10	
min. Earth dist.	4255 Aug 08 23:59	22° <b>Ω</b> 02'45	0.56399 AU	S	4256 Jun 07 06:45	0ಂತಾ	
inferior conj	4255 Aug 11 11:56	20° <b>Ω</b> 29'53	-5°06'22	evening max el	4256 Jun 26 03:17	29° <b>©</b> 14'14	22°30'47
minimum elong	4255 Aug 11 08:43	20° <b>Ω</b> 34'54		<i>5</i>	4256 Jun 26 22:38	$0^{\circ}\Omega$	
morning rise	4255 Aug 19 19:52	16° <b>Ω</b> 30'40		desc. node	4256 Jul 05 06:10	5° <b>Ω</b> 08'32	
direct	4255 Aug 22 13:09	16° <b>Ω</b> 11'19		retrograde	4256 Jul 09 05:44	5° <b>Ω</b> 45'04	
morning max el	4255 Sep 01 08:45	20° <b>Ω</b> 45'28	19°45'46	evening set	4256 Jul 12 09:19	5° <b>Ω</b> 23'13	
asc. node	4255 Sep 08 11:24	29° <b>£</b> 38′01		min. Earth dist.	4256 Jul 20 10:37	1° <b>Ω</b> 52'35	0.55176 AU
	4255 Sep 08 17:05	O° Mp		inferior conj	4256 Jul 21 13:59	1° <b>Ω</b> 13'42	-4°16'39
morning set	4255 Sep 19 02:20	19° <b>m</b> 08'13		minimum elong	4256 Jul 21 05:50	1° <b>Ω</b> 25'18	4°14'49
<i>5 5 1 1 1 1 1 1 1 1 1 1</i>	4255 Sep 24 10:53	$0 \circ \overline{\mathbf{v}}$			4256 Jul 23 18:46	30°Rூ	
	1			morning rise	4256 Jul 30 04:23	27° <b>©</b> 23'15	
superior conj	4255 Sep 26 22:57	5° <b>ഫ</b> 00'37	1°41'47	direct	4256 Aug 02 05:33	27° <b>©</b> 02'02	
minimum elong	4255 Sep 27 00:14	5° <b>£</b> 06'58	1°41'45		4256 Aug 10 18:23	$0^{\circ}\Omega$	
max. Earth dist.	4255 Oct 02 20:47	16° <b>£</b> 24'49	1.37338 AU	morning max el	4256 Aug 13 16:00	2° <b>Ω</b> 21'25	21°06'16
evening rise	4255 Oct 06 15:09	23° <b>≏</b> 18'23		asc. node	4256 Aug 25 08:27	18° <b>Ω</b> 13'07	
Ü	4255 Oct 10 10:53	0°M			4256 Aug 31 13:00	0° <b>m</b> )	
desc. node	4255 Oct 15 08:27	8°M09'08		morning set	4256 Sep 02 10:13	3° m 51'35	
	4255 Oct 30 02:29	0° <b>∡</b> 7		3			
evening max el	4255 Nov 11 08:42	14° <b>∡</b> ¹29'56	25°27'40	superior conj	4256 Sep 09 19:23	19° <b>m</b> ) 15'35	1°43'59
retrograde	4255 Nov 23 12:04	21° <b>∡</b> ¹29'05		minimum elong	4256 Sep 09 19:07	19° <b>m</b> )14'14	1°43'59
evening set	4255 Nov 29 09:46	19° <b>∡</b> '01'35		max. Earth dist.	4256 Sep 14 06:04	28° m) 15'42	1.35485 AU
min. Earth dist.	4255 Dec 03 19:27	14° <b>∡</b> 10'30	0.67200 AU		4256 Sep 15 03:15	0∘ <del>⊽</del>	
inferior conj	4255 Dec 05 00:12	12° <b>∡</b> ³37'59	-0°08'55	evening rise	4256 Sep 18 09:49	6° <b>₽</b> 17'25	
minimum elong	4255 Dec 05 00:25	12° <b>∡</b> ³37'15	0°08'49	desc. node	4256 Oct 01 05:28	28° <b>≏</b> 28'21	
transit middle	4255 Dec 05 00:25	12° <b>∡</b> ³37'15	0°08'49		4256 Oct 02 04:46	$0^{\circ}$ M	
transit begin	4255 Dec 04 22:05	12° <b>∡</b> ¹44'48		evening max el	4256 Oct 23 21:11	28°M10'57	26°29'46
transit end	4255 Dec 05 02:46	12° <b>∡</b> ¹29'41			4256 Oct 25 20:39	0° <b>∡</b> 7	
asc. node	4255 Dec 05 10:37	12° <b>∡</b> ¹04'31		retrograde	4256 Nov 05 18:23	5° <b>∡</b> ′24'30	
morning rise	4255 Dec 10 15:24	6° <b>∡</b> ¹42'33		evening set	4256 Nov 12 05:11	2° <b>∡</b> ′47′00	
direct	4255 Dec 14 00:30	5° <b>∡</b> ¹36'45			4256 Nov 15 01:16	30°₽ <b>M</b>	
morning max el	4255 Dec 21 02:52	9° <b>∡</b> ³34'45	19°19'11	min. Earth dist.	4256 Nov 16 08:00	28°M31'16	0.66260 AU
greatest brilliancy	4256 Jan 03 13:03	27° <b>∡</b> ³35′01	-0.7m	inferior conj	4256 Nov 18 00:06	26°M30'22	-1°07'49
	4256 Jan 05 03:20	ರ°ರ		minimum elong	4256 Nov 18 01:57	26°M24'44	1°07'01
desc. node	4256 Jan 11 07:42	9° <b>る</b> 29'25		asc. node	4256 Nov 21 07:39	22°M48'00	
morning set	4256 Jan 14 00:04	13° <b>る</b> 38'24		morning rise	4256 Nov 23 23:23	20°M45'04	
	4256 Jan 24 12:02	0° <b>≈</b>		direct	4256 Nov 26 22:34	19° <b>M</b> 55'31	
max. Earth dist.	4256 Jan 27 09:43	4° <b>≈</b> 34'10	1.44762 AU	morning max el	4256 Dec 03 14:04	23°M33'28	18°32'36
					4256 Dec 08 20:51	0° <b>∡</b> ¹	
superior conj	4256 Jan 30 17:44	9° <b>≈</b> 51'10	-1°50'05	morning set	4256 Dec 23 22:20	23° <b>∡</b> 15'51	
minimum elong	4256 Jan 30 09:44	9° <b>≈</b> 19'23	1°49'30	desc. node	4256 Dec 28 04:43	0° <b>る</b> 02'36	
	4256 Feb 12 03:48	0° <b>)</b> €			4256 Dec 28 04:04	ರ°ರ	
evening rise	4256 Feb 14 02:14	3° <b>)</b> 12′19					
asc. node	4256 Mar 02 09:56	0° <b>Y</b> 15'01		superior conj	4257 Jan 08 21:12	18° <b>පි</b> 27'01	-1°14'37
	4256 Mar 02 05:01	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	4257 Jan 08 12:31	17° <b>る</b> 52'59	1°13'36
evening max el	4256 Mar 04 10:37	2° <b>Y</b> 30'58	18°24'23	max. Earth dist.	4257 Jan 09 03:37	18° <b>る</b> 52'13	1.45271 AU
retrograde	4256 Mar 10 22:08	6° <b>Y</b> 02'04			4257 Jan 16 05:47	0°≈	
evening set	4256 Mar 13 23:18	5° <b>Ƴ</b> 11'00		evening rise	4257 Jan 24 17:23	13° <b>≈</b> 24'25	
inferior conj	4256 Mar 19 20:11	29° <b>)</b> 42′56	3°35'55	greatest brilliancy	4257 Feb 02 18:24	27° <b>≈</b> 44'41	-0.8m
minimum elong	4256 Mar 19 20:07	29° <b>)</b> (43′06	3°35'54		4257 Feb 04 05:02	0° <b>)</b> €	
-	4256 Mar 19 14:17	30° <b>₹</b>		evening max el	4257 Feb 15 20:49	16° <b>)</b> €00'02	18°58'37
				-			

Section   1985	aga mada	4257 Eab. 17, 06:56	17° <b>₩</b> 20'33		ratra arada	4258 Feb 06 14:20	3° <b>)</b> 52′27	
Section   Carrier   Carr	asc. node	4257 Feb 17 06:56			retrograde			
	•				evening set			
maintime and long   427 May 63 1329   679-64709   598-64124   59	•			2020124				2000122
nin Farth disd         425 May 10 9 0.54         1/19 (2000)         674 (2000)	·				•			
Monting fixed   4257 Mar   19 0.00   67 44790   direct   4258 Feb   20 1.15   75 44781   direct   4258 Feb   20 1.15   75 448710   2274   direct   4258 Mar   10 2229   2448110   2274   direct   4258 Mar   13 0.20   27 448710   2274   direct   4258 Mar   13 0.20   27 476710   direct   4258 Mar   13 0.00   07 4   direct   4258 Mar   13 0.00					Č			
direct         4257 Mar 20 1555         9745784         direct         4258 Mar 12 02-12         17-96-123         27-96-124         27-96-124         285 Mar 12 02-22         24-95-104         257-29         27-96-124         285 Mar 12 03-22         24-95-104         267-204         0°P         4257 Apr 12 04-25         257-204         26-96-204         0°P         4258 Mar 15 04-10         0°P         16-96-204		4257 Mar 05 05:46		0.65803 AU		4258 Feb 16 16:30	25°≈14'18	0.66948 AU
December   1457 May 12   163   164   179	morning rise	4257 Mar 09 02:00			morning rise	4258 Feb 20 21:56	20° <b>≈</b> 21'07	
Montaing max     4257 May 10   1234   1454   1974   1454   1974   1457   1474	direct	4257 Mar 15 13:58	3° <b>¥</b> 58'48		direct	4258 Feb 26 21:53	17° <b>≈</b> 40′25	
March   Marc	desc. node	4257 Mar 26 03:56	9° <b>∺</b> 22'29		morning max el	4258 Mar 10 22:29	24° <b>≈</b> 51′06	25°21'44
March   Marc	morning max el	4257 Mar 28 13:28	11° <b>)</b> 39′42	26°36'40	desc. node	4258 Mar 13 00:57	27° <b>≈</b> 04'24	
Manua		4257 Apr 12 04:49	$0$ ° $\Upsilon$			4258 Mar 15 14:18	0° <b>∀</b>	
max Farth dist		4257 Apr 30 13:34	$8^{\circ}$			4258 Apr 05 16:05	$0^{\circ}\Upsilon$	
Max. Farth dist	morning set	4257 May 03 12:50	5° <b>8</b> 31'23		morning set	4258 Apr 16 03:31	17° <b>Y</b> 54'46	
Manifard   March   M	•		13° <b>8</b> 37'46	1.34582 AU	•		24° <b>Ƴ</b> 42'27	1.36336 AU
Superior Conj   4257 May 12 0.010   22°BS005 0.01034   Superior Conj   4258 Apr 25 0.016 6°BC149 -1°0936   Superior Conj   4258 Apr 25 0.020   6°BC103 1°0859   Superior Conj   4258 Apr 25 0.016 6°BC149 -1°0936   Superior Conj   4258 Apr 25 0.020   6°BC103 1°0859   Superior Conj   4258 Apr 25 0.016 6°BC103 1°0859   Superior Conj   4258 May 01 01.010   Superior Conj   Superior C						-		
minimum elong	superior coni	4257 May 12, 06:10	22° <b>8</b> 50'05	-0°40'34			• •	
1985   1985		•	_		superior coni	4258 Apr 25 20:36	6° <b>∺</b> 21'49	-1°09'36
Second   425 May 1 0 0-115   PTI 11-23   second   425 May 0 0 0-116   22°8 Varis 1   1-28°	minimum clong	•		0 40 00			_	
evening rise	1-	•			Č		_	1 00 39
cevening max el 4257 May 31 06.12 0°\$ cevening max el 4258 May 07 14.20 0°1" 30°1" 1656 19°4735 retrograde 4257 Jun 19 18.34 15°524141 retrograde 4258 May 31 11.03 26°1" 10°33 26°1" 10°32 26°32 26°1" 10°32 26°1" 10°32 26°1" 10°32 26°1" 10°32 26°1" 10°32 26°32 26°1" 10°32 26°1" 10°32 26°1" 10°32 26°1" 10°32 26°1" 10°32 26°1" 10°32 26°1" 10°32 26°1" 10°32 26°1" 10°32 26°1" 10°32 26°32 26°1" 10°32 26°1		•				•	•	
cvening max el   4257 Jun   19   18.34   15°@51/12   15°09/127   cvening max el   4258 May 31   11-23   21°L1/656   19°47/557   cvening set   4258 May 31   11-23   22°L1/658   cvening set   4258 May 31   11-23   22°L1/658   cvening set   4258 May 31   10-22°L1/658   cvening set   4258 May 31   10-20° 22°L1/658   cvening set   4258 Jun   0   00-12   23°L1/658   cvening set   4258 Jun   0   00-12   23°L1/658   cvening set   4258 Jun   10   00-12   11°952/55   2-3926   inferior conj   4258 Jun   10   60-22   21°L1/654   cvening minimum elong   4258 Jun   10   01-23   11°69/255   2-3926   inferior conj   4258 Jun   10   60-22   11°E9/376   2-3700   minimum elong   4258 Jun   10   60-22   11°E9/376   2-3700   minimum elong   4258 Jun   10   60-22   11°E9/376   2-3700   minimum elong   4258 Jun   10   60-22   7°E9/2578   morning rise   4258 Jun   10   60-22   11°L1/654   4268 Jun   10	evening rise	•			evening rise			
Petrograde   4257 Jun   19   1834   15*921*14    retrograde   4258 May 31   11.03   26*108*35   25*108*36   desc. node   4257 Jun   21 23.03   15*9238*38   desc. node   4258 Jun   09 001.2   23*11*18*21   inferior conj   4258 Jun   10 07.25   11*93255   2*9926   inferior conj   4258 Jun   10 6.27   21*11*18*71   0*9075   minimum clong   4257 Jul   01 21:56   11*921225   0.54828 Jun   minimum clong   4258 Jun   10 04.27   21*11*19*37   0*9975   minimum clong   4257 Jul   01 21:56   11*921225   0.54828 Jun   minimum clong   4258 Jun   10 04.27   21*11*19*37   0*9975   minimum clong   4257 Jul   01 01.23   7*93238   moming rise   4258 Jun   10 04.27   21*11*19*37   0*9975   minimum clong   4257 Jul   26 12.28   13*921454   22*4315   moming max el   4258 Jun   09 02.31   26*025252   23*111466   24*2645   4257 Jul   26 12.28   13*921454   22*4315   moming max el   4258 Jul   00 02.31   26*025252   23*11466   24*2645   4257 Jul   26 12.28   7*26179   moming max el   4258 Jul   00 02.31   26*025252   23*11466   24*2645   4257 Jul   26 12.28   7*26179   moming max el   4258 Jul   00 02.31   26*025252   23*11466   24*2645   4257 Jul   26 12.28   7*26179   moming set   4258 Jul   00 02.31   26*025252   23*11466   24*2645   4257 Jul   26 12.28   4257 Jul   26 12.28   7*26179   moming set   4258 Jul   00 02.31   26*025252   4257 Jul   26 12.28   4257 J		•				•		
evening set         4257 Jun 21 23.03         15°93073 Jun 22 03.11         15°932838 lose, node         4258 Jun 02 09.47         25°T15836 Jun 10 00.12         21°T15947 Jun 10 07.25         11°93255 2-2°3926         inferior conj         4258 Jun 11 06.27         21°T15947 -0°4016         21°T15947 -0°4016 </td <td>Č</td> <td></td> <td></td> <td>21°01'03</td> <td>•</td> <td>,</td> <td></td> <td>19°47'35</td>	Č			21°01'03	•	,		19°47'35
desc. node   4257 Jun 22 03.11   15°\$22878   desc. node   4258 Jun 09 00.12   23°\$11871   minimum clong inferior conj   4257 Jul 01 00.12   17°\$23755   2°3926   min farth dist.   4257 Jul 01 00.12   17°\$23758   0.54828 AU   minimum clong   4257 Jul 01 01.23   7°\$23758   min Earth dist.   4258 Jun 10 10.123   7°\$23758   min Earth dist.   4258 Jun 10 10.123   7°\$23758   morning fise   4257 Jul 13 15.02   7°\$20531   direct   4258 Jun 19 21.17°\$17206   direct   4257 Jul 13 15.02   7°\$20531   direct   4258 Jul 19 21.02   3°\$2054   direct   4258 Jul 19 21.02   3°\$2055   16°\$11712   direct   4258 Jul 19 20.02   3°\$2055   4257 Aug 17 20.55   18°\$4275   3°\$205   18°\$4275   3°\$205   4258 Jul 19 20.02   3°\$406   3°\$4275   4258 Jul 19 20.02   3°\$407   3°\$40	retrograde	4257 Jun 19 18:34	15° <b>©</b> 41'41		retrograde	4258 May 31 11:03		
Mariforior conj   4257 Jul   01 07.25   11°93275   2°39′26   inferior conj   4258 Jun   11 06.27   21°115647   0°40′16   minimum clong   4257 Jul   01 01.21   1°26′370   2°37′00   minimum clong   4258 Jun   11 04.37   20°11371   0.5445 AU morning rise   4257 Jul   10 01.23   7°43275   0.5482 AU morning rise   4258 Jun   19 21.17   17°11200   0.5445 AU morning rise   4257 Jul   10 01.23   7°43275   0.5482 AU morning rise   4258 Jun   10 01.23   0.5445 AU morning rise   4257 Jul   26 12.28   13 3621   0.6425   0.5428 AU morning rise   4257 Jul   26 12.28   13 3621   0°40   0.5445 AU morning max el   4257 Jul   26 12.28   13 3621   0°40   0.5445 AU morning max el   4257 Jul   26 12.28   13 3621   0°40   0.5425   0.6427   0.4228	evening set	4257 Jun 21 23:03	15° <b>©</b> 30'27		evening set	4258 Jun 02 09:47	25° <b>Ⅱ</b> 58'36	
minimum elong morning rise differed 4257 Jul 10 12:56 11°26'12°25 0.54828 AU minimum elong differed 4257 Jul 10 10:123 7°263'25'8 morning max el 4257 Jul 26 12:28 13°26'145'4 22°43'15 morning max el 4257 Jul 26 12:28 13°26'145'4 22°43'15 morning max el 4257 Jul 20 12:29 7°762'110	desc. node	4257 Jun 22 03:11	15° <b>©</b> 28'38		desc. node	4258 Jun 09 00:12	23° <b>Ⅲ</b> 18′21	
min. Earth dist.	inferior conj	4257 Jul 01 07:25	11° <b>©</b> 32'55	-2°39'26	inferior conj	4258 Jun 11 06:27	21° <b>Ⅱ</b> 56'47	-0°40'16
Morning rise   4257 Jul   10 01-23   7°€39258   morning rise   4258 Jun   19 21-17   17°±12906   morning max   4257 Jul   26 12-28   13°€31454   22°4315   morning max   4257 Jul   26 12-28   13°€31454   22°4315   morning max   4257 Jul   26 12-28   13°€31454   22°4315   morning max   4257 Jul   17 02-55   18°€41451   morning set   4258 Jul   30 02:31   26°€35252   morning set   4257 Jul   17 02-55   18°€4315   morning set   4257 Jul   17 02-55   18°€4315   morning set   4257 Jul   17 02-55   18°€4315   morning set   4258 Jul   13 12:10   0°€2   morning set   4257 Jul   17 02-55   18°€4315   morning set   4258 Jul   13 12:10   0°€2   morning set   4258 Jul   10 02:34   22°€315   132920 Jul   morning set   4258 Jul   10 02:34   22°€3151   132920 Jul   4258 Jul   10 02:34   22°€315   132920 Jul   4258 Jul   10 02:34	minimum elong	4257 Jul 01 00:12	11° <b>5</b> 643'06	2°37'00	minimum elong	4258 Jun 11 04:37	21° <b>Ⅱ</b> 59'37	0°39'35
Morning rise   4257 Jul   10   12.3   7°939278   morning rise   4258 Jun   19   21.17   T12706     direct   4257 Jul   26   12.28   13°951454   22°4315   morning maxel   4258 Jun   18 0.550   23°114046   24°2645     asc. node   4257 Aug   12 05.29   7°421109   morning maxel   4258 Jul   13 00.231   26°95252     asc. node   4257 Aug   17 0.555   18°04315   morning set   4258 Aug   00 08.40   3°363709     superior conj   4257 Aug   24 21.11   3°195208   1°3922   minimum elong   4257 Aug   24 21.14   3°195408   1°3922   minimum elong   4257 Aug   24 21.14   3°195408   1°3922   minimum elong   4257 Aug   24 0.000   10°19   1614   133998 AU   minimum elong   4258 Aug   00 0741   18°04151   12°259 AU     evening rise   4257 Sep   07 02.12   0°40   evening rise   4258 Aug   10 1456   4°90834     desc. node   4257 Sep   18 02.30   18°422658   evening max   4257 Oct   19 18.51   19°11.0007   evening max   4257 Oct   10 18°12.35   10°11.0007   evening max   4257 Oct   26 1635   16°11.0007   evening max   4257 Oct   27 18.10007   evening max   4257 Oct   27 18.	_	4257 Jul 01 21:56	11° <b>©</b> 12'25	0.54828 AU	_	4258 Jun 13 10:49	20° <b>Ⅲ</b> 36′16	0.55445 AU
direct         4257 Jul 13 15:02         7°\$08'31         direct         4258 Jun 24 05:55         16°H47'12         Imming max el 4257 Jul 08 02:30         23°H40'46         24°64'85           asc. node         4257 Aug 18 05:29         7°\$21'19         asc. node         4258 Jul 13 20:07         2°\$E         4268'52'52         4258 Jul 13 20:07         2°\$E         4258 Jul 13 15:00         2°\$E         8°\$E         4258 Jul 13 15:00         2°\$E         8°\$E         4258 Jul 13 15:00         2°\$E         8°\$E         8°\$E         4258 Jul 13 15:00         0°\$C         8°\$E         8°\$E         8°\$E         4258 Jul 13 15:00         0°\$C         8°\$E         8°\$E <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>17°<b>Ⅱ</b>29'06</td><td></td></td<>							17° <b>Ⅱ</b> 29'06	
morning max el 4257 Jul 26 12:28   13°\$14'54   22°43'15   morning max el 4258 Jul 08 02:50   23°\$14'046   24°26'45' asc. node 4257 Aug 12 05:29   7°\$21'109   asc. node 4258 Jul 30 02:31   26°€35'52	•				•			
asc. node				220/3115				24°26'45
asc. node	morning max ci			22 43 13	morning max cr			24 20 43
Superior conj   4257 Aug 17 20:55   18°Ω43'15   15°Ω43'15   15	1-	-			1.			
## Superior conj   4257 Aug 23 03:45   0°M   morning set   4258 Aug 02 08:40   3°£03709   ## Superior conj   4257 Aug 24 23:11   3°M52'08   1°39'22   superior conj   4258 Aug 09 07:41   18°£041'11   1°28'59   ## minimum elong   4257 Aug 24 21:46   3°M4'32   1°39'16   minimum elong   4258 Aug 09 05:34   18°£02'938   1°28'44   ## wax. Earth dist.   4257 Aug 28 00:07   10°M16'14   133998 AU   max. Earth dist.   4258 Aug 10 02:54   22°£35'15   1.32920 AU   ## evening rise   4257 Sep 01 19:04   19°M58'807   4258 Aug 14 14:41   0°M		•			asc. node			
superior conj d.257 Aug. 24 23:11 3° \$\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathb{\mathbb{	morning set	=						
minimum elong		4257 Aug 23 03:45	Oolib		morning set	4258 Aug 02 08:40	3°8137'09	
minimum elong		4257 4 24 22 11	20 m. 52100	1020122		4250 A 00 07 41	100 0 41111	1020150
max. Earth dist.		-	-			Č		
evening rise  4257 Sep 01 19:04 19°™58'07  4257 Sep 07 02:12 0°™  4257 Sep 07 02:12 0°™  4257 Sep 07 02:12 0°™  4257 Sep 08 02:00 18°™26'58  4257 Sep 26 05:00 0°™  4257 Sep 26 05:00 0°™  4257 Sep 26 05:00 0°™  4257 Oct 19 18:51 19°™0007  evening max el 4257 Oct 19 18:51 19°™0007  evening set 4257 Oct 26 16:35 16°™19°™142'23 27°11'44 evening max el 4258 Sep 18 20:47 24°™25'59 27°26'51  retrograde 4257 Oct 19 18:51 19°™0007  evening set 4257 Oct 26 16:35 16°™19°™141 10°™141'39 -2°09'21  minimum elong 4257 Nov 01 17:14 10°™141'39 -2°09'21 evening set 4258 Oct 02 12:53 27™107'08  minimum elong 4257 Nov 01 17:14 10°™141'39 -2°09'21 evening set 4258 Oct 13 08:52 26°™24'01 0.63354 AU  morning rise 4257 Nov 08 02:16 4°™142'34 inferior conj 4258 Oct 16 00:59 23°™24'19 3°10'52  asc. node 4257 Nov 10 17:52 4°™105'21 morning rise 4258 Oct 25 07:33 18°™202'9  morning max el 4257 Dec 02 11:10 0°™27 18°0'24'4 direct 4258 Oct 25 07:33 18°™202'9  morning set 4257 Dec 02 11:10 0°™27 18°0'24'9  morning set 4257 Dec 02 11:10 0°™27 18°0'24'9  morning set 4257 Dec 19 04:47 27°™21'01 -0°28'09  minimum elong 4257 Dec 19 04:47 27°™21'01 -0°28'09  minimum elong 4257 Dec 19 04:47 27°™27'01 0°28'09  max. Earth dist. 4257 Dec 19 01:18 27°™27'08 0°27'39  max. Earth dist. 4257 Dec 19 01:18 27°™27'08 0°27'39  max. Earth dist. 4258 Dec 13 12:00 0°™27'31 1.44086 AU  greatest brillianey 4258 In 10 0:248 29°*32'03 19°49'05 evening rise 4258 Dec 13 12:00 0°∞2 11°™27'30'21'18'  morning max el 4258 In 10 0:248 29°*32'03 19°49'05 evening rise 4258 Dec 13 12:00 0°∞2 11°™27'30'21'18'  evening rise 4258 In 10 0:248 29°*32'03 19°49'05 evening rise 4258 Dec 13 12:00 0°∞2 11°*3 0°17'38  max. Earth dist. 4258 In 10 0:248 29°*32'03 19°49'05 evening rise 4258 Dec 13 12:00 0°∞2 11°*3 0°17'38  max. Earth dist. 4258 In 10 0:248 29°*32'03 19°49'05 evening rise 4258 Dec 13 12:00 0°∞2 11°*3 0°17'38  max. Earth dist. 4258 In 10 0:248 29°*32'03 19°49'05 evening rise 4258 Dec 13 12:00 0°∞2 11°*3 0°17'38  max. Earth dist. 4258 In 10 0:248 29°*32'03 19°49'05 evening ri	Č	=	~		· ·	•		
desc. node	max. Earth dist.	•	~	1.33998 AU	max. Earth dist.	Č		1.32920 AU
desc. node   4257 Sep   18 02:30   18° \( \overline{\Delta} 255 Sep   18 02:30 \) 0° \( \overline{\Delta} \) 0° \( \	evening rise	4257 Sep 01 19:04	19° <b>m</b> 58'07			Č	0° <b>m</b> ∤	
evening max el 4257 Sep 26 05:00 0°M evening max el 4258 Sep 04 23:32 7°£55'37 27°£55'37 evening max el 4257 Oct 10 18:51 19°M.00'07 4258 Sep 25 13:03 0°M evening set 4257 Oct 10 18:51 19°M.00'07 retrograde 4258 Oct 02 12:53 2°M.07'08 11°M.00'07 4258 Nov 01 17:14 10°M.14'39 -2°09'21 evening set 4258 Oct 09 00:41 30°R.6 10°M.00'10 17:14 10°M.14'39 -2°09'21 evening set 4258 Oct 09 17:01 29°£32'02 minimum elong 4257 Nov 01 20:54 10°M.04'29 2°07'53 min. Earth dist. 4258 Oct 10 05:59 23°£44'19 -3°10'52 asc. node 4257 Nov 08 04:40 4°M.39'50 minimum elong 4257 Nov 10 17:52 4°M.05'21 morning max el 4257 Nov 10 17:52 4°M.05'21 morning max el 4257 Nov 10 17:52 4°M.05'21 morning max el 4257 Nov 10 17:52 7°M.32'43 18°02'44 direct 4258 Oct 22 20:58 18°£28'59 morning set 4257 Nov 10 17:52 4°M.05'21 morning set 4258 Oct 22 11:10 0°₹7 morning set 4258 Oct 22 11:10 0°₹7 morning set 4258 Oct 22 11:10 0°₹7 morning set 4258 Nov 10 17:52 17°M.32'43 18°02'44 direct 4258 Nov 10 17:52 17°M.32'43 18°02'44 direct 4258 Nov 10 17:50 11:10 0°₹7 morning set 4258 Nov 10 17:50 11:10 0°₹7 morning set 4258 Nov 10 17:50 11:10 0°₹7 morning set 4258 Nov 25 00:46 0°₹7 10.47 0°M. 10.63 11.60 11.		4257 Sep 07 02:12	0∘ <b>ত</b>		evening rise	4258 Aug 16 14:56	4°Mp08'34	
evening max el 4257 Oct 06 09:49 11°IL42'23 27°11'44 evening max el 4258 Sep 18 20:47 24°£50'59 27°26'51 retrograde 4257 Oct 19 18:51 19°IL00'07 retrograde 4258 Sep 25 13:03 0°IL evening set 4257 Oct 26 16:35 16°IL190' retrograde 4258 Oct 02 12:53 2°IL07'08 retrograde 4258 Oct 02 12:53 2°IL07'08 retrograde 4258 Oct 02 12:53 2°IL07'08 retrograde 4258 Oct 09 10:41 30°IL 40°IL14'39 2°09'21 evening set 4258 Oct 09 10:41 30°IL 40°IL14'39 2°09'21 evening set 4258 Oct 09 17:01 29°£32'02 retrograde 4258 Oct 09 10:42 23°£31'05 3°09'04 retrograde 4258 Oct 09 10:42 20°£31'05 23°£31'05	desc. node	4257 Sep 18 02:30	18° <b>≙</b> 26'58			4258 Aug 30 19:19	0∘ <b>⊽</b>	
retrograde 4257 Oct 19 18:51 19°IL00'07 retrograde 4258 Sep 25 13:03 0°IL evening set 4257 Oct 26 16:35 16°IL19'09 retrograde 4258 Oct 02 12:53 2°IL07'08 min. Earth dist. 4257 Oct 30 13:11 12°IL38'45 0.64977 AU 4258 Oct 09 00:41 30°R⊕ inferior conj 4257 Nov 01 17:14 10°IL14'39 -2°09'21 evening set 4258 Oct 09 17:01 29°♣32'02 minimum elong 4257 Nov 08 02:54 10°IL04'29 2°07'53 min. Earth dist. 4258 Oct 13 08:52 26°£24'01 0.63354 AU morning rise 4257 Nov 08 02:16 4°IL42'34 inferior conj 4258 Oct 16 00:59 23°£44'19 -3°10'52 asc. node 4257 Nov 10 17:52 4°IL05'21 morning rise 4258 Oct 16 00:59 23°£44'19 -3°10'52 asc. node 4257 Nov 10 17:52 4°IL05'21 morning rise 4258 Oct 22 20:58 18°£28'59 morning max el 4257 Dec 02 11:10 0°₹ asc. node 4258 Oct 30 22:05 21°£20'52 18°£20'50 17°50'23 desc. node 4257 Dec 15 01:44 20°₹44'07 morning max el 4258 Oct 31 22:05 21°£25'50 17°50'23 desc. node 4257 Dec 19 01:18 27°₹07'08 0°27'39 minimum elong 4258 Nov 29 09:54 7°₹20'13 0°17'38 max. Earth dist. 4258 Dec 19 03:34 0°≈ morning max el 4258 Nov 29 11:43 7°₹27'43 0°17'22 evening rise 4258 Jan 18 05:07 13°≈45'19 -0.7m unimimum elong 4258 Dec 11 14:20 0°₹ 4258 Jan 18 05:07 13°≈45'19 -0.7m evening max el 4258 Dec 14 22:00 2°₹02'18 4258 Jan 30 13:55 0°€  vening rise 4258 Dec 14 22:00 2°₹02'18 4258 Jan 30 13:55 0°€  vening max el 4258 Dec 14 22:00 2°₹02'18 4258 Jan 30 13:55 0°€  vening rise 4258 Jan 02 17:47 0°≈ sevening rise 4258 Jan 30 13:55 0°€  vening rise 4258 Jan 02 17:47 0°≈ sevening rise 4258 Jan 30 13:55 0°€  vening rise 4258 Jan 02 17:47 0°≈ sevening rise 4258 Jan 30 13:55 0°€  vening rise 4258 Jan 02 17:47 0°≈ sevening rise 4258 Jan 30 13:55 0°€  vening rise 4258 Jan 02 17:47 0°≈ sevening rise 4258 Jan 30 13:55 0°€  vening rise 4258 Jan 02 17:47 0°≈ sevening rise 4258 Jan 30 13:55 0°€  vening rise 4258 Jan 02 17:47 0°≈ sevening rise 4258 Jan 02 17:47 0°≈ sevening rise 4258 Jan 30 13:55 0°€  vening rise 4258 Jan 02 17:47 0°≈ sevening rise 4258 Jan 02 17:47 0°≈ sevening rise 4258 Jan 30 13:55 0°€  vening rise 4258 Jan 02 17:47 0°≈		4257 Sep 26 05:00	0°M		desc. node	4258 Sep 04 23:32	7° <b>≏</b> 55'37	
evening set 4257 Oct 26 16:35	evening max el	4257 Oct 06 09:49	11°M42'23	27°11'44	evening max el	4258 Sep 18 20:47	24° <b>♀</b> 50'59	27°26'51
min. Earth dist.	retrograde	4257 Oct 19 18:51	19° <b>M</b> L00'07			4258 Sep 25 13:03	0° <b>M</b> ₊	
min. Earth dist.	evening set	4257 Oct 26 16:35	16° <b>M</b> ₊19'09		retrograde	4258 Oct 02 12:53	2°MJ07'08	
minferior conj	-			0.64977 AU				
minimum elong					evening set			
morning rise	·				•			0.63354 AU
asc. node 4257 Nov 08 04:40 4°IL39'50 minimum elong direct 4258 Oct 16 06:17 23°£31'05 3'09'04 direct 4257 Nov 10 17:52 4°IL05'21 morning rise 4258 Oct 22 20:58 18°£28'59 morning max el 4257 Nov 17 05:25 7°IL32'43 18°02'44 direct 4258 Oct 25 07:33 18°£200'29 4257 Dec 02 11:10 0° √ asc. node 4258 Oct 26 01:42 18°£00'29 desc. node 4257 Dec 05 02:15 4° √22'06 morning max el 4258 Nov 07 10:47 0°IL 4258 Nov 07 10:	•			2 07 33				
Morning max el   4257 Nov 10 17:52   4° Nov 17 05:25   7° Nov 18 05:25   7° Nov	_				,			
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Morning set   4257 Dec   02   11:10   0°ネ   asc. node   4258 Oct   26   01:42   18°至03'17     Morning set   4257 Dec   05   02:15   4°ネ22'06   morning max el   4258 Oct   31   22:05   21°至25'50   17°50'23     desc. node   4257 Dec   15   01:44   20°ネ44'07   morning set   4258 Nov   07   10:47   0°M     superior conj   4257 Dec   19   04:47   27°ネ21'01   -0°28'09   4258 Nov   25   00:46   0°ネ     minimum elong   4257 Dec   19   01:18   27°ネ07'08   0°27'39     max. Earth dist.   4257 Dec   20   20:49   0°중   superior conj   4258 Nov   29   09:54   7°ネ20'13   0°17'38     max. Earth dist.   4257 Dec   22   23:04   3°중18'33   1.45036 AU   minimum elong   4258 Nov   29   11:43   7°ネ27'43   0°17'22     evening rise   4258 Jan   04   12:16   22°중51'22   desc. node   4258 Dec   01   22:48   11°ネ30'28     greatest brilliancy   4258 Jan   18   05:07   13°≈45'19   -0.7m   4258 Dec   13   14:20   0°중     evening max el   4258 Jan   30   13:55   0°米   evening rise   4258 Dec   14   22:00   2°중02'18     4258 Jan   30   13:55   0°米   evening rise   4258 Dec   14   22:00   2°중02'18     4258 Jan   02   17:47   0°≈   evening rise   4258 Jan				10000144	•			
morning set 4257 Dec 05 02:15 4°ネ22'06 morning max el 4258 Oct 31 22:05 21°至25'50 17°50'23 desc. node 4257 Dec 15 01:44 20°ネ44'07 morning set 4258 Nov 07 10:47 0°肌 morning set 4258 Nov 17 07:40 16°肌42'11 superior conj 4257 Dec 19 04:47 27°ネ21'01 -0°28'09 4258 Nov 25 00:46 0°ネ いかった 10°11 27°ネ0'10 0°11 27° 0°11 27° 0°11 27° 0°11 27° 0°11 27° 0°11 27° 0°11 27° 0°11	morning max el			18°02'44				
desc. node   4257 Dec 15 01:44   20° ** 44'07   morning set   4258 Nov 07 10:47   0° ** 16° ** 142'11   superior conj   4257 Dec 19 04:47   27° ** 21'01 -0°28'09   4258 Nov 25 00:46   0° **   425								
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superior conj	desc. node	4257 Dec 15 01:44	20° <b>҂</b> ¹44'07			4258 Nov 07 10:47	0°M₊	
minimum elong 4257 Dec 19 01:18 27° × 07'08 0°27'39 4257 Dec 20 20:49 0°3 superior conj 4258 Nov 29 09:54 7° × 20'13 0°17'38 max. Earth dist. 4257 Dec 22 23:04 3°3 1.45036 AU minimum elong 4258 Nov 29 11:43 7° × 27'43 0°17'22 evening rise 4258 Jan 04 12:16 22° 351'22 desc. node 4258 Dec 01 22:48 11° × 30'28 4258 Jan 09 03:34 0°≈ max. Earth dist. 4258 Dec 05 16:54 17° × 34'35 1.44086 AU greatest brilliancy 4258 Jan 18 05:07 13° ≈ 45'19 -0.7m 4258 Dec 13 14:20 0°3 evening max el 4258 Jan 30 02:48 29° ≈ 32'03 19° 49'05 evening rise 4258 Dec 14 22:00 2° 302'18 4258 Jan 02 17:47 0°≈					morning set	4258 Nov 17 07:40	16° <b>M</b> 42'11	
Max. Earth dist.   4257 Dec   20 20:49   0°舌   superior conj   4258 Nov   29 09:54   7°ズ20'13   0°17'38     max. Earth dist.   4257 Dec   22 23:04   3°式18'33   1.45036 AU   minimum elong   4258 Nov   29 11:43   7°ズ27'43   0°17'22     evening rise   4258 Jan   04 12:16   22°式51'22   desc. node   4258 Dec   01   22:48   11°ズ30'28     greatest brilliancy   4258 Jan   18 05:07   13°≈45'19   -0.7m   4258 Dec   13 14:20   0°式     evening max el   4258 Jan   30 02:48   29°≈32'03   19°49'05   evening rise   4258 Dec   14 22:00   2°式02'18     4258 Jan   30 13:55   0°沃   4258 Jan   0°17'38   7°ズ20'13   0°17'22     desc. node   4258 Dec   01   22:48   11°ズ30'28   1.44086 AU     4258 Dec   13 14:20   0°式   2°式02'18     4258 Jan   30 13:55   0°沃   4258 Jan   02 17:47   0°≈	superior conj	4257 Dec 19 04:47	27° <b>×</b> <sup>7</sup> 21'01	-0°28'09		4258 Nov 25 00:46	0° <b>∡</b>	
Max. Earth dist.   4257 Dec   20 20:49   0°舌   superior conj   4258 Nov   29 09:54   7°ズ20'13   0°17'38     max. Earth dist.   4257 Dec   22 23:04   3°式18'33   1.45036 AU   minimum elong   4258 Nov   29 11:43   7°ズ27'43   0°17'22     evening rise   4258 Jan   04 12:16   22°式51'22   desc. node   4258 Dec   01   22:48   11°ズ30'28     greatest brilliancy   4258 Jan   18 05:07   13°≈45'19   -0.7m   4258 Dec   13 14:20   0°式     evening max el   4258 Jan   30 02:48   29°≈32'03   19°49'05   evening rise   4258 Dec   14 22:00   2°式02'18     4258 Jan   30 13:55   0°沃   4258 Jan   0°17'38   7°ズ20'13   0°17'22     desc. node   4258 Dec   01   22:48   11°ズ30'28   1.44086 AU     4258 Dec   13 14:20   0°式   2°式02'18     4258 Jan   30 13:55   0°沃   4258 Jan   02 17:47   0°≈	minimum elong	4257 Dec 19 01:18	27° <b>₹</b> '07'08	0°27'39				
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4258 Jan   09   03:34   0° ≈   max. Earth dist.   4258 Dec   05   16:54   17° ₹ 34'35   1.44086 AU   greatest brilliancy   4258 Jan   18   05:07   13° ≈ 45'19   -0.7m   4258 Dec   13   14:20   0° ♂ evening max el   4258 Jan   30   02:48   29° ≈ 32'03   19° 49'05   evening rise   4258 Dec   14   22:00   2° ♂ 02'18   4258 Jan   30   13:55   0° ★   4259 Jan   02   17:47   0° ≈					•			
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4258 Jan 30 13:55 0° <b>光</b> 4259 Jan 02 17:47 0° <b>≈</b>					evening rise			
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asc. node 4258 Feb 04 05:57 5° ₹2041 evening max el 4259 Jan 13 03:24 13° ≈ 05'18 20° 53'20		1250 Jan 20 12.55						
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retrograde	4259 Jan 21 12:28	18° <b>≈</b> 02'32		retrograde	4260 Jan 05 09:16	2°≈16'47	
asc. node	4259 Jan 22 00:58	18° <b>≈</b> 01′03		asc. node	4260 Jan 08 22:01	1° <b>≈</b> 10′17	
evening set	4259 Jan 25 13:17	16° <b>≈</b> 29'49		evening set	4260 Jan 09 20:59	0° <b>≈</b> 28'27	
inferior conj	4259 Jan 30 21:44	10° <b>≈</b> 18′17	2°38'30		4260 Jan 10 10:08	30°Ŗる	
minimum elong	4259 Jan 30 19:16	10° <b>≈</b> 26'47	2°37'50	inferior conj	4260 Jan 15 05:20	24° <b>る</b> 08'15	2°00'09
min. Earth dist.	4259 Jan 31 08:54	9° <b>≈</b> 39'53	0.67672 AU	minimum elong	4260 Jan 15 03:03	24° <b>ප</b> 16'10	1°59'22
morning rise	4259 Feb 05 01:05	4° <b>≈</b> 05'09		min. Earth dist.	4260 Jan 15 04:42	24° <b>る</b> 10'24	0.68001 AU
direct	4259 Feb 10 10:46	1° <b>≈</b> 42'07		morning rise	4260 Jan 20 08:59	17° <b>る</b> 57'26	
morning max el	4259 Feb 21 07:08	8° <b>≈</b> 10'09	23°54'58	direct	4260 Jan 25 03:50	15° <b>る</b> 56'17	
desc. node	4259 Feb 27 21:59	15° <b>≈</b> 44'03	23 3 1 3 0	morning max el	4260 Feb 03 17:53	21° <b>る</b> 35'22	22026112
desc. Hode	4259 Mar 10 09:26	0° <b>₩</b>		morning max ci	4260 Feb 10 23:14	0°≈	22 20 12
		0 <del>X</del> 29° <b>¥</b> 13'14		JJ.			
morning set	4259 Mar 28 20:46			desc. node	4260 Feb 14 19:02	5°≈04'37	
	4259 Mar 29 07:39	0° <b>Υ</b>			4260 Mar 02 16:36	0° <b>∀</b>	
max. Earth dist.	4259 Apr 01 16:07	5° <b>Ƴ</b> 52'12	1.38418 AU	morning set	4260 Mar 08 10:44	9° <b>∺</b> 12'10	
				max. Earth dist.	4260 Mar 13 12:31	17° <b>∺</b> 38′06	1.40598 AU
superior conj	4259 Apr 08 22:34	19° <b>Ƴ</b> 13'44	-1°36'17		4260 Mar 20 14:57	$0^{\circ}$ Y	
minimum elong	4259 Apr 09 03:19	19° <b>Ƴ</b> 36'15	1°35'42				
	4259 Apr 14 12:26	0°B		superior conj	4260 Mar 21 07:32	1° <b>Y</b> 14'26	-1°57'12
evening rise	4259 Apr 17 22:50	6° <b>8</b> 44'13		minimum elong	4260 Mar 21 11:47	1° <b>Y</b> '33'32	1°56'54
asc. node	4259 Apr 20 00:18	10° <b>8</b> 45'09		evening rise	4260 Mar 31 10:38	20° <b>Y</b> ′00′17	
uoo. nouo	4259 May 01 10:45	0°Ⅱ		asc. node	4260 Apr 05 21:20	0° <b>8</b> 06'03	
evening max el	4259 May 04 08:51	3° <b>Ⅱ</b> 17'46	18°53'57	asc. node	4260 Apr 05 20:00	0.8	
~	-		16 33 37		•		10020120
retrograde	4259 May 12 18:54	7° <b>Ⅱ</b> 24'53		evening max el	4260 Apr 16 14:49	15° <b>8</b> 52'55	18°20'39
evening set	4259 May 14 21:34	7° <b>Ⅱ</b> 10'21		retrograde	4260 Apr 23 21:36	19° <b>8</b> 30'09	
inferior conj	4259 May 22 23:01	2° <b>Ⅱ</b> 52'50	1°07'15	evening set	4260 Apr 26 06:57	19° <b>8</b> 07'45	
minimum elong	4259 May 23 01:30	2° <b>∏</b> 48′22	1°06'24	inferior conj	4260 May 03 13:06	14° <b>8</b> 30'26	2°25'07
min. Earth dist.	4259 May 26 02:47	0°Ⅲ38′21	0.56898 AU	minimum elong	4260 May 03 16:44	14° <b>8</b> 22'49	2°24'10
desc. node	4259 May 26 21:13	0° <b>Ⅱ</b> 07'29		min. Earth dist.	4260 May 06 23:41	11° <b>8</b> 39'01	0.58893 AU
	4259 May 27 01:47	30° <b>₹</b> 8		morning rise	4260 May 10 23:34	8° <b>8</b> 55'53	
morning rise	4259 May 31 02:12	27° <b>8</b> 49'03		desc. node	4260 May 12 18:14	8° <b>8</b> 05'43	
direct	4259 Jun 05 09:53	26° <b>8</b> 41'10		direct	4260 May 17 04:06	7° <b>8</b> 13'23	
ancer	4259 Jun 14 17:58	0°II		morning max el	4260 May 31 13:34	15° <b>8</b> 00'03	27°12'09
marning may al	4259 Jun 19 17:42	4° <b>Ⅱ</b> 07'20	26°01'32	morning max ci	4260 Jun 12 16:07	0°Ⅱ	27 12 07
morning max el			20 01 32				
	4259 Jul 08 09:12	0.20			4260 Jun 29 15:57	0°©	
asc. node	4259 Jul 16 23:35	16° <b>©</b> 41'39		morning set	4260 Jul 01 04:53	3° <b>©</b> 11'27	
morning set	4259 Jul 17 19:53	18° <b>©</b> 28'23		asc. node	4260 Jul 02 20:39	6°≌41'51	
	4259 Jul 23 03:31	$0 {\circ} \Omega$					
				superior conj	4260 Jul 08 06:39	18° <b>©</b> 31'00	0°54'08
superior conj	4259 Jul 24 18:47	3° <b>Ω</b> 36′11	1°13'41	minimum elong	4260 Jul 08 04:35	18° <b>©</b> 19'35	0°53'45
minimum elong	4259 Jul 24 16:27	3° <b>Ω</b> 23′21	1°13'19	max. Earth dist.	4260 Jul 07 23:16	17° <b>9</b> 50'19	1.31996 AU
max. Earth dist.	4259 Jul 25 11:46	5° <b>Ω</b> 09'37	1 22255 1 11				
evening rise		3 660931	1.32255 AU			$0^{\circ}\Omega$	
			1.32255 AU	evening rise	4260 Jul 13 12:24		
· ·	4259 Jul 31 18:16	18° <b>Ω</b> 39'44	1.32255 AU	evening rise	4260 Jul 13 12:24 4260 Jul 15 02:32	3° <b>Ω</b> 23'43	
desc node	4259 Jul 31 18:16 4259 Aug 06 10:21	18° <b>Ω</b> 39'44 0° <b>m</b>	1.32255 AU	C	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18	3° <b>Ω</b> 23'43 0° <b>m</b>	
desc. node	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33	18° <b>Ω</b> 39'44 0° <b>m</b> 26° <b>m</b> 42'04	1.32255 AU	desc. node	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33	3° <b>Ω</b> 23'43 0° <b>m</b> 14° <b>m</b> 29'11	26°20'00
	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00	18° <b>\Omega</b> 39'44 0° Mp 26° Mp42'04 0° <u>∩</u>		desc. node evening max el	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44	3° <b>Q</b> 23'43 0° <b>m</b> 14° <b>m</b> 29'11 19° <b>m</b> 10'24	26°20'09
evening max el	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30	18°€39'44 0°™ 26°™42'04 0°₽ 7°₽23'23		desc. node evening max el retrograde	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Aug 27 03:01	3° N 23'43 0° m 14° m 29'11 19° m 10'24 26° m 19'57	26°20'09
evening max el retrograde	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58	18° € 39'44 0° M 26° M 42'04 0° Ω 7° Ω 23'23 14° Ω 36'22		desc. node evening max el retrograde evening set	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Aug 27 03:01 4260 Sep 02 16:49	3° N 23'43 0° m 14° m 29'11 19° m 10'24 26° m 19'57 24° m 33'17	
evening max el retrograde evening set	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40	18° <b>ቢ</b> 39'44 0° <b>ሙ</b> 26° <b>ሙ</b> 42'04 0° <b>ឆ</b> 7° <b>ឆ</b> 23'23 14° <b>ឆ</b> 36'22 12° <b>ឆ</b> 19'08	27°10′04	desc. node evening max el retrograde evening set min. Earth dist.	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Aug 27 03:01 4260 Sep 02 16:49 4260 Sep 06 16:57	3° £ 23'43 0° m 14° m 29'11 19° m 10'24 26° m 19'57 24° m 33'17 21° m 58'17	0.59378 AU
evening max el retrograde evening set min. Earth dist.	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40 4259 Sep 25 17:53	18° በ39'44 0° ነው 26° ነው 42'04 0° <u>ឆ</u> 7° <u>ឆ</u> 23'23 14° <u>ឆ</u> 36'22 12° <u>ឆ</u> 19'08 9° <u>ឆ</u> 35'09	27°10′04 0.61444 AU	desc. node evening max el retrograde evening set min. Earth dist. inferior conj	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Aug 27 03:01 4260 Sep 02 16:49 4260 Sep 06 16:57 4260 Sep 09 23:24	3° N 23'43 0° m 14° m 29'11 19° m 10'24 26° m 19'57 24° m 33'17	0.59378 AU
evening max el retrograde evening set	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40	18° <b>ቢ</b> 39'44 0° <b>ሙ</b> 26° <b>ሙ</b> 42'04 0° <b>ឆ</b> 7° <b>ឆ</b> 23'23 14° <b>ឆ</b> 36'22 12° <b>ឆ</b> 19'08	27°10′04 0.61444 AU	desc. node evening max el retrograde evening set min. Earth dist.	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Aug 27 03:01 4260 Sep 02 16:49 4260 Sep 06 16:57	3° £ 23'43 0° m 14° m 29'11 19° m 10'24 26° m 19'57 24° m 33'17 21° m 58'17	0.59378 AU -4°52'27
evening max el retrograde evening set min. Earth dist.	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40 4259 Sep 25 17:53	18° በ39'44 0° ነው 26° ነው 42'04 0° <u>ឆ</u> 7° <u>ឆ</u> 23'23 14° <u>ឆ</u> 36'22 12° <u>ឆ</u> 19'08 9° <u>ឆ</u> 35'09	27°10'04 0.61444 AU -4°07'49	desc. node evening max el retrograde evening set min. Earth dist. inferior conj	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Aug 27 03:01 4260 Sep 02 16:49 4260 Sep 06 16:57 4260 Sep 09 23:24	3° \( \Omega 23'43\) 0° my 14° my 29'11 19° my 10'24 26° my 19'57 24° my 33'17 21° my 58'17 19° my 27'34	0.59378 AU -4°52'27
evening max el retrograde evening set min. Earth dist. inferior conj	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40 4259 Sep 25 17:53 4259 Sep 28 20:11	18° <b>Ω</b> 39'44 0° <b>m</b> 26° <b>m</b> 42'04 0° <b>Ω</b> 7° <b>Ω</b> 23'23 14° <b>Ω</b> 36'22 12° <b>Ω</b> 19'08 9° <b>Ω</b> 35'09 6° <b>Ω</b> 51'30	27°10'04 0.61444 AU -4°07'49	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Aug 27 03:01 4260 Sep 02 16:49 4260 Sep 06 16:57 4260 Sep 09 23:24 4260 Sep 10 04:08	3° \( \O23'43\) 0° \( \mathref{m}\) 14° \( \mathref{m}\) 29'11 19° \( \mathref{m}\) 10'24 26° \( \mathref{m}\) 19'57 24° \( \mathref{m}\) 33'17 21° \( \mathref{m}\) 58'17 19° \( \mathref{m}\) 27'34 19° \( \mathref{m}\) 18'25	0.59378 AU -4°52'27
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40 4259 Sep 25 17:53 4259 Sep 28 20:11 4259 Sep 29 02:13	18° € 33'44 0° ₱ 26° ₱ 42'04 0° ₤ 7° ₤23'23 14° ₤36'22 12° ₤19'08 9° ₤35'09 6° ₤51'30 6° ₤38'10	27°10'04 0.61444 AU -4°07'49	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Aug 27 03:01 4260 Sep 02 16:49 4260 Sep 06 16:57 4260 Sep 09 23:24 4260 Sep 10 04:08 4260 Sep 17 17:38 4260 Sep 20 02:57	3° <b>A</b> 23'43 0° <b>m</b> 14° <b>m</b> 29'11 19° <b>m</b> 10'24 26° <b>m</b> 19'57 24° <b>m</b> 33'17 21° <b>m</b> 58'17 19° <b>m</b> 27'34 19° <b>m</b> 18'25 14° <b>m</b> 54'55 14° <b>m</b> 35'00	0.59378 AU -4°52'27
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40 4259 Sep 25 17:53 4259 Sep 28 20:11 4259 Sep 29 02:13 4259 Oct 06 03:37 4259 Oct 08 11:59	18° \$\alpha 39'44 0° \$\mathbf{m}\$ 26° \$\mathbf{m} 42'04 0° \$\Delta\$ 7° \$\Delta 23'23 14° \$\Delta 36'22 12° \$\Delta 19'08 9° \$\Delta 35'09 6° \$\Delta 51'30 6° \$\Delta 56'24 1° \$\Delta 33'30	27°10'04 0.61444 AU -4°07'49	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Sep 02 16:49 4260 Sep 06 16:57 4260 Sep 09 23:24 4260 Sep 10 04:08 4260 Sep 17 17:38 4260 Sep 20 02:57 4260 Sep 27 22:48	3° £ 23'43 0° m 14° m 29'11 19° m 10'24 26° m 19'57 24° m 33'17 21° m 58'17 19° m 18'25 14° m 54'55 14° m 35'00 18° m 22'32	0.59378 AU -4°52'27 4°51'46
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40 4259 Sep 25 17:53 4259 Sep 28 20:11 4259 Sep 29 02:13 4259 Oct 06 03:37 4259 Oct 08 11:59 4259 Oct 12 22:46	18° \( \Omega 39'44\) 0° \( \omega \) 26° \( \omega 42'04\) 0° \( \omega \) 7° \( \omega 23'23\) 14° \( \omega 36'22\) 12° \( \omega 19'08\) 9° \( \omega 35'09\) 6° \( \omega 51'30\) 6° \( \omega 38'10\) 1° \( \omega 56'24\) 1° \( \omega 33'30\) 2° \( \omega 59'03\)	27°10'04 0.61444 AU -4°07'49 4°06'17	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Aug 27 03:01 4260 Sep 02 16:49 4260 Sep 06 16:57 4260 Sep 09 23:24 4260 Sep 10 04:08 4260 Sep 17 17:38 4260 Sep 20 02:57 4260 Sep 27 22:48 4260 Sep 28 19:51	3° £ 23'43 0° m 14° m 29'11 19° m 10'24 26° m 19'57 24° m 33'17 21° m 58'17 19° m 27'34 19° m 18'25 14° m 54'55 14° m 35'00 18° m 22'32 19° m 15'44	0.59378 AU -4°52'27 4°51'46
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40 4259 Sep 25 17:53 4259 Sep 28 20:11 4259 Sep 29 02:13 4259 Oct 06 03:37 4259 Oct 08 11:59 4259 Oct 12 22:46 4259 Oct 15 12:59	18° \alpha 33'44 0° \bar{m} 26° \bar{m} 42'04 0° \bar{\Omega} 7° \bar{\Omega} 23'23 14° \bar{\Omega} 36'22 12° \bar{\Omega} 19'08 9° \bar{\Omega} 35'09 6° \bar{\Omega} 51'30 6° \bar{\Omega} 38'10 1° \bar{\Omega} 56'24 1° \bar{\Omega} 33'30 2° \bar{\Omega} 59'03 5° \bar{\Omega} 05'16	27°10'04 0.61444 AU -4°07'49	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Aug 27 03:01 4260 Sep 02 16:49 4260 Sep 06 16:57 4260 Sep 09 23:24 4260 Sep 10 04:08 4260 Sep 10 04:08 4260 Sep 20 02:57 4260 Sep 27 22:48 4260 Sep 28 19:51 4260 Oct 06 09:44	3° £ 23'43 0° m 14° m 29'11 19° m 10'24 26° m 19'57 24° m 33'17 21° m 58'17 19° m 27'34 19° m 18'25 14° m 54'55 14° m 35'00 18° m 22'32 19° m 15'44 0° £	0.59378 AU -4°52'27 4°51'46
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40 4259 Sep 25 17:53 4259 Sep 28 20:11 4259 Sep 29 02:13 4259 Oct 06 03:37 4259 Oct 08 11:59 4259 Oct 12 22:46 4259 Oct 15 12:59 4259 Oct 31 08:03	18° \( \Omega 39'44\) 0° \( \omega \) 26° \( \omega 42'04\) 0° \( \omega \) 7° \( \omega 23'23\) 14° \( \omega 36'22\) 12° \( \omega 19'08\) 9° \( \omega 35'09\) 6° \( \omega 51'30\) 6° \( \omega 38'10\) 1° \( \omega 56'24\) 1° \( \omega 33'30\) 2° \( \omega 59'03\) 5° \( \omega 05'16\) 29° \( \omega 55'59\)	27°10'04 0.61444 AU -4°07'49 4°06'17	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Aug 27 03:01 4260 Sep 02 16:49 4260 Sep 06 16:57 4260 Sep 09 23:24 4260 Sep 10 04:08 4260 Sep 17 17:38 4260 Sep 20 02:57 4260 Sep 27 22:48 4260 Sep 28 19:51 4260 Oct 06 09:44 4260 Oct 13 21:55	3° £ 23'43 0° m 14° m 29'11 19° m 10'24 26° m 19'57 24° m 33'17 21° m 58'17 19° m 27'34 19° m 18'25 14° m 54'55 14° m 53'00 18° m 22'32 19° m 15'44 0° £ 13° £ 48'25	0.59378 AU -4°52'27 4°51'46
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40 4259 Sep 25 17:53 4259 Sep 28 20:11 4259 Sep 29 02:13 4259 Oct 06 03:37 4259 Oct 08 11:59 4259 Oct 12 22:46 4259 Oct 15 12:59	18° \alpha 33'44 0° \bar{m} 26° \bar{m} 42'04 0° \bar{\Omega} 7° \bar{\Omega} 23'23 14° \bar{\Omega} 36'22 12° \bar{\Omega} 19'08 9° \bar{\Omega} 35'09 6° \bar{\Omega} 51'30 6° \bar{\Omega} 38'10 1° \bar{\Omega} 56'24 1° \bar{\Omega} 33'30 2° \bar{\Omega} 59'03 5° \bar{\Omega} 05'16	27°10'04 0.61444 AU -4°07'49 4°06'17	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Aug 27 03:01 4260 Sep 02 16:49 4260 Sep 06 16:57 4260 Sep 09 23:24 4260 Sep 10 04:08 4260 Sep 10 04:08 4260 Sep 20 02:57 4260 Sep 27 22:48 4260 Sep 28 19:51 4260 Oct 06 09:44	3° £ 23'43 0° m 14° m 29'11 19° m 10'24 26° m 19'57 24° m 33'17 21° m 58'17 19° m 27'34 19° m 18'25 14° m 54'55 14° m 35'00 18° m 22'32 19° m 15'44 0° £	0.59378 AU -4°52'27 4°51'46
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40 4259 Sep 25 17:53 4259 Sep 28 20:11 4259 Sep 29 02:13 4259 Oct 06 03:37 4259 Oct 08 11:59 4259 Oct 12 22:46 4259 Oct 15 12:59 4259 Oct 31 08:03 4259 Oct 31 08:55	18° \alpha 39'44 0° \bar{m} 26° \bar{m} 42'04 0° \bar{n} 7° \bar{n} 23'23 14° \bar{n} 36'22 12° \bar{n} 19'08 9° \bar{n} 35'09 6° \bar{n} 51'30 6° \bar{n} 38'10 1° \bar{n} 56'24 1° \bar{n} 33'30 2° \bar{n} 59'03 5° \bar{n} 05'16 29° \bar{n} 55'59 0° \bar{m}	27°10'04 0.61444 AU -4°07'49 4°06'17 17°56'23	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Aug 27 03:01 4260 Sep 02 16:49 4260 Sep 06 16:57 4260 Sep 10 04:08 4260 Sep 17 17:38 4260 Sep 20 02:57 4260 Sep 20 02:57 4260 Sep 27 22:48 4260 Sep 28 19:51 4260 Oct 06 09:44 4260 Oct 13 21:55 4260 Oct 22 11:17	3° \$\alpha 23'43 0° \$\mathrm{m}\$ 10'24 26° \$\mathrm{m}\$ 19'57 24° \$\mathrm{m}\$ 29'11 19° \$\mathrm{m}\$ 10'24 26° \$\mathrm{m}\$ 19'57 24° \$\mathrm{m}\$ 33'17 21° \$\mathrm{m}\$ 58'17 19° \$\mathrm{m}\$ 27'34 19° \$\mathrm{m}\$ 18'25 14° \$\mathrm{m}\$ 35'00 18° \$\mathrm{m}\$ 22'32 19° \$\mathrm{m}\$ 15'44 0° \$\mathrm{n}\$ 13° \$\mathrm{n}\$ 48'25 0° \$\mathrm{m}\$.	0.59378 AU -4°52'27 4°51'46 18°22'00
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40 4259 Sep 25 17:53 4259 Sep 28 20:11 4259 Sep 29 02:13 4259 Oct 06 03:37 4259 Oct 08 11:59 4259 Oct 12 22:46 4259 Oct 15 12:59 4259 Oct 31 08:03 4259 Oct 31 08:55	18° \alpha 39'44 0° \bar{m} 26° \bar{m} 42'04 0° \bar{n} 7° \bar{n} 23'23 14° \bar{n} 36'22 12° \bar{n} 19'08 9° \bar{n} 35'09 6° \bar{n} 51'30 6° \bar{n} 38'10 1° \bar{n} 56'24 1° \bar{n} 33'30 2° \bar{n} 59'03 5° \bar{n} 05'16 29° \bar{n} 55'559 0° \bar{m} 18° \bar{m} 37'39	27°10'04 0.61444 AU -4°07'49 4°06'17 17°56'23 0°54'52	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Aug 27 03:01 4260 Sep 02 16:49 4260 Sep 06 16:57 4260 Sep 10 04:08 4260 Sep 10 04:08 4260 Sep 20 02:57 4260 Sep 20 02:57 4260 Sep 27 22:48 4260 Sep 28 19:51 4260 Oct 06 09:44 4260 Oct 13 21:55 4260 Oct 23 01:14	3° \$\alpha 23'43 0° \$\text{m}\$ 29'11 19° \$\text{m}\$ 10'24 26° \$\text{m}\$ 19'57 24° \$\text{m}\$ 33'17 21° \$\text{m}\$ 58'17 19° \$\text{m}\$ 27'34 19° \$\text{m}\$ 18'25 14° \$\text{m}\$ 35'00 18° \$\text{m}\$ 22'32 19° \$\text{m}\$ 15'44 0° \$\text{\text{\text{n}}\$}\$ 13° \$\text{\text{\text{\text{m}}\$}\$ 48'25 0° \$\text{m}\$.  1° \$\text{m}\$ 04'15	0.59378 AU -4°52'27 4°51'46 18°22'00
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40 4259 Sep 25 17:53 4259 Sep 28 20:11 4259 Sep 29 02:13 4259 Oct 06 03:37 4259 Oct 08 11:59 4259 Oct 12 22:46 4259 Oct 15 12:59 4259 Oct 31 08:03 4259 Oct 31 08:55  4259 Nov 10 17:45 4259 Nov 10 21:46	18° \alpha 39'44 0° \bar{m} 26° \bar{m} 42'04 0° \bar{n} 7° \bar{n} 23'23 14° \bar{n} 36'22 12° \bar{n} 19'08 9° \bar{n} 35'09 6° \bar{n} 51'30 6° \bar{n} 38'10 1° \bar{n} 56'24 1° \bar{n} 33'30 2° \bar{n} 59'03 5° \bar{n} 05'16 29° \bar{n} 55'59 0° \bar{m} 18° \bar{m} 37'39 18° \bar{m} 55'07	27°10'04 0.61444 AU -4°07'49 4°06'17 17°56'23	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Sep 02 16:49 4260 Sep 06 16:57 4260 Sep 09 23:24 4260 Sep 10 04:08 4260 Sep 17 17:38 4260 Sep 20 02:57 4260 Sep 20 02:57 4260 Sep 28 19:51 4260 Oct 06 09:44 4260 Oct 13 21:55 4260 Oct 23 01:14 4260 Oct 23 01:14	3° \$\alpha 23'43 0° \$\mathrm{m} 29'11 19° \$\mathrm{m} 10'24 26° \$\mathrm{m} 19'57 24° \$\mathrm{m} 33'17 21° \$\mathrm{m} 58'17 19° \$\mathrm{m} 27'34 19° \$\mathrm{m} 18'25 14° \$\mathrm{m} 35'00 18° \$\mathrm{m} 22'32 19° \$\mathrm{m} 15'44 0° \$\mathrm{n} 24'25 0° \$\mathrm{m} .  1° \$\mathrm{m} 04'15 1° \$\mathrm{m} 21'15	0.59378 AU -4°52'27 4°51'46 18°22'00
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40 4259 Sep 25 17:53 4259 Sep 28 20:11 4259 Sep 29 02:13 4259 Oct 06 03:37 4259 Oct 08 11:59 4259 Oct 12 22:46 4259 Oct 15 12:59 4259 Oct 31 08:03 4259 Oct 31 08:55	18° \alpha 39'44 0° \bar{m} 26° \bar{m} 42'04 0° \bar{n} 7° \bar{n} 23'23 14° \bar{n} 36'22 12° \bar{n} 19'08 9° \bar{n} 35'09 6° \bar{n} 51'30 6° \bar{n} 38'10 1° \bar{n} 56'24 1° \bar{n} 33'30 2° \bar{n} 59'03 5° \bar{n} 05'16 29° \bar{n} 55'559 0° \bar{m} 18° \bar{m} 37'39	27°10'04 0.61444 AU -4°07'49 4°06'17 17°56'23 0°54'52	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Aug 27 03:01 4260 Sep 02 16:49 4260 Sep 06 16:57 4260 Sep 10 04:08 4260 Sep 10 04:08 4260 Sep 20 02:57 4260 Sep 20 02:57 4260 Sep 27 22:48 4260 Sep 28 19:51 4260 Oct 06 09:44 4260 Oct 13 21:55 4260 Oct 23 01:14	3° £ 23'43 0° m 14° m 29'11 19° m 10'24 26° m 19'57 24° m 33'17 21° m 58'17 19° m 18'25 14° m 54'55 14° m 35'00 18° m 22'32 19° m 15'44 0° £ 13° £ 48'25 0° m 1° m 04'15 1° m 21'15 14° m 26'29	0.59378 AU -4°52'27 4°51'46 18°22'00
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40 4259 Sep 25 17:53 4259 Sep 28 20:11 4259 Sep 29 02:13 4259 Oct 06 03:37 4259 Oct 08 11:59 4259 Oct 12 22:46 4259 Oct 15 12:59 4259 Oct 31 08:03 4259 Oct 31 08:55  4259 Nov 10 17:45 4259 Nov 10 21:46	18° \alpha 39'44 0° \bar{m} 26° \bar{m} 42'04 0° \bar{n} 7° \bar{n} 23'23 14° \bar{n} 36'22 12° \bar{n} 19'08 9° \bar{n} 35'09 6° \bar{n} 51'30 6° \bar{n} 38'10 1° \bar{n} 56'24 1° \bar{n} 33'30 2° \bar{n} 59'03 5° \bar{n} 05'16 29° \bar{n} 55'59 0° \bar{m} 18° \bar{m} 37'39 18° \bar{m} 55'07	27°10'04 0.61444 AU -4°07'49 4°06'17 17°56'23 0°54'52	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Sep 02 16:49 4260 Sep 06 16:57 4260 Sep 09 23:24 4260 Sep 10 04:08 4260 Sep 17 17:38 4260 Sep 20 02:57 4260 Sep 20 02:57 4260 Sep 28 19:51 4260 Oct 06 09:44 4260 Oct 13 21:55 4260 Oct 23 01:14 4260 Oct 23 01:14	3° \$\alpha 23'43 0° \$\mathrm{m} 29'11 19° \$\mathrm{m} 10'24 26° \$\mathrm{m} 19'57 24° \$\mathrm{m} 33'17 21° \$\mathrm{m} 58'17 19° \$\mathrm{m} 27'34 19° \$\mathrm{m} 18'25 14° \$\mathrm{m} 35'00 18° \$\mathrm{m} 22'32 19° \$\mathrm{m} 15'44 0° \$\mathrm{n} 24'25 0° \$\mathrm{m} .  1° \$\mathrm{m} 04'15 1° \$\mathrm{m} 21'15	0.59378 AU -4°52'27 4°51'46 18°22'00
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40 4259 Sep 25 17:53 4259 Sep 28 20:11 4259 Sep 29 02:13 4259 Oct 06 03:37 4259 Oct 08 11:59 4259 Oct 12 22:46 4259 Oct 15 12:59 4259 Oct 31 08:03 4259 Oct 31 08:03 4259 Nov 10 17:45 4259 Nov 10 17:45 4259 Nov 10 21:46 4259 Nov 17 10:25	18° \$\alpha 39'44 0° \$\mathbf{m}\$ 26° \$\mathbf{m} 42'04 0° \$\oldsymbol{\Omega}\$ 7° \$\oldsymbol{\Omega} 23'23 14° \$\oldsymbol{\Omega} 36'22 12° \$\oldsymbol{\Omega} 19'08 9° \$\oldsymbol{\Omega} 35'09 6° \$\oldsymbol{\Omega} 51'30 1° \$\oldsymbol{\Omega} 56'24 1° \$\oldsymbol{\Omega} 33'30 2° \$\oldsymbol{\Omega} 59'03 5° \$\oldsymbol{\Omega} 05'16 29° \$\oldsymbol{\Omega} 55'59 0° \$\mathbf{m}\$ 18° \$\mathbf{m} 37'39 18° \$\mathbf{m} 55'07 0° \$\nalpha\$	27°10'04 0.61444 AU -4°07'49 4°06'17 17°56'23 0°54'52 0°54'52	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Sep 02 16:49 4260 Sep 06 16:57 4260 Sep 09 23:24 4260 Sep 10 04:08 4260 Sep 17 17:38 4260 Sep 20 02:57 4260 Sep 27 22:48 4260 Sep 28 19:51 4260 Oct 06 09:44 4260 Oct 13 21:55 4260 Oct 23 01:14 4260 Oct 23 01:14 4260 Oct 23 04:56 4260 Oct 30 13:44	3° £ 23'43 0° m 14° m 29'11 19° m 10'24 26° m 19'57 24° m 33'17 21° m 58'17 19° m 18'25 14° m 54'55 14° m 35'00 18° m 22'32 19° m 15'44 0° £ 13° £ 48'25 0° m 1° m 04'15 1° m 21'15 14° m 26'29	0.59378 AU -4°52'27 4°51'46 18°22'00
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong minimum elong max. Earth dist.	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40 4259 Sep 25 17:53 4259 Sep 28 20:11 4259 Sep 28 20:11 4259 Sep 29 02:13 4259 Oct 06 03:37 4259 Oct 08 11:59 4259 Oct 12 22:46 4259 Oct 15 12:59 4259 Oct 31 08:03 4259 Oct 31 08:03 4259 Oct 31 08:55  4259 Nov 10 17:45 4259 Nov 10 21:46 4259 Nov 17 10:25 4259 Nov 18 06:01	18° \$\alpha 33'44 0° \$\mathbf{m}\$ 26° \$\mathbf{m} 42'04 0° \$\oldsymbol{\Omega}\$ 7° \$\oldsymbol{\Omega} 23'23 14° \$\oldsymbol{\Omega} 36'22 12° \$\oldsymbol{\Omega} 19'08 9° \$\oldsymbol{\Omega} 35'09 6° \$\oldsymbol{\Omega} 51'30 6° \$\oldsymbol{\Omega} 38'10 1° \$\oldsymbol{\Omega} 56'24 1° \$\oldsymbol{\Omega} 33'30 2° \$\oldsymbol{\Omega} 59'03 5° \$\oldsymbol{\Omega} 05'16 29° \$\oldsymbol{\Omega} 55'59 0° \$\mathbf{m}\$ 18° \$\mathbf{m} 37'39 18° \$\mathbf{m} 55'07 0° \$\nalphi\$ 1° \$\nalphi 20'59	27°10'04 0.61444 AU -4°07'49 4°06'17 17°56'23 0°54'52 0°54'52	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Sep 02 16:49 4260 Sep 06 16:57 4260 Sep 09 23:24 4260 Sep 10 04:08 4260 Sep 17 17:38 4260 Sep 20 02:57 4260 Sep 20 02:57 4260 Sep 28 19:51 4260 Oct 06 09:44 4260 Oct 13 21:55 4260 Oct 23 01:14 4260 Oct 23 04:56 4260 Oct 30 13:44 4260 Nov 04 02:22	3° \$\alpha 23'43 0° \$\mathrm{m}\$ 10'24 26° \$\mathrm{m}\$ 10'24 26° \$\mathrm{m}\$ 19'57 24° \$\mathrm{m}\$ 33'17 21° \$\mathrm{m}\$ 58'17 19° \$\mathrm{m}\$ 27'34 19° \$\mathrm{m}\$ 18'25 14° \$\mathrm{m}\$ 54'55 14° \$\mathrm{m}\$ 54'55 14° \$\mathrm{m}\$ 22'32 19° \$\mathrm{m}\$ 15'44 0° \$\mathrm{n}\$ 13° \$\mathrm{n}\$ 48'25 0° \$\mathrm{m}\$ 1° \$\mathrm{m}\$ 21'15 14° \$\mathrm{m}\$ 26'29 22° \$\mathrm{m}\$ 03'32	0.59378 AU -4°52'27 4°51'46 18°22'00
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40 4259 Sep 25 17:53 4259 Sep 28 20:11 4259 Sep 29 02:13 4259 Oct 06 03:37 4259 Oct 08 11:59 4259 Oct 12 22:46 4259 Oct 15 12:59 4259 Oct 31 08:03 4259 Oct 31 08:03 4259 Oct 31 08:55  4259 Nov 10 17:45 4259 Nov 10 21:46 4259 Nov 17 10:25 4259 Nov 18 06:01 4259 Nov 18 19:50	18° \alpha 33'44 0° \bar{m} 26° \bar{m} 42'04 0° \bar{m} 26° \bar{m} 42'04 0° \bar{m} 7° \bar{m} 23'23 14° \bar{m} 36'22 12° \bar{m} 19'08 9° \bar{m} 35'09 6° \bar{m} 55'130 6° \bar{m} 33'30 2° \bar{m} 56'24 1° \bar{m} 33'30 2° \bar{m} 55'07 0° \bar{m} 18° \bar{m} 37'39 18° \bar{m} 55'07 0° \bar{m} 1° \bar{m} 20'59 2° \bar{m} 17'50	27°10'04 0.61444 AU -4°07'49 4°06'17 17°56'23 0°54'52 0°54'52	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Sep 02 16:49 4260 Sep 06 16:57 4260 Sep 09 23:24 4260 Sep 10 04:08 4260 Sep 17 17:38 4260 Sep 20 02:57 4260 Sep 20 02:57 4260 Sep 27 22:48 4260 Sep 28 19:51 4260 Oct 06 09:44 4260 Oct 13 21:55 4260 Oct 23 01:14 4260 Oct 23 04:56 4260 Oct 30 13:44 4260 Nov 04 02:22 4260 Nov 04 16:53	3° £23'43 0° m 14° m 29'11 19° m 10'24 26° m 19'57 24° m 33'17 21° m 58'17 19° m 27'34 19° m 18'25 14° m 54'55 14° m 35'00 18° m 22'32 19° m 15'44 0° Ω 13° Ω 48'25 0° m  1° m 04'15 1° m 21'15 14° m 26'29 22° m 03'32 23° m 03'10	0.59378 AU -4°52'27 4°51'46 18°22'00
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40 4259 Sep 25 17:53 4259 Sep 28 20:11 4259 Sep 29 02:13 4259 Oct 06 03:37 4259 Oct 06 03:37 4259 Oct 10 12:59 4259 Oct 12 22:46 4259 Oct 15 12:59 4259 Oct 31 08:03 4259 Oct 31 08:03 4259 Oct 31 08:03 4259 Nov 10 17:45 4259 Nov 10 17:45 4259 Nov 10 21:46 4259 Nov 17 10:25 4259 Nov 18 06:01 4259 Nov 18 19:50 4259 Nov 24 14:29 4259 Dec 06 16:20	18° \alpha 33'44 0° \mathbf{m} 26° \mathbf{m} 42'04 0° \mathbf{n} 7° \mathbf{n} 23'23 14° \mathbf{n} 36'22 12° \mathbf{n} 19'08 9° \mathbf{n} 35'09 6° \mathbf{n} 55'130 6° \mathbf{n} 38'10 1° \mathbf{n} 56'24 1° \mathbf{m} 33'30 2° \mathbf{n} 59'03 5° \mathbf{n} 05'16 29° \mathbf{n} 55'59 0° \mathbf{m} 18° \mathbf{m} 37'39 18° \mathbf{m} 55'07 0° \mathbf{n} 1° \mathbf{n} 20'59 2° \mathbf{n} 17'50 11° \mathbf{n} 35'38 0° \mathbf{G}	27°10'04 0.61444 AU -4°07'49 4°06'17 17°56'23 0°54'52 0°54'52	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set  superior conj minimum elong max. Earth dist. evening rise desc. node	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Aug 27 03:01 4260 Sep 02 16:49 4260 Sep 06 16:57 4260 Sep 09 23:24 4260 Sep 10 04:08 4260 Sep 17 17:38 4260 Sep 20 02:57 4260 Sep 20 02:57 4260 Sep 27 22:48 4260 Sep 28 19:51 4260 Oct 06 09:44 4260 Oct 13 21:55 4260 Oct 23 01:14 4260 Oct 23 04:56 4260 Oct 30 13:44 4260 Nov 04 02:22 4260 Nov 04 16:53 4260 Nov 09 00:26 4260 Nov 29 18:00	3° £23'43 0° m 14° m 29'11 19° m 10'24 26° m 19'57 24° m 33'17 21° m 58'17 19° m 27'34 19° m 18'25 14° m 54'55 14° m 54'55 14° m 35'00 18° m 22'32 19° m 15'44 0° Ω 13° Ω 48'25 0° m  1° m 04'15 1° m 21'15 14° m 26'29 22° m 03'32 23° m 03'10 0° ₹	0.59378 AU -4°52'27 4°51'46 18°22'00 1°21'07 1°20'44 1.40610 AU
evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node	4259 Jul 31 18:16 4259 Aug 06 10:21 4259 Aug 22 20:33 4259 Aug 25 10:00 4259 Sep 01 03:30 4259 Sep 14 23:58 4259 Sep 22 02:40 4259 Sep 25 17:53 4259 Sep 28 20:11 4259 Sep 29 02:13 4259 Oct 06 03:37 4259 Oct 06 03:37 4259 Oct 08 11:59 4259 Oct 12 22:46 4259 Oct 15 12:59 4259 Oct 31 08:03 4259 Oct 31 08:03 4259 Oct 31 08:03 4259 Nov 10 17:45 4259 Nov 10 17:45 4259 Nov 10 21:46 4259 Nov 17 10:25 4259 Nov 18 06:01 4259 Nov 24 14:29	18° \alpha 33'44 0° \bar{m} 26° \bar{m} 42'04 0° \bar{m} 7° \bar{m} 23'23 14° \bar{m} 36'22 12° \bar{m} 19'08 9° \bar{m} 35'09 6° \bar{m} 55'09 6° \bar{m} 55'59 0° \bar{m} 18° \bar{m} 37'39 18° \bar{m} 55'07 0° \bar{m} 1° \bar{m} 20'59 2° \bar{m} 17'50 11° \bar{m} 35'38	27°10'04 0.61444 AU -4°07'49 4°06'17 17°56'23 0°54'52 0°54'20 1.42544 AU	desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	4260 Jul 13 12:24 4260 Jul 15 02:32 4260 Jul 29 07:18 4260 Aug 08 17:33 4260 Aug 13 03:44 4260 Sep 02 16:49 4260 Sep 06 16:57 4260 Sep 09 23:24 4260 Sep 10 04:08 4260 Sep 17 17:38 4260 Sep 20 02:57 4260 Sep 20 02:57 4260 Sep 27 22:48 4260 Sep 28 19:51 4260 Oct 06 09:44 4260 Oct 13 21:55 4260 Oct 23 01:14 4260 Oct 23 04:56 4260 Oct 30 13:44 4260 Nov 04 02:22 4260 Nov 04 16:53 4260 Nov 09 00:26	3° £ 23'43 0° m 14° m 29'11 19° m 10'24 26° m 19'57 24° m 33'17 21° m 58'17 19° m 27'34 19° m 18'25 14° m 35'00 18° m 22'32 19° m 15'44 0° £ 13° £ 48'25 0° m  1° m 04'15 1° m 21'15 14° m 26'29 22° m 03'32 23° m 03'10 0° ₹' 0° ጜ	0.59378 AU -4°52'27 4°51'46 18°22'00 1°21'07 1°20'44 1.40610 AU

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evening set	4260 Dec 24 03:24	14°る27'37			4261 Nov 29 07:37	0°る	
asc. node	4260 Dec 25 19:04	12°る51'01	0.65060.433	retrograde	4261 Dec 02 17:13	0°る43'24	
min. Earth dist.	4260 Dec 29 01:33	8° <b>ろ</b> 42'24	0.67968 AU		4261 Dec 05 20:55	30°Ŗ <b>⋌</b> ¹	
inferior conj	4260 Dec 29 13:07	8° <b>る</b> 02'42	1°14'41	evening set	4261 Dec 08 06:55	28° <b>≯</b> 24′00	
minimum elong	4260 Dec 29 11:29	8° <b>පි</b> 08'18	1°14'03	asc. node	4261 Dec 12 16:06	23° <b>≯</b> 28'46	
morning rise	4261 Jan 03 19:32	1° <b>る</b> 56'02		min. Earth dist.	4261 Dec 12 20:59	23° <b>≯</b> 12'43	0.67582 AU
direct	4261 Jan 08 00:13	0° <b>る</b> 17'38		inferior conj	4261 Dec 13 19:19	21° <b>≯</b> 58'44	0°23'09
morning max el	4261 Jan 16 10:11	5° <b>る</b> 09'54	21°03'41	minimum elong	4261 Dec 13 18:45	22° <b>≯</b> 00'37	0°22'54
desc. node	4261 Jan 31 16:05	24° <b>る</b> 54'45		morning rise	4261 Dec 19 06:42	15° <b>≯</b> 58′26	
	4261 Feb 04 03:19	0° <b>≈</b>		direct	4261 Dec 22 22:31	14° <b>₹</b> 41'25	
morning set	4261 Feb 15 20:48	17° <b>≈</b> 53'42		morning max el	4261 Dec 30 10:12	18° <b>₹</b> 55'40	19°53'06
	4261 Feb 23 10:35	0° <b>∀</b>			4262 Jan 08 07:10	0° <b>ට</b>	
max. Earth dist.	4261 Feb 23 14:57	0° <b>) 17</b> ′50	1.42598 AU	desc. node	4262 Jan 18 13:07	15° <b>පි</b> 06'13	
				morning set	4262 Jan 25 16:51	26° <b>る</b> 02'55	
superior conj	4261 Mar 02 18:28	12° <b>升</b> 12'42	-2°07'38		4262 Jan 28 06:08	0° <b>≈</b>	
minimum elong	4261 Mar 02 19:29	12° <b>升</b> 17′00	2°07'36	max. Earth dist.	4262 Feb 06 01:24	13° <b>≈</b> 50′00	1.44149 AU
	4261 Mar 12 22:02	$0$ ° $\Upsilon$					
evening rise	4261 Mar 14 08:14	2° <b>Y</b> 33'27		superior conj	4262 Feb 11 03:46	22°≈01'56	-2°02'07
asc. node	4261 Mar 23 18:22	19° <b>Ƴ</b> 01'11		minimum elong	4262 Feb 10 22:52	21° <b>≈</b> 42'04	2°01'54
evening max el	4261 Mar 31 01:50	28° <b>Ƴ</b> 53'16	18°07'10	· ·	4262 Feb 16 00:17	0° <b>∀</b>	
C	4261 Apr 01 07:18	0°8		evening rise	4262 Feb 24 11:14	14° <b>₩</b> 15'18	
retrograde	4261 Apr 06 16:58	2° <b>8</b> 16'41		C	4262 Mar 05 18:57	$0^{\circ}\Upsilon$	
evening set	4261 Apr 09 08:49	1° <b>8</b> 44'01		asc. node	4262 Mar 10 15:24	7° <b>Y</b> 22'30	
	4261 Apr 12 07:24	30°RƳ		evening max el	4262 Mar 14 14:40	12° <b>Υ</b> 10'12	18°12'49
inferior conj	4261 Apr 15 22:57	26° <b>Y</b> 46'09	3°11'51	retrograde	4262 Mar 21 00:43	15° <b>Ƴ</b> 34'35	
minimum elong	4261 Apr 16 01:33	26° <b>Y</b> '39'49	3°11'25	evening set	4262 Mar 23 22:34	14°Υ50'20	
min. Earth dist.	4261 Apr 19 03:24	23° <b>Y</b> '42'35	0.61087 AU	inferior conj	4262 Mar 30 00:39	9° <b>Υ</b> 32'44	3°32'56
morning rise	4261 Apr 22 16:19	20° <b>Υ</b> 51'32	0.01007 AC	minimum elong	4262 Mar 30 01:33	9° <b>Υ</b> 30'18	3°32'53
direct	4261 Apr 29 09:57	18° <b>Υ</b> 35'27		min. Earth dist.	4262 Apr 01 15:52	6° <b>Υ</b> 40'49	0.63171 AU
desc. node	•	18° <b>Y</b> 35'36			•	3° <b>Υ</b> 26'49	0.03171 AC
	4261 Apr 29 15:16	26° <b>Υ</b> 32'15	27949112	morning rise	4262 Apr 05 03:27	3 1 20 49 0° <b>Υ</b> 47'03	
morning max el	4261 May 13 15:36		2/34812	direct	4262 Apr 12 00:42	1° <b>Υ</b> 4/03	
	4261 May 16 21:38	0° <b>∀</b>		desc. node	4262 Apr 16 12:17		27047140
	4261 Jun 06 05:38	0°П		morning max el	4262 Apr 25 22:44	8° <b>Y</b> 45'31	27°46'40
morning set	4261 Jun 15 09:46	17° <b>Ⅱ</b> 39'29			4262 May 12 09:09	0°8	
asc. node	4261 Jun 19 17:41	26° <b>∏</b> 47'59		_	4262 May 29 11:06	0°II	
	4261 Jun 21 05:05	0.22		morning set	4262 May 30 08:21	1° <b>Ⅱ</b> 45'58	
max. Earth dist.	4261 Jun 21 09:35	0° <b>©</b> 24'31	1.32155 AU	max. Earth dist.	4262 Jun 04 15:00	12° <b>Ⅱ</b> 40'54	1.32744 AU
		_		asc. node	4262 Jun 06 14:42	16° <b>Ⅱ</b> 56′08	
superior conj	4261 Jun 22 17:28	3° <b>©</b> 18'54				_	
minimum elong	4261 Jun 22 16:07	3° <b>©</b> 11'28	0°30'38	superior conj	4262 Jun 07 01:30	17° <b>∏</b> 54'23	0°04'43
evening rise	4261 Jun 29 13:32	18° <b>©</b> 12'46		minimum elong	4262 Jun 07 01:16	17° <b>Ⅱ</b> 53'08	0°04'40
	4261 Jul 05 08:10	$0 {\circ} \Omega$		behind sun begin	4262 Jun 06 20:12	17° <b>Ⅱ</b> 25'49	
	4261 Jul 25 16:29	0° <b>m</b> p		behind sun end	4262 Jun 07 06:20	18° <b>Ⅱ</b> 20′28	
evening max el	4261 Jul 25 20:42	0° Mp 10′08	25°01'41		4262 Jun 12 15:32	$0$ $\circ$ $\odot$	
desc. node	4261 Jul 26 14:34	0° <b>m</b> √51'57		evening rise	4262 Jun 14 01:24	3° <b>5</b> 00'49	
retrograde	4261 Aug 08 19:27	7° Mp 13′32			4262 Jun 28 17:47	$0 {\circ} \Omega$	
evening set	4261 Aug 14 07:04	6° Mp 05′00		evening max el	4262 Jul 07 09:37	10° <b>£</b> 38′00	23°26'36
min. Earth dist.	4261 Aug 19 08:19	3° Mp 20'34	0.57391 AU	desc. node	4262 Jul 13 11:33	15° <b>Ω</b> 18'31	
inferior conj	4261 Aug 22 07:20	1° Mp 22'05		retrograde	4262 Jul 20 23:10	17° <b>Ω</b> 25'34	
minimum elong	4261 Aug 22 07:42	1°Mp21'28	5°12'23	evening set	4262 Jul 24 23:09	16° <b>Ω</b> 50'34	
	4261 Aug 24 09:30	30°R <b>Ω</b>		min. Earth dist.	4262 Jul 31 19:20	13° <b>Ω</b> 40'48	0.55798 AU
morning rise	4261 Aug 30 10:44	27° <b>Ω</b> 11'35		inferior conj	4262 Aug 02 19:10	12° <b>Ω</b> 30′03	-4°51'42
direct	4261 Sep 02 00:21	26° <b>Ω</b> 52'27		minimum elong	4262 Aug 02 13:23	12° <b>Ω</b> 38'39	4°50'52
	4261 Sep 09 17:49	0° <b>m</b>		morning rise	4262 Aug 11 06:01	8° <b>Ω</b> 36'17	
morning max el	4261 Sep 11 00:04	1° Mp 06'25	19°08'48	direct	4262 Aug 14 02:38	8° <b>Ω</b> 16′16	
asc. node	4261 Sep 15 16:55	6° Mp 37′01		morning max el	4262 Aug 24 14:06	13° <b>Ω</b> 08′13	20°17'27
morning set	4261 Sep 27 21:05	28° Mp 07'06		asc. node	4262 Sep 02 13:57	24° <b>Ω</b> 48'42	
	4261 Sep 28 19:49	0∘ <b>⊽</b>			4262 Sep 05 13:53	0° <b>m</b> )	
				morning set	4262 Sep 12 02:30	12° <b>m</b> 43'41	
superior conj	4261 Oct 06 02:50	14° <b>≏</b> 23'37	1°36'54	Ç		•	
minimum elong	4261 Oct 06 05:04	14° <b>Ω</b> 34'28	1°36'46	superior conj	4262 Sep 19 17:35	28° m/21'50	1°43'38
max. Earth dist.	4261 Oct 12 18:22	26° <b>♀</b> 50'46	1.38522 AU	minimum elong	4262 Sep 19 18:10	28° <b>m</b> 24'49	1°43'37
	4261 Oct 14 12:34	0°M			4262 Sep 20 13:05	0∘ <b>ರ</b>	- <del>-</del> ·
evening rise	4261 Oct 16 13:33	3°M35'04		max. Earth dist.	4262 Sep 25 00:46	° <b>-</b> 8° <b>-</b> 48'41	1.36523 AU
desc. node	4261 Oct 22 13:54	13°M42'03		evening rise	4262 Sep 28 21:55	16° <b>⊆</b> 05'04	1.50025710
	4261 Nov 02 03:36	0° <b>₹</b>			4262 Oct 06 21:34	0°M	
evening max el	4261 Nov 21 02:29	23° <b>∡</b> 58'01	24°45'57	desc. node	4262 Oct 09 10:54	4°ML10'03	
Croning max ci	1201 1107 21 02.29	25 × 30 UI	<u>-</u> ⊤ ⊤J J I	acse. Houc	1202 301 07 10.34	4 IIO1003	

desc. node

4263 Sep 26 07:54

4263 Sep 30 00:56

24°**₽**21'31

0°M

max. Earth dist.

evening rise

4264 Aug 20 11:24

4264 Aug 25 13:27

2° m/49'04 1.33481 AU

13° m 17'20

minimum elong	4266 Jul 17 18:50	27° <b>©</b> 05'21	1°05'30	max. Earth dist.	4267 Jul 01 15:08	10° <b>©</b> 32'49	1.32016 AU
max. Earth dist.	4266 Jul 18 03:32	27° <b>©</b> 53'18	1.32096 AU				
	4266 Jul 19 02:30	$0$ $^{\circ}\Omega$		superior conj	4267 Jul 02 08:42	12° <b>5</b> 09'34	0°44'42
evening rise	4266 Jul 24 18:35	12° <b>Ω</b> 15′25		minimum elong	4267 Jul 02 06:53	11° <b>©</b> 59'32	0°44'20
	4266 Aug 02 20:13	0° <b>m</b> )		evening rise	4267 Jul 09 04:14	27° <b>©</b> 01'40	
desc. node	4266 Aug 16 22:57	21° <b>m</b> 44'29			4267 Jul 10 14:06	$0 {\circ} \Omega$	
evening max el	4266 Aug 24 05:31	29° <b>m</b> 51'22	26°52'53		4267 Jul 27 14:43	O° Mp	
	4266 Aug 24 09:11	0∘ <b>⊽</b>		desc. node	4267 Aug 03 19:57	8° Mp 58′25	
retrograde	4266 Sep 07 03:14	7° <b>≏</b> 02'01		evening max el	4267 Aug 06 02:28	11° Mp 16'23	25°49'37
evening set	4266 Sep 14 02:01	4° <b>≏</b> 56'42		retrograde	4267 Aug 20 01:39	18° <b>m</b> 23'33	
min. Earth dist.	4266 Sep 17 19:41	2° <b>₽</b> 18'30	0.60578 AU	evening set	4267 Aug 26 06:14	16° Mp 52′32	
	4266 Sep 20 14:21	30°₽, Mp		min. Earth dist.	4267 Aug 30 14:39	14° Mp 16'06	0.58508 AU
inferior conj	4266 Sep 21 00:36	29° <b>m</b> 38'27	-4°28'52	inferior conj	4267 Sep 02 19:49	11° <b>m</b> 56'50	-5°04'52
minimum elong	4266 Sep 21 06:25	29° <b>m</b> 26'18	4°27'38	minimum elong	4267 Sep 02 23:06	11° <b>m</b> 50'53	5°04'34
morning rise	4266 Sep 28 12:44	24° <b>m</b> 52'19		morning rise	4267 Sep 10 18:12	7° <b>m</b> 34'03	
direct	4266 Sep 30 21:11	24° <b>m</b> 30'52		direct	4267 Sep 13 05:09	7° <b>m</b> 14'35	
asc. node	4266 Oct 07 01:21	27° <b>m</b> 05'49		morning max el	4267 Sep 21 11:30	11° <b>m</b> )11'31	18°39'21
morning max el	4266 Oct 08 05:00	28° mp 08'08	18°04'43	asc. node	4267 Sep 23 22:24	13° <b>m</b> 51'05	
	4266 Oct 09 22:43	0∘ <b>⊽</b>			4267 Oct 03 23:55	0∘ <b>⊽</b>	
morning set	4266 Oct 23 23:39	23° <b>≏</b> 06'48		morning set	4267 Oct 07 17:52	7° <b>£</b> 11'11	
S	4266 Oct 27 16:25	$0^{\circ}$ M		Z .			
				superior conj	4267 Oct 16 11:01	23° <b>£</b> 58'36	1°29'01
superior conj	4266 Nov 02 19:11	11° <b>M</b> 07'54	1°07'21	minimum elong	4267 Oct 16 14:10	24° <b>£</b> 13'23	1°28'45
minimum elong	4266 Nov 02 23:17	11°M26'10	1°06'51		4267 Oct 19 17:05	0°M	
max. Earth dist.	4266 Nov 10 10:46	24°M20'58	1.41765 AU	max. Earth dist.	4267 Oct 23 17:03	7° <b>ጤ</b> 09'14	1.39723 AU
desc. node	4266 Nov 12 22:17	28°M27'45		evening rise	4267 Oct 27 18:53	14° <b>M</b> 09'47	-107,720.110
acco. noac	4266 Nov 13 20:50	0° <b>√</b>		desc. node	4267 Oct 30 19:16	19°M10'23	
evening rise	4266 Nov 15 21:13	3° <b>х</b> 15'45		dese. Hode	4267 Nov 06 15:04	0° <b>√</b>	
evening rise	4266 Dec 03 14:15	0°る			4267 Nov 28 14:41	⊙ੰਤ	
evening max el	4266 Dec 19 06:17	0 3 19° <b>る</b> 47'22	22°41'25	evening max el	4267 Dec 01 20:02	3° <b>る</b> 25'47	24°01'20
retrograde	4266 Dec 29 04:16	25°る40'43	22 41 23	retrograde	4267 Dec 12 20:39	9° <b>る</b> 54'55	24 01 20
evening set	4267 Jan 02 21:12	23° <b>ठ</b> 45'31		evening set	4267 Dec 18 02:34	7° <b>る</b> 43'47	
asc. node	4267 Jan 03 00:35	23° <b>る</b> 38'25		asc. node	4267 Dec 18 02:34 4267 Dec 20 21:37	4°る47'24	
inferior conj	4267 Jan 08 05:59	23 <b>3</b> 3823	1°41'40	min. Earth dist.	4267 Dec 20 21:37 4267 Dec 22 21:02	2°る13'07	0.67848 AU
•	4267 Jan 08 03:56	17 <b>3</b> 2301	1°40'55		4267 Dec 22 21:02 4267 Dec 23 13:17	2 31307 1° <b>3</b> 18'06	0.67848 AU 0°53'29
minimum elong min. Earth dist.	4267 Jan 08 03:38 4267 Jan 08 00:38	17 <b>3</b> 3009 17° <b>る</b> 41'34	0.68038 AU	inferior conj	4267 Dec 23 13:17 4267 Dec 23 12:03	1°る22'16	0°52'59
		17 841 34 11° <b>る</b> 13'59	0.08038 AU	minimum elong		1 022 10 30°R. <b>✓</b>	0 32 39
morning rise	4267 Jan 13 10:33				4267 Dec 24 12:32		
direct	4267 Jan 17 23:20	9° <b>る</b> 22'30	21040156	morning rise	4267 Dec 28 21:34	25° <b>₹</b> 14'07	
morning max el	4267 Jan 27 00:40	14°る40'14	21°49'56	direct	4268 Jan 01 20:33	23° <b>x</b> 45'17	20022101
1 1	4267 Feb 08 07:55	0°≈ 0°≈ - 47!27		morning max el	4268 Jan 09 20:15	28° <b>⋠</b> 19'55	20°32'01
desc. node	4267 Feb 08 21:31	0° <b>≈</b> 47'37			4268 Jan 11 10:11	0°る	
	4267 Feb 28 06:44	0° <b>){</b>		desc. node	4268 Jan 26 18:31	20° <b>る</b> 47'16	
morning set	4267 Feb 28 12:11	0° <b>)</b> €21'49	1 41 40 5 4 7 7		4268 Feb 01 21:46	0°≈	
max. Earth dist.	4267 Mar 06 13:35	10° <b>)</b> 15′06	1.41495 AU	morning set	4268 Feb 07 13:36	8°≈41'30	1 42227 ATT
	10/73/	2201/22102	2002112	max. Earth dist.	4268 Feb 16 19:48	23°≈19'30	1.43327 AU
superior conj	4267 Mar 14 05:49	23° <b>)</b> € 23'02			4268 Feb 20 22:06	0° <b>)</b> €	
minimum elong	4267 Mar 14 09:05	23° <b>)</b> €37'23	2°03'04		42.60 E 1 22 05 57	201/51/20	2007122
	4267 Mar 17 23:03	0°Υ 12°W 46120		superior conj	4268 Feb 23 05:57	3° <b>¥</b> 51′20	
evening rise	4267 Mar 24 22:38	12° <b>Υ</b> 46'28		minimum elong	4268 Feb 23 04:39	3° <b>)</b> (45'55	2°0/31
asc. node	4267 Mar 31 23:53	25° <b>Ƴ</b> 32'01		evening rise	4268 Mar 06 12:51	24° <b>)</b> € 58'42	
	4267 Apr 03 16:09	0° <b>8</b>	1001010		4268 Mar 09 09:23	0°Υ 14° <b>Ω</b> 13140	
evening max el	4267 Apr 10 06:10	8° <b>8</b> 42'30	18°12'26	asc. node	4268 Mar 17 20:54	14° <b>℃</b> 13'40	10000
retrograde	4267 Apr 17 04:49	12° <b>8</b> 12'02		evening max el	4268 Mar 23 18:13	21°Y50'06	18°07'11
evening set	4267 Apr 19 17:04	11° <b>8</b> 45'23		retrograde	4268 Mar 30 06:09	25° <b>Y</b> 12'37	
inferior conj	4267 Apr 26 15:52	6° <b>8</b> 58'51	2°48'30	evening set	4268 Apr 02 00:28	24° <b>Y</b> 35'15	
minimum elong	4267 Apr 26 19:14	6° <b>8</b> 51'20	2°47'45	inferior conj	4268 Apr 08 08:59	19° <b>Y</b> 28'40	3°23'30
min. Earth dist.	4267 Apr 30 00:54	3° <b>8</b> 59'28	0.59827 AU	minimum elong	4268 Apr 08 10:53	19° <b>Y</b> 23'48	3°23'17
morning rise	4267 May 03 18:54	1° <b>8</b> 14'35		min. Earth dist.	4268 Apr 11 08:17	16° <b>Y</b> 27'23	0.62000 AU
	4267 May 06 08:35	30° <b>₹</b> Υ		morning rise	4268 Apr 14 19:43	13° <b>Y</b> 27'59	
desc. node	4267 May 07 20:41	29° <b>Y</b> 33′22		direct	4268 Apr 21 15:47	11°Υ00'26	
direct	4267 May 10 06:01	29° <b>Y</b> 17′26		desc. node	4268 Apr 23 17:42	11° <b>Y</b> 13'06	
	4267 May 14 06:32	0° <b>8</b>		morning max el	4268 May 05 19:05	18° <b>Y</b> 59'32	27°52'07
morning max el	4267 May 24 14:21	7° <b>8</b> 08'38	27°32'09		4268 May 15 02:33	0°B	
	4267 Jun 10 19:42	$\Pi$ °0			4268 Jun 02 16:08	$\Pi^{\circ}0$	
morning set	4267 Jun 25 04:48	26° <b>Ⅱ</b> 42'31		morning set	4268 Jun 08 07:19	11° <b>Ⅱ</b> 02'13	
	4267 Jun 26 18:23	0		asc. node	4268 Jun 13 20:11	22° <b>Ⅱ</b> 40'55	
asc. node	4267 Jun 27 23:09	2° <b>©</b> 33'36		max. Earth dist.	4268 Jun 13 23:53	23° <b>Ⅱ</b> 00'53	1.32349 AU

gunariar agni	4269 Jun. 15 19:22	26° <b>∏</b> 52′28	0°20'07		4260 May 25, 14:46	0° <b>I</b> I	
superior conj minimum elong	4268 Jun 15 18:32 4268 Jun 15 17:37	26° <b>H</b> 32 28 26° <b>H</b> 47'26	0°2007 0°19'55	max. Earth dist.	4269 May 25 14:46 4269 May 28 01:44	о п 5°П04'31	1.33122 AU
minimum ciong	4268 Jun 17 04:52	0°95	0 1933	max. Earm dist.	4209 May 26 01.44	э дичэг	1.33122 AU
evening rise	4268 Jun 22 15:49	11° <b>©</b> 50'33		superior conj	4269 May 31 00:46	11° <b>Ⅱ</b> 20′19	-0°07'09
evening rise	4268 Jul 01 20:36	0°Ω		minimum elong	4269 May 31 01:08	11° <b>Ⅱ</b> 2017	0°07'06
evening max el	4268 Jul 17 16:45	21°Ω58'31	24°22'17	behind sun begin	4269 May 30 20:16	10° <b>Д</b> 56'17	0 07 00
desc. node	4268 Jul 20 16:57	24°Ω35'53	2. 22.17	behind sun end	4269 May 31 05:59	11° <b>I</b> 48'12	
retrograde	4268 Jul 31 13:14	28° <b>Ω</b> 57'54		asc. node	4269 May 31 17:12	12° <b>Ⅱ</b> 48'17	
evening set	4268 Aug 05 10:16	28° <b>Ω</b> 04'47		evening rise	4269 Jun 07 03:25	26° <b>∏</b> 35'31	
min. Earth dist.	4268 Aug 11 03:38	25° <b>Ω</b> 11'13	0.56636 AU	Č	4269 Jun 08 18:27	0∘ <b>ௐ</b>	
inferior conj	4268 Aug 13 19:01	23° <b>Ω</b> 31'12	-5°09'32		4269 Jun 26 23:55	$0^{\circ}\Omega$	
minimum elong	4268 Aug 13 16:45	23° <b>Ω</b> 34'47	5°09'24	evening max el	4269 Jun 29 06:09	2° <b>Ω</b> 21′53	22°45'11
morning rise	4268 Aug 22 01:49	19° <b>Ω</b> 29'23		desc. node	4269 Jul 07 13:58	8° <b>Ω</b> 02'07	
direct	4268 Aug 24 18:00	19° <b>Ω</b> 10′12		retrograde	4269 Jul 12 12:06	8° <b>Ω</b> 57'39	
morning max el	4268 Sep 03 08:20	23° <b>Ω</b> 38'49	19°35'31	evening set	4269 Jul 15 20:37	8° <b>Ω</b> 32′59	
	4268 Sep 08 17:18	0° <b>m</b>		min. Earth dist.	4269 Jul 23 14:24	5° <b>Ω</b> 08'10	0.55310 AU
asc. node	4268 Sep 09 19:25	1° <b>m</b> 35'21		inferior conj	4269 Jul 24 23:24	4° <b>Ω</b> 20'54	-4°27'34
morning set	4268 Sep 20 20:01	21° <b>m</b> 38'20		minimum elong	4269 Jul 24 15:41	4° <b>Ω</b> 31'59	4°26'00
	4268 Sep 24 23:22	0∘ <b>亚</b>		morning rise	4269 Aug 02 12:54	0° <b>Ω</b> 30′02	
				direct	4269 Aug 05 12:48	0° <b>Ω</b> 09'11	
superior conj	4268 Sep 28 18:48	7° <b>≏</b> 36'31	1°40'47	morning max el	4269 Aug 16 17:20	5° <b>Ω</b> 21′23	20°52'59
minimum elong	4268 Sep 28 20:20	7° <b>≏</b> 44'04	1°40'42	asc. node	4269 Aug 27 16:27	20° <b>Ω</b> 04'29	
max. Earth dist.	4268 Oct 04 21:27	19° <b>≙</b> 18'34	1.37637 AU		4269 Sep 02 00:19	0°Ту	
evening rise	4268 Oct 08 15:32	26° <b>Ω</b> 07'26		morning set	4269 Sep 05 03:19	6° Mp 19′55	
	4268 Oct 10 20:34	0°M					
desc. node	4268 Oct 16 16:17	9°M45'18		superior conj	4269 Sep 12 13:53	21° mp 47'13	1°44'08
	4268 Oct 30 04:06	0° ⊀ <sup>7</sup>	25017110	minimum elong	4269 Sep 12 13:50	21° m/46'59	1°44'07
evening max el	4268 Nov 13 08:27	17°×707'50	25°17'10	E d Ed	4269 Sep 16 15:35	0° <b>⊽</b>	1 25745 ATT
retrograde	4268 Nov 25 08:48	24° <b>₹</b> 04'01		max. Earth dist.	4269 Sep 17 05:48	1° <b>Ω</b> 10'04	1.35745 AU
evening set	4268 Dec 01 04:24	21° 🖈 38'32 16° 🖈 42'05	0.67311 AU	evening rise	4269 Sep 21 07:42 4269 Oct 03 11:35	8° <b>£</b> 59'16 0° <b>I</b> L	
min. Earth dist.	4268 Dec 05 15:11 4268 Dec 06 18:15	15° <b>x</b> '42'03		desc. node	4269 Oct 03 11:35 4269 Oct 03 13:18	0°11L 0°11L06'49	
minimum elong	4268 Dec 06 18:16	15° <b>x</b> 14'12	0°00'19	desc. Hode	4269 Oct 26 00:49	0° 🗖	
transit middle	4268 Dec 06 18:16	15° × 14'12	0°00'19	evening max el	4269 Oct 26 21:01	0° <b>∡</b> 149'43	26°21'36
transit begin	4268 Dec 06 15:28	15° × 14 12	0 00 19	retrograde	4269 Nov 08 15:53	8°×701'25	20 21 30
transit end	4268 Dec 06 21:03	15° × 25 15		evening set	4269 Nov 15 00:48	5° × 25'14	
asc. node	4268 Dec 06 18:38	15° × 12'59		min. Earth dist.	4269 Nov 19 04:39	1°×704'07	0.66424 AU
morning rise	4268 Dec 12 08:24	9° <b>×</b> 17'21		mm. Darm dist.	4269 Nov 20 01:45	30°RM	0.00121710
direct	4268 Dec 15 19:09	8° <b>√</b> 08'47		inferior conj	4269 Nov 20 18:59	29°M07'17	-0°58'39
morning max el	4268 Dec 22 23:45	12° <b>х</b> 10'46	19°27'26	minimum elong	4269 Nov 20 20:34	29°M02'25	
greatest brilliancy	4269 Jan 05 04:32	29° <b>∡</b> ⁴44'53	-0.7m	asc. node	4269 Nov 23 15:40	25°M49'45	
· ·	4269 Jan 05 08:34	8°0		morning rise	4269 Nov 26 16:56	23°M20'12	
desc. node	4269 Jan 12 15:33	11° <b>る</b> 05'42		direct	4269 Nov 29 17:30	22°M28'24	
morning set	4269 Jan 16 11:21	16° <b>る</b> 59'42		morning max el	4269 Dec 06 10:05	26°M08'34	18°38'29
	4269 Jan 24 20:01	0° <b>≈</b>			4269 Dec 09 18:40	0° <b>∡</b> ¹	
max. Earth dist.	4269 Jan 29 08:37	7° <b>≈</b> 07'10	1.44627 AU	morning set	4269 Dec 27 05:30	26° <b>₹</b> 24'32	
					4269 Dec 29 11:58	0° <b>る</b>	
superior conj	4269 Feb 02 04:32	13° <b>≈</b> 12′28	-1°53'53	desc. node	4269 Dec 30 12:36	1° <b>る</b> 37'22	
minimum elong	4269 Feb 01 21:13	12° <b>≈</b> 43′16	1°53'24				
	4269 Feb 12 12:15	0° <b>∀</b>		superior conj	4270 Jan 12 09:19	21° <b>る</b> 50'56	
evening rise	4269 Feb 16 06:40	6° <b>)</b> 16′15		minimum elong	4270 Jan 12 00:16	21° <b>る</b> 15'26	
	4269 Mar 03 00:36	0° <b>Υ</b>		max. Earth dist.	4270 Jan 12 02:23	21° <b>る</b> 23'42	1.45243 AU
asc. node	4269 Mar 04 17:55	2° <b>Υ</b> 17'13			4270 Jan 17 13:50	0° <b>≈</b>	
evening max el	4269 Mar 07 06:53	5°Υ11'05	18°20'51	evening rise	4270 Jan 28 01:20	16° <b>≈</b> 36'53	
retrograde	4269 Mar 13 17:45	8° <b>Υ</b> 40'02		greatest brilliancy	4270 Feb 05 05:13	29°≈38'39	-0.8m
evening set	4269 Mar 16 18:03	7° <b>Υ</b> 50'48	2025120		4270 Feb 05 10:36	0° <b>)</b> {	10053137
inferior conj	4269 Mar 22 16:11	2° <b>Υ</b> 25'29	3°35'38	evening max el	4270 Feb 18 17:37	18° <b>¥</b> 39'51	18°52'27
minimum elong	4269 Mar 22 16:22	2° <b>Y</b> 24'58 30° <b>R</b> ₩	3°35'38	asc. node	4270 Feb 19 14:56	19° <b>)</b> 31'36 22° <b>)</b> 26'58	
min Forth dist	4269 Mar 24 19:09	*	0.63075 ATT	retrograde	4270 Feb 25 11:46		
min. Earth dist. morning rise	4269 Mar 25 00:58 4269 Mar 28 13:49	29° <b>)</b> 43'47 26° <b>)</b> 16'24	0.63975 AU	evening set inferior conj	4270 Feb 28 18:34 4270 Mar 06 09:38	21° <b>)</b> 24'55 15° <b>)</b> 42'28	3°30'32
direct	4269 Apr 04 10:06	23° <b>H</b> 30'13		minimum elong	4270 Mar 06 09:38 4270 Mar 06 08:26	15° <del>X</del> 42′28	3°30'32 3°30'26
desc. node	4269 Apr 10 14:44	25° <b>H</b> 23'07		min. Earth dist.	4270 Mar 08 08:28 4270 Mar 08 02:48	13° <b>X</b> 4614	0.65597 AU
acse. Houc	4269 Apr 16 15:32	25 <b>γ</b> (25 0 / 0° <b>γ</b>		morning rise	4270 Mar 11 21:53	9° <b>H</b> 29'38	0.05571 AU
morning max el	4269 Apr 18 03:41		27°35'03	direct	4270 Mar 18 11:20	6° <b>∺</b> 39'05	
-0	4269 May 09 06:32	0°8	<del></del>	desc. node	4270 Mar 28 11:47	11° <b>X</b> 30'04	
morning set	4269 May 23 02:22	24° <b>8</b> 56'37		morning max el	4270 Mar 31 13:34	14° <b>)</b> 22'45	26°46'12
5		,		<i>3</i> 22			

desc. node	4274 Feb 02 23:55	26° <b>る</b> 34'25		morning rise	4274 Dec 21 23:33	18° <b>∡</b> ³32'40	
desc. node	4274 Feb 02 23:33 4274 Feb 05 08:34	20°≈		direct	4274 Dec 21 23:33 4274 Dec 25 17:13	17° × 12'37	
morning set	4274 Feb 19 09:02	0 ∞ 21°≈19'15		morning max el	4274 Dec 23 17:13 4275 Jan 02 07:43	21° <b>х</b> 31'37	20°02'44
morning set	4274 Feb 24 19:21	0° <b>\</b>		morning max ci	4275 Jan 09 08:15	21 × 31 37	20 02 44
max. Earth dist.	4274 Feb 26 15:35		1.42322 AU	desc. node	4275 Jan 20 20:56	16°る43'02	
max. Earth dist.	42/4100 20 15.55	3 <b>1</b> (0024	1.42322 AU	morning set	4275 Jan 29 05:41	10 <b>3</b> 43 02 29° <b>る</b> 28'52	
superior conj	4274 Mar 05 23:38	15° <b>¥</b> 18'52	2°06'57	morning set	4275 Jan 29 13:45	29 <b>⊙</b> 28 32	
minimum elong	4274 Mar 06 01:20	15° <b>H</b> 26'12		max. Earth dist.	4275 Feb 09 01:14	0 ∞ 16°≈26'52	1.43957 AU
minimum ciong	4274 Mar 14 07:53	0° <b>Υ</b>	2 00 33	max. Lartii dist.	42/3100 07 01.14	10 ~2032	1.43737 AO
avanina rica	4274 Mar 17 07:42	5° <b>Υ</b> 24'05		superior conj	4275 Feb 14 12:45	25°≈18'02	2004!11
evening rise asc. node	4274 Mar 17 07.42 4274 Mar 26 02:24	20° <b>Υ</b> 53'10		minimum elong	4275 Feb 14 12:43 4275 Feb 14 08:48	25°≈01'54	
asc. Houe	4274 Mai 20 02:24 4274 Apr 01 10:21	0° <b>8</b>		minimum ciong	4275 Feb 17 09:18	25 <b>≈</b> 01 54 0° <b>∀</b>	2 04 01
avaning may al	4274 Apr 02 22:06	1° <b>8</b> 35'57	18°07'58	evening rise	4275 Feb 17 09:18 4275 Feb 27 13:43	17° <b>)</b> 13'58	
evening max el	•	5° <b>8</b> 00'21	18 0/38	evening rise		17 χ1338 0° <b>Υ</b>	
retrograde	4274 Apr 09 14:46	4° <b>8</b> 29'15		4-	4275 Mar 07 00:52	9° <b>Υ</b> 20'06	
evening set	4274 Apr 12 05:45	4 <b>O</b> 29 13		asc. node	4275 Mar 12 23:27	9 1 20 06 14° <b>Υ</b> 50'29	18°10'46
: <i>c</i> :	4274 Apr 18 11:06	30 κ i 29° <b>Υ</b> 34'18	2007121	evening max el	4275 Mar 17 10:49	$18^{\circ}$ <b>Y</b> $14'00$	18 10 40
inferior conj	4274 Apr 18 22:00	$29^{\circ}$ <b>7</b> 34 18 $29^{\circ}$ <b>Y</b> 27'34	3°06'31	retrograde	4275 Mar 23 21:02	18° γ 14 00 17° <b>Υ</b> 31'30	
minimum elong	4274 Apr 19 00:50		3°06'01	evening set	4275 Mar 26 17:59		2021104
min. Earth dist.	4274 Apr 22 03:54	26° <b>Y</b> 31′06	0.60761 AU	inferior conj	4275 Apr 01 21:36	12°Υ16'36	3°31'04
morning rise	4274 Apr 25 17:49	23°\bar{\gamma}42'12		minimum elong	4275 Apr 01 22:46	12°Υ13'29	3°30'59
desc. node	4274 May 01 23:08	21° <b>Υ</b> 31'23		min. Earth dist.	4275 Apr 04 14:58	9° <b>Y</b> 21'46	0.62875 AU
direct	4274 May 02 10:07	21° <b>Y</b> 30'47		morning rise	4275 Apr 08 02:21	6° <b>Y</b> 11'51	
morning max el	4274 May 16 16:26		27°45'15	direct	4275 Apr 14 23:30	3° <b>Y</b> 34'59	
	4274 May 17 05:56	0°B		desc. node	4275 Apr 18 20:10	4° <b>Y</b> 18'47	
	4274 Jun 07 13:58	$\Pi^{\circ}0$		morning max el	4275 Apr 28 23:03	11° <b>Y</b> 33'41	27°49'15
morning set	4274 Jun 18 03:51	20° <b>Ⅱ</b> 11'16			4275 May 13 12:34	0°8	
asc. node	4274 Jun 22 01:38	28° <b>Ⅱ</b> 26'46			4275 May 30 22:55	$\Pi$ °0	
	4274 Jun 22 18:53	0		morning set	4275 Jun 02 03:32	4° <b>Ⅱ</b> 21'11	
max. Earth dist.	4274 Jun 24 06:19	3° <b>©</b> 12'57	1.32109 AU	max. Earth dist.	4275 Jun 07 12:47	15° <b>Ⅱ</b> 32'55	1.32631 AU
				asc. node	4275 Jun 08 22:41	18° <b>Ⅱ</b> 34'43	
superior conj	4274 Jun 25 10:29	5° <b>©</b> 47'19	0°34'41				
minimum elong	4274 Jun 25 08:59	5° <b>©</b> 39'08	0°34'21	superior conj	4275 Jun 09 19:01	20° <b>Ⅱ</b> 24'37	0°08'52
evening rise	4274 Jul 02 06:17	20° <b>©</b> 40'19		minimum elong	4275 Jun 09 18:36	20° <b>Ⅱ</b> 22'19	0°08'46
	4274 Jul 06 18:53	$0 {\circ} \Omega$		behind sun begin	4275 Jun 09 14:12	19° <b>Ⅱ</b> 58'30	
	4274 Jul 25 21:05	O° My		behind sun end	4275 Jun 09 23:00	20° <b>∏</b> 46′11	
desc. node	4274 Jul 28 22:23	3° <b>m</b> 10'59			4275 Jun 14 04:56	$0$ $\circ$ $\odot$	
evening max el	4274 Jul 28 23:49	3° Mp 14′25	25°14'42	evening rise	4275 Jun 16 18:07	5° <b>©</b> 28'38	
retrograde	4274 Aug 11 22:47	10° <b>m</b> 18'39			4275 Jun 29 18:53	$\mathfrak{O}^{\circ}\mathfrak{O}$	
evening set	4274 Aug 17 15:13	9° <b>₯</b> 04'24		evening max el	4275 Jul 10 12:50	13° <b>Ω</b> 44'49	23°41'06
min. Earth dist.	4274 Aug 22 11:34	6° Mp 22′33	0.57674 AU	desc. node	4275 Jul 15 19:24	17° <b>Ω</b> 57'18	
inferior conj	4274 Aug 25 12:36	4° Mp 18'16	-5°11'39	retrograde	4275 Jul 24 04:29	20° <b>Ω</b> 35'57	
minimum elong	4274 Aug 25 13:49	4° Mp 16′11		evening set	4275 Jul 28 10:03	19° <b>Ω</b> 56'36	
morning rise	4274 Sep 02 14:45	0° Mp 04'36		min. Earth dist.	4275 Aug 03 22:50	16° <b>Ω</b> 51'29	0.55997 AU
	4274 Sep 02 22:40	30°R <b>Ω</b>		inferior conj	4275 Aug 06 03:16	15° <b>Ω</b> 32'47	-4°58'00
direct	4274 Sep 05 03:40	29° <b>Ω</b> 45'22		minimum elong	4275 Aug 05 22:21	15° <b>Ω</b> 40'13	4°57'26
	4274 Sep 07 07:22	0°m		morning rise	4275 Aug 14 13:08	11° <b>Ω</b> 37'25	
morning max el	4274 Sep 13 22:31	3° m 54'34	19°00'28	direct	4275 Aug 17 08:35	11° <b>Ω</b> 17'39	
asc. node	4274 Sep 18 00:53	8° m 37'22		morning max el	4275 Aug 27 14:21	16° <b>Ω</b> 02'59	20°05'58
	4274 Sep 30 07:35	0∘ <b>ত</b>		asc. node	4275 Sep 04 21:54	26° <b>Ω</b> 42'06	
morning set	4274 Sep 30 15:14	0° <b>£</b> 37'41			4275 Sep 06 21:18	0° m/	
	•			morning set	4275 Sep 14 19:51	15° Mp 12'03	
superior conj	4274 Oct 08 23:41	17° <b>≏</b> 01'23	1°35'08	C	4275 Sep 22 01:52	0∘ <b>⊽</b>	
minimum elong	4274 Oct 09 02:10	17° <b>£</b> 13'21	1°34'57		1		
Ü	4274 Oct 15 23:23	0°M		superior conj	4275 Sep 22 12:45	0° <b>£</b> 54'44	1°43'08
max. Earth dist.	4274 Oct 15 19:25	29° <b>≙</b> 42'14	1.38834 AU	minimum elong	4275 Sep 22 13:35	0° <b>£</b> 58'55	1°43'06
evening rise	4274 Oct 19 15:39	6°M27'51		max. Earth dist.	4275 Sep 28 01:14	11° <b>≏</b> 42'49	1.36802 AU
desc. node	4274 Oct 24 21:40	15°M16'11		evening rise	4275 Oct 01 21:05	18° <b>Ω</b> 49'40	
	4274 Nov 03 08:56	0° <b>∡</b> 7			4275 Oct 08 06:29	0°M	
evening max el	4274 Nov 24 02:18	26° <b>₹</b> ³35'27	24°34'37	desc. node	4275 Oct 11 18:42	5°M46'16	
3. J 1110A CI	4274 Nov 27 02:18	0°る	2.010/	acco. node	4275 Oct 28 13:02	0° <b>√</b>	
retrograde	4274 Nov 27 22:39 4274 Dec 05 13:23	3° <b>ਠ</b> 16'41		evening max el	4275 Nov 06 14:41	0 ✗ 10°♬18'14	25°46'24
evening set	4274 Dec 03 13:23 4274 Dec 11 01:06	0° <b>る</b> 59'21		retrograde	4275 Nov 18 23:18	10 × 1814 17° × 21′50	20 TO 27
evening set	4274 Dec 11 01:06 4274 Dec 12 02:38	0 3921 30°R <i>≯</i>		evening set	4275 Nov 18 23.18 4275 Nov 25 00:51	17 <b>x</b> ·21 30 14° <b>x</b> <sup>7</sup> 51'04	
asc. node	4274 Dec 12 02:38 4274 Dec 15 00:09	26° <b>₹</b> 36'08		min. Earth dist.	4275 Nov 29 08:36	10°×709'50	0.66980 AU
min. Earth dist.	4274 Dec 15 00:09 4274 Dec 15 16:17	25° <b>х</b> 43′06	0.67664 AU	inferior conj	4275 Nov 30 16:26	8° <b>₹</b> 129'05	
inferior conj	4274 Dec 15 10:17 4274 Dec 16 13:02	23 <b>x</b> 43 00 24° <b>x</b> 33'57	0.07004 AU 0°31'17	minimum elong	4275 Nov 30 10:20 4275 Nov 30 17:04	8° × 27'03	0°24'19
minimum elong	4274 Dec 16 13:02 4274 Dec 16 12:17	24 × 33 37 24° × 36'27	0°30'59	asc. node	4275 Nov 30 17:04 4275 Dec 01 21:10	6° <b>₹</b> '27' 03	U 4+17
mmmum ciong	12/11 DCC 10 12.1/	27 <b>∧</b> 302/	0 30 37	ase. Houc	12/3 DCC 01 21.10	U A 371/	

	4275 D 06 00 41	20 726110		: 6 :	107631 12 14 44	220M 2010 C	102 4122
morning rise	4275 Dec 06 09:41	2° <b>₹</b> 36'19		inferior conj	4276 Nov 13 14:44	22°M20'06	
direct	4275 Dec 09 15:55	1° <b>∡</b> ³35′19		minimum elong	4276 Nov 13 17:04		1°23'24
morning max el	4275 Dec 16 14:24	5° <b>∡</b> 26′19	19°04'40	asc. node	4276 Nov 17 18:11	17°M58'06	
	4276 Jan 03 03:51	0°ಕ		morning rise	4276 Nov 19 16:35	16°M38'24	
desc. node	4276 Jan 07 17:57	7° <b>る</b> 07'41		direct	4276 Nov 22 13:25	15°M52'43	
morning set	4276 Jan 08 09:50	8° <b>る</b> 09'31		morning max el	4276 Nov 29 03:09	19°M26'41	18°22'40
	4276 Jan 22 09:11	0° <b>≈</b>			4276 Dec 07 04:51	0° <b>∡</b> ¹	
max. Earth dist.	4276 Jan 22 17:02	0° <b>≈</b> 30'54	1.44979 AU	morning set	4276 Dec 18 16:21	18° <b>∡</b> 12'19	
				desc. node	4276 Dec 24 15:01	27° <b>∡</b> ¹43'56	
superior conj	4276 Jan 25 01:57	4°≈15'20	-1°42'05		4276 Dec 26 01:13	0°ರ	
minimum elong	4276 Jan 24 17:02	3°≈40'08	1°41'17				
evening rise	4276 Feb 08 21:51	28° <b>≈</b> 07'11		superior conj	4277 Jan 03 04:30	12° <b>る</b> 50'52	-1°02'30
8 21	4276 Feb 10 01:23	0° <b>)</b> €		minimum elong	4277 Jan 02 20:52	12°る20'54	
asc. node	4276 Feb 27 20:29	27° <b>)</b> 04'01		max. Earth dist.	4277 Jan 04 11:45	14° <b>る</b> 53'29	1.45280 AU
evening max el	4276 Feb 28 22:52		18°32'08	max. Earth dist.	4277 Jan 14 03:13	0°≈	1.13200710
evening max er	4276 Mar 01 22:00	0°Υ	10 32 00	evening rise	4277 Jan 19 06:54	8°≈05'32	
ratragrada	4276 Mar 06 11:55	1° <b>Υ</b> 50'16		greatest brilliancy	4277 Jan 29 18:42	24°≈31'38	-0.8m
retrograde		0° <b>Υ</b> 55'39		greatest offiliancy	4277 Feb 02 09:09	24 ≈31 38 0° <b>H</b>	-0.6111
evening set	4276 Mar 09 14:52	0° <b>1</b> 33′39 30°R <b></b> ₩					10010150
	4276 Mar 10 23:11		2025110	evening max el	4277 Feb 11 08:01		19°10'59
inferior conj	4276 Mar 15 09:35		3°35'18	asc. node	4277 Feb 13 17:31	13° <b>)</b> €53'08	
minimum elong	4276 Mar 15 09:07	25° <b>)</b> €23'54	3°35'18	retrograde	4277 Feb 18 07:45	15° <b>)</b> 43′08	
min. Earth dist.	4276 Mar 17 11:36	22° <b>)</b> 54'09	0.64709 AU	evening set	4277 Feb 21 17:30	14° <b>)</b> 35′29	
morning rise	4276 Mar 21 02:46	19° <b>∺</b> 11'16		inferior conj	4277 Feb 27 06:26	8° <b>)</b> (46′15	
direct	4276 Mar 27 20:41	16° <b>)</b> €21'53		minimum elong	4277 Feb 27 04:47	8° <b>升</b> 51'32	3°24'00
desc. node	4276 Apr 04 17:11	19° <b>∺</b> 22'20		min. Earth dist.	4277 Feb 28 17:09	6° <b>升</b> 55′04	0.66160 AU
morning max el	4276 Apr 10 08:44	24° <b>₩</b> 15'09	27°17'51	morning rise	4277 Mar 04 15:43	2° <b>)</b> 32′21	
	4276 Apr 15 13:02	$0$ ° $\Upsilon$			4277 Mar 08 23:55	30°R <b>≈</b>	
	4276 May 05 21:58	0°B		direct	4277 Mar 11 00:34	29° <b>≈</b> 43'47	
morning set	4276 May 15 18:31	18° <b>8</b> 02'01			4277 Mar 13 03:24	0° <b>∀</b>	
max. Earth dist.	4276 May 20 10:53	27° <b>8</b> 24'42	1.33591 AU	desc. node	4277 Mar 22 14:15	6° <b>)</b> €08'28	
	4276 May 21 16:56	0°Щ		morning max el	4277 Mar 23 18:40	7° <b>)</b> €18'23	26°17'43
	1270 1114) 21 10.00	· <b>-</b>		morning man vi	4277 Apr 10 09:40	0°Υ	20 17 .5
superior conj	4276 May 23 23:04	4° <b>∏</b> 43'52	-0°19'18		4277 Apr 28 07:39	0°8	
minimum elong	4276 May 24 00:04	4° <b>∏</b> 49'08		morning set	4277 Apr 28 21:10	1° <b>8</b> 02'57	
asc. node	4276 May 24 00:04 4276 May 25 19:45	4 <b>П</b> 4908 8° <b>П</b> 41'07	0 1903	max. Earth dist.		8° <b>8</b> 44'07	1.35019 AU
	•			max. Earth tist.	4277 May 02 21:37	0 04407	1.50017110
evening rise	4276 May 31 05:12	20° <b>II</b> 10'09			•		
evening rise	4276 May 31 05:12 4276 Jun 05 01:01	20°∏10′09 0°©		superior conj	4277 May 07 20:17	18° <b>8</b> 38'16	-0°48'35
	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 21 04:11	20°∏10′09 0°© 24°©10′07	22°04'46	superior conj minimum elong	4277 May 07 20:17 4277 May 07 22:54	18° <b>8</b> 38'16 18° <b>8</b> 51'38	
evening rise evening max el	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 21 04:11 4276 Jun 30 08:25	20°∏10′09 0°© 24°©10′07 0°Ω	22°04'46	superior conj	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48	18°\38'16 18°\51'38 28°\541'34	-0°48'35
evening rise evening max el desc. node	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 21 04:11 4276 Jun 30 08:25 4276 Jul 01 16:25	20°∏10'09 0°© 24°©10'07 0°Ω 0°Ω18'21	22°04'46	superior conj minimum elong asc. node	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52	18°႘38'16 18°႘51'38 28°႘41'34 0°頂	-0°48'35
evening rise evening max el desc. node retrograde	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 21 04:11 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52	20° II 10'09 0° S 24° S 10'07 0° N 0° N 18'21 0° N 30'19	22°04'46	superior conj minimum elong	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32	18°838'16 18°851'38 28°841'34 0°П 4°П38'24	-0°48'35
evening rise evening max el desc. node	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 21 04:11 4276 Jun 30 08:25 4276 Jul 01 16:25	20°∏10'09 0°© 24°©10'07 0°Ω 0°Ω18'21	22°04'46	superior conj minimum elong asc. node	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52	18°႘38'16 18°႘51'38 28°႘41'34 0°頂	-0°48'35
evening rise evening max el desc. node retrograde	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 21 04:11 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52	20° II 10'09 0° S 24° S 10'07 0° N 0° N 18'21 0° N 30'19	22°04'46	superior conj minimum elong asc. node	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32	18°838'16 18°851'38 28°841'34 0°П 4°П38'24	-0°48'35 0°48'04
evening rise evening max el desc. node retrograde	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 21 04:11 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52 4276 Jul 06 18:28	20° H 10'09 0° S 24° S 10'07 0° N 0° N 18'21 0° N 30'19 0° N 12'38	22°04'46 0.54986 AU	superior conj minimum elong asc. node evening rise	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32 4277 May 29 20:58	18°♥38'16 18°♥51'38 28°♥41'34 0°Ⅲ 4°Ⅲ38'24 0°©	-0°48'35 0°48'04
evening rise  evening max el  desc. node retrograde evening set	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 21 04:11 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52 4276 Jul 06 18:28 4276 Jul 07 15:54	20° \$\Pi\$10'09 0° \$\Pi\$ 24° \$\Pi\$10'07 0° \$\Omega\$ 0° \$\Omega\$18'21 0° \$\Omega\$30'19 0° \$\Omega\$12'38 30° \$\Pi\$	0.54986 AU	superior conj minimum elong asc. node evening rise evening max el	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32 4277 May 29 20:58 4277 Jun 03 05:17	18° <b>と</b> 38'16 18° <b>と</b> 51'38 28° <b>と</b> 41'34 0°П 4°П38'24 0°© 5°©01'11	-0°48'35 0°48'04
evening rise  evening max el  desc. node retrograde evening set  min. Earth dist.	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 21 04:11 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52 4276 Jul 06 18:28 4276 Jul 07 15:54 4276 Jul 15 09:18	20° II 10'09 0° II 24° II 10'07 0° II 18'21 0° II 12'38 30° RII 26° II 10'09 20° II 10'09 0° II 12'38 30° RII 26° II 30'35	0.54986 AU -3°54'14	superior conj minimum elong asc. node evening rise evening max el retrograde	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32 4277 May 29 20:58 4277 Jun 03 05:17 4277 Jun 14 11:41	18°♥38'16 18°♥51'38 28°♥41'34 0°Ⅲ 4°Ⅲ38'24 0°໑ 5°໑01'11	-0°48'35 0°48'04
evening rise  evening max el  desc. node retrograde evening set  min. Earth dist. inferior conj	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 21 04:11 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52 4276 Jul 06 18:28 4276 Jul 07 15:54 4276 Jul 15 09:18 4276 Jul 16 01:44	20° II 10'09 0° II 24° I0'07 0° I 0° I18'21 0° I12'38 30° R 26° I30'35 26° I07'29	0.54986 AU -3°54'14	superior conj minimum elong asc. node evening rise evening max el retrograde evening set	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32 4277 May 29 20:58 4277 Jun 03 05:17 4277 Jun 14 11:41 4277 Jun 16 12:47	18°♥38'16 18°♥51'38 28°♥41'34 0°Ⅲ 4°Ⅲ38'24 0° 5°©01'11 10°©31'50 10°©21'40	-0°48'35 0°48'04 20°38'56
evening rise  evening max el  desc. node retrograde evening set  min. Earth dist. inferior conj minimum elong	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 21 04:11 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52 4276 Jul 06 18:28 4276 Jul 07 15:54 4276 Jul 15 09:18 4276 Jul 16 01:44 4276 Jul 15 17:09	20° II 10'09 0° II 24° I0'07 0° I 18'21 0° I 12'38 30° II 26° I 30'35 26° I 9'32	0.54986 AU -3°54'14	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32 4277 May 29 20:58 4277 Jun 03 05:17 4277 Jun 14 11:41 4277 Jun 16 12:47 4277 Jun 18 13:28	18°838'16 18°851'38 28°841'34 0°11 4°138'24 0°9 5°901'11 10°931'50 10°921'40 9°9552'48	-0°48'35 0°48'04 20°38'56 -2°07'37
evening rise  evening max el  desc. node retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 21 04:11 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52 4276 Jul 06 18:28 4276 Jul 07 15:54 4276 Jul 15 09:18 4276 Jul 16 01:44 4276 Jul 15 17:09 4276 Jul 24 17:34 4276 Jul 27 21:37	20° II 10'09 0° II 24° I0'07 0° I 0° I18'21 0° I30'19 0° I12'38 30° II 26° I0'35 26° I9'32 26° I9'32 22° I6'49	0.54986 AU -3°54'14 3°51'59	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32 4277 May 29 20:58 4277 Jun 03 05:17 4277 Jun 14 11:41 4277 Jun 16 12:47 4277 Jun 18 13:28 4277 Jun 25 19:12	18°♥38'16 18°♥51'38 28°♥41'34 0°Ⅲ 4°Ⅲ38'24 0°ॐ 5°ॐ01'11 10°ॐ31'50 10°ॐ21'40 9°ॐ52'48 6°ॐ24'28	-0°48'35 0°48'04 20°38'56 -2°07'37 2°05'30
evening rise  evening max el  desc. node retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 21 04:11 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52 4276 Jul 06 18:28 4276 Jul 07 15:54 4276 Jul 15 09:18 4276 Jul 16 01:44 4276 Jul 15 17:09 4276 Jul 24 17:34 4276 Jul 27 21:37 4276 Aug 08 18:26	20° II 10'09 0° II 24° I0'07 0° I 0° I18'21 0° I30'19 0° I12'38 30° II 26° I0'35 26° I9'35 26° I9'32 22° I6'49 21° I0'05'4'31	0.54986 AU -3°54'14 3°51'59	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32 4277 May 29 20:58 4277 Jun 03 05:17 4277 Jun 14 11:41 4277 Jun 16 12:47 4277 Jun 18 13:28 4277 Jun 25 19:12 4277 Jun 25 13:15	18°838'16 18°851'38 28°841'34 0°11 4°138'24 0°5 5°501'11 10°531'50 10°521'40 9°552'48 6°524'28 6°533'00	-0°48'35 0°48'04 20°38'56 -2°07'37 2°05'30
evening rise  evening max el  desc. node retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct morning max el	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 21 04:11 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52 4276 Jul 06 18:28 4276 Jul 07 15:54 4276 Jul 15 09:18 4276 Jul 15 17:09 4276 Jul 15 17:09 4276 Jul 24 17:34 4276 Jul 27 21:37 4276 Aug 08 18:26 4276 Aug 11 06:26	20° II 10'09 0° II 24° I0'07 0° I 0° I 18'21 0° I 12'38 30° II 26° I0'35 26° I9'32 22° I 16'49 21° I 27' I 27' I 0° I	0.54986 AU -3°54'14 3°51'59	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32 4277 May 29 20:58 4277 Jun 03 05:17 4277 Jun 14 11:41 4277 Jun 16 12:47 4277 Jun 18 13:28 4277 Jun 25 19:12 4277 Jun 25 13:15 4277 Jun 26 21:07 4277 Jul 04 13:04	18° 838'16 18° 851'38 28° 841'34 0° II 4° II 38'24 0° 9 5° 901'11 10° 931'50 10° 921'40 9° 952'48 6° 933'00 5° 947'14 2° 918'13	-0°48'35 0°48'04 20°38'56 -2°07'37 2°05'30
evening rise  evening max el  desc. node retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct morning max el  asc. node	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 21 04:11 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52 4276 Jul 06 18:28 4276 Jul 15 09:18 4276 Jul 15 09:18 4276 Jul 15 17:09 4276 Jul 15 17:09 4276 Jul 24 17:34 4276 Jul 27 21:37 4276 Aug 08 18:26 4276 Aug 11 06:26 4276 Aug 21 18:58	20° II 10'09 0° II 24° I0'07 0° II 0° II 18'21 0° II 2'38 30° RI 26° I9'35 26° I9'32 22° I6'49 21° I	0.54986 AU -3°54'14 3°51'59	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32 4277 May 29 20:58 4277 Jun 03 05:17 4277 Jun 14 11:41 4277 Jun 16 12:47 4277 Jun 18 13:28 4277 Jun 25 19:12 4277 Jun 26 21:07 4277 Jun 04 13:04 4277 Jul 08 07:03	18° 838'16 18° 851'38 28° 841'34 0° II 4° II 38'24 0° 9 5° 901'11 10° 931'50 10° 921'40 9° 952'48 6° 924'28 6° 933'00 5° 947'14 2° 918'13 1° 947'55	-0°48'35 0°48'04 20°38'56 -2°07'37 2°05'30 0.54894 AU
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evening rise  evening max el  desc. node retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct morning max el  asc. node	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 21 04:11 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52 4276 Jul 06 18:28 4276 Jul 15 09:18 4276 Jul 15 09:18 4276 Jul 15 17:09 4276 Jul 15 17:09 4276 Jul 24 17:34 4276 Jul 27 21:37 4276 Aug 08 18:26 4276 Aug 11 06:26 4276 Aug 21 18:58	20° II 10'09 0° II 24° I0'07 0° II 0° II 18'21 0° II 2'38 30° RI 26° I9'35 26° I9'32 22° I6'49 21° I	0.54986 AU -3°54'14 3°51'59	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32 4277 May 29 20:58 4277 Jun 03 05:17 4277 Jun 14 11:41 4277 Jun 16 12:47 4277 Jun 18 13:28 4277 Jun 25 13:15 4277 Jun 25 13:15 4277 Jun 26 21:07 4277 Jul 04 13:04 4277 Jul 08 07:03 4277 Jul 21 12:45 4277 Aug 06 03:59	18°838'16 18°851'38 28°841'34 0°11 4°1138'24 0°5 5°501'11 10°531'50 10°52'48 6°524'28 6°533'00 5°547'14 2°518'13 1°547'55 8°511'00 0°\$\$\alpha\$	-0°48'35 0°48'04 20°38'56 -2°07'37 2°05'30 0.54894 AU
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evening rise  evening max el  desc. node retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct morning max el  asc. node morning set  superior conj minimum elong max. Earth dist.	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52 4276 Jul 06 18:28 4276 Jul 07 15:54 4276 Jul 15 09:18 4276 Jul 16 01:44 4276 Jul 15 17:09 4276 Jul 24 17:34 4276 Jul 27 21:37 4276 Aug 08 18:26 4276 Aug 11 06:26 4276 Aug 21 18:58 4276 Aug 29 04:46 4276 Sep 05 11:36 4276 Sep 05 10:59 4276 Sep 09 12:51 4276 Sep 12 18:53	20° I 10'09 0° I 24° I 10'07 0° N 0° N 18'21 0° N 30'19 0° N 12'38 30° R I 26° I 19'32 22° I 16'49 21° I 16'49 21° I 16' I 17' I 27' I 15° N 27'07 0° N 15° N 17'23 15° N 14'09 23° N 35'28 0° I	0.54986 AU -3°54'14 3°51'59 21°31'45 1°43'21 1°43'20	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32 4277 May 29 20:58 4277 Jun 03 05:17 4277 Jun 14 11:41 4277 Jun 16 12:47 4277 Jun 18 13:28 4277 Jun 25 19:12 4277 Jun 26 21:07 4277 Jun 08 07:03 4277 Jul 04 13:04 4277 Jul 08 07:03 4277 Jul 21 12:45 4277 Aug 06 03:59 4277 Aug 08 16:02 4277 Aug 13 15:57 4277 Aug 20 16:59 4277 Aug 20 16:59 4277 Aug 20 15:19	18° 838'16 18° 851'38 28° 841'34 0° II 4° II 38'24 0° 9 5° 901'11 10° 931'50 10° 921'40 9° 952'48 6° 924'28 6° 933'00 5° 947'14 2° 918'13 1° 947'55 8° 911'00 0° \( \alpha\) 4° \( \alpha\) 42'37 14° \( \alpha\) 51'46 29° \( \alpha\) 58'22 29° \( \alpha\) 49'27	-0°48'35 0°48'04 20°38'56 -2°07'37 2°05'30 0.54894 AU 23°11'53
evening rise  evening max el  desc. node retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct morning max el  asc. node morning set  superior conj minimum elong max. Earth dist. evening rise	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52 4276 Jul 06 18:28 4276 Jul 07 15:54 4276 Jul 15 09:18 4276 Jul 15 09:18 4276 Jul 15 17:09 4276 Jul 15 17:09 4276 Jul 24 17:34 4276 Jul 27 21:37 4276 Aug 08 18:26 4276 Aug 11 06:26 4276 Aug 21 18:58 4276 Aug 29 04:46 4276 Sep 05 11:36 4276 Sep 05 10:59 4276 Sep 09 12:51 4276 Sep 12 18:53 4276 Sep 13 20:16	20° I 10'09 0° S 24° S 10'07 0° N 0° N 18'21 0° N 30'19 0° N 12'38 30° S 26° S 30'35 26° S 19'32 22° S 16'49 21° S 54'31 27° S 27'07 0° N 15° N 27'28 29° N 59'00 0° M 15° M 14'09 23° M 35'28 0° S 2° S 01'50	0.54986 AU -3°54'14 3°51'59 21°31'45 1°43'21 1°43'20	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32 4277 May 29 20:58 4277 Jun 03 05:17 4277 Jun 14 11:41 4277 Jun 16 12:47 4277 Jun 18 13:28 4277 Jun 25 13:15 4277 Jun 26 21:07 4277 Jun 08 07:03 4277 Jul 04 13:04 4277 Jul 08 07:03 4277 Jul 21 12:45 4277 Aug 06 03:59 4277 Aug 08 16:02 4277 Aug 13 15:57 4277 Aug 20 16:59 4277 Aug 20 15:19 4277 Aug 20 17:17	18° 838'16 18° 851'38 28° 841'34 0° II 4° II 38'24 0° 9 5° 901'11 10° 931'50 10° 921'40 9° 952'48 6° 933'00 5° 947'14 2° 918'13 1° 947'55 8° 911'00 0° \( \alpha\) 4° \( \alpha\) 42'37 14° \( \alpha\) 51'46 29° \( \alpha\) 58'22 29° \( \alpha\) 49'27 0° III)	-0°48'35 0°48'04 20°38'56 -2°07'37 2°05'30 0.54894 AU 23°11'53
evening rise  evening max el  desc. node retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct morning max el  asc. node morning set  superior conj minimum elong max. Earth dist.	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52 4276 Jul 06 18:28 4276 Jul 07 15:54 4276 Jul 15 09:18 4276 Jul 15 09:18 4276 Jul 15 17:09 4276 Jul 24 17:34 4276 Jul 27 21:37 4276 Aug 08 18:26 4276 Aug 11 06:26 4276 Aug 21 18:58 4276 Aug 29 04:46 4276 Sep 05 10:59 4276 Sep 05 10:59 4276 Sep 12 18:53 4276 Sep 13 20:16 4276 Sep 27 15:44	20° II 10'09 0° II 24° II 10'07 0° N 0° N 18'21 0° N 30'19 0° N 12'38 30° R II 26° II 10'32 22° II 16'49 21° II 16'49 21° II 16' II 16' II 16' 21' II 16' 2	0.54986 AU -3°54'14 3°51'59 21°31'45 1°43'21 1°43'20	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32 4277 May 29 20:58 4277 Jun 03 05:17 4277 Jun 14 11:41 4277 Jun 16 12:47 4277 Jun 18 13:28 4277 Jun 25 13:15 4277 Jun 26 21:07 4277 Jun 04 13:04 4277 Jul 04 13:04 4277 Jul 08 07:03 4277 Jul 09 07:03 4277 Jul 21 12:45 4277 Aug 06 03:59 4277 Aug 08 16:02 4277 Aug 20 16:59 4277 Aug 20 15:19 4277 Aug 20 17:17 4277 Aug 23 09:15	18° 838'16 18° 851'38 28° 841'34 0° II 4° II 38'24 0° 9 5° 901'11 10° 931'50 10° 921'40 9° 952'48 6° 933'00 5° 947'14 2° 918'13 1° 947'55 8° 911'00 0° \( \alpha\) 4° \( \alpha\) 237 14° \( \alpha\) 51'46 29° \( \alpha\) 58'22 29° \( \alpha\) 49'27 0° ID 5° ID 39'54	-0°48'35 0°48'04 20°38'56 -2°07'37 2°05'30 0.54894 AU 23°11'53
evening rise  evening max el  desc. node retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct morning max el  asc. node morning set  superior conj minimum elong max. Earth dist. evening rise	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52 4276 Jul 06 18:28 4276 Jul 07 15:54 4276 Jul 15 09:18 4276 Jul 15 09:18 4276 Jul 15 17:09 4276 Jul 15 17:09 4276 Jul 24 17:34 4276 Jul 27 21:37 4276 Aug 08 18:26 4276 Aug 11 06:26 4276 Aug 21 18:58 4276 Aug 29 04:46 4276 Aug 29 04:58  4276 Sep 05 10:59 4276 Sep 12 18:53 4276 Sep 12 18:53 4276 Sep 12 18:53 4276 Sep 27 15:44 4276 Sep 30 05:42	20° I 10'09 0° S 24° S 10'07 0° N 0° N 18'21 0° N 30'19 0° N 12'38 30° S 26° S 30'35 26° S 19'32 22° S 16'49 21° S 54'31 27° S 27'07 0° N 15° N 27'28 29° N 59'00 0° M 15° M 14'09 23° M 35'28 0° S 2° S 01'50	0.54986 AU -3°54'14 3°51'59 21°31'45 1°43'21 1°43'20	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32 4277 May 29 20:58 4277 Jun 03 05:17 4277 Jun 14 11:41 4277 Jun 16 12:47 4277 Jun 18 13:28 4277 Jun 25 19:12 4277 Jun 25 13:15 4277 Jun 26 21:07 4277 Jul 04 13:04 4277 Jul 08 07:03 4277 Jul 09 07:03 4277 Jul 21 12:45 4277 Aug 06 03:59 4277 Aug 08 16:02 4277 Aug 20 16:59 4277 Aug 20 15:19 4277 Aug 20 17:17 4277 Aug 23 09:15 4277 Aug 28 08:48	18° \( \) 38'16 18° \( \) 51'38 28° \( \) 41'34 0° \( \) 4° \( \) 138'24 0° \( \) 5° \( \) 90' \( \) 110' \( \) 21'40 9° \( \) 52'48 6° \( \) 23'30'00 5° \( \) 47'14 2° \( \) 18'13 1° \( \) 47'55 8° \( \) 11'00 0° \( \) 4° \( \) 42'37 14° \( \) 51'46 29° \( \) 58'22 29° \( \) 49'27 0° \( \) 5° \( \) 39'54 15° \( \) 51'48	-0°48'35 0°48'04 20°38'56 -2°07'37 2°05'30 0.54894 AU 23°11'53
evening rise  evening max el  desc. node retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct morning max el  asc. node morning set  superior conj minimum elong max. Earth dist. evening rise	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52 4276 Jul 06 18:28 4276 Jul 07 15:54 4276 Jul 15 09:18 4276 Jul 15 09:18 4276 Jul 15 17:09 4276 Jul 24 17:34 4276 Jul 27 21:37 4276 Aug 08 18:26 4276 Aug 11 06:26 4276 Aug 21 18:58 4276 Aug 29 04:46 4276 Sep 05 10:59 4276 Sep 05 10:59 4276 Sep 12 18:53 4276 Sep 13 20:16 4276 Sep 27 15:44	20° II 10'09 0° II 24° II 10'07 0° A 0° A 18'21 0° A 30'19 0° A 12'38 30° R II 26° II 10'32 22° II 16'49 21° II 16'19 23° II 16'19	0.54986 AU -3°54'14 3°51'59 21°31'45 1°43'21 1°43'20 1.35036 AU	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32 4277 May 29 20:58 4277 Jun 03 05:17 4277 Jun 14 11:41 4277 Jun 16 12:47 4277 Jun 18 13:28 4277 Jun 25 13:15 4277 Jun 26 21:07 4277 Jun 04 13:04 4277 Jul 04 13:04 4277 Jul 08 07:03 4277 Jul 09 07:03 4277 Jul 21 12:45 4277 Aug 06 03:59 4277 Aug 08 16:02 4277 Aug 20 16:59 4277 Aug 20 15:19 4277 Aug 20 17:17 4277 Aug 23 09:15	18° 838'16 18° 851'38 28° 841'34 0° II 4° II 38'24 0° 9 5° 901'11 10° 931'50 10° 921'40 9° 952'48 6° 933'00 5° 947'14 2° 918'13 1° 947'55 8° 911'00 0° \( \alpha\) 4° \( \alpha\) 237 14° \( \alpha\) 51'46 29° \( \alpha\) 58'22 29° \( \alpha\) 49'27 0° ID 5° ID 39'54	-0°48'35 0°48'04 20°38'56 -2°07'37 2°05'30 0.54894 AU 23°11'53
evening rise  evening max el  desc. node retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct morning max el  asc. node morning set  superior conj minimum elong max. Earth dist. evening rise desc. node	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52 4276 Jul 06 18:28 4276 Jul 07 15:54 4276 Jul 15 09:18 4276 Jul 15 09:18 4276 Jul 15 17:09 4276 Jul 15 17:09 4276 Jul 24 17:34 4276 Jul 27 21:37 4276 Aug 08 18:26 4276 Aug 11 06:26 4276 Aug 21 18:58 4276 Aug 29 04:46 4276 Aug 29 04:58  4276 Sep 05 10:59 4276 Sep 12 18:53 4276 Sep 12 18:53 4276 Sep 12 18:53 4276 Sep 27 15:44 4276 Sep 30 05:42	20° I 10'09 0° S 24° S 10'07 0° A 0° A 18'21 0° A 30'19 0° A 12'38 30° RS 26° S 30'35 26° S 07'29 26° S 19'32 22° S 16'49 21° S 54'31 27° S 27'07 0° A 15° A 27'28 29° A 59'00 0° M 15° M 17'23 15° M 14'09 23° M 35'28 0° S 2° A 01'50 26° A 01'00 0° M	0.54986 AU -3°54'14 3°51'59 21°31'45 1°43'21 1°43'20 1.35036 AU	superior conj minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32 4277 May 29 20:58 4277 Jun 03 05:17 4277 Jun 14 11:41 4277 Jun 16 12:47 4277 Jun 18 13:28 4277 Jun 25 19:12 4277 Jun 25 13:15 4277 Jun 26 21:07 4277 Jul 04 13:04 4277 Jul 08 07:03 4277 Jul 09 07:03 4277 Jul 21 12:45 4277 Aug 06 03:59 4277 Aug 08 16:02 4277 Aug 20 16:59 4277 Aug 20 15:19 4277 Aug 20 17:17 4277 Aug 23 09:15 4277 Aug 28 08:48	18° \( \) 38'16 18° \( \) 51'38 28° \( \) 41'34 0° \( \) 4° \( \) 138'24 0° \( \) 5° \( \) 90' \( \) 110' \( \) 21'40 9° \( \) 52'48 6° \( \) 23'30'00 5° \( \) 47'14 2° \( \) 18'13 1° \( \) 47'55 8° \( \) 11'00 0° \( \) 4° \( \) 42'37 14° \( \) 51'46 29° \( \) 58'22 29° \( \) 49'27 0° \( \) 5° \( \) 39'54 15° \( \) 51'48	-0°48'35 0°48'04 20°38'56 -2°07'37 2°05'30 0.54894 AU 23°11'53
evening rise  evening max el  desc. node retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct morning max el  asc. node morning set  superior conj minimum elong max. Earth dist. evening rise desc. node	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52 4276 Jul 06 18:28 4276 Jul 07 15:54 4276 Jul 15 09:18 4276 Jul 15 09:18 4276 Jul 15 17:09 4276 Jul 24 17:34 4276 Jul 27 21:37 4276 Aug 08 18:26 4276 Aug 11 06:26 4276 Aug 21 18:58 4276 Aug 29 04:46 4276 Aug 29 04:58  4276 Sep 05 10:59 4276 Sep 09 12:51 4276 Sep 12 18:53 4276 Sep 13 20:16 4276 Sep 30 05:42 4276 Oct 19 03:13	20° II 10'09 0° II 24° II 10'07 0° A 0° A 18'21 0° A 30'19 0° A 12'38 30° R II 26° II 10'32 22° II 16'49 21° II 16'19 23° II 16'19	0.54986 AU -3°54'14 3°51'59 21°31'45 1°43'21 1°43'20 1.35036 AU	superior conj minimum elong asc. node  evening rise  evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32 4277 May 29 20:58 4277 Jun 03 05:17 4277 Jun 14 11:41 4277 Jun 16 12:47 4277 Jun 25 19:12 4277 Jun 25 13:15 4277 Jun 25 13:15 4277 Jun 26 21:07 4277 Jul 04 13:04 4277 Jul 08 07:03 4277 Jul 09 07:03 4277 Jul 21 12:45 4277 Aug 06 03:59 4277 Aug 08 16:02 4277 Aug 20 16:59 4277 Aug 20 15:19 4277 Aug 20 17:17 4277 Aug 23 09:15 4277 Aug 28 08:48 4277 Sep 04 21:07	18° 838'16 18° 851'38 28° 841'34 0° II 4° II 38'24 0° 9 5° 901'11 10° 931'50 10° 921'40 9° 952'48 6° 933'00 5° 947'14 2° 918'13 1° 947'55 8° 911'00 0° II 4° II 32'37 14° II 31'46 29° II 35'146 29° II 35'146 29° II 35'146	-0°48'35 0°48'04 20°38'56 -2°07'37 2°05'30 0.54894 AU 23°11'53
evening rise  evening max el  desc. node retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct morning max el  asc. node morning set  superior conj minimum elong max. Earth dist.  evening rise desc. node evening max el	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52 4276 Jul 06 18:28 4276 Jul 07 15:54 4276 Jul 15 09:18 4276 Jul 15 09:18 4276 Jul 15 17:09 4276 Jul 24 17:34 4276 Jul 27 21:37 4276 Aug 08 18:26 4276 Aug 11 06:26 4276 Aug 21 18:58 4276 Aug 29 04:46 4276 Aug 29 04:46 4276 Sep 05 10:59 4276 Sep 09 12:51 4276 Sep 12 18:53 4276 Sep 12 18:53 4276 Sep 12 18:53 4276 Sep 30 05:42 4276 Oct 19 03:13 4276 Oct 27 06:32	20° II 10'09 0° S 24° S 10'07 0° A 0° A 18'21 0° A 30'19 0° A 12'38 30° RS 26° S 30'35 26° S 07'29 26° S 19'32 22° S 16'49 21° S 54'31 27° S 27'07 0° A 15° A 27'28 29° A 59'00 0° M 15° M 17'23 15° M 14'09 23° M 35'28 0° S 20° A 01'00 0° M 23° M 57'39 0° X	0.54986 AU -3°54'14 3°51'59 21°31'45 1°43'21 1°43'20 1.35036 AU	superior conj minimum elong asc. node  evening rise  evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32 4277 May 29 20:58 4277 Jun 03 05:17 4277 Jun 14 11:41 4277 Jun 16 12:47 4277 Jun 25 13:15 4277 Jun 25 13:15 4277 Jun 26 21:07 4277 Jul 04 13:04 4277 Jul 08 07:03 4277 Jul 09 07:03 4277 Jul 21 12:45 4277 Aug 06 03:59 4277 Aug 08 16:02 4277 Aug 13 15:57 4277 Aug 20 16:59 4277 Aug 20 17:17 4277 Aug 23 09:15 4277 Aug 28 08:48 4277 Sep 04 21:07 4277 Sep 14 12:46	18° 838'16 18° 851'38 28° 841'34 0° II 4° II 38'24 0° 9 5° 901'11 10° 931'50 10° 921'40 9° 952'48 6° 933'00 5° 947'14 2° 918'13 1° 947'55 8° 911'00 0° Ω 4° Ω 42'37 14° Ω 51'46 29° Ω 58'22 29° Ω 49'27 0° ID 5° ID 39'54 15° ID 51'48 0° Ω 15° Ω 52'28	-0°48'35 0°48'04 20°38'56 -2°07'37 2°05'30 0.54894 AU 23°11'53 1°37'04 1°36'57 1.33653 AU
evening rise  evening max el  desc. node retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct morning max el  asc. node morning set  superior conj minimum elong max. Earth dist.  evening rise desc. node evening max el	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 21 04:11 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52 4276 Jul 06 18:28 4276 Jul 07 15:54 4276 Jul 15 09:18 4276 Jul 15 17:09 4276 Jul 15 17:09 4276 Jul 24 17:34 4276 Jul 27 21:37 4276 Aug 08 18:26 4276 Aug 11 06:26 4276 Aug 21 18:58 4276 Aug 29 04:46 4276 Aug 29 04:58  4276 Sep 05 10:59 4276 Sep 09 12:51 4276 Sep 12 18:53 4276 Sep 13 20:16 4276 Sep 30 05:42 4276 Oct 19 03:13 4276 Oct 27 06:32 4276 Nov 01 04:06	20° II 10'09 0° S 24° S 10'07 0° A 0° A 18'21 0° A 30'19 0° A 12'38 30° RS 26° S 30'35 26° S 07'29 26° S 19'32 22° S 16'49 21° S 54'31 27° S 27'07 0° A 15° A 27'28 29° A 59'00 0° M 15° M 17'23 15° M 14'09 23° M 35'28 0° S 26° A 01'00 0° M 23° M 57'39 0° A 1° X 13'22	0.54986 AU -3°54'14 3°51'59 21°31'45 1°43'21 1°43'20 1.35036 AU	superior conj minimum elong asc. node  evening rise  evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el  asc. node morning set  superior conj minimum elong max. Earth dist. evening rise desc. node	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32 4277 May 29 20:58 4277 Jun 03 05:17 4277 Jun 14 11:41 4277 Jun 16 12:47 4277 Jun 25 19:12 4277 Jun 25 13:15 4277 Jun 26 21:07 4277 Jul 08 07:03 4277 Jul 08 07:03 4277 Jul 21 12:45 4277 Aug 06 03:59 4277 Aug 08 16:02 4277 Aug 13 15:57  4277 Aug 20 16:59 4277 Aug 20 17:17 4277 Aug 20 17:17 4277 Aug 28 08:48 4277 Sep 04 21:07 4277 Sep 14 12:46 4277 Sep 24 20:28	18° \( \) 38'16 18° \( \) 551'38 28° \( \) 41'34 0° \( \) 4° \( \) 138'24 0° \( \) 5° \( \) 001'11 10° \( \) 331'50 10° \( \) 21'40 9° \( \) 52'48 6° \( \) 24'28 6° \( \) 33'00 5° \( \) 47'14 2° \( \) 18'13 1° \( \) 47'55 8° \( \) 11'00 0° \( \) 4° \( \) 42'37 14° \( \) 51'46 29° \( \) 58'22 29° \( \) 49'27 0° \( \) 5° \( \) 39'54 15° \( \) 51'48 0° \( \) 2 15° \( \) 52'28 0° \( \) 1.	-0°48'35 0°48'04 20°38'56 -2°07'37 2°05'30 0.54894 AU 23°11'53 1°37'04 1°36'57 1.33653 AU
evening rise  evening max el  desc. node retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct morning max el  asc. node morning set  superior conj minimum elong max. Earth dist.  evening rise desc. node evening max el  retrograde	4276 May 31 05:12 4276 Jun 05 01:01 4276 Jun 21 04:11 4276 Jun 30 08:25 4276 Jul 01 16:25 4276 Jul 03 22:52 4276 Jul 06 18:28 4276 Jul 07 15:54 4276 Jul 15 09:18 4276 Jul 15 17:09 4276 Jul 24 17:34 4276 Jul 27 21:37 4276 Aug 08 18:26 4276 Aug 11 06:26 4276 Aug 21 18:58 4276 Aug 29 04:46 4276 Aug 29 04:58  4276 Sep 05 10:59 4276 Sep 09 12:51 4276 Sep 12 18:53 4276 Sep 12 18:53 4276 Sep 12 18:53 4276 Sep 30 05:42 4276 Oct 19 03:13 4276 Oct 27 06:32 4276 Nov 01 04:06 4276 Nov 05 16:13	20° H 10'09 0° © 24° © 10'07 0° N 0° N 18'21 0° N 30'19 0° N 12'38 30° R © 26° © 30'35 26° © 07'29 26° © 19'32 22° © 16'49 21° © 54'31 27° © 27'07 0° N 15° N 27'28 29° N 59'00 0° M 15° M 17'23 15° M 14'09 23° M 35'28 0°	0.54986 AU -3°54'14 3°51'59 21°31'45 1°43'21 1°43'20 1.35036 AU	superior conj minimum elong asc. node  evening rise  evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el  asc. node morning set  superior conj minimum elong max. Earth dist. evening rise desc. node	4277 May 07 20:17 4277 May 07 22:54 4277 May 12 16:48 4277 May 13 07:52 4277 May 15 13:32 4277 May 29 20:58 4277 Jun 03 05:17 4277 Jun 14 11:41 4277 Jun 16 12:47 4277 Jun 25 19:12 4277 Jun 25 19:12 4277 Jun 26 21:07 4277 Jul 04 13:04 4277 Jul 08 07:03 4277 Jul 09 07:03 4277 Jul 21 12:45 4277 Aug 06 03:59 4277 Aug 08 16:02 4277 Aug 13 15:57 4277 Aug 20 16:59 4277 Aug 20 16:59 4277 Aug 20 17:17 4277 Aug 20 17:17 4277 Aug 20 09:15 4277 Aug 28 08:48 4277 Sep 04 21:07 4277 Sep 14 12:46 4277 Sep 24 20:28 4277 Oct 01 15:29	18° \( \) 38'16 18° \( \) 51'38 28° \( \) 41'34 0° \( \) 4° \( \) 138'24 0° \( \) 5° \( \) 001'11 10° \( \) 31'50 10° \( \) 21'40 9° \( \) 52'48 6° \( \) 24'28 6° \( \) 33'00 5° \( \) 47'14 2° \( \) 18'13 1° \( \) 47'55 8° \( \) 11'00 0° \( \) 4° \( \) 42'37 14° \( \) 51'46 29° \( \) 58'22 29° \( \) 49'27 0° \( \) 5° \( \) 39'54 15° \( \) 51'48 0° \( \) 2 15° \( \) 52'28 0° \( \) 15° \( \) 52'28 0° \( \) 7° \( \) 23'52	-0°48'35 0°48'04 20°38'56 -2°07'37 2°05'30 0.54894 AU 23°11'53 1°37'04 1°36'57 1.33653 AU

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evening rise	4279 Jul 27 11:55	14° <b>Ω</b> 44'08			4280 Jul 11 02:50	0° <b>N</b>	
1 1	4279 Aug 04 05:21	0° m/		Ī Ī	4280 Jul 27 14:18	0° m/y	
desc. node	4279 Aug 19 06:47	23° m 43'01		desc. node	4280 Aug 05 03:49	11° Mp 09'19	26000152
	4279 Aug 24 13:35	0° <b>∵</b>	2.050120	evening max el	4280 Aug 08 04:58	14° Mp 17'43	26°00'53
evening max el	4279 Aug 27 06:58	2° <b>£</b> 45'27	26°59'39	retrograde	4280 Aug 22 04:16	21° m/25'57	
retrograde	4279 Sep 10 04:13	9° <b>Ω</b> 56'49		evening set	4280 Aug 28 12:23	19° <b>m</b> 49'14	
evening set	4279 Sep 17 04:39	7° <b>Ω</b> 47'04		min. Earth dist.	4280 Sep 01 17:29	17° Mp 13'46	0.58806 AU
min. Earth dist.	4279 Sep 20 21:12	5° <b>≏</b> 07'16		inferior conj	4280 Sep 04 23:24	14° <b>m</b> 50'04	
inferior conj	4279 Sep 24 01:23	2° <b>£</b> 25'36	-4°21'45	minimum elong	4280 Sep 05 03:16	14° <b>m</b> 42'53	5°00'42
minimum elong	4279 Sep 24 07:20	2° <b>≏</b> 12'56	4°20'23	morning rise	4280 Sep 12 20:23	10° Mp 23′56	
	4279 Sep 27 01:33	30°R, Mp		direct	4280 Sep 15 06:40	10° Mp 04'23	
morning rise	4279 Oct 01 11:53	27° Mp 36'19		morning max el	4280 Sep 23 09:11	13° <b>m</b> 57'47	18°32'53
direct	4279 Oct 03 20:16	27° Mp 14'23		asc. node	4280 Sep 25 06:22	15° Mp 57′22	
asc. node	4279 Oct 09 09:21	29° <b>m</b> 22'13			4280 Oct 04 09:03	0∘ <b>⊽</b>	
	4279 Oct 10 03:56	0∘ <b>ত</b>		morning set	4280 Oct 09 12:39	9° <b>≏</b> 44'33	
morning max el	4279 Oct 11 01:28	0° <b>ჲ</b> 49'28	18°01'23				
morning set	4279 Oct 26 19:53	25° <b>≙</b> 44'15		superior conj	4280 Oct 18 09:12	26° <b>≏</b> 41'29	1°26'24
	4279 Oct 29 03:07	0°M		minimum elong	4280 Oct 18 12:34	26° <b>♀</b> 57'10	1°26'04
				•	4280 Oct 20 04:08	0°M	
superior conj	4279 Nov 05 20:10	13°M58'51	1°03'06	max. Earth dist.	4280 Oct 25 17:59	9° <b>™</b> 58'20	1.40034 AU
minimum elong	4279 Nov 06 00:17	14° <b>M</b> 17'01	1°02'35	evening rise	4280 Oct 29 22:59	17° <b>M</b> 09'09	
max. Earth dist.	4279 Nov 13 11:18	27°M04'18	1.42047 AU	desc. node	4280 Nov 01 03:05	20°M44'46	
desc. node	4279 Nov 15 06:03	0° <b>×</b> 01'01	1.12017110	desc. node	4280 Nov 06 22:11	0° <b>₹</b>	
dese. Hode	4279 Nov 15 05:48	0° <b>×</b> 7			4280 Nov 28 08:14	0°ਤ	
evening rise	4279 Nov 19 03:48	6° <b>∡</b> 724'24		evening max el	4280 Dec 03 19:42	6° <b>る</b> 04'09	23040128
evening rise		0 x 24 24 0°る		•		12°る28'44	23 49 28
	4279 Dec 04 18:16		22920121	retrograde	4280 Dec 14 16:35		
evening max el	4279 Dec 22 05:36	22°₹26'14	22°29'31	evening set	4280 Dec 19 20:27	10°る19'58	
retrograde	4279 Dec 31 23:35	28°る13'58		asc. node	4280 Dec 22 05:37	7°る53'13	0.67000 444
asc. node	4280 Jan 05 08:36	26°₹33′20		min. Earth dist.	4280 Dec 24 16:10	4°₹44'10	0.67900 AU
evening set	4280 Jan 05 14:41	26° <b>る</b> 21'07		inferior conj	4280 Dec 25 06:48	3° <b>る</b> 54'22	1°01'12
inferior conj	4280 Jan 10 23:17	19° <b>る</b> 59'17	1°48'24	minimum elong	4280 Dec 25 05:25	3° <b>る</b> 59'05	1°00'39
minimum elong	4280 Jan 10 21:08	20° <b>පි</b> 06'43	1°47'39		4280 Dec 28 07:58	30°₽ <b>∡</b> 7	
min. Earth dist.	4280 Jan 10 19:32	20°る12'15	0.68037 AU	morning rise	4280 Dec 30 14:23	27° <b>∡</b> ¹49'22	
morning rise	4280 Jan 16 03:29	13° <b>る</b> 49'39		direct	4281 Jan 03 15:17	26° <b>⊀</b> 17'17	
direct	4280 Jan 20 18:23	11° <b>る</b> 54'50			4281 Jan 10 18:27	0°₹	
morning max el	4280 Jan 30 00:05	17° <b>る</b> 19'50	22°02'24	morning max el	4281 Jan 11 18:30	0° <b>る</b> 57'57	20°42'47
	4280 Feb 09 09:45	0° <b>≈</b>		desc. node	4281 Jan 28 02:19	22° <b>る</b> 26'18	
desc. node	4280 Feb 11 05:18	2° <b>≈</b> 29'51			4281 Feb 02 04:07	0° <b>≈</b>	
	4280 Feb 29 14:39	0° <b>)</b> €		morning set	4281 Feb 10 02:37	12° <b>≈</b> 09'38	
morning set	4280 Mar 02 22:30	3° <b>)</b> (43′10		max. Earth dist.	4281 Feb 18 19:48	25° <b>≈</b> 59'13	1.43082 AU
max. Earth dist.	4280 Mar 08 15:03	13° <b>)</b> €03'41	1.41189 AU		4281 Feb 21 06:54	0° <b>∀</b>	
superior conj	4280 Mar 16 08:46	26° <b>)</b> €23'34	-2°01'19	superior conj	4281 Feb 25 12:45	7° <b>)</b> €02'35	-2°07'57
minimum elong	4280 Mar 16 12:27	26° <b>)</b> €39'53	2°01'08	minimum elong	4281 Feb 25 12:19	7° <b>¥</b> 00'48	2°07'56
	4280 Mar 18 09:17	0° <b>Υ</b>		evening rise	4281 Mar 09 13:32	27° <b>)</b> 53′27	
evening rise	4280 Mar 26 20:38	15° <b>Y</b> 33'33		<b>3</b>	4281 Mar 10 18:06	$0^{\circ}\Upsilon$	
asc. node	4280 Apr 02 07:54	27° <b>Υ</b> 21'56		asc. node	4281 Mar 20 04:56	16° <b>Υ</b> 08'48	
use. node	4280 Apr 03 20:34	0°8		evening max el	4281 Mar 26 14:21	24° <b>Υ</b> 32'21	18°06'49
evening max el	4280 Apr 12 02:35		18°14'54	retrograde	4281 Apr 02 03:15	27° <b>Y</b> 54'57	10 00 19
retrograde	4280 Apr 19 03:53	14° <b>8</b> 58'53	10 1434	evening set	4281 Apr 04 20:40	27° <b>Υ</b> 19'18	
evening set	4280 Apr 21 15:06	14° <b>8</b> 33'46		inferior conj	4281 Apr 11 07:05	$22^{\circ}\Upsilon 15'49$	2010/47
•	-		2°40'44	,	-	22°Υ10'24	
inferior conj	4280 Apr 28 16:24	_		minimum elong	4281 Apr 11 09:14	$19^{\circ}$ <b>Y</b> $13'12$	
minimum elong	4280 Apr 28 19:53	_		min. Earth dist.	4281 Apr 14 08:20		0.01080 AU
min. Earth dist.	4280 May 02 02:10	6° <b>8</b> 53'16	0.59497 AU	morning rise	4281 Apr 17 20:04	16° <b>Y</b> 17′02	
morning rise	4280 May 05 22:00	4° <b>8</b> 09'12		direct	4281 Apr 24 15:26	13°Υ53'13	
desc. node	4280 May 09 04:32	2° <b>8</b> 43'42		desc. node	4281 Apr 26 01:33	13° <b>Y</b> 59'07	
direct	4280 May 12 06:56	2° <b>8</b> 17'10		morning max el	4281 May 08 19:43	21° <b>Y</b> 51'57	27°51'34
morning max el	4280 May 26 15:51	10° <b>8</b> 07'02	27°25'56		4281 May 15 22:34	0° <b>8</b>	
	4280 Jun 11 00:00	$\Pi^{\circ 0}$			4281 Jun 04 02:04	$\Pi$ $^{\circ}0$	
morning set	4280 Jun 26 22:26	29° <b>Ⅱ</b> 13'19		morning set	4281 Jun 11 01:51	13° <b>Ⅱ</b> 36'35	
	4280 Jun 27 07:22	$0$ $\circ$ $\odot$		asc. node	4281 Jun 16 04:12	24° <b>Ⅱ</b> 20′52	
asc. node	4280 Jun 29 07:10	4° <b>©</b> 13'30		max. Earth dist.	4281 Jun 16 20:56	25° <b>Ⅱ</b> 51′24	1.32271 AU
max. Earth dist.	4280 Jul 03 11:34	13° <b>5</b> 20'36	1.31999 AU				
				superior conj	4281 Jun 18 11:46	29° <b>Ⅱ</b> 22'48	0°24'04
superior conj	4280 Jul 04 01:31	14° <b>5</b> 37'31	0°48'10	minimum elong	4281 Jun 18 10:40	29° <b>Ⅱ</b> 16'51	0°23'49
minimum elong	4280 Jul 03 23:36	14°9526'56	0°47'46		4281 Jun 18 18:34	$0$ $\circ$ $\odot$	
evening rise	4280 Jul 10 21:06	29° <b>5</b> 29'40		evening rise	4281 Jun 25 08:32	14° <b>©</b> 19'07	

	4201 1 1 02 04 20	00.0			4202 I 02 10 40	120 <b>T</b> 52121	0002152
	4281 Jul 03 04:30	0° <b>Ω</b>	2.102.612.0	superior conj	4282 Jun 02 18:40	13° <b>∏</b> 53'21	
evening max el	4281 Jul 20 20:05	25° <b>Ω</b> 05'45	24°36'20	minimum elong	4282 Jun 02 18:48	13° <b>Ⅱ</b> 54'07	0°02'51
desc. node	4281 Jul 23 00:50	27° <b>Ω</b> 03'52		behind sun begin	4282 Jun 02 13:32	13° <b>Ⅲ</b> 25'52	
	4281 Jul 27 06:14	0° <b>m</b> )		behind sun end	4282 Jun 03 00:05	14° <b>∏</b> 22'24	
retrograde	4281 Aug 03 17:38	2°Mp06'54		asc. node	4282 Jun 03 01:14	14° <b>Ⅱ</b> 28'38	
evening set	4281 Aug 08 19:56	1° Mp 08'32		evening rise	4282 Jun 09 20:16	29° <b>Ⅱ</b> 05'10	
	4281 Aug 11 09:03	30° <b>₹</b> Ω			4282 Jun 10 06:39	0	
min. Earth dist.	4281 Aug 14 07:17		0.56891 AU		4282 Jun 27 11:55	$0^{\circ}\Omega$	
inferior conj	4281 Aug 17 01:39	26° <b>Ω</b> 31'37	-5°11'32	evening max el	4282 Jul 02 09:12	5° <b>Ω</b> 30′09	22°59'39
minimum elong	4281 Aug 17 00:21	26° <b>Ω</b> 33'43	5°11'30	desc. node	4282 Jul 09 21:52	10° <b>Ω</b> 52'21	
morning rise	4281 Aug 25 07:18	22° <b>Ω</b> 26′53		retrograde	4282 Jul 15 18:09	12° <b>Ω</b> 10′18	
direct	4281 Aug 27 22:30	22° <b>Ω</b> 07'47		evening set	4282 Jul 19 07:55	11° <b>Ω</b> 42'24	
morning max el	4281 Sep 06 07:38	26° <b>Ω</b> 31′08	19°25'44	min. Earth dist.	4282 Jul 26 18:06	8° <b>Ω</b> 23'07	0.55466 AU
	4281 Sep 09 12:15	0° <b>m</b> )		inferior conj	4282 Jul 28 08:32	7° <b>Ω</b> 27'32	-4°37'19
asc. node	4281 Sep 12 03:25	3° <b>m</b> 33'41		minimum elong	4282 Jul 28 01:24	7° <b>Ω</b> 37'53	4°36'01
morning set	4281 Sep 23 13:48	24° Mp 08'43		morning rise	4282 Aug 05 21:07	3° <b>Ω</b> 35'54	
_	4281 Sep 26 11:44	0∘ <b>ত</b>		direct	4282 Aug 08 19:53	3° <b>Ω</b> 15′21	
	•			morning max el	4282 Aug 19 18:23	8° <b>Ω</b> 20'22	20°40'08
superior conj	4281 Oct 01 14:55	10° <b>≙</b> 13'00	1°39'33	asc. node	4282 Aug 30 00:28	21° <b>Ω</b> 56′50	
minimum elong	4281 Oct 01 16:42	10° <b>£</b> 21'45	1°39'28		4282 Sep 03 10:48	0° my	
max. Earth dist.	4281 Oct 07 22:08	22° <b>£</b> 11'31	1.37944 AU	morning set	4282 Sep 07 20:30	8° <b>m</b> ) 48'37	
evening rise	4281 Oct 11 16:22	28° <b>♀</b> 57'40	1.57911110	morning sec	.202 Sep 07 20.50	0 14 1037	
evening rise	4281 Oct 11 10:22 4281 Oct 12 06:34	0°ML		superior conj	4282 Sep 15 08:33	24° <b>m</b> 19'25	1°44'05
desc. node	4281 Oct 12 00:34 4281 Oct 19 00:07	11°ML21'08		minimum elong	4282 Sep 15 08:33 4282 Sep 15 08:43	24° m) 20'19	1°44'05
desc. Hode		0° <b>√</b>		minimum clong	4282 Sep 13 08:43 4282 Sep 18 04:03	0° <b>ʊ</b>	1 44 03
	4281 Oct 31 06:57		25007127	E d Ed			1 26011 ATT
evening max el	4281 Nov 16 08:15	19° <b>х</b> 45′55	25°06'27	max. Earth dist.	4282 Sep 20 05:46	4° <b>Ω</b> 04'55	1.36011 AU
retrograde	4281 Nov 28 05:26	26° <b>₹</b> 38'39		evening rise	4282 Sep 24 05:54	11° <b>Ω</b> 42'03	
evening set	4281 Dec 03 22:55	24° <b>х</b> 15'20			4282 Oct 04 18:59	0°M	
min. Earth dist.	4281 Dec 08 10:51	19° <b>∡</b> 13'35 −	0.67412 AU	desc. node	4282 Oct 05 21:10	1°M45'12	
asc. node	4281 Dec 09 02:39	18° <b>∡</b> ¹21'58			4282 Oct 26 12:20	0°⊀	
inferior conj	4281 Dec 09 12:14	17° <b>≯</b> 50'32	0°08'11	evening max el	4282 Oct 29 20:53	3° <b>≯</b> 28'41	26°13'05
minimum elong	4281 Dec 09 12:02	17° <b>₹</b> 751'12	0°08'06	retrograde	4282 Nov 11 13:14	10° <b>∡</b> ³38'23	
transit middle	4281 Dec 09 12:02	17° <b>₹</b> 51'12	0°08'06	evening set	4282 Nov 17 20:16	8° <b>₮</b> 03'32	
transit begin	4281 Dec 09 09:38	17° <b>∡</b> ¹59'04		min. Earth dist.	4282 Nov 22 01:10	3° <b>∡</b> ³37′10	0.66578 AU
transit end	4281 Dec 09 14:26	17° <b>∡</b> °43′20		inferior conj	4282 Nov 23 13:45	1° <b>∡</b> ¹44'29	-0°49'32
morning rise	4281 Dec 15 01:22	11° <b>∡</b> 752'21		minimum elong	4282 Nov 23 15:05	1° <b>∡</b> ¹40'22	0°48'58
direct	4281 Dec 18 13:52	10° <b>∡</b> ¹40'53			4282 Nov 25 00:17	30°RM₊	
morning max el	4281 Dec 25 20:48	14° <b>∡</b> ¹46'59	19°36'04	asc. node	4282 Nov 25 23:41	28°M53'34	
_	4282 Jan 06 12:55	ರ∘ರ		morning rise	4282 Nov 29 10:25	25°M55'46	
greatest brilliancy	4282 Jan 07 23:24	2° <b>る</b> 07'28	-0.7m	direct	4282 Dec 02 12:25	25°M01'38	
desc. node	4282 Jan 14 23:21	12° <b>る</b> 42'20		morning max el	4282 Dec 09 06:16	28°M44'14	18°44'46
morning set	4282 Jan 19 23:14	20° <b>ට</b> 23'08		C	4282 Dec 10 10:56	0° <b>∡</b> 7	
	4282 Jan 26 03:51	0° <b>≈</b>		morning set	4282 Dec 30 13:23	29° <b>₹</b> 35'52	
max. Earth dist.	4282 Feb 01 07:48	9° <b>≈</b> 41'40	1.44475 AU	morning sec	4282 Dec 30 19:31	0°る	
man Bartin Gigt.	.202100 01 07.10	y	1.117,0110	desc. node	4283 Jan 01 20:24	3° <b>る</b> 12'29	
superior conj	4282 Feb 05 15:01	16° <b>≈</b> 33'25	-1°57'15	max. Earth dist.	4283 Jan 15 01:24		1.45200 AU
minimum elong	4282 Feb 05 08:30	16°≈07'16		max. Lartii dist.	4203 Jan 13 01.24	23 03037	1.43200 AC
minimum clong	4282 Feb 13 20:47	0° <b>\</b>	1 3032	superior conj	4283 Jan 15 21:30	25° <b>る</b> 15'36	1°27'01
evening rise	4282 Feb 19 10:39	9° <b>₩</b> 19'36		minimum elong	4283 Jan 15 12:14	24° <b>ප</b> 39'13	
evening rise		9 <b>γ</b> 1930		minimum clong	4283 Jan 18 21:50	0°≈	1 20 03
1-	4282 Mar 04 00:34	4° <b>Υ</b> 18'58				0 ≈ 19°≈48'58	
asc. node	4282 Mar 07 01:58	7° <b>Υ</b> 52'09	10017141	evening rise	4283 Jan 31 08:52	19 <b>≈</b> 48 38	
evening max el	4282 Mar 10 03:10		18°17'41	4 41 711	4283 Feb 06 16:50		0.0
retrograde	4282 Mar 16 13:33	11° <b>Y</b> 19′09		greatest brilliancy	4283 Feb 07 11:11	1° <b>)</b> 13′26	-0.9m
evening set	4282 Mar 19 13:00	10° <b>℃</b> 31'41		evening max el	4283 Feb 21 14:22	21° <b>H</b> 20'16	18°46'36
inferior conj	4282 Mar 25 12:26	5° <b>Y</b> ′09'07	3°35'01	asc. node	4283 Feb 21 23:00	21° <b>)</b> 41'48	
minimum elong	4282 Mar 25 12:52	5° <b>Y</b> 07'54	3°34'59	retrograde	4283 Feb 28 06:53	25° <b>)</b> €03'54	
min. Earth dist.	4282 Mar 27 23:33	2° <b>Y</b> 23′27	0.63701 AU	evening set	4283 Mar 03 12:42	24° <b>)</b> €03'43	
	4282 Mar 30 08:21	30° <b>₹</b> ₩		inferior conj	4283 Mar 09 04:37		3°32'13
morning rise	4282 Mar 31 11:49	29° <b>∺</b> 01'04		minimum elong	4283 Mar 09 03:35	18° <b>¥</b> 26'45	3°32'08
direct	4282 Apr 07 08:38	26° <b>∺</b> 16'47		min. Earth dist.	4283 Mar 11 00:01	16° <b>∺</b> 10′16	0.65384 AU
desc. node	4282 Apr 12 22:36	27° <b>)</b> 48′34		morning rise	4283 Mar 14 18:03	12° <b>)</b> 11′08	
	4282 Apr 16 08:40	$0^{\circ}\Upsilon$		direct	4283 Mar 21 08:50	9° <b>∺</b> 20'35	
morning max el	4282 Apr 21 03:49	4° <b>Ƴ</b> 14'50	27°39'48	desc. node	4283 Mar 30 19:37	13° <b>)</b> 40′05	
	4282 May 10 12:29	$9^{\circ}$ 8		morning max el	4283 Apr 03 13:43	17° <b>)</b> €06'48	26°55'12
morning set	4282 May 25 22:11	27° <b>8</b> 35'15			4283 Apr 14 07:24	$0^{\circ}\Upsilon$	
	4282 May 27 03:06	$\Pi^{\circ}0$			4283 May 03 09:30	$9^{\circ}$ 8	
max. Earth dist.	4282 May 31 00:04	7° <b>Ⅱ</b> 59'23	1.32979 AU	morning set	4283 May 09 08:25	11° <b>8</b> 00'23	
	-			-	-		

max. Earth dist.	4283 May 13 17:32	19° <b>8</b> 37'03	1.34151 AU		4284 Apr 24 13:45	0°8	
mun Burur utov.	.203 May 13 17.32	15 057 05	1.5 1.61 1.10	max. Earth dist.	4284 Apr 24 23:43	0° <b>8</b> 47'27	1.35774 AU
superior conj	4283 May 17 20:09	28° <b>8</b> 03'08	-0°31'39		•		
minimum elong	4283 May 17 21:49	28° <b>8</b> 11'52	0°31'18	superior conj	4284 Apr 30 13:35	11° <b>8</b> 44'34	-1°00'56
	4283 May 18 18:29	$\Pi^{\circ}0$		minimum elong	4284 Apr 30 16:53	12° <b>8</b> 01'08	1°00'21
asc. node	4283 May 20 22:18	4° <b>Ⅲ</b> 33′01		asc. node	4284 May 06 19:21	24° <b>8</b> 29'46	
evening rise	4283 May 25 06:27	13° <b>Ⅱ</b> 41′58		evening rise	4284 May 08 12:58	28° <b>8</b> 02'57	
	4283 Jun 02 14:39	$0$ $\circ$ $\odot$			4284 May 09 11:59	$\Pi$ $^{\circ}0$	
evening max el	4283 Jun 14 04:05	16° <b>©</b> 03'16	21°26'17	evening max el	4284 May 26 10:18	27° <b>I</b> 10'23	20°07'24
retrograde	4283 Jun 26 08:21	22° <b>©</b> 03'13			4284 May 29 21:09	$0$ $\circ$ $\odot$	
desc. node	4283 Jun 26 18:53	22°502'46		retrograde	4284 Jun 05 22:42	2°5518'24	
evening set	4283 Jun 28 18:02	21° <b>©</b> 50'00		evening set	4284 Jun 07 21:31	2° <b>©</b> 08'34	
inferior conj	4283 Jul 08 03:02	17° <b>©</b> 50'18	-3°12'44	desc. node	4284 Jun 12 15:53	0° <b>©</b> 32'14	
minimum elong	4283 Jul 07 18:50	18° <b>©</b> 01'45	3°10'12		4284 Jun 13 17:23	30°RⅡ	
min. Earth dist.	4283 Jul 08 04:41	17° <b>©</b> 47'59	0.54837 AU	inferior conj	4284 Jun 16 22:52	28° <b>Ⅲ</b> 09'18	-1°16'27
morning rise	4283 Jul 16 20:28	13° <b>©</b> 55'42		minimum elong	4284 Jun 16 19:17	28° <b>Ⅱ</b> 14'39	1°15'08
direct	4283 Jul 20 05:56	13° <b>©</b> 30'44		min. Earth dist.	4284 Jun 18 17:01	27° <b>Ⅱ</b> 06'32	0.55158 AU
morning max el	4283 Aug 01 17:36	19° <b>©</b> 24'37	22°13'09	morning rise	4284 Jun 25 15:30	23° <b>Ⅲ</b> 51′18	
	4283 Aug 10 10:04	$0^{\circ}\Omega$		direct	4284 Jun 29 17:31	23° <b>Ⅱ</b> 15′04	
asc. node	4283 Aug 16 21:31	10° <b>Ω</b> 55'38			4284 Jul 13 10:42	$0$ $\circ$ $\odot$	
morning set	4283 Aug 23 06:34	23° <b>Ω</b> 38′15		morning max el	4284 Jul 13 09:18	29° <b>Ⅱ</b> 56'41	23°56'15
	4283 Aug 26 06:45	O° Mp		asc. node	4284 Aug 02 18:35	0° <b>Ω</b> 21'06	
					4284 Aug 02 14:20	$0^{\circ}\Omega$	
superior conj	4283 Aug 30 10:27	8° Mp 50'06	1°41'24	morning set	4284 Aug 06 18:13	8° <b>Ω</b> 32'24	
minimum elong	4283 Aug 30 09:20	8°Mp44'12	1°41'21				
max. Earth dist.	4283 Sep 02 21:17	16° <b>m</b> 01'44	1.34401 AU	superior conj	4284 Aug 13 17:49	23° <b>Ω</b> 36'41	1°32'42
evening rise	4283 Sep 07 11:12	25°M 10'59		minimum elong	4284 Aug 13 15:52	23° <b>Ω</b> 26′05	1°32'30
	4283 Sep 09 23:45	0∘ <b>⊽</b>		max. Earth dist.	4284 Aug 15 21:34	28° <b>Ω</b> 14'56	1.33189 AU
desc. node	4283 Sep 22 18:12	21° <b>≏</b> 50'44			4284 Aug 16 17:19	o° my	
	4283 Sep 28 06:15	$0^{\circ}$ M		evening rise	4284 Aug 21 04:16	9° <b>m</b> 13'44	
evening max el	4283 Oct 12 09:34	17° <b>M</b> 03'47	27°01'45		4284 Sep 01 09:10	0∘ <b>⊽</b>	
retrograde	4283 Oct 25 15:21	24°M20'44		desc. node	4284 Sep 08 15:13	11° <b>≏</b> 29'50	
evening set	4283 Nov 01 10:21	21°M39'49			4284 Sep 23 12:37	$0^{\circ}$ M	
min. Earth dist.	4283 Nov 05 08:40	17° <b>M</b> 49'16	0.65397 AU	evening max el	4284 Sep 23 21:04	0°M20'13	27°25'27
inferior conj	4283 Nov 07 09:10	15°M31'24	-1°50'32	retrograde	4284 Oct 07 11:30	7° <b>M</b> 37'49	
minimum elong	4283 Nov 07 12:17	15°M22'31	1°49'16	evening set	4284 Oct 14 14:27	4°M59'30	
asc. node	4283 Nov 12 20:45	10°M20'40		min. Earth dist.	4284 Oct 18 07:17	1° <b>M</b> 42'40	0.63871 AU
morning rise	4283 Nov 13 15:09	9° <b>™</b> 55'14			4284 Oct 19 23:19	30° <b>Ŗ</b> Ω	
direct	4283 Nov 16 08:49	9° <b>M</b> 14'42		inferior conj	4284 Oct 20 20:02	29° <b>ჲ</b> 06'15	-2°52'29
morning max el	4283 Nov 22 20:43	12°M43'59	18°09'54	minimum elong	4284 Oct 21 00:54	28° <b>ჲ</b> 53'42	2°50'44
	4283 Dec 05 01:51	0° <b>∡</b>		morning rise	4284 Oct 27 12:42	23° <b>≏</b> 45'51	
morning set	4283 Dec 11 08:37	10° <b>⊀</b> 16′21		asc. node	4284 Oct 29 17:47	23° <b>ჲ</b> 15'36	
desc. node	4283 Dec 19 17:26	23° <b>尽</b> 51'46		direct	4284 Oct 30 00:26	23° <b>≏</b> 15'12	
	4283 Dec 23 13:37	0°ප		morning max el	4284 Nov 05 13:24	26° <b>≏</b> 40'16	17°52'11
					4284 Nov 08 10:43	0°M	
superior conj	4283 Dec 26 01:37	3° <b>る</b> 57'45	-0°42'39	morning set	4284 Nov 22 07:04	22°M16'12	
minimum elong	4283 Dec 25 20:16	3° <b>る</b> 36'37	0°41'54		4284 Nov 26 19:34	0° <b>∡</b>	
max. Earth dist.	4283 Dec 28 21:04	8° <b>පි</b> 23'33	1.45181 AU				
evening rise	4284 Jan 11 09:05	29° <b>る</b> 27'23		superior conj	4284 Dec 04 23:14	13° <b>∡</b> ³34'47	0°04'26
	4284 Jan 11 17:29	0° <b>≈</b>		minimum elong	4284 Dec 04 23:44	13° <b>∡</b> ³36'48	0°04'22
greatest brilliancy	4284 Jan 23 20:31	18° <b>≈</b> 40′29	-0.7m	behind sun begin	4284 Dec 04 14:10	12° <b>∡</b> 57'44	
	4284 Jan 31 18:51	0° <b>∀</b>		behind sun end	4284 Dec 05 09:17	14° <b>∡</b> 15'47	
evening max el	4284 Feb 04 21:44	4° <b>∺</b> 51'19	19°32'22	desc. node	4284 Dec 05 14:28	14° <b>∡</b> ³36′53	
asc. node	4284 Feb 08 20:03	8° <b>∺</b> 03′18		max. Earth dist.	4284 Dec 10 15:22	22° <b>∡</b> ⁴43'11	1.44436 AU
retrograde	4284 Feb 12 03:58	9° <b>∺</b> 02'14			4284 Dec 15 06:08	8°0	
evening set	4284 Feb 15 17:05	7° <b>)</b> 48'32		evening rise	4284 Dec 20 19:53	8° <b>そ</b> 38'28	
inferior conj	4284 Feb 21 04:17	1° <b>¥</b> 52'55			4285 Jan 04 00:18	0° <b>≈</b>	
minimum elong	4284 Feb 21 02:18	1° <b>¥</b> 59′27		evening max el	4285 Jan 17 23:54	18° <b>≈</b> 23'31	20°32'54
min. Earth dist.	4284 Feb 22 08:42	0° <b>∺</b> 19'39	0.66652 AU	asc. node	4285 Jan 25 17:04	23° <b>≈</b> 08'52	
	4284 Feb 22 14:46	30° <b>R</b> ≈		retrograde	4285 Jan 26 02:12	23° <b>≈</b> 09'39	
morning rise	4284 Feb 26 11:17	25° <b>≈</b> 38'52		evening set	4285 Jan 30 00:01	21° <b>≈</b> 41'34	
direct	4284 Mar 03 15:01	22°≈54'32		inferior conj	4285 Feb 04 08:48	15° <b>≈</b> 33'12	
	4284 Mar 15 17:00	0° <b>∀</b>		minimum elong	4285 Feb 04 06:23	15° <b>≈</b> 41'30	
morning max el	4284 Mar 15 23:17	0° <b>)</b> 15'48	25°45'47	min. Earth dist.	4285 Feb 04 23:45	14° <b>≈</b> 42′07	0.67498 AU
desc. node	4284 Mar 16 16:39	1° <b>∺</b> 00′21		morning rise	4285 Feb 09 12:32	9° <b>≈</b> 19'23	
	4284 Apr 07 05:52	0° <b>Υ</b>		direct	4285 Feb 15 02:32	6° <b>≈</b> 50′26	
morning set	4284 Apr 21 04:25	23° <b>Y</b> 40'11		morning max el	4285 Feb 26 07:57	13° <b>≈</b> 32'54	24°21'22

desc. node	4285 Mar 03 13:40	19° <b>≈</b> 24'14		desc. node	4286 Feb 18 10:42	8° <b>≈</b> 33'34	
	4285 Mar 11 15:58	0° <b>∀</b>			4286 Mar 05 06:43	0° <b>∀</b>	
	4285 Mar 31 02:14	$0$ ° $\mathbf{\gamma}$		morning set	4286 Mar 15 03:15	15° <b>)</b> 43′18	
morning set	4285 Apr 03 04:43	5° <b>Ƴ</b> 19'48		max. Earth dist.	4286 Mar 19 16:01	23° <b>∺</b> 21'37	1.39952 AU
max. Earth dist.	4285 Apr 06 20:54	11° <b>Y</b> 50'57	1.37771 AU		4286 Mar 23 11:25	$\mathbf{\gamma}_{0}$	
		••				••	
superior conj	4285 Apr 13 19:41	24° <b>Y</b> 49'06		superior conj	4286 Mar 27 10:15	7° <b>℃</b> 06'31	
minimum elong	4285 Apr 14 00:14	25° <b>Y</b> 11′02	1°28'02	minimum elong	4286 Mar 27 14:53	7° <b>Y</b> 27'43	1°51'22
	4285 Apr 16 11:42	0° <b>8</b>		evening rise	4286 Apr 06 04:34	25° <b>Y</b> 27'54	
evening rise	4285 Apr 22 13:21	12° <b>8</b> 00'53			4286 Apr 08 13:55	0°8	
asc. node	4285 Apr 23 16:23	14° <b>8</b> 14'16		asc. node	4286 Apr 10 13:24	3° <b>8</b> 41'36	
	4285 May 02 07:27	$\Pi$ $\circ 0$		evening max el	4286 Apr 22 08:33	21° <b>8</b> 26'00	18°28'31
evening max el	4285 May 09 04:38	8° <b>Ⅱ</b> 59'29	19°07'47	retrograde	4286 Apr 29 22:03	25° <b>8</b> 10'03	
retrograde	4285 May 18 01:06	13° <b>Ⅱ</b> 18'31		evening set	4286 May 02 05:28	24° <b>8</b> 50'14	
evening set	4285 May 20 01:56	13° <b>Ⅱ</b> 05'48		inferior conj	4286 May 09 17:08	20° <b>8</b> 19'08	2°04'52
inferior conj	4285 May 28 09:26	8° <b>Ⅱ</b> 54'01	0°37'23	minimum elong	4286 May 09 20:43	20° <b>8</b> 11'58	2°03'50
minimum elong	4285 May 28 10:56	8° <b>Ⅱ</b> 51'27	0°36'51	min. Earth dist.	4286 May 13 03:23	17° <b>8</b> 36'22	0.58265 AU
desc. node	4285 May 30 12:54	7° <b>Ⅱ</b> 26′08		morning rise	4286 May 17 08:50	14° <b>8</b> 53'00	
min. Earth dist.	4285 May 31 08:12	6° <b>Ⅱ</b> 54'00	0.56386 AU	desc. node	4286 May 17 09:54	14° <b>8</b> 51'39	
morning rise	4285 Jun 05 16:46	4° <b>Ⅱ</b> 00'39		direct	4286 May 23 08:03	13° <b>8</b> 20'57	
direct	4285 Jun 10 17:32	3° <b>Ⅱ</b> 01'30		morning max el	4286 Jun 06 17:20	21° <b>8</b> 02'24	26°54'20
morning max el	4285 Jun 24 23:27	10° <b>Ⅲ</b> 20′10	25°35'16		4286 Jun 14 11:49	$\Pi^{\circ}0$	
-	4285 Jul 09 21:49	0ංම			4286 Jul 02 15:32	0ංම	
asc. node	4285 Jul 20 15:37	20° <b>©</b> 05'09		morning set	4286 Jul 06 15:31	8°510'18	
morning set	4285 Jul 22 05:44	23° <b>©</b> 24'46		asc. node	4286 Jul 07 12:40	10° <b>©</b> 02'05	
C	4285 Jul 25 07:13	$0^{\circ}\Omega$					
				superior conj	4286 Jul 13 16:08	23°525'48	1°00'31
superior conj	4285 Jul 29 04:21	8° <b>Ω</b> 30'39	1°18'50	minimum elong	4286 Jul 13 13:56	23° <b>©</b> 13'40	1°00'07
minimum elong	4285 Jul 29 02:02	8° <b>Ω</b> 17'55		max. Earth dist.	4286 Jul 13 15:47	23° <b>©</b> 23'50	1.32033 AU
max. Earth dist.	4285 Jul 30 04:46	10° <b>Ω</b> 44'31	1.32400 AU		4286 Jul 16 15:45	0°N	
evening rise	4285 Aug 05 05:39	23° <b>£</b> 39'33		evening rise	4286 Jul 20 12:41	8° <b>Ω</b> 20'19	
evening rise	4285 Aug 08 08:44	0° mp		evening rise	4286 Jul 31 18:51	0° m)	
	4285 Aug 26 03:23	0∘ <b>ಹ</b>		desc. node	4286 Aug 13 09:13	18° <b>m</b> )37'19	
desc. node	4285 Aug 26 12:13	ი∘ <b>ჲ</b> 30'35		evening max el	4286 Aug 19 07:47	25° m 05'51	26°38'25
evening max el	4285 Sep 06 05:16	13° <b>⊆</b> 04'36	27°18'39	evening max er	4286 Aug 25 16:52	0° <b>ರ</b>	20 30 23
retrograde	4285 Sep 20 01:01	20° <b>⊆</b> 19'07	27 1037	retrograde	4286 Sep 02 06:28	° <b>⊆</b> 15'52	
evening set	4285 Sep 27 04:58	17° <b>£</b> 55'14		evening set	4286 Sep 09 01:22	0° <b>£</b> 19'17	
min. Earth dist.	4285 Sep 30 19:40		0.62035 AU	evening set	4286 Sep 09 14:42	30°RMD	
inferior conj	4285 Oct 03 19:19	13° <b>⊆</b> 0311		min. Earth dist.	4286 Sep 12 21:38		0.60000 AU
minimum elong	4285 Oct 04 01:17	12 <b>=</b> 21 02 12° <b>⊆</b> 07'19		inferior conj	4286 Sep 16 03:36	25° Mp 06'59	
morning rise	4285 Oct 10 23:23	7° <b>£</b> 19'32	3 49 30	minimum elong	4286 Sep 16 09:02	24° M) 56'03	
direct	4285 Oct 10 23:25 4285 Oct 13 07:56	6° <b>£</b> 55'24		morning rise	4286 Sep 23 18:45	20° m) 27'08	4 40 03
asc. node	4285 Oct 16 14:49	0 <b>=</b> 33 24 7° <b>£</b> 43'59		direct	4286 Sep 26 03:25	20° m) 06'33	
morning max el	4285 Oct 10 14.49 4285 Oct 20 05:09		17°52'30	asc. node	4286 Sep 26 03.23 4286 Oct 03 11:52	20 m/ 36'56	
morning max er	4285 Nov 02 04:15	10° <b>£</b> 24'39 0° <b>™</b>	17 32 30	morning max el	4286 Oct 03 11:32 4286 Oct 03 16:43	23° Mp 48'33	18°12'09
mamina aat	4285 Nov 05 02:25	5°M15'36		morning max er	4286 Oct 03 10:43 4286 Oct 08 17:01	0° <b>౮</b>	18 12 09
morning set	4283 NOV 03 02.23	3 1161330		marning aat		0 <b>≗</b> 18° <b>£</b> 57'39	
superior coni	4205 Nov. 15, 22-10	240m 20156	0°44'42	morning set	4286 Oct 19 12:46	0° <b>M</b>	
superior conj minimum elong	4285 Nov 15 23:10 4285 Nov 16 02:50	24°M28'56 24°M44'41	0°44'42 0°44'11		4286 Oct 25 09:45	U IIIG	
minimum elong			0 44 11		1206 0-4 20 00-05	60 <b>m</b> 25145	1014!10
daga == -1-	4285 Nov 19 05:18	0°⊀ <b>7</b> 5°∗ <b>7</b> 24'04		superior conj	4286 Oct 29 00:05	6°M35'45	1°14'18
desc. node	4285 Nov 22 11:29	5° 🖈 24'04	1 42050 ATT	minimum elong	4286 Oct 29 04:04	6°M53'41	1°13'51
max. Earth dist.	4285 Nov 23 05:36	6° <b>₹</b> 38'05	1.43059 AU	max. Earth dist.	4286 Nov 05 14:59	19°M56'43	1.41221 AU
evening rise	4285 Nov 30 08:39	18° <b>₹</b> '00'47		desc. node	4286 Nov 09 08:31	26°M10'01	
	4285 Dec 08 04:24	ව°0 0°		evening rise	4286 Nov 10 13:59	28°M10'23	
	4285 Dec 30 00:46	0° <b>≈</b>			4286 Nov 11 17:05	0° <b>∡</b> ¹	
evening max el	4285 Dec 31 20:35	1°≈57'04	21~44'55		4286 Dec 01 19:38	0°る	22002125
retrograde	4286 Jan 09 23:32	7°≈22'31		evening max el	4286 Dec 14 12:44	15° <b>る</b> 33'22	25°03'38
asc. node	4286 Jan 12 14:05	6°≈45'55		retrograde	4286 Dec 24 18:19	21°る37'14	
evening set	4286 Jan 14 07:45	5°≈39'04		evening set	4286 Dec 29 14:40	19°る37'48	
	4286 Jan 19 04:47	30°₹る 30°₹る	2012:2	asc. node	4286 Dec 30 11:06	18°る51'27	1000::0
inferior conj	4286 Jan 19 15:59	29° <b>る</b> 21'12		inferior conj	4287 Jan 03 23:52	13° <b>る</b> 14'04	1°29'10
minimum elong	4286 Jan 19 13:36			minimum elong	4287 Jan 03 22:00	13° <b>る</b> 20'32	1°28'28
min. Earth dist.	4286 Jan 19 18:50	29° <b>る</b> 11'17	0.67944 AU	min. Earth dist.	4287 Jan 03 15:32	13° <b>る</b> 42'48	0.68020 AU
morning rise	4286 Jan 24 19:15	23° <b>ප</b> 09'24		morning rise	4287 Jan 09 05:13	7° <b>ろ</b> 06'03	
direct	4286 Jan 29 18:35	21° <b>る</b> 01'14		direct	4287 Jan 13 14:06	5° <b>る</b> 20'48	
morning max el	4286 Feb 08 17:32	26° <b>る</b> 55'13	22°52'12	morning max el	4287 Jan 22 07:42	10° <b>る</b> 25'45	21°27'10
	4286 Feb 11 14:07	0° <b>≈</b>		desc. node	4287 Feb 05 07:43	28° <b>る</b> 15'17	

	4287 Feb 06 12:55	0° <b>≈</b>			4288 Jan 10 06:49	ರ°0	
morning set	4287 Feb 22 20:52	24°≈44'35		desc. node	4288 Jan 23 04:47	18° <b>る</b> 20'59	
	4287 Feb 26 03:48	0° <b>∀</b>			4288 Jan 30 20:58	0°≈	
max. Earth dist.	4287 Mar 01 16:35	5° <b>)</b> 45'37	1.42040 AU	morning set	4288 Feb 01 18:43	2° <b>≈</b> 56'17	
				max. Earth dist.	4288 Feb 12 01:14	19° <b>≈</b> 05'09	1.43753 AU
superior conj	4287 Mar 09 04:12	18° <b>)</b> 24′07	-2°05'57				
minimum elong	4287 Mar 09 06:32	18° <b>)</b> 34′12	2°05'52	superior conj	4288 Feb 17 21:12	28° <b>≈</b> 33'17	-2°05'47
-	4287 Mar 15 17:46	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	4288 Feb 17 18:13	28° <b>≈</b> 20'59	2°05'41
evening rise	4287 Mar 20 06:47	8° <b>Ƴ</b> 14'15		•	4288 Feb 18 18:14	0° <b>)</b> €	
asc. node	4287 Mar 28 10:26	22° <b>Y</b> 44'58		evening rise	4288 Mar 01 15:47	20° <b>)</b> 11′59	
	4287 Apr 02 03:07	$8^{\circ}$ 0			4288 Mar 07 07:48	$0^{\circ}\Upsilon$	
evening max el	4287 Apr 05 18:25	4° <b>8</b> 19'28	18°09'10	asc. node	4288 Mar 14 07:27	11° <b>Y</b> 16'58	
retrograde	4287 Apr 12 12:54	7° <b>8</b> 45'18		evening max el	4288 Mar 19 06:57	17° <b>Y</b> 31'16	18°09'07
evening set	4287 Apr 15 02:59	7° <b>8</b> 15'44		retrograde	4288 Mar 25 17:34	20° <b>Y</b> 54'11	
inferior conj	4287 Apr 21 21:26	2° <b>8</b> 23'41	3°00'36	evening set	4288 Mar 28 13:36	20° <b>Ƴ</b> 13'30	
minimum elong	4287 Apr 22 00:29	2° <b>8</b> 16'36	3°00'00	inferior conj	4288 Apr 03 18:51	15° <b>Y</b> 01'23	3°28'47
	4287 Apr 24 11:19	30° <b>ŖƳ</b>		minimum elong	4288 Apr 03 20:16	14° <b>Y</b> 57'37	3°28'39
min. Earth dist.	4287 Apr 25 04:36	29° <b>Ƴ</b> 21'24	0.60435 AU	min. Earth dist.	4288 Apr 06 14:19	12° <b>Y</b> 03′56	0.62574 AU
morning rise	4287 Apr 28 19:45	26° <b>Ƴ</b> 34'11		morning rise	4288 Apr 10 01:37	8° <b>Ƴ</b> 57'52	
desc. node	4287 May 04 06:56	24° <b>Ƴ</b> 31'26		direct	4288 Apr 16 22:31	6° <b>Y</b> 24'06	
direct	4287 May 05 10:27	24° <b>Ƴ</b> 27'42		desc. node	4288 Apr 20 03:59	6° <b>Ƴ</b> 54'41	
	4287 May 17 04:23	$9^{\circ}$ 8		morning max el	4288 Apr 30 23:31	14° <b>Y</b> 23'05	27°51'03
morning max el	4287 May 19 17:28	2° <b>8</b> 21'30	27°41'26		4288 May 13 14:30	$9^{\circ}$ 8	
	4287 Jun 08 21:19	$\Pi^{\circ}0$			4288 May 31 10:16	$\Pi$ $^{\circ}0$	
morning set	4287 Jun 20 21:50	22° <b>Ⅱ</b> 43'01		morning set	4288 Jun 03 22:34	6° <b>Ⅱ</b> 56′21	
asc. node	4287 Jun 24 09:43	0° <b>©</b> 06'32		max. Earth dist.	4288 Jun 09 10:24	18° <b>Ⅱ</b> 24'41	1.32521 AU
	4287 Jun 24 08:30	$0$ $\circ$		asc. node	4288 Jun 10 06:46	20° <b>Ⅱ</b> 14′09	
max. Earth dist.	4287 Jun 27 03:00	6° <b>5</b> 01'40	1.32070 AU				
				superior conj	4288 Jun 11 12:29	22° <b>Ⅱ</b> 55′01	0°12'57
superior conj	4287 Jun 28 03:26	8° <b>©</b> 15'51	0°38'20	minimum elong	4288 Jun 11 11:53	22° <b>∏</b> 51'42	0°12'49
minimum elong	4287 Jun 28 01:49	8° <b>©</b> 06'57	0°38'00	behind sun begin	4288 Jun 11 08:46	22° <b>∏</b> 34'49	
evening rise	4287 Jul 04 23:05	23°908'20		behind sun end	4288 Jun 11 14:59	23° <b>Ⅱ</b> 08'35	
	4287 Jul 08 06:14	$0^{\circ}\Omega$			4288 Jun 14 18:30	$0_{\circ}$ වෙ	
	4287 Jul 26 09:46	0° <b>т</b> р		evening rise	4288 Jun 18 10:53	7° <b>©</b> 56'49	
desc. node	4287 Jul 31 06:14	5°Mp28'11			4288 Jun 29 22:26	$0^{\circ}\Omega$	
evening max el	4287 Aug 01 02:52	6° Mp 18′38	25°27'22	evening max el	4288 Jul 12 16:09	16° <b>Ω</b> 52'19	23°55'38
retrograde	4287 Aug 15 01:55	13° <b>m</b> 23'47		desc. node	4288 Jul 17 03:16	20° <b>Ω</b> 33'25	
evening set	4287 Aug 20 22:56	12° <b>m</b> 03'39		retrograde	4288 Jul 26 09:43	23° <b>Ω</b> 46'47	
min. Earth dist.	4287 Aug 25 14:43	9° <b>m</b> 24'06		evening set	4288 Jul 30 20:50	23° <b>Ω</b> 02'48	
inferior conj	4287 Aug 28 17:30	7° Mp 14'17		min. Earth dist.	4288 Aug 06 02:27		0.56208 AU
minimum elong	4287 Aug 28 19:31	7° <b>m</b> 10'46	5°09'56	inferior conj	4288 Aug 08 11:07	18° <b>Ω</b> 35'36	
morning rise	4287 Sep 05 18:22	2° m 57'28		minimum elong	4288 Aug 08 07:06	18° <b>Ω</b> 41'44	5°02'52
direct	4287 Sep 08 06:34	2° m/38'09	10052120	morning rise	4288 Aug 16 19:57	14° <b>Ω</b> 38'18	
morning max el	4287 Sep 16 20:48	6° Mp 42'47	18°52'39	direct	4288 Aug 19 14:13	14° <b>Ω</b> 18'46	10054152
asc. node	4287 Sep 20 08:55	10° m 39'50		morning max el	4288 Aug 29 14:27	18° <b>£</b> 57'54	19°54'53
	4287 Oct 01 18:43	0∘ <b>⊽</b>		asc. node	4288 Sep 06 05:59	28° <b>Ω</b> 37'29	
morning set	4287 Oct 03 09:34	3° <b>ჲ</b> 09'43		marning act	4288 Sep 07 02:37	0°Mp	
superior conj	4287 Oct 11 20:54	19° <b>≏</b> 41'10	1°33'07	morning set	4288 Sep 16 13:23 4288 Sep 22 14:32	17° Mp41'33 0° <u> </u>	
minimum elong	4287 Oct 11 20:34 4287 Oct 11 23:38				7200 Sep 22 14.32	U ==	
minimum eiong	4287 Oct 11 23:38 4287 Oct 17 10:12	19° <b>32</b> 3412 0° <b>M</b>	1 3433	superior conj	4288 Sep 24 08:13	ვ° <b>ჲ</b> 29'15	1042126
max. Earth dist.	4287 Oct 17 10.12 4287 Oct 18 20:39	2°M34'31	1.39145 AU	minimum elong	4288 Sep 24 09:18	3° <b>£</b> 2913	1°42'24
evening rise	4287 Oct 18 20:39 4287 Oct 22 18:18	9°M23'02	1.39143 AU	max. Earth dist.	4288 Sep 30 01:50	14° <b>£</b> 37'20	1.37089 AU
desc. node	4287 Oct 22 18:18 4287 Oct 27 05:33	16°M51'18		evening rise	4288 Oct 03 20:44	21° <b>£</b> 36'18	1.57007 AU
desc. Hode	4287 Nov 04 14:41	10 ll <b>c</b> 31 18		evening rise	4288 Oct 03 20:44 4288 Oct 08 15:43	0°M	
evening max el	4287 Nov 04 14.41 4287 Nov 27 02:07	29° <b>₹</b> 13'49	24°23'02	desc. node	4288 Oct 08 13:43 4288 Oct 13 02:35	7°M22'59	
Croning max of	4287 Nov 27 02:07 4287 Nov 27 21:08	29×1349	2. 23.02	desc. Houe	4288 Oct 13 02:33 4288 Oct 28 12:15	0° <b>×</b> 7	
retrograde	4287 Dec 08 09:32	5° <b>る</b> 50'50		evening max el	4288 Nov 08 14:26	12° <b>∡</b> 56'01	25°36'25
evening set	4287 Dec 13 19:14	3° <b>る</b> 35'35		retrograde	4288 Nov 20 20:16	19° <b>х</b> 57'24	
asc. node	4287 Dec 13 13:14 4287 Dec 17 08:08	29° <b>х</b> 44'13		evening set	4288 Nov 26 19:46	17° 🗷 28'20	
300. 110 <b>u</b> 0	4287 Dec 17 03:08 4287 Dec 17 03:10	30°R. <b>₹</b>		min. Earth dist.	4288 Dec 01 04:32	17 × 2020 12° × 41'49	0.67104 AU
min. Earth dist.	4287 Dec 17 03:10 4287 Dec 18 11:32	28° 🖈 14'21	0.67739 AU	inferior conj	4288 Dec 02 10:43	11°×705'24	
inferior conj	4287 Dec 19 06:44	27°×10'01	0°39'23	minimum elong	4288 Dec 02 11:08	11°× 03'2'	
minimum elong	4287 Dec 19 05:47	27°×13'09	0°39'00	transit middle	4288 Dec 02 11:08	11° <b>₹</b> 04'05	0°15'37
morning rise	4287 Dec 24 16:25	21° <b>×</b> <sup>7</sup> 07'49		transit begin	4288 Dec 02 10:24	11° <b>₹</b> 06'23	
direct	4287 Dec 28 11:56	19° <b>х</b> 44'44		transit end	4288 Dec 02 11:51	11° <b>×</b> 00 <b>2</b> 3	
morning max el	4288 Jan 05 05:28	24° <b>∡</b> *08'49	20°12'41	asc. node	4288 Dec 03 05:11	10° <b>∡</b> 06'47	
Č							

marning rise	4288 Dec 08 02:51	5° <b>∡</b> 11'12		avanina aat	4289 Nov 10 14:19	1° <b>∡</b> 12'15	
morning rise				evening set			
direct	4288 Dec 11 10:36	4°×707'41	10010110	1 m at 11 a	4289 Nov 11 22:30	30°RM.	0.66100.177
morning max el	4288 Dec 18 11:07	8° <b>∡</b> 02'17	19°12'19	min. Earth dist.	4289 Nov 14 16:15	27°M01'11	0.66120 AU
greatest brilliancy	4289 Jan 01 06:49	26° <b>∡</b> ⁴43'49	-0.7m	inferior conj	4289 Nov 16 09:54	24°M56'50	
	4289 Jan 03 10:12	0°₹		minimum elong	4289 Nov 16 11:59	24°M50'38	1°14'16
desc. node	4289 Jan 09 01:50	8° <b>る</b> 43'29		asc. node	4289 Nov 20 02:14	20°M56'10	
morning set	4289 Jan 10 20:13	11° <b>る</b> 27'55		morning rise	4289 Nov 22 10:22	19° <b>M</b> ₊13'10	
	4289 Jan 22 17:19	0° <b>≈</b>		direct	4289 Nov 25 08:25	18°M25'27	
max. Earth dist.	4289 Jan 24 16:01	3° <b>≈</b> 03'40	1.44871 AU	morning max el	4289 Dec 01 23:02	22°M01'30	18°27'47
					4289 Dec 08 07:27	0° <b>∡</b> ¹	
superior conj	4289 Jan 27 13:32	7°≈38'25	-1°46'41	morning set	4289 Dec 21 22:12	21° <b>∡</b> 16'33	
minimum elong	4289 Jan 27 05:03	7° <b>≈</b> 04'50	1°46'01	desc. node	4289 Dec 26 22:51	29° <b>√</b> 17'46	
Č	4289 Feb 10 09:26	0° <b>)</b> €			4289 Dec 27 09:29	0°ಕ	
evening rise	4289 Feb 11 03:23	1° <b>)</b> 13′58				• •	
asc. node	4289 Mar 01 04:29	29° <b>)</b> 08'11		superior conj	4290 Jan 06 16:21	16° <b>る</b> 13'19	-1°09'17
asc. node	4289 Mar 01 22:39	0°Υ		minimum elong	4290 Jan 06 08:05	15° <b>る</b> 40'54	
evening max el	4289 Mar 02 19:15	0° <b>Υ</b> 54'31	18°27'48	max. Earth dist.	4290 Jan 07 10:17	17°る23'40	1.45281 AU
•		4° <b>Υ</b> 27'38	10 2/40	max. Earth dist.			1.43261 AU
retrograde	4289 Mar 09 07:25				4290 Jan 15 11:12	0° <b>≈</b>	
evening set	4289 Mar 12 09:24	3° <b>Y</b> 34'56		evening rise	4290 Jan 22 15:40	11°≈19'21	
	4289 Mar 16 12:52	30° <b>₹</b>		greatest brilliancy	4290 Feb 01 09:28	26°≈40'56	-0.8m
inferior conj	4289 Mar 18 05:15	28° <b>)</b> €04'31	3°35'44		4290 Feb 03 13:00	0° <b>∀</b>	
minimum elong	4289 Mar 18 05:00	28° <b>₩</b> 05'13	3°35'43	evening max el	4290 Feb 14 05:00		19°04'11
min. Earth dist.	4289 Mar 20 09:39	25° <b>)</b> 31′08	0.64458 AU	asc. node	4290 Feb 16 01:30	16° <b>)</b> €06'32	
morning rise	4289 Mar 23 23:54	21° <b>ℋ</b> 53'50		retrograde	4290 Feb 21 02:39	18° <b>₩</b> 18'17	
direct	4289 Mar 30 18:44	19° <b>₩</b> 05'16		evening set	4290 Feb 24 11:20	17° <b>₩</b> 12'39	
desc. node	4289 Apr 07 01:02	21° <b>)</b> 39′59		inferior conj	4290 Mar 02 00:57	11° <b>)</b> 25'49	3°26'41
morning max el	4289 Apr 13 08:57	27° <b>₩</b> 00'31	27°24'32	minimum elong	4290 Mar 01 23:27	11° <b>∺</b> 30'35	3°26'31
· ·	4289 Apr 16 04:23	$0^{\circ}\mathbf{\Upsilon}$		min. Earth dist.	4290 Mar 03 13:55	9° <b>¥</b> 28'36	0.65971 AU
	4289 May 07 06:01	0°B		morning rise	4290 Mar 07 11:12	5° <b>)</b> 12′13	
morning set	4289 May 18 15:06	20° <b>8</b> 42'25		direct	4290 Mar 13 21:46	2° <b>)</b> 22'37	
morning sec	4289 May 23 05:52	0°II		desc. node	4290 Mar 24 22:04	8° <b>)</b> 12'32	
max. Earth dist.	4289 May 23 09:56	0° <b>П</b> 21'00	1.33413 AU	morning max el	4290 Mar 26 18:51	10° <b>₩</b> 00'52	26°28'07
max. Lartii dist.	420) May 25 07.50	0 1121 00	1.55415 AO	morning max cr	4290 Apr 11 13:38	0° <b>Υ</b>	20 20 07
	4200 M 26 17-22	70 <b>T</b> 1712 4	0014155			0°8	
superior conj	4289 May 26 17:23	7° <b>Ⅱ</b> 17'34		. ,	4290 Apr 29 18:23	3° <b>8</b> 49'49	
minimum elong	4289 May 26 18:08	7° <b>I</b> I21'37	0-14-45	morning set	4290 May 01 19:48		1 2 4 7 7 0 4 4 4
behind sun begin	4289 May 26 16:01	7° <b>Ⅱ</b> 10′23		max. Earth dist.	4290 May 05 22:17	11° <b>8</b> 44'09	1.34779 AU
behind sun end	4289 May 26 20:15	7° <b>Ⅱ</b> 32'51					
asc. node	4289 May 28 03:48	10° <b>Ⅱ</b> 20'58		superior conj	4290 May 10 15:45	21° <b>8</b> 16'01	
evening rise	4289 Jun 02 22:12	22° <b>Ⅱ</b> 39'45		minimum elong	4290 May 10 18:07	21° <b>8</b> 28'12	0°43'40
	4289 Jun 06 11:36	$0$ $\circ$ $6$			4290 May 14 20:34	$\Pi$ $\circ 0$	
evening max el	4289 Jun 24 06:38	27° <b>©</b> 16'16	22°18'45	asc. node	4290 May 15 00:49	0° <b>Ⅲ</b> 22′18	
	4289 Jun 27 10:30	$0^{\circ}\Omega$		evening rise	4290 May 18 07:02	7° <b>Ⅱ</b> 10′08	
desc. node	4289 Jul 04 00:17	3° <b>Ω</b> 18′26			4290 May 30 17:46	$0$ $\circ$ $\odot$	
retrograde	4289 Jul 07 05:43	3° <b>£</b> 42'31		evening max el	4290 Jun 06 06:00	8° <b>©</b> 01'55	20°50'40
evening set	4289 Jul 10 05:30	3° <b>£</b> 22'43		retrograde	4290 Jun 17 18:20	13°5640'11	
	4289 Jul 18 03:46	30° <b>ℝ</b> ∽		evening set	4290 Jun 19 21:03	13° <b>©</b> 29'33	
min. Earth dist.	4289 Jul 18 13:01	29°547'00	0.55080 AU	desc. node	4290 Jun 20 21:18	13°917'17	
inferior conj	4289 Jul 19 11:29	29°915'17		inferior conj	4290 Jun 29 04:40	9°532'22	-2°25'22
minimum elong	4289 Jul 19 03:04	29° <b>5</b> 27'11	4°05'09	minimum elong	4290 Jun 28 21:59	9°5641'52	
morning rise	4289 Jul 28 02:32	25°924'57	1 03 07	min. Earth dist.	4290 Jun 30 00:31	9° <b>©</b> 04'09	0.54849 AU
=	4289 Jul 31 05:00	25° <b>©</b> 03'17			4290 Jul 07 22:38	5° <b>5</b> 29'41	0.54649 AU
direct				morning rise			
	4289 Aug 11 07:37	0° <b>N</b>	21017140	direct	4290 Jul 11 14:15	5°900'58	22056126
morning max el	4289 Aug 11 20:18	0° <b>Ω</b> 28'43	21°17'48	morning max el	4290 Jul 24 15:38	11°5016'48	22°56'26
asc. node	4289 Aug 24 03:03	17° <b>Ω</b> 17'20			4290 Aug 07 11:34	$0^{\circ}\Omega$	
	4289 Aug 30 17:19	0° <b>m</b> ∕		asc. node	4290 Aug 11 00:06	6° <b>Ω</b> 28'08	
morning set	4289 Aug 31 21:46	2° Mp 26'38		morning set	4290 Aug 16 08:42	17° <b>Ω</b> 18'22	
					4290 Aug 22 07:04	0° <b>m</b>	
superior conj	4289 Sep 08 05:49	17° <b>m</b> 47'53	1°43'45				
minimum elong	4289 Sep 08 05:24	17° <b>m</b> 45'41	1°43'45	superior conj	4290 Aug 23 10:21	2° m/26'05	1°38'24
max. Earth dist.	4289 Sep 12 12:08	26° m/28'38	1.35278 AU	minimum elong	4290 Aug 23 08:49	2° m 17'53	1°38'17
	4289 Sep 14 06:59	0∘ <u>⊽</u>		max. Earth dist.	4290 Aug 26 07:14	8° m 30'25	1.33835 AU
evening rise	4289 Sep 16 17:32	4° <b>£</b> 41'27		evening rise	4290 Aug 31 04:18	18° <b>m</b> ) 26'07	
desc. node	4289 Sep 29 23:36	27° <b>♀</b> 40'00			4290 Sep 06 07:03	0°₽	
2000. 11000	4289 Oct 01 11:26	0°M		desc. node	4290 Sep 16 20:37	0 <b>—</b> 17° <b>Ω</b> 35'17	
evening max el	4289 Oct 22 02:57	26°M36'05	26°36'16	acce. noue	4290 Sep 25 16:38	0°M	
Svening max ci		20 ll <b>c</b> 30 03	20 30 10	avaning mey al	4290 Sep 23 10:38 4290 Oct 04 15:25	10°ML05'10	27015117
natna a J-	4289 Oct 26 00:51			evening max el			4/ 131/
retrograde	4289 Nov 04 01:56	3° <b>≯</b> 50'44		retrograde	4290 Oct 18 01:44	17°M23'16	

evening set	4290 Oct 25 00:32	14° <b>M</b> 42'29		retrograde	4291 Sep 30 18:58	0°M26'00	
min. Earth dist.	4290 Oct 28 20:24	11°M06'25	0.64788 AU	retrograde	4291 Oct 03 18:24	30°R <u>₽</u>	
inferior conj	4290 Oct 31 02:02	8°MJ39'43		evening set	4291 Oct 07 23:20	27° <b>£</b> 52'38	
minimum elong	4290 Oct 31 05:55	8°M29'04		min. Earth dist.	4291 Oct 11 14:50		0.63123 AU
morning rise	4290 Nov 06 12:25	3°ML09'36	2 13 23	inferior conj	4291 Oct 14 08:22	22° <b>♀</b> 07'14	
asc. node	4290 Nov 06 23:17	2°M58'21		minimum elong	4291 Oct 14 13:50	21° <b>£</b> 53'48	
direct	4290 Nov 09 03:10	2°M33'46		morning rise	4291 Oct 21 05:50	16° <b>£</b> 54'11	3 1024
morning max el	4290 Nov 15 14:46	6°ML00'31	18°00'06	direct	4291 Oct 23 15:56	16° <b>⊆</b> 26'35	
morning max or	4290 Dec 01 17:03	0°×7	10 00 00	asc. node	4291 Oct 24 20:20	16° <b>⊆</b> 33'20	
morning set	4290 Dec 03 05:44	2° <b>×</b> <sup>7</sup> 33'20		morning max el	4291 Oct 30 07:22	19° <b>⊆</b> 52'22	17°50'01
desc. node	4290 Dec 13 19:53	20°×700'00		morning max or	4291 Nov 06 19:30	0°M	17 20 01
dese. Hode	1270 Dec 13 17.33	20 % 00 00		morning set	4291 Nov 15 13:57	15°ML01'32	
superior conj	4290 Dec 17 02:00	25° <b>∡</b> 13'57	-0°22'19	morning sec	4291 Nov 24 05:35	0°×7	
minimum elong	4290 Dec 16 23:16	25°×103'02			12911101 21 00.30	· /	
minimum ciong	4290 Dec 20 01:55	0°る	0 21 30	superior conj	4291 Nov 27 10:28	5° <b>∡</b> ¹22'57	0°22'41
max. Earth dist.	4290 Dec 21 05:29	1° <b>ರ</b> 48'54	1.44952 AU	minimum elong	4291 Nov 27 10:28 4291 Nov 27 12:43	5°×732'20	0°22'22
evening rise	4291 Jan 02 08:35	20° <b>ප්</b> 42'12	1.44/32/110	desc. node	4291 Nov 30 16:54	10°×746'25	0 22 22
evening rise	4291 Jan 08 09:55	20 <b>⊙</b> 42 12		max. Earth dist.	4291 Dec 03 22:49	16° 🖈 40 23	1.43925 AU
greatest brilliancy	4291 Jan 16 12:27	0 ≈ 12°≈13'25	-0.6m	evening rise	4291 Dec 03 22.49 4291 Dec 12 18:16	29° <b>х</b> 53'49	1.43923 AU
-	4291 Jan 18 12.27 4291 Jan 28 10:21	12 ≈13 23 27°≈56'20	-0.6m 19°56'35	evening rise	4291 Dec 12 18:16 4291 Dec 12 19:53	29 x・33 49	
evening max el	4291 Jan 30 15:56	27 <b>≈</b> 30 20 0° <b>∺</b>	19 30 33		4291 Dec 12 19.33 4292 Jan 02 03:17	0°≈	
aca mada	4291 Feb 02 22:32	0 X 1°₩57'55		avanina may al	4292 Jan 11 10:15	0 ∞ 11°≈29'31	21°02'23
asc. node	4291 Feb 02 22.32 4291 Feb 05 00:23	2°\dagger 21'08		evening max el	4292 Jan 11 10:13 4292 Jan 19 22:21		21 02 23
retrograde		1° <b>H</b> 01'30		retrograde	4292 Jan 19 22.21 4292 Jan 20 19:35	16°≈31'35	
evening set	4291 Feb 08 17:02			asc. node		16°≈27'20 14°≈56'53	
	4291 Feb 09 22:37	30°R≈	2005122	evening set	4292 Jan 24 00:31		202411.5
inferior conj	4291 Feb 14 02:59	25°≈00'25	3°05'22	inferior conj	4292 Jan 29 08:52	8°≈44'10	2°34'15
minimum elong	4291 Feb 14 00:44	25°≈07'54	3°04'55	minimum elong	4292 Jan 29 06:24	8°≈52'41	2°33'34
min. Earth dist.	4291 Feb 15 01:33	23°≈44'52	0.67066 AU	min. Earth dist.	4292 Jan 29 18:29	8°≈11'01	0.67743 AU
morning rise	4291 Feb 19 08:14	18°≈46'22		morning rise	4292 Feb 03 12:07	2°≈31'17	
direct	4291 Feb 25 06:28	16°≈07'25		direct	4292 Feb 08 19:57	0°≈10'49	
morning max el	4291 Mar 09 03:43	23°≈13'27	25°11'02	morning max el	4292 Feb 19 12:20	6°≈32'29	23°43'25
desc. node	4291 Mar 11 19:04	26°≈02'34		desc. node	4292 Feb 26 16:05	14°≈47'31	
	4291 Mar 15 03:48	0° <b>∀</b>			4292 Mar 08 17:12	0° <b>∀</b>	
	4291 Apr 04 22:10	0°Υ		morning set	4292 Mar 25 22:03	27° <b>)</b> 14'13	
morning set	4291 Apr 14 08:05	16° <b>℃</b> 05'49			4292 Mar 27 12:40	0° <b>Υ</b>	
max. Earth dist.	4291 Apr 17 23:42	22° <b>Y</b> 46'42	1.36588 AU	max. Earth dist.	4292 Mar 29 19:24	3° <b>Y</b> 59′09	1.38699 AU
	4291 Apr 21 18:54	$0^{\circ}$ 8				2 2	
				superior conj	4292 Apr 06 04:50	17° <b>Y</b> 28'56	
superior conj	4291 Apr 24 04:49	4° <b>8</b> 43'11		minimum elong	4292 Apr 06 09:38	17° <b>Y</b> 51'33	1°38'41
minimum elong	4291 Apr 24 08:43	5° <b>8</b> 02'29	1°12'25		4292 Apr 12 17:02	0°8	
asc. node	4291 May 01 21:51	20° <b>8</b> 14'26		evening rise	4292 Apr 15 08:07	5° <b>8</b> 07'55	
evening rise	4291 May 02 11:15	21° <b>8</b> 22'07		asc. node	4292 Apr 17 18:53	9° <b>8</b> 52'24	
	4291 May 06 20:11	$\Pi^{\circ 0}$			4292 Apr 30 05:13	$\Pi^{\circ}$ 0	
evening max el	4291 May 19 17:38	19° <b>Ⅱ</b> 27'06	19°39'35	evening max el	4292 May 01 16:22	1° <b>Ⅱ</b> 32'38	18°48'33
retrograde	4291 May 29 12:01	24° <b>Ⅱ</b> 12'27		retrograde	4292 May 09 22:09	5° <b>Ⅱ</b> 34'58	
evening set	4291 May 31 10:53	24° <b>Ⅱ</b> 01'53		evening set	4292 May 12 01:42	5° <b>Ⅱ</b> 19'33	
desc. node	4291 Jun 07 18:17	20° <b>Ⅱ</b> 52'54		inferior conj	4292 May 20 00:34		1°18'26
inferior conj	4291 Jun 09 05:22	19° <b>Ⅱ</b> 58'40		minimum elong	4292 May 20 03:22	0° <b>I</b> I54'28	1°17'30
minimum elong	4291 Jun 09 04:11	20° <b>Ⅱ</b> 00'30			4292 May 21 09:04	30° <b>₹</b> 8	
min. Earth dist.	4291 Jun 11 13:46		0.55588 AU	min. Earth dist.	4292 May 23 06:06		0.57127 AU
morning rise	4291 Jun 17 19:06	15° <b>Ⅱ</b> 26'30		desc. node	4292 May 24 15:17	27° <b>8</b> 43'43	
direct	4291 Jun 22 06:41	14° <b>Ⅱ</b> 41'46		morning rise	4292 May 28 01:47	25° <b>8</b> 51'32	
morning max el	4291 Jul 06 05:35	21° <b>Ⅱ</b> 40′23	24°39'48	direct	4292 Jun 02 12:30	24° <b>8</b> 39'33	
	4291 Jul 13 12:09	0ංම			4292 Jun 14 11:50	$\Pi^{\circ 0}$	
asc. node	4291 Jul 28 21:07	26° <b>©</b> 01'57		morning max el	4292 Jun 16 20:49	2° <b>Ⅱ</b> 08'41	26°12'21
	4291 Jul 30 19:22	$0$ $^{\circ}\Omega$		_	4292 Jul 06 15:54	0°€	
morning set	4291 Jul 31 20:27	2° <b>Ω</b> 11'53		asc. node	4292 Jul 14 18:10	15°952'23	
				morning set	4292 Jul 15 07:28	17°502'25	
superior conj	4291 Aug 07 19:16	17° <b>Ω</b> 16′03	1°27'24		4292 Jul 21 06:43	$0$ $\circ$ $\Omega$	
minimum elong	4291 Aug 07 17:06	17° <b>Ω</b> 04'13					
max. Earth dist.	4291 Aug 09 10:53		1.32807 AU	superior conj	4292 Jul 22 06:33		1°11'34
	4291 Aug 13 18:15	0° <b>m</b>		minimum elong	4292 Jul 22 04:14	1° <b>Ω</b> 58'34	1°11'12
evening rise	4291 Aug 15 01:16	2° <b>m</b> 39'35		max. Earth dist.	4292 Jul 22 20:23	3° <b>Ω</b> 27'30	1.32193 AU
	4291 Aug 30 02:47	0∘ <b>亚</b>		evening rise	4292 Jul 29 05:22	17° <b>Ω</b> 12'58	
desc. node	4291 Sep 03 17:38	6° <b>£</b> 59'26			4292 Aug 04 15:21	0° <b>m</b> ∕	
evening max el	4291 Sep 17 02:04	23° <b>≏</b> 10'17	27°26'38	desc. node	4292 Aug 20 14:38	25° <b>m</b> 39'49	
	4291 Sep 27 16:59	0°M₊			4292 Aug 24 01:42	0∘ <b>⊽</b>	

evening max el retrograde evening set	4292 Aug 29 08:12 4292 Sep 12 04:59 4292 Sep 19 06:47	5° <b>£</b> 37'56 12° <b>£</b> 50'07 10° <b>£</b> 36'10	27°05'37	desc. node evening max el retrograde	4293 Aug 07 11:39 4293 Aug 11 07:20 4293 Aug 25 06:40	13° Mp 17'42 17° Mp 17'40 24° Mp 26'44	26°11'33
min. Earth dist.	4292 Sep 22 22:30 4292 Sep 26 01:45	7° <b>£</b> 54'19 5° <b>£</b> 11'26	0.61186 AU -4°14'12	evening set min. Earth dist.	4293 Aug 31 18:01 4293 Sep 04 20:15	22° m/44'33 20° m/09'29	0.59113 AU
minimum elong	4292 Sep 26 07:47		4°12'45	inferior conj	4293 Sep 08 02:34	17° <b>m</b> 41'50	
morning rise	4292 Oct 03 10:38 4292 Oct 04 21:07	0° <b>ჲ</b> 18'59 30°Ŗ <b>₥</b>		minimum elong morning rise	4293 Sep 08 06:57 4293 Sep 15 22:07	17° Mp 33'31 13° Mp 12'14	4°56'07
direct	4292 Oct 04 21:07 4292 Oct 05 18:58	29° Mp 56'34		direct	4293 Sep 13 22:07 4293 Sep 18 07:49	12° <b>m</b> 52'31	
	4292 Oct 06 16:38	0° <b>⊽</b>		morning max el	4293 Sep 26 06:41	16° Mp 42'41	18°26'50
asc. node morning max el	4292 Oct 10 17:22 4292 Oct 12 21:49	1° <b>Ω</b> 39'54 3° <b>Ω</b> 29'44	17°58'30	asc. node	4293 Sep 27 14:25 4293 Oct 05 17:09	18° Mp 04'35 0° <u>മ</u>	
morning set	4292 Oct 28 16:24	28° <b>≏</b> 21'42	17 3030	morning set	4293 Oct 12 07:38	12° <b>≏</b> 17'36	
	4292 Oct 29 13:46	0° <b>M</b>			4000 0 . 01 07 46	200 2 2 412 1	1000100
superior conj	4292 Nov 07 21:41	16°ML50'35	0°58'36	superior conj minimum elong	4293 Oct 21 07:46 4293 Oct 21 11:19	29° <b>£</b> 24'31 29° <b>£</b> 40'58	1°23'32 1°23'10
minimum elong	4292 Nov 08 01:45	17°ML08'26	0°58'04	g	4293 Oct 21 15:27	0°M	1 23 10
max. Earth dist.	4292 Nov 15 11:36	29°M45'23	1.42323 AU	max. Earth dist.	4293 Oct 28 18:41	12°M44'56	1.40346 AU
desc. node	4292 Nov 15 15:08 4292 Nov 16 13:57	0° <b>҂</b> ¹ 1° <b>҂</b> ³33'58		evening rise desc. node	4293 Nov 02 03:36 4293 Nov 03 11:00	20°M09'02 22°M18'31	
evening rise	4292 Nov 21 12:50	9° <b>∡</b> 33'35		uese. noue	4293 Nov 08 05:56	0° <b>⊼</b>	
	4292 Dec 04 23:14	0°₹			4293 Nov 29 05:05	0° <b>ਰ</b>	
evening max el	4292 Dec 24 04:47 4292 Dec 30 14:06	25° <b>る</b> 04'11 0°≈	22°17'44	evening max el retrograde	4293 Dec 06 19:22 4293 Dec 17 12:28	8°る41'53 15°る01'34	23°37'38
retrograde	4293 Jan 02 18:52	0° <b>≈</b> 46′22		evening set	4293 Dec 22 14:18	12° <b>る</b> 55'15	
_	4293 Jan 05 18:15	30°₹ <b>⋜</b>		asc. node	4293 Dec 24 13:38	10° <b>る</b> 57'05	
asc. node evening set	4293 Jan 06 16:36 4293 Jan 07 08:08	29°る25'31 28°る55'55		min. Earth dist.	4293 Dec 27 11:18 4293 Dec 28 00:18	7°る14'21 6°る29'56	0.67940 AU 1°08'49
inferior conj	4293 Jan 12 16:35		1°55'01	minimum elong	4293 Dec 27 22:46	6° <b>る</b> 35'09	1°08'12
minimum elong	4293 Jan 12 14:22	22° <b>ප්</b> 42'35	1°54'14	morning rise	4294 Jan 02 07:13	0° <b>පි</b> 24'00	
min. Earth dist. morning rise	4293 Jan 12 14:30 4293 Jan 17 20:29	22°る42'06 16°る24'35	0.68028 AU	direct	4294 Jan 02 20:25 4294 Jan 06 10:08	30°Ŗ <b>⋌</b> 28° <b>⋌</b> ¹48'33	
direct	4293 Jan 22 13:30	10 <b>3</b> 2433		uncer	4294 Jan 10 06:47	28 x 4833	
morning max el	4293 Jan 31 23:39	19° <b>る</b> 58'53	22°15'02	morning max el	4294 Jan 14 16:57	3°₹35′23	20°53'53
desc. node	4293 Feb 09 10:21 4293 Feb 12 13:09	0° <b>≈</b> 4° <b>≈</b> 12'06		desc. node	4294 Jan 30 10:13 4294 Feb 03 10:14	24°る05'27 0°≈	
desc. node	4293 Mar 01 22:31	4 ≈1200 0° <b>)</b>		morning set	4294 Feb 13 15:30	0 ≈ 15°≈36'57	
morning set	4293 Mar 06 08:15	7° <b>)</b> €02'14		max. Earth dist.	4294 Feb 21 20:03	28° <b>≈</b> 39'37	1.42826 AU
max. Earth dist.	4293 Mar 11 16:32	15° <b>¥</b> 52'12	1.40873 AU		4294 Feb 22 15:47	0° <b>∀</b>	
superior conj	4293 Mar 19 11:13	29° <b>)</b> 22′01		superior conj	4294 Feb 28 19:03	10° <b>)</b> 11′56	
minimum elong	4293 Mar 19 15:15 4293 Mar 19 19:43	29° <b>)</b> 40′00 0° <b>°</b>	1°58'55	minimum elong	4294 Feb 28 19:27 4294 Mar 12 03:25	10° <b>¥</b> 13'37 0° <b>Ƴ</b>	2°07'57
evening rise	4293 Mar 29 18:20	18° <b>Y</b> 18'59		evening rise	4294 Mar 12 03:23 4294 Mar 12 13:51	0° <b>Υ</b> 46'32	
asc. node	4293 Apr 04 15:54	29° <b>Y</b> ′10′30		asc. node	4294 Mar 22 12:57	18° <b>Ƴ</b> 02'18	
evening max el	4293 Apr 05 03:05 4293 Apr 14 23:09	0° <b>8</b> 14° <b>8</b> 11'20	18°17'50	evening max el	4294 Mar 29 10:35 4294 Apr 02 05:46	27° <b>Y</b> 14'28 0° <b>႘</b>	18°06'50
retrograde	4293 Apr 22 03:20	17° <b>8</b> 46'04	16 17 30	retrograde	4294 Apr 05 00:36	0° <b>8</b> 37'24	
evening set	4293 Apr 24 13:30	17° <b>8</b> 22'28		evening set	4294 Apr 07 17:10	0° <b>8</b> 03'23	
inferior conj minimum elong	4293 May 01 17:23 4293 May 01 20:58	12° <b>8</b> 42'21 12° <b>8</b> 34'41	2°32'18 2°31'24	inferior conj	4294 Apr 07 20:22 4294 Apr 14 05:33	30° <b>₹</b> Υ 25°Υ02'56	3°15'30
min. Earth dist.	4293 May 05 03:41	9° <b>8</b> 48'04	0.59166 AU	minimum elong	4294 Apr 14 03:53 4294 Apr 14 07:58	24° <b>Y</b> 57'00	3°15'08
morning rise	4293 May 09 01:35	7° <b>8</b> 04'37		min. Earth dist.	4294 Apr 17 08:37	21° <b>Y</b> 59'33	0.61362 AU
desc. node	4293 May 11 12:19	5° <b>8</b> 57'39		morning rise	4294 Apr 20 20:52	19° <b>Y</b> 06'19 16° <b>Y</b> 46'33	
direct morning max el	4293 May 15 08:13 4293 May 29 17:31	5° <b>8</b> 17'42	27°18'56	direct desc. node	4294 Apr 27 15:22 4294 Apr 28 09:22	16° <b>Y</b> 46'33	
3	4293 Jun 12 02:50	0°П		morning max el	4294 May 11 20:26	24° <b>Y</b> 44'23	27°50'06
	4293 Jun 28 20:05	0°9			4294 May 16 15:29	0∘ <b>R</b>	
morning set asc. node	4293 Jun 29 16:00 4293 Jul 01 15:11	1° <b>©</b> 43'33 5° <b>©</b> 53'14		morning set	4294 Jun 05 11:36 4294 Jun 13 20:14	0°Ⅱ 16°Ⅱ09'27	
				asc. node	4294 Jun 18 12:14	26° <b>Ⅱ</b> 00'02	
superior conj	4293 Jul 06 18:20	17°505'09	0°51'32	max. Earth dist.	4294 Jun 19 17:51	28° <b>Ⅱ</b> 40'27	1.32204 AU
minimum elong max. Earth dist.	4293 Jul 06 16:20 4293 Jul 06 07:56	16°©54'05 16°©07'49	0°51'09 1.31990 AU		4294 Jun 20 08:27	0ං <b>ව</b>	
	4293 Jul 12 16:00	0°Ω	1.51770110	superior conj	4294 Jun 21 04:55	1° <b>©</b> 51'54	0°27'56
evening rise	4293 Jul 13 14:03	1° <b>Ω</b> 57'28		minimum elong	4294 Jun 21 03:41	1°545'06	0°27'40
	4293 Jul 28 16:27	0° <b>m</b> )		evening rise	4294 Jun 28 01:16	16°9346'44	

	4294 Jul 04 13:48	$0^{\circ}\Omega$		minimum elong	4295 Jun 05 12:23	16° <b>Ⅲ</b> 24'33	0°01'22
evening max el	4294 Jul 23 23:25	28° <b>Ω</b> 11'39	24°50'06	behind sun begin	4295 Jun 05 07:06	15° <b>Ⅱ</b> 56′08	
desc. node	4294 Jul 25 08:39	29° <b>Ω</b> 27'58		behind sun end	4295 Jun 05 17:40	16° <b>Ⅲ</b> 53′01	
	4294 Jul 25 23:33	0° <b>m</b> p			4295 Jun 11 19:28	$0$ $\circ$ $\odot$	
retrograde	4294 Aug 06 21:44	5° <b>™</b> 14'04		evening rise	4295 Jun 12 13:05	1° <b>5</b> 33'39	
evening set	4294 Aug 12 05:08	4°Mp10'17			4295 Jun 28 06:41	$0$ ° $\Omega$	
min. Earth dist.	4294 Aug 17 10:52	1°₩23'20	0.57156 AU	evening max el	4295 Jul 05 12:22	8° <b>Ω</b> 37'35	23°14'09
	4294 Aug 19 13:49	30° <b>₹Ω</b>		desc. node	4295 Jul 12 05:39	13° <b>Ω</b> 37'53	
inferior conj	4294 Aug 20 07:51	29° <b>Ω</b> 30′08	-5°12'34	retrograde	4295 Jul 18 23:56	15° <b>Ω</b> 21'51	
minimum elong	4294 Aug 20 07:29	29° <b>Ω</b> 30'44	5°12'33	evening set	4295 Jul 22 19:10	14° <b>Ω</b> 50′16	
morning rise	4294 Aug 28 12:18	25° <b>Ω</b> 22'18		min. Earth dist.	4295 Jul 29 21:45	11° <b>Ω</b> 36′17	0.55635 AU
direct	4294 Aug 31 02:37	25° <b>Ω</b> 03'12		inferior conj	4295 Jul 31 17:21	10° <b>Ω</b> 32'30	-4°45'53
morning max el	4294 Sep 09 06:39	29° <b>Ω</b> 21'30	19°16'25	minimum elong	4295 Jul 31 10:54	10° <b>Ω</b> 41'58	4°44'50
	4294 Sep 09 22:28	0° <b>m</b>		morning rise	4295 Aug 09 05:00	6° <b>Ω</b> 39'53	
asc. node	4294 Sep 14 11:29	5° M 32'29		direct	4295 Aug 12 02:36	6° <b>Ω</b> 19'37	
morning set	4294 Sep 26 07:43	26° M 38'38		morning max el	4295 Aug 22 19:09	11° <b>Ω</b> 17'33	20°27'46
	4294 Sep 28 00:03	0∘ <b>ত</b>		asc. node	4295 Sep 01 08:32	23° <b>Ω</b> 49'35	
					4295 Sep 04 20:22	0° <b>m</b> y	
superior conj	4294 Oct 04 11:16	12° <b>≏</b> 49'21	1°38'09	morning set	4295 Sep 10 13:45	11° <b>m</b> 17'04	
minimum elong	4294 Oct 04 13:18	12° <b>≏</b> 59'17	1°38'01	•	•	-	
max. Earth dist.	4294 Oct 10 23:01	25° <b>ഫ</b> 03'42	1.38252 AU	superior conj	4295 Sep 18 03:23	26° m 51'39	1°43'53
	4294 Oct 13 17:00	0°M		minimum elong	4295 Sep 18 03:47	26° m 53'43	1°43'53
evening rise	4294 Oct 14 17:38	1° <b>M</b> 48'19			4295 Sep 19 16:43	0∘ <del>⊽</del>	
desc. node	4294 Oct 21 08:01	12°M56'14		max. Earth dist.	4295 Sep 23 06:01	6° <b>£</b> 59'54	1.36281 AU
	4294 Nov 01 11:02	0° <b>∡</b> 7		evening rise	4295 Sep 27 04:26	14° <b>£</b> 25'19	
evening max el	4294 Nov 19 08:09	22° <b>х</b> 23'37	24°55'32	8	4295 Oct 06 03:03	0°M	
retrograde	4294 Dec 01 01:56	29° <b>х</b> 12'31	2.0002	desc. node	4295 Oct 08 05:00	3°M22'39	
evening set	4294 Dec 06 17:21	26° <b>х</b> 51'20		dese. node	4295 Oct 27 04:46	0° <b>⊼</b>	
asc. node	4294 Dec 11 10:42	21° <b>×</b> 31'20		evening max el	4295 Nov 01 20:43	6° <b>⊀</b> ¹06'52	26°04'06
min. Earth dist.	4294 Dec 11 06:25	21° <b>х</b> 3027	0.67506 AU	retrograde	4295 Nov 14 10:24	13°× 14'29	20 0100
inferior conj	4294 Dec 12 06:10	20° <b>×</b> 26'13	0°16'36	evening set	4295 Nov 20 15:34	10° <b>х</b> 41'00	
minimum elong	4294 Dec 12 05:46	20° × 2013		min. Earth dist.	4295 Nov 24 21:29	6°×709'25	0.66727 AU
morning rise	4294 Dec 17 18:20	14° × 26'51	0 10 23	inferior conj	4295 Nov 26 08:23	4°×720'53	
direct	4294 Dec 21 08:37	13° × 12'24		minimum elong	4295 Nov 26 09:27	4°×17'31	0°40'03
morning max el	4294 Dec 28 18:01	13 <b>x</b> 12 24 17° <b>x</b> 22'47	19°45'05	asc. node	4295 Nov 28 07:44	1° <b>×</b> <sup>7</sup> 57'58	0 40 03
morning max ci	4295 Jan 07 16:22	1/ × 22 4/ 0°る	19 43 03	asc. node	4295 Nov 30 05:03	30°RM	
greatest brilliancy	4295 Jan 10 22:10	0 3 4° <b>3</b> 43'40	-0.7m	morning rise	4295 Nov 30 03:03 4295 Dec 02 03:48	28°M30'41	
desc. node	4295 Jan 17 07:16	14°る19'07	-0.7111	direct	4295 Dec 05 07:16	27°M34'10	
morning set	4295 Jan 23 11:35	14 31907 23° <b>る</b> 47'32		direct	4295 Dec 10 16:08	27 11€34 10 0° <b>√</b> 7	
morning set	4295 Jan 27 11:43	23 O47 32 0°≈		morning may al	4295 Dec 12 02:32	1°×19'23	18°51'25
max. Earth dist.	4295 Feb 04 07:19		1.44309 AU	morning max el	4296 Jan 01 02:58	0°る	16 31 23
max. Earth dist.	4293 Feb 04 07.19	12 ≈1702	1.44309 AU	marning act	4296 Jan 02 21:56	0 3 2° <b>る</b> 48'28	
gunariar aani	4295 Feb 09 01:06	19° <b>≈</b> 52'45	200000	morning set desc. node	4296 Jan 02 21.36 4296 Jan 04 04:18	2 046 26 4° <b>る</b> 47'34	
superior conj minimum elong	4295 Feb 08 19:27	19 ≈32 43 19°≈29'56		max. Earth dist.	4296 Jan 18 00:26		1.45140 AU
minimum ciong	4295 Feb 15 05:35	19 <b>≈</b> 29 30	1 39 32	max. Earm dist.	4290 Jan 16 00.20	20 02903	1.43140 AU
avanina riaa		12° <b>X</b> 21'14		superior conj	4206 Ion 10 00:26	28° <b>る</b> 39'24	1922144
evening rise	4295 Feb 22 14:11 4295 Mar 05 03:35	12 <b>π</b> 21 14 0° <b>Υ</b>		minimum elong	4296 Jan 19 09:36 4296 Jan 19 00:18	28°る3924 28°る02'49	
asc. node	4295 Mar 09 09:59	6° <b>Υ</b> 18'46		minimum clong	4296 Jan 20 06:04	28 <b>3</b> 02 49 0° <b>≈</b>	1 31 49
	4295 Mar 12 23:27	10° <b>Υ</b> 32'45	18°14'51	evening rise	4296 Feb 03 15:53	0 ∞ 22°≈59'05	
evening max el retrograde	4295 Mar 12 23:27 4295 Mar 19 09:32	$10^{\circ}$ <b>Y</b> 32 45 $13^{\circ}$ <b>Y</b> 58'06	10 14 31	evening 1186	4296 Feb 03 15:53 4296 Feb 07 23:51	0° <b>)</b> €	
evening set	4295 Mar 19 09.32 4295 Mar 22 08:07	$13^{\circ}$ <b>Y</b> $12'22$		asc. node	4296 Feb  24  07:00	23° <b>)</b> (49'31	
inferior conj	4295 Mar 22 08:07 4295 Mar 28 08:57	$7^{\circ}$ <b>Y</b> 52'30	2022155	evening max el	4296 Feb 24 07:00 4296 Feb 24 10:59	23° <b>X</b> 49'31 23° <b>X</b> 59'42	18°41'07
minimum elong	4295 Mar 28 09:38	7° <b>Υ</b> 50'35		retrograde	4296 Mar 02 02:05	23 <b>X</b> 39 42 27° <b>X</b> 40'15	16 41 07
min. Earth dist.	4295 Mar 30 22:18	5° <b>Υ</b> 03'17		•	4296 Mar 05 06:53	26° <b>)</b> (4013	
		3 <b>γ</b> 03 17 1° <b>Υ</b> 45'31	0.03423 AU	evening set		20 <del>X</del> 41 38 21° <del>X</del> 04'11	2022122
morning rise	4295 Apr 03 10:10 4295 Apr 06 05:11	30° <b>₹</b>		inferior conj minimum elong	4296 Mar 10 23:43 4296 Mar 10 22:53	21° <del>X</del> 04'11 21° <del>X</del> 06'43	3°33'33 3°33'30
direct	•			•			
direct	4295 Apr 10 07:18	29° <b>米</b> 03'35 0° <b>Ƴ</b>		min. Earth dist.	4296 Mar 12 21:24	18° <b>¥</b> 45'28	0.65160 AU
daga == -1-	4295 Apr 14 15:45	0° <b>Υ</b> 16'08		morning rise	4296 Mar 16 14:24	14° <b>¥</b> 52'05	
desc. node	4295 Apr 15 06:25		27042146	direct	4296 Mar 23 06:22	12° <b>)</b> €01'45	
morning max el	4295 Apr 24 04:01	7° <b>Y</b> 01'54	21-45.46	desc. node	4296 Apr 01 03:29	15° <b>¥</b> 51′26	27002140
	4295 May 11 17:42	0° <b>8</b>		morning max el	4296 Apr 05 13:53	19° <b>¥</b> 50'30	21-05-40
morning set	4295 May 28 17:48	0° <b>Ⅱ</b> 12'04			4296 Apr 14 06:23	$^{\circ \gamma}$	
an at the	4295 May 28 15:23	0°II	1 22040 437		4296 May 03 18:56	0°8	
max. Earth dist.	4295 Jun 02 22:11	10° <b>I</b> 52'30	1.32849 AU	morning set	4296 May 11 05:46	13° <b>8</b> 42'57	1 22047 ***
asc. node	4295 Jun 05 09:16	16° <b>Ⅱ</b> 07'47		max. Earth dist.	4296 May 15 17:23	22° <b>8</b> 35'29	1.33947 AU
					4296 May 19 07:35	$\Pi$ $^{\circ}$ 0	
superior conj	4295 Jun 05 12:27	16° <b>Ⅱ</b> 24'56	0001124		•		

superior conj	4296 May 19 14:52	0° <b>Ⅱ</b> 38'10		superior conj	4297 May 03 09:42	14° <b>8</b> 24'48	
minimum elong	4296 May 19 16:18	0° <b>I</b> I45'39	0°26'55	minimum elong	4297 May 03 12:46	14° <b>8</b> 40'16	0°55'59
asc. node	4296 May 22 06:18	6° <b>Ⅱ</b> 12'57		asc. node	4297 May 09 03:20	26° <b>8</b> 11'23	
evening rise	4296 May 26 23:36	16° <b>Ⅱ</b> 12'21 0° <b>©</b>			4297 May 10 23:42	0°П 0°П36'36	
evening max el	4296 Jun 02 22:04 4296 Jun 16 05:47	19° <b>5</b> 07'05	21020125	evening rise	4297 May 11 06:50 4297 May 29 06:36	0.62	
desc. node	4296 Jun 28 02:40	19 507 03 25° 513'53	21 39 23	evening max el	4297 May 29 10:12	0°908'52	20°18'01
	4296 Jun 28 15:22	25°914'32		retrograde	4297 Jun 09 05:02	5°924'56	20 1801
retrograde evening set	4296 Jul 01 04:11	25°900'00		evening set	4297 Jun 11 04:17	5°915'08	
inferior conj	4296 Jul 10 12:54	20° <b>©</b> 58'41	-3°28'10	desc. node	4297 Jun 14 23:41	4°906'14	
minimum elong	4296 Jul 10 04:25	20°93041		inferior conj	4297 Jun 20 07:40	1°506'51	-1°34'48
min. Earth dist.	4296 Jul 10 08:08	21°505'21		minimum elong	4297 Jun 20 03:12	1°9523'24	
morning rise	4296 Jul 19 05:52	17°506'02	0.5 1007 110	min. Earth dist.	4297 Jun 21 20:18		0.55046 AU
direct	4296 Jul 22 13:20	16°542'09		min. Burur dist.	4297 Jun 22 12:15	30°R <b>Ⅱ</b>	0.00010110
morning max el	4296 Aug 03 19:59	22°528'28	21°58'27	morning rise	4297 Jun 29 00:53	27° <b>I</b> 03'14	
	4296 Aug 10 08:31	0°N		direct	4297 Jul 02 23:54	26° <b>Ⅲ</b> 29'20	
asc. node	4296 Aug 18 05:34	12° <b>Ω</b> 43'47			4297 Jul 12 18:42	0ಂ <b>ತ</b>	
morning set	4296 Aug 24 23:26	26° <b>Ω</b> 05'56		morning max el	4297 Jul 16 12:32	3°504'44	23°40'44
Č	4296 Aug 26 19:57	0° m		S	4297 Aug 04 00:47	$0^{\circ}\Omega$	
	C	·		asc. node	4297 Aug 05 02:36	2° <b>Ω</b> 05'45	
superior conj	4296 Sep 01 04:15	11° <b>m</b> ) 19'42	1°42'14	morning set	4297 Aug 09 10:57	10° <b>Ω</b> 59'49	
minimum elong	4296 Sep 01 03:18	11° <b>m</b> 14'43	1°42'11	-			
max. Earth dist.	4296 Sep 04 20:08	18° <b>m</b> 55'01	1.34612 AU	superior conj	4297 Aug 16 10:59	26° <b>Ω</b> 04'39	1°34'22
evening rise	4296 Sep 09 07:38	27° <b>m</b> 48'28		minimum elong	4297 Aug 16 09:07	25° <b>Ω</b> 54'37	1°34'12
	4296 Sep 10 11:06	0∘ <b>⊽</b>			4297 Aug 18 06:51	0° <b>m</b>	
desc. node	4296 Sep 24 01:59	23° <b>≏</b> 31'32		max. Earth dist.	4297 Aug 18 19:03	1° <b>m</b> 04'58	1.33343 AU
	4296 Sep 28 09:06	$0^{\circ}$ M		evening rise	4297 Aug 23 23:11	11°Mp47'02	
evening max el	4296 Oct 14 09:18	19°M43'30	26°55'51		4297 Sep 02 17:24	0∘ <b>⊽</b>	
retrograde	4296 Oct 27 13:25	27°M00'09		desc. node	4297 Sep 10 23:00	13° <b>≏</b> 15'13	
evening set	4296 Nov 03 06:51	24°M19'31			4297 Sep 23 20:50	$0^{\circ}$ M	
min. Earth dist.	4296 Nov 07 06:03	20°M23'48	0.65598 AU	evening max el	4297 Sep 26 21:02	3°M03'20	27°23'42
inferior conj	4296 Nov 09 04:49	18°M09'08		retrograde	4297 Oct 10 10:37	10°M21'29	
minimum elong	4296 Nov 09 07:39	18°M00'56	1°40'00	evening set	4297 Oct 17 12:38	7°M42'06	
asc. node	4296 Nov 14 04:47	13°M13'57		min. Earth dist.	4297 Oct 21 06:09	4°M20'27	0.64120 AU
morning rise	4296 Nov 15 09:20	12°M31'04		inferior conj	4297 Oct 23 17:06	1°M46'09	
direct	4296 Nov 18 04:04	11° <b>M</b> 48'48		minimum elong	4297 Oct 23 21:44	1°M34'02	2°41'29
morning max el	4296 Nov 24 16:26	15°M19'26	18°14'00		4297 Oct 25 10:37	30° <b>₹</b> Ω	
	4296 Dec 05 08:06	0° <b>⊼</b>		morning rise	4297 Oct 30 08:09	26° <b>£</b> 23'10	
morning set	4296 Dec 13 12:38	13° 🖈 15'37		asc. node	4297 Nov 01 01:50	25° <b>£</b> 54'27	
desc. node	4296 Dec 21 01:18	25° <b>₹</b> 25'41		direct	4297 Nov 01 20:30	25° <b>£</b> 51'22	17052120
	4296 Dec 23 22:02	0°ප		morning max el	4297 Nov 08 08:58	29° <b>£</b> 16'41	17°53'38
	4207 D 20 12 27	7°る17'40	0040140	. ,	4297 Nov 09 01:42	0°M	
superior conj minimum elong	4296 Dec 28 12:37 4296 Dec 28 06:23	6° <b>る</b> 53'08		morning set	4297 Nov 25 07:22	25°M04'35 0°⊀	
max. Earth dist.	4296 Dec 30 19:50	6 33308 10° <b>る</b> 54'48		desc. node	4297 Nov 28 04:49 4297 Dec 07 22:18	0 <b>x</b> . 16° <b>x</b> 09'58	
max. Earm dist.	4297 Jan 12 00:57	10 <b>3</b> 3448	1.43231 AU	desc. Hode	4297 Dec 07 22.18	10 8.0938	
evening rise	4297 Jan 12 00:57 4297 Jan 13 18:58	0 ∞ 2°≈43'49		superior conj	4297 Dec 08 06:43	16° <b>∡</b> ¹44'09	-0°02'27
greatest brilliancy	4297 Jan 25 14:28	21°≈01'38	-0.7m	minimum elong	4297 Dec 08 06:45 4297 Dec 08 06:26	16°× <b>7</b> 43'00	
greatest oriniancy	4297 Jan 31 17:16	0° <b>∀</b>	0.7111	behind sun begin	4297 Dec 07 00:28	16° <b>₹</b> '02'32	0 02 24
evening max el	4297 Feb 06 18:58	7° <b>)</b> € 30′23	19°24'35	behind sun end	4297 Dec 08 16:24	17° <b>₹</b> 23'25	
asc. node	4297 Feb 10 04:02	10° <b>∺</b> 21′20	1, 2.55	max. Earth dist.	4297 Dec 13 14:11	25° 🖈 15'29	1.44590 AU
retrograde	4297 Feb 13 22:48	11° <b>)</b> (36'53			4297 Dec 16 14:17	0°る	
evening set	4297 Feb 17 10:43	10° <b>)</b> 25′19		evening rise	4297 Dec 24 06:47	11° <b>る</b> 56'19	
inferior conj	4297 Feb 22 22:27	4° <b>)</b> €31'50	3°18'59	C	4298 Jan 05 04:58	0° <b>≈</b>	
minimum elong	4297 Feb 22 20:35	4° <b>)</b> €37'56		evening max el	4298 Jan 20 21:55	21° <b>≈</b> 02'25	20°23'10
min. Earth dist.	4297 Feb 24 05:02	2° <b>)</b> 52′13	0.66485 AU	asc. node	4298 Jan 28 01:05	25° <b>≈</b> 39'18	
	4297 Feb 26 13:42	30° <b>R</b> ≈		retrograde	4298 Jan 28 20:58	25°≈43'02	
morning rise	4297 Feb 28 06:11	28° <b>≈</b> 17'43		evening set	4298 Feb 01 17:22	24°≈17'13	
direct	4297 Mar 06 11:43	25° <b>≈</b> 31'46		inferior conj	4298 Feb 07 02:24	18° <b>≈</b> 10'40	2°53'18
	4297 Mar 15 19:16	0° <b>)</b> €		minimum elong	4298 Feb 06 24:00	18° <b>≈</b> 18'49	2°52'43
morning max el	4297 Mar 18 23:40	2° <b>¥</b> 58'11	25°57'23	min. Earth dist.	4298 Feb 07 19:18	17° <b>≈</b> 13′10	0.67395 AU
desc. node	4297 Mar 19 00:31	3° <b>₩</b> 00'19		morning rise	4298 Feb 12 06:25	11° <b>≈</b> 56'40	
	4297 Apr 08 11:54	$0^{\circ}\Upsilon$		direct	4298 Feb 17 22:35	9° <b>≈</b> 24'49	
morning set	4297 Apr 24 04:13	26° <b>Ƴ</b> 31'02		morning max el	4298 Mar 01 08:18	16° <b>≈</b> 14′05	24°34'29
	4297 Apr 26 01:01	0°8		desc. node	4298 Mar 05 21:32	21°≈15'53	
max. Earth dist.	4297 Apr 28 01:15	3° <b>8</b> 49'45	1.35500 AU		4298 Mar 12 17:34	0° <b>∀</b>	
					4298 Apr 01 11:05	$0^{\circ}$ Y	

morning set max. Earth dist.	4298 Apr 06 07:48 4298 Apr 09 23:07	8° <b>Υ</b> 20'37 14° <b>Υ</b> 51'03	1.37452 AU	max. Earth dist.	4299 Mar 22 18:03 4299 Mar 24 21:31	26°¥15'36 0°Υ	1.39629 AU
superior conj	4298 Apr 16 17:43	27° <b>Ƴ</b> 35'27	-1°24'40	superior conj	4299 Mar 30 10:52	10° <b>Ƴ</b> 00'31	-1°48'44
minimum elong	4298 Apr 16 22:07	27° <b>Υ</b> 56'51		minimum elong	4299 Mar 30 15:37	10° <b>Y</b> ′22'24	1°48'17
S	4298 Apr 17 23:25	0°8		evening rise	4299 Apr 09 01:04	28° <b>Y</b> 10′14	
evening rise	4298 Apr 25 08:18	14° <b>8</b> 38'20		-	4299 Apr 09 24:00	$9^{\circ}$ 8	
asc. node	4298 Apr 26 00:22	15° <b>8</b> 58'07		asc. node	4299 Apr 12 21:25	5° <b>8</b> 28'25	
	4298 May 03 11:33	$\Pi^{\circ}0$		evening max el	4299 Apr 25 05:36	24° <b>8</b> 13'24	18°33'06
evening max el	4298 May 12 02:55	11° <b>Ⅱ</b> 52'11	19°15'27	retrograde	4299 May 02 22:52	28° <b>8</b> 01'31	
retrograde	4298 May 21 04:50	16° <b>Ⅱ</b> 17'33		evening set	4299 May 05 05:19	27° <b>8</b> 42'54	
evening set	4298 May 23 04:57	16° <b>Ⅱ</b> 05'33		inferior conj	4299 May 12 19:49	23° <b>8</b> 14'44	1°53'42
inferior conj	4298 May 31 15:26	11° <b>Ⅱ</b> 56′24	0°21'27	minimum elong	4299 May 12 23:18	23° <b>8</b> 07'57	1°52'39
minimum elong	4298 May 31 16:20	11° <b>Ⅲ</b> 54'54 11° <b>Ⅲ</b> 07'22	0°21'06	min. Earth dist.	4299 May 16 05:22	20° <b>8</b> 37'08	0.57959 AU
desc. node min. Earth dist.	4298 Jun 01 20:44 4298 Jun 03 11:03	11° <b>Д</b> 0/22 10° <b>Д</b> 04'16	0.56156 AU	desc. node morning rise	4299 May 19 17:45 4299 May 20 14:05	18° <b>8</b> 19'24 17° <b>8</b> 53'08	
morning rise	4298 Jun 09 00:38	7° <b>I</b> 08'30	0.30130 AU	direct	4299 May 26 10:20	16° <b>8</b> 26'24	
direct	4298 Jun 13 22:00	6° <b>Ⅱ</b> 13'22		morning max el	4299 Jun 09 19:24	24° <b>8</b> 04'44	26°44'25
morning max el	4298 Jun 28 02:26	13° <b>Ⅱ</b> 27'26	25°21'20	morning max or	4299 Jun 15 04:28	0°II	20 1123
	4298 Jul 11 01:35	0°ಅ			4299 Jul 04 02:27	0°೯	
asc. node	4298 Jul 22 23:38	21° <b>©</b> 47'15		morning set	4299 Jul 09 08:45	10° <b>©</b> 39'30	
morning set	4298 Jul 24 22:35	25° <b>©</b> 52'39		asc. node	4299 Jul 09 20:41	11° <b>5</b> 42'29	
	4298 Jul 26 20:49	$0^{\circ}\Omega$					
				superior conj	4299 Jul 16 08:54	25° <b>©</b> 53'12	1°03'33
superior conj	4298 Jul 31 21:10	10° <b>Ω</b> 57'55	1°21'14	minimum elong	4299 Jul 16 06:39	25° <b>5</b> 40'48	1°03'10
minimum elong	4298 Jul 31 18:53	10° <b>Ω</b> 45′20	1°20'55	max. Earth dist.	4299 Jul 16 12:08	26° <b>©</b> 11'07	1.32063 AU
max. Earth dist.	4298 Aug 02 01:21	13° <b>Ω</b> 32'06	1.32495 AU		4299 Jul 18 05:40	$0$ $\circ$ $\Omega$	
evening rise	4298 Aug 07 23:32	26° <b>Ω</b> 10'05		evening rise	4299 Jul 23 05:54	10° <b>Ω</b> 49'11	
	4298 Aug 09 20:40	0° <b>m</b>			4299 Aug 02 02:26	0° m/y	
JJ.	4298 Aug 27 03:59	ე₀ <b>౮</b>		desc. node	4299 Aug 15 17:03	20° Mp 38'55	26946121
desc. node evening max el	4298 Aug 28 20:01 4298 Sep 09 06:00	2° <b>£</b> 22'38 15° <b>£</b> 53'45	27°21'47	evening max el	4299 Aug 22 09:39 4299 Aug 24 14:34	28° Mp 02′28 0° <u>₽</u>	26°46'31
retrograde	4298 Sep 23 01:13	23° <b>£</b> 08'41	2/ 214/	retrograde	4299 Rug 24 14:34 4299 Sep 05 07:49	0 <b>=</b> 5° <b>Ω</b> 12'43	
evening set	4298 Sep 30 05:29	20° <b>£</b> 42'04		evening set	4299 Sep 12 04:54	3° <b>⊆</b> 11'22	
min. Earth dist.	4298 Oct 03 20:14	17° <b>Ω</b> 48'30	0.62324 AU	min. Earth dist.	4299 Sep 15 23:40	0° <b>£</b> 34'18	0.60309 AU
inferior conj	4298 Oct 06 18:21	15° <b>♀</b> 04'47		min. Burm Gige.	4299 Sep 16 16:53	30°RM)	0.00007110
minimum elong	4298 Oct 07 00:14	14° <b>≙</b> 51'00	3°41'17	inferior conj	4299 Sep 19 05:08	27° m 55'55	-4°34'35
morning rise	4298 Oct 13 20:42	10°₽00'08		minimum elong	4299 Sep 19 10:49	27° <b>m</b> 44'15	4°33'28
direct	4298 Oct 16 05:31	9° <b>≏</b> 35'13		morning rise	4299 Sep 26 18:40	23° Mp 12'37	
asc. node	4298 Oct 18 22:52	10° <b>≏</b> 09'12		direct	4299 Sep 29 03:10	22° <b>m</b> 51'36	
morning max el	4298 Oct 23 01:03	13° <b>≏</b> 03′26	17°51'14	asc. node	4299 Oct 05 19:55	25° Mp 50'26	
	4298 Nov 03 12:55	0°M₊		morning max el	4299 Oct 06 13:28	26°My31'03	18°07'58
morning set	4298 Nov 08 00:07	7°M56'59			4299 Oct 09 14:43	0∘ <b>⊽</b>	
	1200 31 10 02 12	270 <b>M</b> 27104	0020112	morning set	4299 Oct 22 08:36	21° <b>Ω</b> 34'04	
superior conj	4298 Nov 19 02:42	27°M27'04	0°39'13		4299 Oct 26 20:46	0°M	
minimum elong	4298 Nov 19 06:07 4298 Nov 20 14:51	27° <b>M</b> .41'32 0° <b>₹</b>	0°38'45	superior conj	4299 Nov 01 00:15	9° <b>M</b> 24'16	1910/21
desc. node	4298 Nov 24 19:20	6° <b>≯</b> ¹57'20		minimum elong	4299 Nov 01 00:13 4299 Nov 01 04:18	9°M42'27	1°10'31 1°10'02
max. Earth dist.	4298 Nov 26 05:16	9° <b>×</b> 15'44	1.43301 AU	max. Earth dist.	4299 Nov 08 15:47	22°M42'07	1.41517 AU
evening rise	4298 Dec 03 18:21	21° <b>х</b> 15'18		desc. node	4299 Nov 11 16:22	27°M43'51	
<i>y</i> 21	4298 Dec 09 11:00	0°ರ			4299 Nov 13 01:42	0° <b>∡</b> 7	
	4298 Dec 30 17:22	0°≈		evening rise	4299 Nov 13 20:40	1° <b>∡</b> 16'49	
evening max el	4299 Jan 03 19:29	4° <b>≈</b> 36′21	21°33'39		4299 Dec 02 22:11	ರ°ರ	
retrograde	4299 Jan 12 18:30	9° <b>≈</b> 55'34		evening max el	4299 Dec 17 12:16	18° <b>る</b> 12'35	22°51'37
asc. node	4299 Jan 14 22:07	9° <b>≈</b> 30'33		retrograde	4299 Dec 27 13:45	24° <b>る</b> 10'44	
evening set	4299 Jan 17 01:05	8° <b>≈</b> 14′28		evening set	4300 Jan 01 08:15	22° <b>る</b> 13'34	
inferior conj	4299 Jan 22 09:19	1°≈57'55	2°18'34	asc. node	4300 Jan 01 19:10	21° <b>る</b> 49'47	
minimum elong	4299 Jan 22 06:53	2°≈06'19	2°17'48	inferior conj	4300 Jan 06 17:14	15° <b>る</b> 50'29	1°36'12
min. Earth dist.	4299 Jan 22 13:55	1°≈41'57	0.67906 AU	minimum elong	4300 Jan 06 15:15	15° <b>る</b> 57'20	1°35'28
	4299 Jan 23 19:39	30°Rる 25° <b>ス</b> 45147		min. Earth dist.	4300 Jan 06 10:29	16° <b>る</b> 13'47	0.68038 AU
morning rise	4299 Jan 27 12:30	25°₹345'47		morning rise	4300 Jan 11 22:08	9°る41'55 7°る53'18	
direct morning max el	4299 Feb 01 14:05 4299 Feb 11 17:27	23° <b>පි</b> 34'15 29° <b>පි</b> 35'21	23°05'22	direct morning max el	4300 Jan 16 09:08 4300 Jan 25 06:48	7°53318 13° <b>る</b> 04'56	21°39'15
morning max ci	4299 Feb 11 17.27 4299 Feb 12 03:08	29 <b>⊘</b> 33 21	43 VJ 44	desc. node	4300 Jan 23 06.48 4300 Feb 07 15:37	13 <b>3</b> 04 36 29° <b>る</b> 57'03	41 J7 IJ
desc. node	4299 Feb 20 18:34	0 ∞ 10°≈19'23		acse. Houe	4300 Feb 07 16:27	29 <b>3</b> 7 03 0° <b>≈</b>	
	4299 Mar 06 13:08	0° <b>∀</b>		morning set	4300 Feb 26 08:14	28° <b>≈</b> 08'42	
morning set	4299 Mar 18 10:28	18° <b>¥</b> 55'52		<i>3 ,</i>	4300 Feb 27 12:06	0° <b>∀</b>	
<b>5</b>							

4302 Jan 05 15:49

0°정

4301 Feb 01 03:50

0°≈

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11-	4202 I 12 00:41	100=20100		1-	4202 N 22 10.17	220 <b>M</b> 5/150	
desc. node	4302 Jan 12 09:41	10°る20'00		asc. node	4302 Nov 23 10:17	23°M56'58	
morning set	4302 Jan 15 07:07 4302 Jan 25 01:14	14°る48'26 0°≈		morning rise direct	4302 Nov 26 04:00	21°M48'47 20°M58'55	
max. Earth dist.	4302 Jan 28 15:00	0 ≈ 5°≈37'18	1.44745 AU	morning max el	4302 Nov 29 03:23 4302 Dec 05 19:00	24°M37'07	18°33'20
max. Earth tist.	4302 Jan 28 13.00	<i>5</i> ≈ <i>3</i> / 10	1.44/43 AU	morning max er	4302 Dec 10 07:14	24 IIG3707 0° <b>⊼</b> 7	16 33 20
superior conj	4302 Feb 01 00:45	11° <b>≈</b> 01'17	-1°50'52	morning set	4302 Dec 26 04:46	24° <b>×</b> <sup>7</sup> 23'51	
minimum elong	4302 Jan 31 16:52	10°≈29'54	1°50'18	morning sec	4302 Dec 29 17:24	0°る	
minimum ciong	4302 Feb 12 17:36	0° <b>¥</b>	1 20 10	desc. node	4302 Dec 30 06:41	0° <b>る</b> 52'38	
evening rise	4302 Feb 15 08:23	4° <b>¥</b> 20'01		dese. node	.502 500 50 00.11	0 00230	
	4302 Mar 03 13:44	0° <b>Υ</b>		superior conj	4303 Jan 11 04:23	19° <b>ට</b> 37'20	-1°15'50
asc. node	4302 Mar 04 12:30	1° <b>Υ</b> 12'00		minimum elong	4303 Jan 10 19:37	19° <b>ට</b> 02'58	
evening max el	4302 Mar 06 15:35	3° <b>Y</b> 35'12	18°23'50	max. Earth dist.	4303 Jan 11 08:56	19° <b>ප්</b> 555'12	1.45268 AU
retrograde	4302 Mar 13 02:59	7° <b>Ƴ</b> 05'57			4303 Jan 17 19:03	0° <b>≈</b>	
evening set	4302 Mar 16 04:02	6° <b>Y</b> 15′08		evening rise	4303 Jan 27 00:01	14° <b>≈</b> 33'10	
inferior conj	4302 Mar 22 01:04	0° <b>Υ</b> 47'30	3°35'44	greatest brilliancy	4303 Feb 04 22:24	28° <b>≈</b> 43'51	-0.8m
minimum elong	4302 Mar 22 01:04	0° <b>Ƴ</b> 47'31	3°35'45		4303 Feb 05 17:50	0° <b>∀</b>	
_	4302 Mar 22 17:25	30° <b>Ŗ</b> ₩		evening max el	4303 Feb 18 01:52	17° <b>)</b> 04′10	18°57'42
min. Earth dist.	4302 Mar 24 07:53	28° <b>₩</b> 09'25	0.64202 AU	asc. node	4303 Feb 19 09:33	18° <b>₩</b> 19'19	
morning rise	4302 Mar 27 21:19	24° <b>)</b> €37'32		retrograde	4303 Feb 24 21:35	20° <b>)</b> 54′29	
direct	4302 Apr 03 16:57	21° <b>¥</b> 50′08		evening set	4303 Feb 28 05:14	19° <b>)</b> 50′48	
desc. node	4302 Apr 10 08:53	24° <b>₭</b> 00'42		inferior conj	4303 Mar 05 19:36	14° <b>)</b> €06′20	3°28'53
morning max el	4302 Apr 17 09:05	29° <b>)</b> 46′49	27°30'29	minimum elong	4303 Mar 05 18:16	14° <b>) (</b> 10′32	3°28'44
	4302 Apr 17 14:19	$0^{\circ}$ Y		min. Earth dist.	4303 Mar 07 10:49	12° <b>)</b> €03'18	0.65777 AU
	4302 May 09 13:16	$0^{\circ}$ 8		morning rise	4303 Mar 11 06:54	7° <b>)</b> 53′06	
morning set	4302 May 22 11:19	23° <b>8</b> 22'10		direct	4303 Mar 17 19:05	5° <b>)</b> €02'52	
	4302 May 25 18:31	$\Pi$ °0		desc. node	4303 Mar 28 05:54	10° <b>∺</b> 19′09	
max. Earth dist.	4302 May 27 08:35	3° <b>Ⅱ</b> 16′27	1.33252 AU	morning max el	4303 Mar 30 18:57	12° <b>) (</b> 44′11	26°38'00
					4303 Apr 13 16:18	$0$ ° $\mathbf{\Upsilon}$	
superior conj	4302 May 30 11:28	9° <b>Ⅱ</b> 51′00	-0°10'34		4303 May 02 04:39	$9^{\circ}$ 8	
minimum elong	4302 May 30 12:00	9° <b>Ⅱ</b> 53'52	0°10'28	morning set	4303 May 05 18:01	6° <b>8</b> 35'57	
behind sun begin	4302 May 30 07:52	9° <b>Ⅱ</b> 31'53		max. Earth dist.	4303 May 09 22:39	14° <b>8</b> 44'11	1.34553 AU
behind sun end	4302 May 30 16:07	10° <b>Ⅱ</b> 15'52					
asc. node	4302 May 31 11:47	12° <b>Ⅱ</b> 00'56		superior conj	4303 May 14 10:58	23° <b>8</b> 53'35	
evening rise	4302 Jun 06 15:04	25° <b>Ⅱ</b> 09'17		minimum elong	4303 May 14 13:06	24° <b>8</b> 04'32	0°39'15
	4302 Jun 08 22:53	0°€			4303 May 17 09:18	0°II	
	4302 Jun 27 23:52	$0$ ° $\Omega$		asc. node	4303 May 18 08:49	2° <b>Ⅱ</b> 03'26	
evening max el	4302 Jun 28 09:14	0° <b>Ω</b> 23'07	22°32'54	evening rise	4303 May 22 00:25	9° <b>Ⅱ</b> 41'59	
desc. node	4302 Jul 07 08:05	6° <b>Ω</b> 14'38			4303 Jun 01 18:46	0.ee	
retrograde	4302 Jul 11 12:14	6° <b>Ω</b> 54'43		evening max el	4303 Jun 10 06:57		21°02'44
evening set	4302 Jul 14 16:34	6° <b>Ω</b> 32'27	0.55104.411	retrograde	4303 Jun 22 01:00	16°549'45	
min. Earth dist.	4302 Jul 22 16:43	3° <b>Ω</b> 02'44		evening set	4303 Jun 24 05:47	16°538'24	
inferior conj	4302 Jul 23 20:56	2° <b>Ω</b> 22'36		desc. node	4303 Jun 24 05:06	16°938'41	2042147
minimum elong	4302 Jul 23 12:50 4302 Jul 28 08:03	2° <b>№</b> 34'08 30° <b>№</b>	4 1/12	inferior conj minimum elong	4303 Jul 03 14:13 4303 Jul 03 06:54	12°540'48 12°551'08	2°40'18
morning rise	4302 Aug 01 11:09	28°932'08		min. Earth dist.	4303 Jul 04 03:52	12 <b>9</b> 31 08	0.54824 AU
direct	4302 Aug 01 11:09 4302 Aug 04 12:12	28°9510'56		morning rise	4303 Jul 12 08:06	8°941'20	0.54624 AU
direct	4302 Aug 11 04:28	0°Ω		direct	4303 Jul 15 21:31	8°914'02	
morning max el	4302 Aug 15 21:46	3° <b>Ω</b> 29'17	21°04'19	morning max el	4303 Jul 28 18:18	14° <b>©</b> 22'21	22°41'14
asc. node	4302 Aug 27 11:03	19° <b>Ω</b> 08'04	21 011)	morning max or	4303 Aug 09 17:16	0° <b>Ω</b>	22 11 1 1
. 11040	4302 Sep 02 05:01	0° <b>m</b> )		asc. node	4303 Aug 14 08:05	8° <b>Ω</b> 14'40	
morning set	4302 Sep 04 14:48	4° Mp 54'47		morning set	4303 Aug 20 01:27	19° <b>Ω</b> 45'52	
					4303 Aug 24 20:39	0° m/	
superior conj	4302 Sep 12 00:08	20° <b>m</b> 19'10	1°44'00				
minimum elong	4302 Sep 11 23:55	20° m) 18'03	1°44'00	superior conj	4303 Aug 27 03:48	4° m 54'53	1°39'35
max. Earth dist.	4302 Sep 16 11:36	29° <b>m</b> 22'41	1.35525 AU	minimum elong	4303 Aug 27 02:25	4° mp 47'28	1°39'30
	4302 Sep 16 19:10	0∘ <u>⊽</u>		max. Earth dist.	4303 Aug 30 05:27	11° m, 22'31	1.34020 AU
evening rise	4302 Sep 20 15:04	7° <b>₽</b> 22'29		evening rise	4303 Sep 04 00:01	21° <b>m</b> 01'57	
desc. node	4302 Oct 03 07:24	29° <b>₽</b> 19'00		-	4303 Sep 08 17:16	0∘ <b>⊽</b>	
	4302 Oct 03 17:46	$0^{\circ}$ M		desc. node	4303 Sep 20 04:24	19° <b>≏</b> 18′08	
evening max el	4302 Oct 26 02:43	29°M15'16	26°28'36		4303 Sep 27 15:00	$0^{\circ}$ M	
	4302 Oct 26 21:36	0° <b>∡</b> ¹		evening max el	4303 Oct 08 15:22	12°M47'12	27°11'09
retrograde	4302 Nov 07 23:35	6° <b>∡</b> ¹28'31		retrograde	4303 Oct 22 00:11	20°M04'53	
evening set	4302 Nov 14 10:06	3° <b>∡</b> ′51'14		evening set	4303 Oct 28 21:44	17°M23'59	
	4302 Nov 18 04:31	30°RML		min. Earth dist.	4303 Nov 01 18:27	13°M42'52	0.65006 AU
min. Earth dist.	4302 Nov 18 13:04	29°M34'43	0.66287 AU	inferior conj	4303 Nov 03 22:16	11°M19'09	-2°07'27
inferior conj	4302 Nov 20 04:55	27°M34'20	-1°05'57	minimum elong	4303 Nov 04 01:53	11°M09'06	2°06'02
minimum elong	4302 Nov 20 06:44	$27^{\circ}$ M $_{2}8'53$	1°05'10	morning rise	4303 Nov 10 07:05	5°M46'46	

asc. node	4303 Nov 10 07:19	5°M46'30		minimum elong	4304 Oct 17 11:31	24° <b>£</b> 35'58	3°07'20
direct	4303 Nov 10 07:19 4303 Nov 12 22:49	5°ML09'20		morning rise	4304 Oct 24 02:02	19° <b>£</b> 33′28	3 07 20
morning max el	4303 Nov 12 22:47 4303 Nov 19 10:21	8°M36'46	18°03'11	direct	4304 Oct 24 02:02 4304 Oct 26 12:40	19° <b>⊆</b> 04'50	
morning max cr	4303 Nov 19 10:21 4303 Dec 04 00:56	0° <b>⊼</b>	10 03 11	asc. node	4304 Oct 27 04:22	19° <b>2</b> 06'56	
morning set	4303 Dec 07 08:10	5° <b>∡</b> 728'49		morning max el	4304 Nov 02 03:04	22° <b>£</b> 30'08	17°50'27
desc. node	4303 Dec 17 03:42	21° <b>×</b> <sup>7</sup> 33'56		morning max or	4304 Nov 07 23:03	0°M	17 3027
acse. node	1303 200 17 03.12	21 7. 33 00		morning set	4304 Nov 18 13:08	17° <b>M</b> 47'27	
superior conj	4303 Dec 21 11:46	28° <b>∡</b> ³30'47	-0°29'33	8 - 11	4304 Nov 25 15:02	0° <b>⊼</b>	
minimum elong	4303 Dec 21 08:06	28° <b>∡</b> 16'11					
Č	4303 Dec 22 10:13	ರ°0		superior conj	4304 Nov 30 16:20	8° <b>∡</b> 28'17	0°16'19
max. Earth dist.	4303 Dec 25 04:29	4° <b>ට</b> 21'58	1.45051 AU	minimum elong	4304 Nov 30 18:02	8° <b>∡</b> ³35'17	0°16'06
evening rise	4304 Jan 06 19:18	24° <b>る</b> 01'09		behind sun begin	4304 Nov 30 17:45	8° <b>≯</b> ³34′06	
-	4304 Jan 10 16:25	0° <b>≈</b>		behind sun end	4304 Nov 30 18:19	8° <b>₹</b> 36′28	
greatest brilliancy	4304 Jan 20 10:18	14° <b>≈</b> 48'47	-0.7m	desc. node	4304 Dec 03 00:43	12° <b>∡</b> 19'48	
	4304 Jan 31 18:11	0° <b>)</b> €		max. Earth dist.	4304 Dec 06 22:24	18° <b>∡</b> ³38′20	1.44118 AU
evening max el	4304 Feb 01 07:59	0° <b>)</b> 36′14	19°47'49		4304 Dec 14 03:28	5°0	
asc. node	4304 Feb 06 06:35	4° <b>)</b> 21'47		evening rise	4304 Dec 16 05:04	3° <b>る</b> 11'48	
retrograde	4304 Feb 08 19:06	4° <b>¥</b> 55'53			4305 Jan 03 05:07	0° <b>≈</b>	
evening set	4304 Feb 12 10:32	3° <b>¥</b> 38'17		evening max el	4305 Jan 14 08:42	14° <b>≈</b> 09′05	20°51'50
	4304 Feb 16 01:24	30° <b>R</b> ≈		retrograde	4305 Jan 22 17:16	19° <b>≈</b> 05′29	
inferior conj	4304 Feb 17 20:52	27° <b>≈</b> 39'04	3°09'17	asc. node	4305 Jan 23 03:38	19° <b>≈</b> 04'28	
minimum elong	4304 Feb 17 18:43	27° <b>≈</b> 46′15	3°08'51	evening set	4305 Jan 26 17:54	17° <b>≈</b> 33'03	
min. Earth dist.	4304 Feb 18 21:27	26°≈17′20	0.66934 AU	inferior conj	4305 Feb 01 02:21	11° <b>≈</b> 21'42	2°39'33
morning rise	4304 Feb 23 02:41	21° <b>≈</b> 25′02		minimum elong	4305 Jan 31 23:53	11° <b>≈</b> 30′11	2°38'53
direct	4304 Feb 29 02:54	18° <b>≈</b> 44'04		min. Earth dist.	4305 Feb 01 13:47	10° <b>≈</b> 42′25	0.67667 AU
morning max el	4304 Mar 12 04:03	25° <b>≈</b> 55'27	25°23'24	morning rise	4305 Feb 06 05:43	5° <b>≈</b> 08′29	
desc. node	4304 Mar 14 02:57	27° <b>≈</b> 58'58		direct	4305 Feb 11 15:43	2° <b>≈</b> 45'02	
	4304 Mar 15 21:56	0° <b>ℋ</b>		morning max el	4305 Feb 22 12:44	9° <b>≈</b> 14'06	23°56'45
	4304 Apr 06 05:35	$0^{\circ}$ $\Upsilon$		desc. node	4305 Feb 28 23:59	16° <b>≈</b> 36'43	
morning set	4304 Apr 17 09:07	19° <b>Y</b> ′00′25			4305 Mar 10 21:22	0° <b>∀</b>	
max. Earth dist.	4304 Apr 21 01:45	25° <b>Y</b> 49'15	1.36299 AU		4305 Mar 29 22:09	0° <b>Υ</b>	
	4304 Apr 23 06:29	0°8		morning set	4305 Mar 30 02:53	0° <b>Υ</b> 20'17	
				max. Earth dist.	4305 Apr 02 21:57	6° <b>Ƴ</b> 58'27	1.38371 AU
superior conj	4304 Apr 27 01:38	7° <b>8</b> 25'53					
minimum elong	4304 Apr 27 05:20	7° <b>8</b> 44'17	1°08'09	superior conj	4305 Apr 10 03:55	20°Υ18'35	
asc. node	4304 May 04 05:51	21° <b>8</b> 57'17		minimum elong	4305 Apr 10 08:40	20° <b>Y</b> 41'07	1°35'00
evening rise	4304 May 05 05:30	23° <b>8</b> 57'16			4305 Apr 15 04:23	0° <b>8</b>	
	4304 May 08 06:06	0°Ⅱ 22°Ⅱ22'42	10040151	evening rise	4305 Apr 19 03:43	7° <b>と</b> 47'48 11° <b>と</b> 37'56	
evening max el retrograde	4304 May 22 16:44 4304 Jun 01 17:16	22° <b>II</b> 22'42 27° <b>II</b> 15'49	19°48'51	asc. node	4305 Apr 21 02:55	0° <b>Ⅱ</b>	
evening set	4304 Jun 03 15:57	27° <b>I</b> 13'49' 27° <b>I</b> 05'35		evening max el	4305 May 01 20:06 4305 May 05 14:02	0 H 4°H22'57	1005/152
desc. node	4304 Jun 10 02:09	24° <b>I</b> I31'53		retrograde	4305 May 14 00:49	4 <b>П</b> 22 37 8° <b>П</b> 30'57	10 34 33
inferior conj	4304 Jun 12 13:00	23° <b>I</b> I03'57	00/3//3	evening set	4305 May 16 03:18	8° <b>П</b> 16'35	
minimum elong	4304 Jun 12 10:59	23° <b>I</b> 103'37' 23° <b>I</b> 107'02	0°42'58	inferior conj	4305 May 24 05:12	3° <b>∏</b> 59'29	1°04'24
min. Earth dist.	4304 Jun 14 16:41	21° <b>II</b> 44'39		minimum elong	4305 May 24 07:36	3° <b>П</b> 55'12	1°03'33
morning rise	4304 Jun 21 03:55	18° <b>I</b> 37'00	0.33 121 110	min. Earth dist.	4305 May 27 08:39	1° <b>∏</b> 46′01	0.56855 AU
direct	4304 Jun 25 12:07	17° <b>I</b> 55'30		desc. node	4305 May 27 23:11	1° <b>П</b> 21'36	0.50055710
morning max el	4304 Jul 09 08:44	24° <b>∏</b> 48'14	24°24'47	desc. node	4305 May 30 04:32	30°₽ <b>8</b>	
5 5	4304 Jul 14 04:08	0ංම		morning rise	4305 Jun 01 08:40	28° <b>8</b> 56'28	
asc. node	4304 Jul 31 05:06	27° <b>©</b> 45'29		direct	4305 Jun 06 15:53	27° <b>8</b> 49'13	
	4304 Aug 01 07:35	$0^{\circ}\Omega$			4305 Jun 14 04:14	0° <b>Ⅱ</b>	
morning set	4304 Aug 03 13:12	4° <b>Ω</b> 39'33		morning max el	4305 Jun 20 23:36	5° <b>Ⅱ</b> 14'56	25°59'51
					4305 Jul 08 23:36	0ಂತಾ	
superior conj	4304 Aug 10 12:13	19° <b>Ω</b> 43'32	1°29'23	asc. node	4305 Jul 18 02:09	17° <b>©</b> 33'51	
minimum elong	4304 Aug 10 10:07	19° <b>Ω</b> 32'05	1°29'09	morning set	4305 Jul 19 00:27	19° <b>©</b> 31'01	
max. Earth dist.	4304 Aug 12 08:03	23° <b>Ω</b> 40'48	1.32930 AU		4305 Jul 23 20:41	$0^{\circ}\Omega$	
	4304 Aug 15 07:20	0° <b>m</b>					
evening rise	4304 Aug 17 19:40	5° Mp 11'36		superior conj	4305 Jul 25 23:19	4° <b>Ω</b> 38'38	1°14'15
	4304 Aug 31 08:37	0∘ <b>亚</b>		minimum elong	4305 Jul 25 20:59	4° <b>Ω</b> 25'48	1°13'54
desc. node	4304 Sep 06 01:26	8° <b>≏</b> 47'43		max. Earth dist.	4305 Jul 26 16:50	6° <b>Ω</b> 15′03	1.32259 AU
evening max el	4304 Sep 20 02:23	25° <b>≏</b> 56'19	27°26'55	evening rise	4305 Aug 01 22:54	19° <b>Ω</b> 42'31	
	4304 Sep 25 01:01	0°M₊			4305 Aug 07 01:56	0° <b>m</b>	
retrograde	4304 Oct 03 18:24	3°M12'37		desc. node	4305 Aug 23 22:28	27° <b>m</b> 35'37	
evening set	4304 Oct 10 22:27	0°M37'16			4305 Aug 25 18:38	0。 <b>亚</b>	
	4304 Oct 11 18:14	30° <b>₹</b> Ω		evening max el	4305 Sep 02 09:14	8° <b>ഫ</b> 29'29	27°10'49
min. Earth dist.	4304 Oct 14 14:21	27° <b>≏</b> 28'41	0.63389 AU	retrograde	4305 Sep 16 05:39	15° <b>≏</b> 42'35	
inferior conj	4304 Oct 17 06:15	24° <b>≏</b> 49'08	-3°09'07	evening set	4305 Sep 23 08:28	13° <b>≏</b> 24'49	

min. Earth dist.	4305 Sep 26 23:37	10° <b>≏</b> 40'25	0.61487 AU	inferior conj	4306 Sep 12 05:14	20° m 32'37	-4°51'42
inferior conj	4305 Sep 30 01:44	7° <b>£</b> 56'43	-4°06'25	minimum elong	4306 Sep 12 10:04	20° m 23'16	4°50'59
minimum elong	4305 Sep 30 07:48	7° <b>≏</b> 43'18	4°04'51	morning rise	4306 Sep 19 23:17	15° m 59'26	
morning rise	4305 Oct 07 08:58	3° <b>₽</b> 01'08		direct	4306 Sep 22 08:31	15° <b>m</b> 39'29	
direct	4305 Oct 09 17:18	2° <b>₽</b> 38'12		morning max el	4306 Sep 30 03:55	19° <b>m</b> 26'42	18°21'16
asc. node	4305 Oct 14 01:24	3° <b>≙</b> 59'42		asc. node	4306 Sep 30 22:25	20° Mp 13'13	
morning max el	4305 Oct 16 18:01	6° <b>≙</b> 09'46	17°56'01		4306 Oct 07 23:32	0∘ <b>⊽</b>	
	4305 Nov 01 00:00	o° <b>m</b> ₊		morning set	4306 Oct 16 02:45	14° <b>≙</b> 51'14	
morning set	4305 Nov 01 13:10	1° <b>ML</b> 00'06			4306 Oct 24 02:44	0°M	
superior conj	4305 Nov 11 23:39	19° <b>M</b> .43'59	0°53'51	superior conj	4306 Oct 25 06:37	2°ML08'37	1°20'27
minimum elong	4305 Nov 12 03:38	20°ML01'18	0°53'19	minimum elong	4306 Oct 25 10:21	2°M25'42	1°20'03
minimum ciong	4305 Nov 18 00:30	0°×7	0 33 17	max. Earth dist.	4306 Nov 01 19:18	15°M30'50	1.40653 AU
max. Earth dist.	4305 Nov 19 11:34	2° <b>×</b> <sup>7</sup> 25'05	1.42587 AU	evening rise	4306 Nov 06 08:40	23°M10'26	1.10023710
desc. node	4305 Nov 19 21:45	3° <b>₹</b> 106'57	1.12307110	desc. node	4306 Nov 06 18:47	23°M52'02	
evening rise	4305 Nov 25 21:17	12° <b>х</b> 44'16		dese. node	4306 Nov 10 13:56	0° <b>⊼</b>	
* · · · · · · · · · · · · · · · · · · ·	4305 Dec 07 04:40	0°ਰ			4306 Dec 01 04:00	0°る	
evening max el	4305 Dec 28 03:55	27° <b>♂</b> 42'57	22°06'09	evening max el	4306 Dec 10 19:01	11° <b>る</b> 20'14	23°25'47
evening man er	4305 Dec 30 14:31	0°≈	0003	retrograde	4306 Dec 21 08:12	17° <b>る</b> 34'38	25 25 17
retrograde	4306 Jan 06 14:07	3°≈19'31		evening set	4306 Dec 26 08:02	15° <b>る</b> 30'47	
asc. node	4306 Jan 10 00:41	2°≈16'22		asc. node	4306 Dec 27 21:42	13° <b>る</b> 59'40	
evening set	4306 Jan 11 01:36	1°≈31'30		inferior conj	4306 Dec 31 17:44	9° <b>る</b> 05'54	1°16'13
e venning sec	4306 Jan 12 16:00	30°R₹		minimum elong	4306 Dec 31 16:04	9° <b>ට</b> 11'36	1°15'35
inferior conj	4306 Jan 16 09:56	25° <b>ප</b> 11'25	2°01'27	min. Earth dist.	4306 Dec 31 06:22	9° <b>る</b> 44'52	0.67973 AU
minimum elong	4306 Jan 16 07:38	25° <b>る</b> 19'22	2°00'41	morning rise	4307 Jan 06 00:02	2°る59'09	0.07975110
min. Earth dist.	4306 Jan 16 09:33	25° <b>る</b> 12'44	0.68004 AU	direct	4307 Jan 10 05:02	1°る20'14	
morning rise	4306 Jan 21 13:33	19° <b>පි</b> 00'31	0.00001710	morning max el	4307 Jan 18 15:31	6°る13'20	21°05'18
direct	4306 Jan 26 08:43	16°る58'49		desc. node	4307 Feb 02 18:03	25° <b>る</b> 45'19	21 00 10
morning max el	4306 Feb 04 23:23	22° <b>る</b> 38'56	22°27'55	dose. Hode	4307 Feb 05 15:42	0°≈	
	4306 Feb 11 08:48	0° <b>≈</b>		morning set	4307 Feb 18 04:07	19° <b>≈</b> 04'05	
desc. node	4306 Feb 15 21:01	5°≈55'57		morning sec	4307 Feb 25 00:28	0° <b>∀</b>	
dese. node	4306 Mar 04 05:54	0° <b>∀</b>		max. Earth dist.	4307 Feb 25 20:35		1.42561 AU
morning set	4306 Mar 10 17:27	10° <b>)</b> 20'44		man. Darin digi.	1507100 20 20.50	1 /(210)	12001110
max. Earth dist.	4306 Mar 15 18:10	18° <b>)</b> 42'45	1.40553 AU	superior conj	4307 Mar 05 00:46	13° <b>¥</b> 20'11	-2°07'34
	4306 Mar 22 05:58	0°Υ		minimum elong	4307 Mar 05 01:55	13° <b>¥</b> 25′06	
				8	4307 Mar 14 12:59	$_{0}$ ° $\gamma$	
superior conj	4306 Mar 23 13:16	2° <b>Y</b> 20'12	-1°56'45	evening rise	4307 Mar 16 13:44	3° <b>Y</b> 38'47	
minimum elong	4306 Mar 23 17:35	2° <b>Y</b> 39'35		asc. node	4307 Mar 25 21:00	19° <b>Y</b> 55'28	
evening rise	4306 Apr 02 15:46	21° <b>Υ</b> '04'27			4307 Apr 02 07:59	0°8	
<i>8</i>	4306 Apr 07 10:51	0°8		evening max el	4307 Apr 02 06:50	29° <b>Y</b> 57'12	18°07'13
asc. node	4306 Apr 07 23:58	0° <b>8</b> 59'23		retrograde	4307 Apr 08 22:08	3° <b>8</b> 20'42	
evening max el	4306 Apr 18 19:52	16° <b>8</b> 57'17	18°21'10	evening set	4307 Apr 11 13:52	2° <b>8</b> 48'15	
retrograde	4306 Apr 26 03:07	20° <b>8</b> 34'59			4307 Apr 15 20:21	30°RY	
evening set	4306 Apr 28 12:17	20° <b>8</b> 12'48		inferior conj	4307 Apr 18 04:18	27° <b>Y</b> ′50'47	3°10'38
inferior conj	4306 May 05 18:50	15° <b>8</b> 35'56	2°23'07	minimum elong	4307 Apr 18 06:57	27° <b>Y</b> ′44'23	3°10'12
minimum elong	4306 May 05 22:28	15° <b>8</b> 28'21	2°22'09	min. Earth dist.	4307 Apr 21 08:59	24° <b>Ƴ</b> 47'14	0.61042 AU
min. Earth dist.	4306 May 09 05:25	12° <b>8</b> 45'05	0.58845 AU	morning rise	4307 Apr 24 22:02	21° <b>Y</b> 56'29	
morning rise	4306 May 13 05:40	10° <b>8</b> 01'57		direct	4307 May 01 15:27	19° <b>Ƴ</b> 41'06	
desc. node	4306 May 14 20:14	9° <b>8</b> 16'09		desc. node	4307 May 01 17:16	19° <b>Ƴ</b> 41'07	
direct	4306 May 19 09:50	8° <b>8</b> 20'12		morning max el	4307 May 15 21:12	27° <b>Ƴ</b> 37'40	27°47'50
morning max el	4306 Jun 02 19:17	16° <b>8</b> 06'32	27°11'02	Č	4307 May 18 03:45	0°8	
C	4306 Jun 14 03:34	0° <b>I</b> I			4307 Jun 07 20:23	0° <b>Ⅱ</b>	
	4306 Jul 01 08:22	0ංම		morning set	4307 Jun 17 14:27	18° <b>∏</b> 41'49	
morning set	4306 Jul 03 09:29	4°©13'43		asc. node	4307 Jun 21 20:15	27° <b>Ⅲ</b> 39′10	
asc. node	4306 Jul 04 23:12	7°933'18			4307 Jun 22 22:16	0°©	
		- •		max. Earth dist.	4307 Jun 23 14:38	1° <b>5</b> 29'06	1.32147 AU
superior conj	4306 Jul 10 11:09	19° <b>©</b> 32'58	0°54'51				
minimum elong	4306 Jul 10 09:03	19° <b>5</b> 21'28	0°54'26	superior conj	4307 Jun 24 22:00	4° <b>©</b> 20'45	0°31'44
max. Earth dist.	4306 Jul 10 04:15	18° <b>©</b> 54'55	1.31997 AU	minimum elong	4307 Jun 24 20:37	4° <b>©</b> 13'09	0°31'26
	4306 Jul 15 05:26	$0^{\circ}\Omega$		evening rise	4307 Jul 01 18:00	19° <b>©</b> 14'25	
evening rise	4306 Jul 17 07:03	4° <b>£</b> 25'43		<b>5</b> -	4307 Jul 06 23:59	0°N	
<b>U</b>	4306 Jul 30 20:30	0° m)			4307 Jul 26 19:38	0° m)	
desc. node	4306 Aug 10 19:30	15° <b>m</b> ) 24'13		evening max el	4307 Jul 28 02:39	1° Mp 17'00	25°03'32
evening max el	4306 Aug 15 09:33	20° m/ 16'38	26°21'31	desc. node	4307 Jul 28 16:31	1° <b>m</b> ) 49'36	-
retrograde	4306 Aug 29 08:47	27° m/26'09	-	retrograde	4307 Aug 11 01:24	8° m) 20'24	
evening set	4306 Sep 04 23:01	25° m/38'46		evening set	4307 Aug 16 13:46	7° Mp 11'01	
min. Earth dist.	4306 Sep 04 23:01 4306 Sep 08 22:50	23° M) 03'42	0.59422 AU	min. Earth dist.	4307 Aug 21 14:16	4° m) 26'58	0.57430 AU
						.4 -0 00	

inferior conj	4207 Aug 24 12:24	2° m 27'42	5012124	ratra arada	4308 Jul 22 05:29	18° <b>Ω</b> 33'35	
,	4307 Aug 24 13:34			retrograde			
minimum elong	4307 Aug 24 14:06	2° Tp 26'49	5°12'34	evening set	4308 Jul 26 06:20	17° <b>Ω</b> 57'56	0.55001.477
	4307 Aug 28 11:51	30°R€		min. Earth dist.	4308 Aug 02 01:21		0.55821 AU
morning rise	4307 Sep 01 16:48	28° <b>Ω</b> 16'44		inferior conj	4308 Aug 04 01:52	13° <b>Ω</b> 37′02	
direct	4307 Sep 04 06:18	27° <b>Ω</b> 57'36		minimum elong	4308 Aug 03 20:14	13° <b>Ω</b> 45′26	4°52'27
	4307 Sep 10 12:05	0° <b>m</b>		morning rise	4308 Aug 12 12:34	9° <b>Ω</b> 43'06	
morning max el	4307 Sep 13 05:21	2°Mp10′57	19°07'37	direct	4308 Aug 15 09:01	9° <b>Ω</b> 23'07	
asc. node	4307 Sep 17 19:28	7° <b>m</b> 32'23		morning max el	4308 Aug 25 19:41	14° <b>Ω</b> 14'08	20°15'48
morning set	4307 Sep 30 01:44	29° Mp 09'10		asc. node	4308 Sep 03 16:30	25° <b>Ω</b> 43'01	
•	4307 Sep 30 11:59	0∘ <b>⊽</b>			4308 Sep 06 04:36	O° Mp	
				morning set	4308 Sep 13 07:05	13° m) 45'56	
superior conj	4307 Oct 08 07:50	15° <b>≏</b> 26'39	1°36'32	morning sec	.500 бер 15 07.00	15 14 15 50	
minimum elong	4307 Oct 08 10:08	15° <b>⊆</b> 37'43	1°36'22	superior conj	4308 Sep 20 22:24	29° <b>m</b> 24'37	1°43'30
C					•	-•	
max. Earth dist.	4307 Oct 15 00:01	27° <b>£</b> 55'58	1.38564 AU	minimum elong	4308 Sep 20 23:02	29° m 27'51	1°43'30
	4307 Oct 16 03:37	0°M			4308 Sep 21 05:25	0∘ <b>⊽</b>	
evening rise	4307 Oct 18 19:18	4°M40'18		max. Earth dist.	4308 Sep 26 06:25	9° <b>≙</b> 54'53	1.36562 AU
desc. node	4307 Oct 24 15:47	14°M30'56		evening rise	4308 Sep 30 03:19	17° <b>≏</b> 09'37	
	4307 Nov 03 15:50	0°⊀			4308 Oct 07 11:38	$0^{\circ}$ M	
evening max el	4307 Nov 23 07:58	25° <b>₹</b> '01'19	24°44'23	desc. node	4308 Oct 10 12:48	4°M59'35	
	4307 Nov 29 11:06	0°ರ			4308 Oct 28 00:32	0° <b>∡</b> ¹	
retrograde	4307 Dec 04 22:11	1° <b>පි</b> 46'10		evening max el	4308 Nov 04 20:27	8° <b>∡</b> ¹44'24	25°54'40
C	4307 Dec 09 19:06	30°R. <b>✓</b>		retrograde	4308 Nov 17 07:26	15° <b>∡</b> ¹49'51	
evening set	4307 Dec 10 11:37	29° <b>х</b> 27'04		evening set	4308 Nov 23 10:40	13° <b>×</b> 17'48	
asc. node	4307 Dec 10 11:57 4307 Dec 14 18:43	24°×738'28		min. Earth dist.	4308 Nov 27 17:34	8° <b>×</b> <sup>7</sup> 41'01	0.66871 AU
min. Earth dist.	4307 Dec 14 18:43 4307 Dec 15 01:49	24° 🖈 15'08	0.67595 AU			6° × 7 56'37	
				inferior conj	4308 Nov 29 02:49		
inferior conj	4307 Dec 15 23:57	23°×701'46	0°24'50	minimum elong	4308 Nov 29 03:39	6° <b>₹</b> 53'59	0°31′14
minimum elong	4307 Dec 15 23:21	23° <b>∡</b> *03'47	0°24'36	asc. node	4308 Nov 30 15:44	5° <b>∡</b> ¹02'57	
morning rise	4307 Dec 21 11:12	17° <b>₹</b> '01'20		morning rise	4308 Dec 04 21:03	1° <b>≯</b> 05'02	
direct	4307 Dec 25 03:18	15° <b>∡</b> ¹43'52		direct	4308 Dec 08 02:00	0° <b>∡</b> ¹06'07	
morning max el	4308 Jan 01 15:21	19° <b>∡</b> 758'44	19°54'25	morning max el	4308 Dec 14 22:53	3° <b>∡</b> ¹54'14	18°58'20
	4308 Jan 09 18:24	0°ರ			4309 Jan 02 10:08	8°0	
desc. node	4308 Jan 20 15:03	15° <b>る</b> 55'54		morning set	4309 Jan 06 06:59	6° <b>る</b> 02'15	
morning set	4308 Jan 28 00:10	27° <b>る</b> 12'58		desc. node	4309 Jan 06 12:03	6° <b>る</b> 22'05	
Ü	4308 Jan 29 19:23	0° <b>≈</b>		max. Earth dist.	4309 Jan 20 23:22	29° <b>る</b> 00'56	1.45062 AU
max. Earth dist.	4308 Feb 08 06:56	14° <b>≈</b> 53'13	1.44128 AU		4309 Jan 21 14:23	0° <b>≈</b>	
superior conj	4308 Feb 13 10:33	23°≈10′28	-2°02'36	superior conj	4309 Jan 22 21:24	2° <b>≈</b> 02'09	-1°38'03
minimum elong	4308 Feb 13 05:49	22°≈51'16	2°02'22	minimum elong	4309 Jan 22 12:14	1°≈26'03	1°37'13
minimum ciong		0° <b>H</b>	2 02 22	Č		26°≈07'16	1 3/13
	4308 Feb 17 14:26			evening rise	4309 Feb 06 22:14		
evening rise	4308 Feb 26 17:07	15° <b>¥</b> 21′21			4309 Feb 09 07:22	0° <b>)</b> {	
	4308 Mar 06 08:29	0° <b>Υ</b>		asc. node	4309 Feb 26 15:03	25° <b>)</b> 55'44	
asc. node	4308 Mar 11 18:02	8° <b>Ƴ</b> 17'35		evening max el	4309 Feb 27 07:27	26° <b>)</b> 38′50	18°36'07
evening max el	4308 Mar 15 19:37	13° <b>Ƴ</b> 13'17	18°12'27		4309 Mar 04 03:48	$0$ ° $\Upsilon$	
retrograde	4308 Mar 22 05:39	16° <b>Ƴ</b> 37'27		retrograde	4309 Mar 05 21:22	0° <b>Ƴ</b> 16′36	
evening set	4308 Mar 25 03:23	15° <b>Ƴ</b> 53'27			4309 Mar 07 14:25	30°Ŗ <b>ℋ</b>	
inferior conj	4308 Mar 31 05:40	10° <b>Ƴ</b> 36′12	3°32'26	evening set	4309 Mar 09 01:11	29° <b>)</b> 20′16	
minimum elong	4308 Mar 31 06:37	10° <b>Ƴ</b> 33'37	3°32'22	inferior conj	4309 Mar 14 18:59	23° <b>)(</b> 44'56	3°34'37
min. Earth dist.	4308 Apr 02 21:12	7° <b>Ƴ</b> 43'49	0.63133 AU	minimum elong	4309 Mar 14 18:21	23° <b>)</b> 46′50	3°34'35
morning rise	4308 Apr 06 08:46	4° <b>Υ</b> 30'22		min. Earth dist.	4309 Mar 16 18:59	21° <b>¥</b> 20'55	0.64919 AU
direct	4308 Apr 13 06:00	1° <b>Y</b> 51'03		morning rise	4309 Mar 20 10:58	17° <b>)</b> 33'14	
desc. node	4308 Apr 17 14:17	2° <b>Υ</b> 46'37		direct	4309 Mar 27 04:01	14° <b>¥</b> 43'20	
morning max el	4308 Apr 27 04:15	9° <b>Υ</b> 49'35	27947'05	desc. node	4309 Apr 04 11:18	18° <b>)</b> (04'44	
morning max cr	-		27 47 03				27011126
	4308 May 12 21:48	8°0		morning max el	4309 Apr 09 14:03	22° <b>)</b> (34'39	27°11'36
_	4308 May 30 03:19	0°II			4309 Apr 16 03:09	0° <b>Υ</b>	
morning set	4308 May 31 13:11	2° <b>Ⅱ</b> 48′24			4309 May 06 03:51	0°8	
max. Earth dist.	4308 Jun 05 20:08	13° <b>Ⅱ</b> 45'27	1.32722 AU	morning set	4309 May 15 02:48	16° <b>8</b> 24'47	
asc. node	4308 Jun 07 17:18	17° <b>Ⅱ</b> 47'10		max. Earth dist.	4309 May 19 17:00	25° <b>8</b> 33'37	1.33750 AU
					4309 May 21 20:38	$\Pi$ °0	
superior conj	4308 Jun 08 06:06	18° <b>Ⅱ</b> 56'12	0°05'36				
minimum elong	4308 Jun 08 05:50	18° <b>Ⅱ</b> 54'44	0°05'32	superior conj	4309 May 23 09:25	3° <b>Ⅱ</b> 12'43	-0°22'47
behind sun begin	4308 Jun 08 00:52	18° <b>Ⅱ</b> 27'56		minimum elong	4309 May 23 10:36	3° <b>Ⅱ</b> 18′58	0°22'32
behind sun end	4308 Jun 08 10:48	19° <b>Ⅱ</b> 21'34		asc. node	4309 May 25 14:20	7° <b>Ⅱ</b> 52'57	
	4308 Jun 13 08:35	0°೯		evening rise	4309 May 30 16:42	18° <b>∏</b> 42'34	
evening rise	4308 Jun 15 05:51	4°902'14			4309 Jun 05 06:53	0°95	
5 ( ching 1150	4308 Jun 29 05:36	0°Ω		evening max el	4309 Jun 20 07:47	22° <b>©</b> 11'59	21°52'57
ovenina ma1			22020116	•			21 3231
evening max el	4308 Jul 08 15:37	11° <b>Ω</b> 45'26	23 28 40	desc. node	4309 Jul 01 10:33	28°521'20	
desc. node	4308 Jul 14 13:31	16° <b>Ω</b> 20′23		retrograde	4309 Jul 02 22:25	28° <b>©</b> 26'33	

arranina aat	4200 Iul 05 14:45	200@10126		arranina aat	4210 Jun 15 11:25	99631147	
evening set	4309 Jul 05 14:45	28°5010'26	2042100	evening set	4310 Jun 15 11:35	8°921'47	
inferior conj	4309 Jul 14 22:49	24°507'09		desc. node	4310 Jun 18 07:34	7°536'36	10.53103
minimum elong	4309 Jul 14 14:13	24°519'12	3°40'44	inferior conj	4310 Jun 24 16:44	4°5524'10	
min. Earth dist.	4309 Jul 14 11:41	24° <b>©</b> 22'45	0.54921 AU	minimum elong	4310 Jun 24 11:26	4° <b>©</b> 31'52	
morning rise	4309 Jul 23 15:12	20° <b>©</b> 15'51		min. Earth dist.	4310 Jun 25 23:41	3° <b>©</b> 39'17	0.54958 AU
direct	4309 Jul 26 20:49	19° <b>©</b> 52'51		morning rise	4310 Jul 03 10:20	0° <b>©</b> 14'37	
morning max el	4309 Aug 07 22:14	25° <b>©</b> 31'44	21°43'58		4310 Jul 04 11:03	30°Ŗ <b>Ⅱ</b>	
	4309 Aug 12 01:56	$0$ $^{\circ}\Omega$		direct	4310 Jul 07 06:36	29° <b>∏</b> 42'43	
asc. node	4309 Aug 21 13:33	14° <b>Ω</b> 32'05			4310 Jul 10 01:18	0	
morning set	4309 Aug 28 16:22	28° <b>Ω</b> 33'35		morning max el	4310 Jul 20 15:39	6° <b>©</b> 11'34	23°25'13
	4309 Aug 29 08:55	0° <b>™</b>			4310 Aug 06 10:26	$0 {\circ} \mathcal{O}$	
				asc. node	4310 Aug 08 10:37	3° <b>Ω</b> 50′04	
superior conj	4309 Sep 04 22:13	13° <b>m</b> 49'39	1°42'53	morning set	4310 Aug 13 03:43	13° <b>Ω</b> 26′32	
minimum elong	4309 Sep 04 21:27	13°Mp45'38	1°42'52				
max. Earth dist.	4309 Sep 08 19:10	21°Mp48'17	1.34837 AU	superior conj	4310 Aug 20 04:14	28° <b>Ω</b> 32'12	1°35'55
	4309 Sep 12 22:50	0∘ <b>⊽</b>		minimum elong	4310 Aug 20 02:29	28° <b>Ω</b> 22'46	1°35'46
evening rise	4309 Sep 13 04:23	0° <b>ჲ</b> 26'40			4310 Aug 20 20:36	0° <b>m</b> )	
desc. node	4309 Sep 27 09:50	25° <b>£</b> 11'35		max. Earth dist.	4310 Aug 22 16:40	3° m 54'27	1.33505 AU
	4309 Sep 30 13:15	0°M		evening rise	4310 Aug 27 18:20	14° Mp 20'20	
evening max el	4309 Oct 18 09:00	22°M22'21	26°49'23	•	4310 Sep 05 02:28	0∘ <b>⊽</b>	
retrograde	4309 Oct 31 11:24	29°M38'34		desc. node	4310 Sep 14 06:52	14° <b>≏</b> 59'27	
evening set	4309 Nov 07 03:10	26°M58'27			4310 Sep 25 11:03	0°M	
min. Earth dist.	4309 Nov 11 03:17	22°M57'26	0.65791 AU	evening max el	4310 Sep 30 21:00	5°M45'32	27°21'22
inferior conj	4309 Nov 13 00:17	20°M46'11		retrograde	4310 Oct 14 09:38	13°M.04'00	2, 2122
minimum elong	4309 Nov 13 02:51	20°M38'40	1°30'45	evening set	4310 Oct 21 10:36	10°M23'55	
asc. node	4309 Nov 17 12:46	16°M08'44	1 30 43	min. Earth dist.	4310 Oct 25 04:53	6°M57'17	0.64358 AU
morning rise	4309 Nov 17 12:40 4309 Nov 19 03:21	15°M06'09		inferior conj	4310 Oct 27 13:59	4°M25'24	
direct	4309 Nov 19 03.21 4309 Nov 21 23:11	13 1100009 14°M22'06		minimum elong	4310 Oct 27 13:39 4310 Oct 27 18:21	4°M13'45	
			18°18'27	minimum ciong	4310 Oct 27 18.21 4310 Nov 01 08:39	4 IIC13 43 30°R <b>Ω</b>	2 32 12
morning max el	4309 Nov 28 12:13	17°M54'24 0°⊀	10 102/				
. ,	4309 Dec 07 13:22	16° <b>∡</b> ¹16'07		morning rise	4310 Nov 03 03:23	28° <b>£</b> 59'53	
morning set	4309 Dec 17 17:16			asc. node	4310 Nov 04 09:50	28° <b>£</b> 35'12	
desc. node	4309 Dec 24 09:06	26° <b>₹</b> 59'01		direct	4310 Nov 05 16:30	28° <b>Ω</b> 26'46	
	4309 Dec 26 06:29	0°ප			4310 Nov 09 23:50	0°M,	15055100
				morning max el	4310 Nov 12 04:33		17°55'32
superior conj	4310 Jan 01 23:57	10°₹38'15		morning set	4310 Nov 29 08:16	27°M54'25	
minimum elong	4310 Jan 01 16:55	10° <b>⋜</b> 10'34			4310 Nov 30 13:57	0° <b>∡</b>	
max. Earth dist.	4310 Jan 03 18:27	13° <b>る</b> 25'08	1.45263 AU	desc. node	4310 Dec 11 06:08	17° <b>∡</b> ¹42'41	
	4310 Jan 14 08:44	0° <b>≈</b>					
evening rise	4310 Jan 18 04:28	5° <b>≈</b> 59'01		superior conj	4310 Dec 12 14:54	19° <b>∡</b> 55'15	-0°09'27
greatest brilliancy	4310 Jan 29 07:22	23°≈18'46	-0.8m	minimum elong	4310 Dec 12 13:47	19° <b>∡</b> 50'46	0°09'16
	4310 Feb 02 18:26	0° <b>)</b> €		behind sun begin	4310 Dec 12 05:19	19° <b>∡</b> 16'37	
evening max el	4310 Feb 10 16:05	10° <b>)</b> €09'07	19°17'08	behind sun begin behind sun end	4310 Dec 12 05:19 4310 Dec 12 22:14		
asc. node		10° <b>米</b> 09′07 12° <b>米</b> 37′20	19°17'08			19° <b>尽</b> 16'37 20° <b>尽</b> 24'52 27° <b>尽</b> 47'18	1.44731 AU
•	4310 Feb 10 16:05	10° <b>)</b> €09'07	19°17'08	behind sun end	4310 Dec 12 22:14	19° <b>х</b> 16'37 20° <b>х</b> 24'52	1.44731 AU
asc. node	4310 Feb 10 16:05 4310 Feb 13 12:05	10° <b>米</b> 09′07 12° <b>米</b> 37′20	19°17'08	behind sun end	4310 Dec 12 22:14 4310 Dec 17 13:03	19° <b>尽</b> 16'37 20° <b>尽</b> 24'52 27° <b>尽</b> 47'18	1.44731 AU
asc. node retrograde	4310 Feb 10 16:05 4310 Feb 13 12:05 4310 Feb 17 17:40	10°¥09'07 12°¥37'20 14°¥11'18	19°17'08 3°21'58	behind sun end max. Earth dist.	4310 Dec 12 22:14 4310 Dec 17 13:03 4310 Dec 18 22:39	19° <b>メ</b> 16'37 20° <b>メ</b> 24'52 27° <b>メ</b> 47'18 0°る	1.44731 AU
asc. node retrograde evening set	4310 Feb 10 16:05 4310 Feb 13 12:05 4310 Feb 17 17:40 4310 Feb 21 04:24	10°¥09'07 12°¥37'20 14°¥11'18 13°¥01'52	3°21'58 3°21'43	behind sun end max. Earth dist.	4310 Dec 12 22:14 4310 Dec 17 13:03 4310 Dec 18 22:39 4310 Dec 28 17:48	19° 🗷 16'37 20° 🗷 24'52 27° 🗷 47'18 0° る 15° る14'26	1.44731 AU -0.6m
asc. node retrograde evening set inferior conj	4310 Feb 10 16:05 4310 Feb 13 12:05 4310 Feb 17 17:40 4310 Feb 21 04:24 4310 Feb 26 16:44	10°¥09'07 12°¥37'20 14°¥11'18 13°¥01'52 7°¥10'39	3°21'58	behind sun end max. Earth dist. evening rise	4310 Dec 12 22:14 4310 Dec 17 13:03 4310 Dec 18 22:39 4310 Dec 28 17:48 4311 Jan 07 10:27	19° ₹16'37 20° ₹24'52 27° ₹47'18 0° ₹ 15° ₹14'26 0° ≋	
asc. node retrograde evening set inferior conj minimum elong	4310 Feb 10 16:05 4310 Feb 13 12:05 4310 Feb 17 17:40 4310 Feb 21 04:24 4310 Feb 26 16:44 4310 Feb 26 14:59	10°\)\(\)09'07 12°\)\(\)37'20 14°\)\(\)11'18 13°\(\)01'52 7°\(\)\(\)10'39 7°\(\)\(\)16'18	3°21'58 3°21'43	behind sun end max. Earth dist. evening rise greatest brilliancy	4310 Dec 12 22:14 4310 Dec 17 13:03 4310 Dec 18 22:39 4310 Dec 28 17:48 4311 Jan 07 10:27 4311 Jan 12 08:24	19° ₹ 16'37 20° ₹ 24'52 27° ₹ 47'18 0° ₹ 15° ₹ 14'26 0° ≈ 7° ≈ 18'23	-0.6m
asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	4310 Feb 10 16:05 4310 Feb 13 12:05 4310 Feb 17 17:40 4310 Feb 21 04:24 4310 Feb 26 16:44 4310 Feb 26 14:59 4310 Feb 28 01:32	10°\mathcal{H}09'07 12°\mathcal{H}37'20 14°\mathcal{H}11'18 13°\mathcal{H}01'52 7°\mathcal{H}10'39 7°\mathcal{H}16'18 5°\mathcal{H}24'45	3°21'58 3°21'43	behind sun end max. Earth dist. evening rise greatest brilliancy evening max el	4310 Dec 12 22:14 4310 Dec 17 13:03 4310 Dec 18 22:39 4310 Dec 28 17:48 4311 Jan 07 10:27 4311 Jan 12 08:24 4311 Jan 24 19:54	19° ₹ 16'37 20° ₹ 24'52 27° ₹ 47'18 0° ₹ 15° ₹ 14'26 0° ≈ 7° ≈ 18'23 23° ≈ 41'12	-0.6m
asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	4310 Feb 10 16:05 4310 Feb 13 12:05 4310 Feb 17 17:40 4310 Feb 21 04:24 4310 Feb 26 16:44 4310 Feb 26 14:59 4310 Feb 28 01:32 4310 Mar 04 01:16	10°\text{\ti}\text{\texi\tinit}\xi}\\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}}}\text{\text{\text{\text{\text{\text{\text{\text{\text{\texicl{\text{\text{\texi}\text{\text{\texi}\text{\text{\text{\text{\ti}\tint{\text{\text{\text{\texit{\texi{\texi{\texi{\texi{\texiti}}\texitit{\text{\tini\tiint{\texi{\texi{\texit{\texi{\tex	3°21'58 3°21'43	behind sun end max. Earth dist. evening rise greatest brilliancy evening max el asc. node	4310 Dec 12 22:14 4310 Dec 17 13:03 4310 Dec 18 22:39 4310 Dec 28 17:48 4311 Jan 07 10:27 4311 Jan 12 08:24 4311 Jan 24 19:54 4311 Jan 31 09:07	19° ₹16'37 20° ₹24'52 27° ₹47'18 0° ₹ 15° ₹514'26 0° ≈ 7° ≈18'23 23° ≈41'12 28° ≈07'23	-0.6m
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	4310 Feb 10 16:05 4310 Feb 13 12:05 4310 Feb 17 17:40 4310 Feb 21 04:24 4310 Feb 26 16:44 4310 Feb 26 14:59 4310 Feb 28 01:32 4310 Mar 04 01:16 4310 Mar 05 04:58	10° ★09'07 12° ₩37'20 14° ₩11'18 13° ₩01'52 7° ₩10'39 7° ₩16'18 5° ₩24'45 0° ₩56'35 30° R≈	3°21'58 3°21'43	behind sun end max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde	4310 Dec 12 22:14 4310 Dec 17 13:03 4310 Dec 18 22:39 4310 Dec 28 17:48 4311 Jan 07 10:27 4311 Jan 12 08:24 4311 Jan 24 19:54 4311 Jan 31 09:07 4311 Feb 01 15:44	19° ₹16'37 20° ₹24'52 27° ₹47'18 0° ₹ 15° ₹514'26 0° ≈ 7° ≈18'23 23° ≈41'12 28° ≈07'23 28° ≈16'11	-0.6m 20°13'36
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	4310 Feb 10 16:05 4310 Feb 13 12:05 4310 Feb 17 17:40 4310 Feb 21 04:24 4310 Feb 26 16:44 4310 Feb 26 14:59 4310 Feb 28 01:32 4310 Mar 04 01:16 4310 Mar 05 04:58 4310 Mar 10 08:36	10° ★09'07 12° ₩37'20 14° ₩11'18 13° ₩01'52 7° ₩10'39 7° ₩16'18 5° ₩24'45 0° ₩56'35 30° R≈ 28° ≈09'09	3°21'58 3°21'43	behind sun end max. Earth dist.  evening rise  greatest brilliancy evening max el asc. node retrograde evening set	4310 Dec 12 22:14 4310 Dec 17 13:03 4310 Dec 18 22:39 4310 Dec 28 17:48 4311 Jan 07 10:27 4311 Jan 12 08:24 4311 Jan 24 19:54 4311 Jan 31 09:07 4311 Feb 01 15:44 4311 Feb 05 10:46	19° ₹16'37 20° ₹24'52 27° ₹47'18 0° ₹ 15° ₹14'26 0° ≈ 7° ≈18'23 23° ≈41'12 28° ≈07'23 28° ≈16'11 26° ≈52'37	-0.6m 20°13'36
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	4310 Feb 10 16:05 4310 Feb 13 12:05 4310 Feb 17 17:40 4310 Feb 21 04:24 4310 Feb 26 16:44 4310 Feb 26 14:59 4310 Feb 28 01:32 4310 Mar 04 01:16 4310 Mar 05 04:58 4310 Mar 10 08:36 4310 Mar 16 02:46	10° ★09'07 12° ★37'20 14° ★11'18 13° ★01'52 7° ★10'39 7° ★16'18 5° ★24'45 0° ★56'35 30° № 28° ≈09'09 0° ₩ 5° ★01'17	3°21'58 3°21'43	behind sun end max. Earth dist.  evening rise  greatest brilliancy evening max el asc. node retrograde evening set inferior conj	4310 Dec 12 22:14 4310 Dec 17 13:03 4310 Dec 18 22:39 4310 Dec 28 17:48 4311 Jan 07 10:27 4311 Jan 12 08:24 4311 Jan 24 19:54 4311 Jan 31 09:07 4311 Feb 01 15:44 4311 Feb 05 10:46 4311 Feb 10 20:04	19° ₹16'37 20° ₹24'52 27° ₹47'18 0° ₹ 15° ₹14'26 0° ≈ 7° ≈18'23 23° ≈41'12 28° ≈07'23 28° ≈16'11 26° ≈52'37 20° ≈47'57	-0.6m 20°13'36 2°57'47
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asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise  direct  desc. node morning max el  morning set  max. Earth dist.  superior conj minimum elong asc. node	4310 Feb 10 16:05 4310 Feb 13 12:05 4310 Feb 17 17:40 4310 Feb 21 04:24 4310 Feb 26 16:44 4310 Feb 26 14:59 4310 Feb 28 01:32 4310 Mar 04 01:16 4310 Mar 05 04:58 4310 Mar 10 08:36 4310 Mar 16 02:46 4310 Mar 22 08:19 4310 Mar 22 23:59 4310 Apr 10 17:21 4310 Apr 28 03:34 4310 Apr 28 12:09 4310 May 07 05:34 4310 May 07 08:23 4310 May 12 11:23 4310 May 13 11:57	10° ★09'07 12° ★37'20 14° ★11'18 13° ★01'52 7° ★16'18 5° ★24'45 0° ★56'35 30° ₹≈ 28° ≈09'09 0° ₩ 5° ₩01'17 5° ₩40'17 0° Ψ 29° Ψ20'03 0° ₩ 6° ₩50'41 17° ₩03'41 17° ₩18'01 27° ₩52'37 0° Щ	3°21'58 3°21'43 0.66311 AU 26°08'33 1.35239 AU -0°52'07	behind sun end max. Earth dist.  evening rise  greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	4310 Dec 12 22:14 4310 Dec 17 13:03 4310 Dec 18 22:39 4310 Dec 28 17:48 4311 Jan 07 10:27 4311 Jan 12 08:24 4311 Jan 24 19:54 4311 Jan 31 09:07 4311 Feb 01 15:44 4311 Feb 10 20:04 4311 Feb 10 17:43 4311 Feb 10 17:43 4311 Feb 11 14:58 4311 Feb 16 00:28 4311 Feb 21 18:48 4311 Mar 05 08:39 4311 Mar 09 05:21 4311 Mar 14 17:52 4311 Apr 03 19:47 4311 Apr 10 10:19	19° ₹16'37 20° ₹24'52 27° ₹47'18 0° ₹ 15° ₹14'26 0° ≈ 7° ≈18'23 23° ≈41'12 28° ≈07'23 28° ≈16'11 26° ≈52'37 20° ≈47'57 20° ≈55'55 19° ≈44'02 14° ≈33'53 11° ≈59'19 18° ≈54'48 23° ≈07'55 0° ¥ 0° ♀ 11° ♀18'58	-0.6m 20°13'36 2°57'47 2°57'16 0.67290 AU 24°47'24
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise  direct  desc. node morning max el  morning set  max. Earth dist.  superior conj minimum elong	4310 Feb 10 16:05 4310 Feb 13 12:05 4310 Feb 17 17:40 4310 Feb 21 04:24 4310 Feb 26 16:44 4310 Feb 26 14:59 4310 Feb 28 01:32 4310 Mar 04 01:16 4310 Mar 05 04:58 4310 Mar 10 08:36 4310 Mar 10 08:36 4310 Mar 22 08:19 4310 Mar 22 08:19 4310 Mar 22 23:59 4310 Apr 10 17:21 4310 Apr 28 03:34 4310 Apr 28 12:09 4310 May 07 05:34 4310 May 07 08:23 4310 May 12 11:23 4310 May 13 11:57 4310 May 15 00:34	10° ★09'07 12° ★37'20 14° ★11'18 13° ★01'52 7° ★16'18 5° ★24'45 0° ★56'35 30° ₹≈ 28° ≈09'09 0° ₩ 5° ₩01'17 5° ₩40'17 0° Ŷ 29° Ŷ20'03 0° ੴ 6° ੴ50'41  17° ੴ03'41 17° ੴ18'01 27° ੴ52'37 0° Ⅲ 3° №09'06	3°21'58 3°21'43 0.66311 AU 26°08'33 1.35239 AU -0°52'07	behind sun end max. Earth dist.  evening rise  greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.	4310 Dec 12 22:14 4310 Dec 17 13:03 4310 Dec 18 22:39 4310 Dec 28 17:48 4311 Jan 07 10:27 4311 Jan 12 08:24 4311 Jan 24 19:54 4311 Jan 31 09:07 4311 Feb 01 15:44 4311 Feb 10 20:04 4311 Feb 10 17:43 4311 Feb 10 17:43 4311 Feb 11 14:58 4311 Feb 16 00:28 4311 Feb 21 18:48 4311 Mar 05 08:39 4311 Mar 09 05:21 4311 Apr 10 10:19 4311 Apr 10 10:19 4311 Apr 14 01:16 4311 Apr 20 11:18	19° 🖈 16'37 20° 🖈 24'52 27° 🖈 47'18 0° 🛪 15° 🕏 14'26 0° 🕿 7° ※18'23 23° ※41'12 28° ※07'23 28° ※16'11 26° ※52'37 20° ※47'57 20° ※55'55 19° ※44'02 14° ※33'53 11° ※59'19 18° ※54'48 23° ※07'55 0° ¥ 0° Ŷ 11° Ŷ 18'58 17° Ŷ 50'51 0° 엉	-0.6m 20°13'36 2°57'47 2°57'16 0.67290 AU 24°47'24
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node evening rise	4310 Feb 10 16:05 4310 Feb 13 12:05 4310 Feb 17 17:40 4310 Feb 21 04:24 4310 Feb 26 16:44 4310 Feb 26 14:59 4310 Feb 28 01:32 4310 Mar 04 01:16 4310 Mar 05 04:58 4310 Mar 10 08:36 4310 Mar 10 02:46 4310 Mar 22 08:19 4310 Mar 22 23:59 4310 Apr 10 17:21 4310 Apr 28 03:34 4310 Apr 28 12:09 4310 May 07 05:34 4310 May 07 05:34 4310 May 12 11:23 4310 May 13 11:57 4310 May 30 13:57	10° ★09'07 12° ★37'20 14° ★11'18 13° ★01'52 7° ★10'39 7° ★16'18 5° ★24'45 0° ★56'35 30° ₹≈ 28° ≈09'09 0° ★ 5° ★01'17 5° ★40'17 0° ↑ 29° ↑20'03 0° ₺ 6° ₺50'41 17° ₺18'01 27° ₺52'37 0° Ⅱ 3° Ⅱ 09'06 0° \$\$	3°21'58 3°21'43 0.66311 AU 26°08'33 1.35239 AU -0°52'07 0°51'35	behind sun end max. Earth dist.  evening rise  greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.	4310 Dec 12 22:14 4310 Dec 17 13:03 4310 Dec 18 22:39 4310 Dec 28 17:48 4311 Jan 07 10:27 4311 Jan 12 08:24 4311 Jan 24 19:54 4311 Jan 31 09:07 4311 Feb 01 15:44 4311 Feb 10 20:04 4311 Feb 10 17:43 4311 Feb 10 17:43 4311 Feb 11 14:58 4311 Feb 16 00:28 4311 Feb 21 18:48 4311 Mar 05 08:39 4311 Mar 09 05:21 4311 Apr 10 10:19 4311 Apr 10 10:19 4311 Apr 10 10:16 4311 Apr 20 11:18	19° 🖈 16'37 20° 🖈 24'52 27° 🖈 47'18 0° 🛪 15° 🛪 14'26 0° 🕿 7° ※18'23 23° ※41'12 28° ※07'23 28° ※16'11 26° ※52'37 20° ※47'57 20° ※55'55 19° ※44'02 14° ※33'53 11° ※59'19 18° ※54'48 23° ※07'55 0° ¥ 0° ♀ 11° ♀ 18'58 17° ♀ 50'51 0° ௧	-0.6m 20°13'36 2°57'47 2°57'16 0.67290 AU 24°47'24 1.37143 AU -1°20'36
asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise  direct  desc. node morning max el  morning set  max. Earth dist.  superior conj minimum elong asc. node	4310 Feb 10 16:05 4310 Feb 13 12:05 4310 Feb 17 17:40 4310 Feb 21 04:24 4310 Feb 26 16:44 4310 Feb 26 14:59 4310 Feb 28 01:32 4310 Mar 04 01:16 4310 Mar 05 04:58 4310 Mar 10 08:36 4310 Mar 10 08:36 4310 Mar 22 08:19 4310 Mar 22 08:19 4310 Mar 22 23:59 4310 Apr 10 17:21 4310 Apr 28 03:34 4310 Apr 28 12:09 4310 May 07 05:34 4310 May 07 08:23 4310 May 12 11:23 4310 May 13 11:57 4310 May 15 00:34	10° ★09'07 12° ★37'20 14° ★11'18 13° ★01'52 7° ★16'18 5° ★24'45 0° ★56'35 30° ₹≈ 28° ≈09'09 0° ₩ 5° ₩01'17 5° ₩40'17 0° Ŷ 29° Ŷ20'03 0° ੴ 6° ੴ50'41  17° ੴ03'41 17° ੴ18'01 27° ੴ52'37 0° Ⅲ 3° №09'06	3°21'58 3°21'43 0.66311 AU 26°08'33 1.35239 AU -0°52'07	behind sun end max. Earth dist.  evening rise  greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.	4310 Dec 12 22:14 4310 Dec 17 13:03 4310 Dec 18 22:39 4310 Dec 28 17:48 4311 Jan 07 10:27 4311 Jan 12 08:24 4311 Jan 24 19:54 4311 Jan 31 09:07 4311 Feb 01 15:44 4311 Feb 10 20:04 4311 Feb 10 17:43 4311 Feb 10 17:43 4311 Feb 11 14:58 4311 Feb 16 00:28 4311 Feb 21 18:48 4311 Mar 05 08:39 4311 Mar 09 05:21 4311 Apr 10 10:19 4311 Apr 10 10:19 4311 Apr 14 01:16 4311 Apr 20 11:18	19° 🖈 16'37 20° 🖈 24'52 27° 🖈 47'18 0° 🛪 15° 🕏 14'26 0° 🕿 7° ※18'23 23° ※41'12 28° ※07'23 28° ※16'11 26° ※52'37 20° ※47'57 20° ※55'55 19° ※44'02 14° ※33'53 11° ※59'19 18° ※54'48 23° ※07'55 0° ¥ 0° Ŷ 11° Ŷ 18'58 17° Ŷ 50'51 0° 엉	-0.6m 20°13'36 2°57'47 2°57'16 0.67290 AU 24°47'24 1.37143 AU -1°20'36

asc. node	4311 Apr 29 08:26	17° <b>8</b> 41'16		minimum elong	4312 Apr 02 15:52	13° <b>Ƴ</b> 14'45	1°45'02
	4311 May 05 18:10	$\Pi^{\circ}0$			4312 Apr 11 10:44	$9^{\circ}$ 8	
evening max el	4311 May 16 01:24	14° <b>∏</b> 44'48	19°23'31	evening rise	4312 Apr 11 21:17	0° <b>8</b> 50'54	
retrograde	4311 May 25 08:54	19° <b>Ⅱ</b> 16'51		asc. node	4312 Apr 15 05:28	7° <b>8</b> 14'08	
evening set	4311 May 27 08:27	19° <b>Ⅱ</b> 05′26		evening max el	4312 Apr 28 02:45	27° <b>8</b> 00'23	18°38'06
inferior conj	4311 Jun 04 21:51	14° <b>∏</b> 58′38	0°04'58		4312 May 02 05:32	$\Pi$ °0	
minimum elong	4311 Jun 04 22:04	14° <b>∏</b> 58'17	0°04'52	retrograde	4312 May 06 00:06	0° <b>Ⅱ</b> 53'05	
transit middle	4311 Jun 04 22:04	14° <b>∏</b> 58′17	0°04'52	evening set	4312 May 08 05:33	0° <b>Ⅲ</b> 35'37	
transit begin	4311 Jun 04 18:23	15° <b>Ⅲ</b> 04'18			4312 May 09 22:47	30° <b>₹</b> 8	
transit end	4311 Jun 05 01:45	14° <b>∏</b> 52'16		inferior conj	4312 May 15 22:57	26° <b>8</b> 10'21	1°41'46
desc. node	4311 Jun 05 04:36	14° <b>∐</b> 47'38		minimum elong	4312 May 16 02:14	26° <b>8</b> 04'04	1°40'44
min. Earth dist.	4311 Jun 07 13:57	13° <b>Ⅱ</b> 14'41	0.55941 AU	min. Earth dist.	4312 May 19 07:24	23° <b>8</b> 38'25	0.57658 AU
morning rise	4311 Jun 13 08:47	10° <b>Ⅱ</b> 16′18		desc. node	4312 May 22 01:37	21° <b>8</b> 49'00	
direct	4311 Jun 18 02:45	9° <b>Ⅱ</b> 24'58		morning rise	4312 May 23 19:43	20° <b>8</b> 53'25	
morning max el	4311 Jul 02 05:26	16° <b>Ⅱ</b> 33'59	25°07'07	direct	4312 May 29 12:47	19° <b>8</b> 32'00	
	4311 Jul 13 03:21	$0$ $\circ$ $\odot$		morning max el	4312 Jun 12 21:39	27° <b>8</b> 07'11	26°33'52
asc. node	4311 Jul 26 07:41	23° <b>5</b> 29'08			4312 Jun 15 16:08	$\Pi$ $^{\circ}0$	
morning set	4311 Jul 28 15:26	28° <b>©</b> 19'47			4312 Jul 05 12:46	$0$ $\circ$ $\odot$	
	4311 Jul 29 10:17	$0^{\circ}\Omega$		morning set	4312 Jul 12 01:54	13° <b>©</b> 07'53	
				asc. node	4312 Jul 12 04:43	13° <b>©</b> 22'44	
superior conj	4311 Aug 04 14:03	13° <b>Ω</b> 24'35	1°23'33				
minimum elong	4311 Aug 04 11:47	13° <b>Ω</b> 12'14	1°23'15	superior conj	4312 Jul 19 01:37	28° <b>©</b> 19'50	1°06'31
max. Earth dist.	4311 Aug 05 22:07	16° <b>Ω</b> 19'39	1.32594 AU	minimum elong	4312 Jul 18 23:20	28° <b>5</b> 07'13	1°06'08
evening rise	4311 Aug 11 17:35	28° <b>Ω</b> 40′26		max. Earth dist.	4312 Jul 19 08:33	28°958'07	1.32098 AU
•	4311 Aug 12 09:07	0° <b>m</b> )			4312 Jul 19 19:47	$0^{\circ}\Omega$	
	4311 Aug 29 06:34	0∘ <u>ଫ</u>		evening rise	4312 Jul 25 23:10	13° <b>Ω</b> 17'35	
desc. node	4311 Sep 01 03:54	4° <b>Ω</b> 13'17		8	4312 Aug 03 11:06	0° m)	
evening max el	4311 Sep 13 06:45	18° <b>Ω</b> 41'56	27°24'14	desc. node	4312 Aug 18 00:56	22° m) 38'35	
retrograde	4311 Sep 27 01:14	25° <b>Ω</b> 57'06	_,	***************************************	4312 Aug 24 11:38	0ಂ <b>ರ</b>	
evening set	4311 Oct 04 05:40	23° <b>Ω</b> 27'58		evening max el	4312 Aug 25 11:19	ი° <b>ჲ</b> 57'30	26°53'56
min. Earth dist.	4311 Oct 07 20:36	20° <b>Ω</b> 30'44	0.62606 AU	retrograde	4312 Sep 08 08:57	8° <b>ഫ</b> 08'12	20 33 30
inferior conj	4311 Oct 10 17:08	17° <b>Ω</b> 47'45		evening set	4312 Sep 15 08:00	6° <b>⊆</b> 0012	
minimum elong	4311 Oct 10 17:00 4311 Oct 10 22:54	17° <b>⊆</b> 34'01		min. Earth dist.	4312 Sep 19 01:29	3° <u>₽</u> 23'50	0.60619 AU
morning rise	4311 Oct 17 17:46	17 <b>⊆</b> 340'00	3 32 34	inferior conj	4312 Sep 22 06:18	ე° <b>_</b> 2330	
direct	4311 Oct 20 02:57	12° <b>⊆</b> 14'12		minimum elong	4312 Sep 22 12:09	0° <b>≏3</b> 1'18	
asc. node	4311 Oct 20 02:37 4311 Oct 22 06:53	12° <b>⊆</b> 1412		minimum clong	4312 Sep 22 12:09 4312 Sep 23 03:15	30°R, m)	4 2027
morning max el	4311 Oct 26 20:55	12 <b>2</b> 3003	17°50'25	morning rise	4312 Sep 29 18:14	25° Mp 56'59	
morning max er	4311 Oct 20 20:33 4311 Nov 05 20:47	0°M	17 30 23	direct	4312 Sep 29 18:14 4312 Oct 02 02:38	-	
marning gat	4311 Nov 03 20.47 4311 Nov 11 22:13	10°M39'12			4312 Oct 02 02.38 4312 Oct 08 03:56	25° m 35'30 28° m 05'01	
morning set	4311 NOV 11 22.13	10 11639 12		asc. node	4312 Oct 08 03.36 4312 Oct 09 10:04	28 IIJ 03 01 29° IIJ 12'29	18°04'13
	4211 Nov. 22 06.52	00.70(120	0022121	morning max el		0° <b>ರ</b>	18-04-13
superior conj	4311 Nov 23 06:53	0° ₹26'39	0°33'31		4312 Oct 10 04:44		
minimum elong	4311 Nov 23 09:57	0° <b>∡</b> 739'34	0°33'05	morning set	4312 Oct 25 04:38	24° <b>£</b> 10′28	
	4311 Nov 23 00:34	0° ⊀ <b>7</b>			4312 Oct 28 07:45	0° <b>M</b>	
desc. node	4311 Nov 28 03:10	8° <b>₹</b> 30'00	1 42522 411		421231 04 00 51	120M 12I20	1006100
max. Earth dist.	4311 Nov 30 05:04	11° <b>₹</b> 53'05	1.43533 AU	superior conj	4312 Nov 04 00:51	12°M13'29	
evening rise	4311 Dec 08 04:28	24° <b>₹</b> 30'38		minimum elong	4312 Nov 04 04:57	12°M31'44	1°05'58
	4311 Dec 11 18:04	% ප		max. Earth dist.	4312 Nov 11 16:28	25°M25'50	1.41808 AU
	4312 Jan 01 14:00	0°≈	210222	desc. node	4312 Nov 14 00:12	29°M16'51	
evening max el	4312 Jan 07 18:21		21°22'29		4312 Nov 14 10:43	0° <b>∡</b> 7	
retrograde	4312 Jan 16 13:25	12°≈28'18		evening rise	4312 Nov 17 03:50	4° <b>∡</b> ¹23'52	
asc. node	4312 Jan 18 06:09	12°≈12'42			4312 Dec 04 01:53	0°る	22220120
evening set	4312 Jan 20 18:27	10°≈49'28		evening max el	4312 Dec 20 11:42	20°る51'00	22°39'39
inferior conj	4312 Jan 26 02:41	4°≈34'15		retrograde	4312 Dec 30 09:07	26° <b>⋜</b> 43'32	
minimum elong	4312 Jan 26 00:15	4°≈42'43	2°23'35	evening set	4313 Jan 04 01:48	24° <b>ප්</b> 48'38	
min. Earth dist.	4312 Jan 26 09:02	4°≈12'18	0.67864 AU	asc. node	4313 Jan 04 03:10	24° <b>ප්</b> 45'47	
	4312 Jan 29 15:05	30°Rる		inferior conj	4313 Jan 09 10:34	18° <b>る</b> 26'12	
morning rise	4312 Jan 31 05:51	28° <b>ප්</b> 21'50		minimum elong	4313 Jan 09 08:29	18° <b>る</b> 33'23	1°42'19
direct	4312 Feb 05 09:40	26° <b>る</b> 07'04		min. Earth dist.	4313 Jan 09 05:25	18° <b>る</b> 44'01	0.68046 AU
	4312 Feb 13 07:55	0° <b>≈</b>		morning rise	4313 Jan 14 15:04	12° <b>る</b> 17'05	
morning max el	4312 Feb 15 17:31	2° <b>≈</b> 15'14	23°18'34	direct	4313 Jan 19 04:10	10° <b>る</b> 25'06	
desc. node	4312 Feb 24 02:24	12° <b>≈</b> 05′09		morning max el	4313 Jan 28 06:05	15° <b>る</b> 43'48	21°51'35
	4312 Mar 07 19:13	0° <b>)</b> €			4313 Feb 08 19:10	0°≈	
morning set	4312 Mar 21 17:00	22° <b>)</b> €05'43		desc. node	4313 Feb 09 23:26	1° <b>≈</b> 38′25	
max. Earth dist.	4312 Mar 25 20:17	29° <b>) (</b> 10′18	1.39308 AU		4313 Feb 28 20:19	0° <b>)</b> €	
	4312 Mar 26 07:40	$0^{\circ}\Upsilon$		morning set	4313 Mar 01 19:07	1° <b>)</b> €31'03	
				max. Earth dist.	4313 Mar 07 19:12	11° <b>) 1</b> 9′26	1.41453 AU
superior conj	4312 Apr 02 11:03	12° <b>Y</b> 52'24	-1°45'30				

	4212 Mar. 15, 11,42	249 1 2011 (	2002155		4214 E-1 24 12-25	49 <b>V</b> 50126	2007142
superior conj	4313 Mar 15 11:42	24° <b>)</b> (29'16		superior conj	4314 Feb 24 12:25	4° <b>¥</b> 59'26	
minimum elong	4313 Mar 15 15:04	24° <b>)</b> 44'02	2°02'46	minimum elong	4314 Feb 24 11:17	4° <b>)</b> (54'42	2°07'41
	4313 Mar 18 14:07	0°Υ		evening rise	4314 Mar 08 18:29	26° <b>)</b> €04'34	
evening rise	4313 Mar 26 03:51	13° <b>Y</b> 50′56			4314 Mar 10 23:58	0° <b>Υ</b>	
asc. node	4313 Apr 02 02:29	26° <b>Y</b> 25'44		asc. node	4314 Mar 19 23:30	15° <b>Y</b> 08'36	
	4313 Apr 04 05:16	0°8		evening max el	4314 Mar 25 23:09	22° <b>Y</b> 54'00	18°07'05
evening max el	4313 Apr 11 11:08	9° <b>8</b> 46'34	18°12'48	retrograde	4314 Apr 01 11:12	26° <b>Y</b> 16′31	
retrograde	4313 Apr 18 10:11	13° <b>8</b> 16'29		evening set	4314 Apr 04 05:23	25° <b>Y</b> 39'24	
evening set	4313 Apr 20 22:14	12° <b>8</b> 50'06		inferior conj	4314 Apr 10 14:09	20° <b>Ƴ</b> 33'17	3°22'41
inferior conj	4313 Apr 27 21:24	8° <b>8</b> 04'02	2°46'52	minimum elong	4314 Apr 10 16:07	20° <b>Y</b> 28′18	3°22'26
minimum elong	4313 Apr 28 00:47	7° <b>8</b> 56'29	2°46'06	min. Earth dist.	4314 Apr 13 13:46	17° <b>Ƴ</b> 31'43	0.61952 AU
min. Earth dist.	4313 May 01 06:32	5° <b>8</b> 04'57	0.59772 AU	morning rise	4314 Apr 17 01:13	14° <b>Y</b> 32'49	
morning rise	4313 May 05 00:47	2° <b>8</b> 20'12		direct	4314 Apr 23 21:09	12° <b>Ƴ</b> 05'49	
desc. node	4313 May 08 22:38	0° <b>8</b> 41'48		desc. node	4314 Apr 25 19:40	12° <b>Ƴ</b> 16'49	
direct	4313 May 11 11:35	0° <b>8</b> 23'49		morning max el	4314 May 08 00:38	20° <b>Ƴ</b> 04'58	27°52'10
morning max el	4313 May 25 20:03	8° <b>8</b> 14'59	27°31'28		4314 May 16 12:28	0°8	
	4313 Jun 11 08:51	$\Pi^{\circ}0$			4314 Jun 04 07:27	$\Pi$ $^{\circ}0$	
morning set	4313 Jun 26 09:28	27° <b>Ⅱ</b> 45'34		morning set	4314 Jun 10 12:04	12° <b>Ⅱ</b> 05′29	
	4313 Jun 27 11:06	0°€		asc. node	4314 Jun 15 22:47	23° <b>Ⅲ</b> 32'56	
asc. node	4313 Jun 29 01:45	3° <b>©</b> 25'45		max. Earth dist.	4314 Jun 16 04:59	24° <b>∏</b> 06′28	1.32333 AU
max. Earth dist.	4313 Jul 02 20:12	11° <b>©</b> 38'25	1.32008 AU				
				superior conj	4314 Jun 17 23:06	27° <b>Ⅲ</b> 55'12	0°20'58
superior conj	4313 Jul 03 13:14	13° <b>©</b> 12'14	0°45'28	minimum elong	4314 Jun 17 22:08	27° <b>Ⅱ</b> 49'58	0°20'45
minimum elong	4313 Jul 03 11:23	13° <b>©</b> 02'05	0°45'05		4314 Jun 18 21:57	0ಂತಾ	
evening rise	4313 Jul 10 08:45	28° <b>©</b> 04'18		evening rise	4314 Jun 24 20:16	12° <b>©</b> 52'58	
evening rise	4313 Jul 11 06:39	0° <b>Ω</b>		evening rise	4314 Jul 03 11:08	0°N	
	4313 Jul 28 01:31	0° <b>m</b>		evening max el	4314 Jul 19 22:45	23°Ω06'38	24°24'19
desc. node	4313 Aug 04 21:56	9° <b>m</b> 55'32		desc. node	4314 Jul 22 18:56	25° <b>Ω</b> 36'07	24 24 17
evening max el	4313 Aug 07 08:25	12° mp 24'10	25°51'20	desc. node	4314 Aug 01 03:54	0° my	
retrograde	4313 Aug 21 07:36	12 m/24 10 19° m/31'27	23 31 20	ratragrada	4314 Aug 02 19:24	رانا 0° الله 00° 15	
evening set	4313 Aug 27 12:47	17° My 59'32		retrograde	4314 Aug 02 19:24 4314 Aug 04 11:02	0 11/0013 30°RΩ	
min. Earth dist.	=		0.58554 AU	avanina aat	Č	30 kgι 29°Ω12'21	
	4313 Aug 31 20:40			evening set	4314 Aug 07 17:15		0.56672 AII
inferior conj	4313 Sep 04 01:57	13° Mp 03'22		min. Earth dist.	4314 Aug 13 09:41	26° <b>Ω</b> 19'19	
minimum elong	4313 Sep 04 05:21	•	5°04'06	inferior conj	4314 Aug 16 01:30	24° <b>Ω</b> 38′20	
morning rise	4313 Sep 12 00:10	8° Mp 40'05		minimum elong	4314 Aug 15 23:25	24° <b>Ω</b> 41'39	5°10'0/
direct	4313 Sep 14 11:00	8° Tp 20'37	10020120	morning rise	4314 Aug 24 08:09	20° <b>Ω</b> 36'06	
morning max el	4313 Sep 22 16:46	12° <b>m</b> 17'01	18°38'20	direct	4314 Aug 27 00:11	20° <b>Ω</b> 16'56	
asc. node	4313 Sep 25 00:58	14° <b>m</b> 48'34		morning max el	4314 Sep 05 13:48	24° <b>Ω</b> 44'51	19°34'04
	4313 Oct 04 15:04	0∘ <b>⊽</b>		_	4314 Sep 10 03:36	0° <b>т</b> р	
morning set	4313 Oct 08 22:39	8° <b>≏</b> 14'31		asc. node	4314 Sep 11 22:00	2°m/31'01	
				morning set	4314 Sep 23 00:39	22° <b>m</b> 41'04	
superior conj	4313 Oct 17 16:17	25° <b>≏</b> 03'14			4314 Sep 26 15:38	0∘ <b>ত</b>	
minimum elong	4313 Oct 17 19:29	25° <b>≏</b> 18'12	1°28'10				
	4313 Oct 20 08:18	0°M₊		superior conj	4314 Sep 30 23:45	8° <b>ჲ</b> 40'03	1°40'29
max. Earth dist.	4313 Oct 24 22:43	8°M14'44	1.39773 AU	minimum elong	4314 Oct 01 01:20	8° <b>≏</b> 47'51	1°40'26
evening rise	4313 Oct 29 01:01	15°M16'46		max. Earth dist.	4314 Oct 07 03:02	20° <b>£</b> 24'26	1.37683 AU
desc. node	4313 Oct 31 21:13	19° <b>™</b> 59'51		evening rise	4314 Oct 10 21:10	27° <b>≙</b> 12'57	
	4313 Nov 07 04:03	0° <b>∡</b> ¹			4314 Oct 12 11:09	0°M	
	4313 Nov 28 21:54	0°ರ		desc. node	4314 Oct 18 18:14	10°M35'05	
evening max el	4313 Dec 03 01:30	4° <b>る</b> 29'25	23°59'37		4314 Oct 31 15:14	0° <b>∡</b> ¹	
retrograde	4313 Dec 14 01:36	10° <b>る</b> 57'57		evening max el	4314 Nov 15 13:56	18° <b>∡</b> 11'35	25°15'41
evening set	4313 Dec 19 07:14	8° <b>පි</b> 47'10		retrograde	4314 Nov 27 13:53	25° <b>渘</b> 07′20	
asc. node	4313 Dec 22 00:12	5° <b>る</b> 57'06		evening set	4314 Dec 03 09:09	22° <b>҂</b> ′42'11	
min. Earth dist.	4313 Dec 24 01:52	3° <b>る</b> 15'46	0.67860 AU	min. Earth dist.	4314 Dec 07 20:06	17° <b>∡</b> ¹45′01	0.67326 AU
inferior conj	4313 Dec 24 17:54	2° <b>る</b> 21'26	0°55'07	inferior conj	4314 Dec 08 22:57	16° <b>√</b> 17'46	0°01'28
minimum elong	4313 Dec 24 16:38	2° <b>る</b> 25'43	0°54'36	minimum elong	4314 Dec 08 22:55	16° <b>∡</b> 17'53	0°01'27
-	4313 Dec 26 12:35	30°R. <b>✓</b>		transit middle	4314 Dec 08 22:55	16° <b>∡</b> 17'53	0°01'27
morning rise	4313 Dec 30 02:04	26° <b>∡</b> 17'19		transit begin	4314 Dec 08 20:08	16° <b>∡</b> ¹26'55	
direct	4314 Jan 03 01:19	24° <b>≯</b> ⁴48'02		transit end	4314 Dec 09 01:41	16° <b>₰</b> 08'53	
morning max el	4314 Jan 11 01:30	29° <b>х</b> 23′26	20°33'27	asc. node	4314 Dec 08 21:14	16° <b>₹</b> 23'21	
-	4314 Jan 11 15:48	0°ರ		morning rise	4314 Dec 14 12:56	10° <b>₹</b> 20'44	
desc. node	4314 Jan 27 20:27	21° <b>る</b> 37'36		direct	4314 Dec 17 23:56	9° <b>√</b> 11'45	
	4314 Feb 02 10:34	0° <b>≈</b>		morning max el	4314 Dec 25 04:50		19°28'36
morning set	4314 Feb 08 20:57	9° <b>≈</b> 52'03		Č	4315 Jan 06 20:52	0°ರ	
max. Earth dist.	4314 Feb 18 01:14	24°≈22'55	1.43294 AU	greatest brilliancy	4315 Jan 07 08:49	0° <b>る</b> 44'36	-0.7m
	4314 Feb 21 12:04	0° <b>)</b> €		desc. node	4315 Jan 14 17:28	11° <b>る</b> 55'44	
				morning set	4315 Jan 18 18:33	18° <b>る</b> 09'54	
				<b>U</b>			

	4315 Jan 26 09:15	0° <b>≈</b>			4315 Dec 11 03:15	0° <b>∡</b> 7	
max. Earth dist.	4315 Jan 31 14:03	0 ≈ 8°≈10'36	1.44606 AU	morning set	4315 Dec 29 12:03	27° <b>∡</b> 32'51	
max. Earth dist.	4313 Jan 31 14.03	8 ~1030	1.44000 AU	morning set	4315 Dec 29 12:05 4315 Dec 31 01:16	0°る	
superior conj	4315 Feb 04 11:34	14° <b>≈</b> 22'29	-1°54'36	desc. node	4316 Jan 01 14:29	0 C 2°る27'03	
minimum elong	4315 Feb 04 04:23	13°≈53'47		dese. Hode	4310 Juli 01 14.27	2 02/03	
minimum ciong	4315 Feb 14 02:09	0° <b>\</b>	1 54 00	superior conj	4316 Jan 14 16:30	23° <b>ප</b> 01'11	-1°22'08
evening rise	4315 Feb 18 12:48	7° <b>₩</b> 23'52		minimum elong	4316 Jan 14 07:24	22° <b>る</b> 25'26	1°21'08
e vennig 1190	4315 Mar 04 11:26	0°Υ		max. Earth dist.	4316 Jan 14 07:44	22° <b>る</b> 26'46	1.45242 AU
asc. node	4315 Mar 06 20:33	3° <b>Ƴ</b> 13'59			4316 Jan 19 03:08	0° <b>≈</b>	
evening max el	4315 Mar 09 11:54	6° <b>Ƴ</b> 15'23	18°20'20	evening rise	4316 Jan 30 07:54	17° <b>≈</b> 45'22	
retrograde	4315 Mar 15 22:40	9° <b>Ƴ</b> 43'58		Č	4316 Feb 06 23:44	0° <b>)</b> €	
evening set	4315 Mar 18 22:50	8° <b>Ƴ</b> 54'59		greatest brilliancy	4316 Feb 07 08:40	0° <b>)</b> 35′27	-0.8m
inferior conj	4315 Mar 24 21:08	3° <b>Ƴ</b> 30′05	3°35'25	evening max el	4316 Feb 20 22:41	19° <b>)</b> 43′52	18°51'35
minimum elong	4315 Mar 24 21:22	3° <b>Y</b> 29′25	3°35'24	asc. node	4316 Feb 21 17:35	20° <b>)</b> 30′00	
min. Earth dist.	4315 Mar 27 06:17	0° <b>Ƴ</b> 47'45	0.63938 AU	retrograde	4316 Feb 27 16:35	23° <b>)</b> 30′26	
	4315 Mar 27 23:54	30° <b>₹</b> ₩		evening set	4316 Mar 01 23:16	22° <b>)</b> 28'37	
morning rise	4315 Mar 30 19:03	27° <b>)</b> €21'04		inferior conj	4316 Mar 07 14:26	16° <b>)</b> 46′30	3°30'46
direct	4315 Apr 06 15:23	24° <b>)</b> 35′12		minimum elong	4316 Mar 07 13:16	16° <b>)</b> 50′07	3°30'40
desc. node	4315 Apr 12 16:41	26° <b>)</b> €23'11		min. Earth dist.	4316 Mar 09 07:54	14° <b>)</b> € 37'50	0.65572 AU
	4315 Apr 17 16:16	$0$ ° $\Upsilon$		morning rise	4316 Mar 13 02:51	10° <b>)</b> 33′40	
morning max el	4315 Apr 20 09:13	2° <b>Ƴ</b> 32'48	27°35'45	direct	4316 Mar 19 16:29	7° <b>)</b> 43′08	
	4315 May 10 19:56	$_{0\circ}$ 8		desc. node	4316 Mar 29 13:42	12° <b>)</b> €26'49	
morning set	4315 May 25 07:18	26° <b>8</b> 00'27		morning max el	4316 Apr 01 19:04	15° <b>∺</b> 27'09	26°47'27
	4315 May 27 07:06	$\Pi$ $^{\circ}0$			4316 Apr 13 17:53	$0^{\circ}$ Y	
max. Earth dist.	4315 May 30 06:59	6° <b>Ⅱ</b> 10'27	1.33102 AU		4316 May 02 14:42	$0^{\circ}$ 8	
				morning set	4316 May 07 15:58	9° <b>8</b> 20'41	
superior conj	4315 Jun 02 05:26	12° <b>Ⅲ</b> 23'25	-0°06'16	max. Earth dist.	4316 May 11 22:56	17° <b>8</b> 43'49	1.34330 AU
minimum elong	4315 Jun 02 05:45	12° <b>Ⅱ</b> 25′06	0°06'12				
behind sun begin	4315 Jun 02 00:46	11° <b>Ⅱ</b> 58'26		superior conj	4316 May 16 06:03	26° <b>8</b> 30'15	
behind sun end	4315 Jun 02 10:44	12° <b>Ⅱ</b> 51'46		minimum elong	4316 May 16 07:56	26° <b>8</b> 39'58	0°34'49
asc. node	4315 Jun 02 19:50	13° <b>Ⅱ</b> 40′29			4316 May 17 22:14	$\Pi$ °0	
evening rise	4315 Jun 09 07:55	27° <b>Ⅱ</b> 38'01		asc. node	4316 May 19 16:53	3° <b>∏</b> 44′23	
	4315 Jun 10 10:56	0ංම		evening rise	4316 May 23 17:45	12° <b>∏</b> 13′22	
	4315 Jun 28 06:10	$0^{\circ}\Omega$			4316 Jun 01 22:50	0°©	
evening max el	4315 Jul 01 12:04	3° <b>Ω</b> 29'54	22°47'13	evening max el	4316 Jun 12 08:17	14° <b>©</b> 06'57	21°15'17
desc. node	4315 Jul 09 15:58	9° <b>Ω</b> 06'37		retrograde	4316 Jun 24 07:54	20°500'31	
retrograde	4315 Jul 14 18:28	10° <b>Ω</b> 06'17		desc. node	4316 Jun 25 12:58	19° <b>©</b> 57'04	
evening set	4315 Jul 18 03:45	9° <b>Ω</b> 41'09	0.55000 444	evening set	4316 Jun 26 15:11	19°5548'15	2050120
min. Earth dist.	4315 Jul 25 20:25		0.55330 AU	inferior conj	4316 Jul 06 00:04	15°5549'44	
inferior conj	4315 Jul 27 06:11	5° <b>\O</b> 28'45 5° <b>\O</b> 39'43		minimum elong	4316 Jul 05 16:12	16°500'46	
minimum elong	4315 Jul 26 22:33	1° <b>Ω</b> 37'49	4-28-10	min. Earth dist.	4316 Jul 06 07:17	15°539'37	0.54819 AU
morning rise direct	4315 Aug 04 19:31	1° <b>£</b> 37'49 1° <b>£</b> 16'59		morning rise direct	4316 Jul 14 17:43 4316 Jul 18 05:01	11°S53'08 11°S27'08	
morning max el	4315 Aug 07 19:17 4315 Aug 18 23:00	6° <b>Ω</b> 28'12	20°51'11	morning max el	4316 Jul 30 20:58	17°927'08 17°927'43	22026105
asc. node	4315 Aug 29 19:03	20° <b>Ω</b> 59'04	20 31 11	morning max ci	4316 Aug 09 20:47	0°Ω	22 20 03
asc. Houc	4315 Sep 03 16:07	0° <b>m</b>		asc. node	4316 Aug 15 16:07	10° <b>Ω</b> 01'54	
morning set	4315 Sep 05 10:07 4315 Sep 07 07:53	7° Mp 22'36		morning set	4316 Aug 21 18:18	22°Ω13'33	
morning set	4313 вер 07 07.33	/ 11/2230		morning set	4316 Aug 25 10:10	0° m)	
superior conj	4315 Sep 14 18:37	22° <b>m</b> 50'19	1°44'05		.5.10.146 25 10.10	יעי י	
minimum elong	4315 Sep 14 18:37	22° m/50'18	1°44'06	superior conj	4316 Aug 28 21:25	7° <b>m</b> 23'59	1°40'39
	4315 Sep 14 10:37 4315 Sep 18 07:39	0° <b>ರ</b>		minimum elong	4316 Aug 28 20:10	7° Mp 17'24	1°40'35
max. Earth dist.	4315 Sep 19 11:20	2° <b>£</b> 16'36	1.35781 AU	max. Earth dist.	4316 Sep 01 04:01		1.34220 AU
evening rise	4315 Sep 23 12:56	10° <b>£</b> 03'55		evening rise	4316 Sep 05 20:02	23° m 38'25	
<i>8</i> 11	4315 Oct 05 00:55	0° <b>M</b> .		<b>8</b> 21	4316 Sep 09 04:01	0∘ <b>⊽</b>	
desc. node	4315 Oct 05 15:16	0°M57'21		desc. node	4316 Sep 21 12:19	21° <b>≏</b> 00'31	
	4315 Oct 27 05:15	0° <b>∡</b> 7			4316 Sep 27 15:29	0°M	
evening max el	4315 Oct 29 02:31	1° <b>∡</b> 753'52	26°20'27	evening max el	4316 Oct 10 15:17	15°M28'12	27°06'18
retrograde	4315 Nov 10 21:03	9° <b>∡</b> 05′21		retrograde	4316 Oct 23 22:29	22°M45'25	
evening set	4315 Nov 17 05:42	6° <b>∡</b> 129′24		evening set	4316 Oct 30 18:40	20°M04'28	
min. Earth dist.	4315 Nov 21 09:42	2° <b>х</b> 07′33	0.66447 AU	min. Earth dist.	4316 Nov 03 16:16	16°M18'18	0.65224 AU
inferior conj	4315 Nov 22 23:48	0° <b>∡</b> 11'16	-0°56'47	inferior conj	4316 Nov 05 18:18	13°M57'40	-1°58'02
minimum elong	4315 Nov 23 01:21	0° <b>∡</b> 06'33	0°56'07	minimum elong	4316 Nov 05 21:39	13°M48'16	1°56'41
-	4315 Nov 23 03:29	30°RM₊		asc. node	4316 Nov 11 15:19	8°M36'23	
asc. node	4315 Nov 25 18:17	26°M59'09		morning rise	4316 Nov 12 01:35	8°M23'12	
morning rise	4315 Nov 28 21:34	24°ML23'57		direct	4316 Nov 14 18:21	7°M44'06	
direct	4315 Dec 01 22:20	23°MJ31'50		morning max el	4316 Nov 21 05:59	11°M12'24	18°06'36
morning max el	4315 Dec 08 15:04	27°M12'15	18°39'17		4316 Dec 04 08:24	0°⊀	

morning set	4316 Dec 09 11:08	8° <b>₹</b> 25'11		direct	4317 Oct 29 09:09	21° <b>≏</b> 42'19	
desc. node	4316 Dec 18 11:33	23°×707'38		asc. node	4317 Oct 29 12:21	21° <b>-</b> 42'24	
dese. Hode	4316 Dec 22 18:41	0°궁		morning max el	4317 Nov 04 22:42	25° <b>♀</b> 07'21	17°51'12
					4317 Nov 08 23:37	0°M	-,
superior conj	4316 Dec 23 22:00	1° <b>る</b> 48'24	-0°36'48	morning set	4317 Nov 21 12:39	20°ML33'59	
minimum elong	4316 Dec 23 17:24	1°る30'10		3	4317 Nov 27 00:28	0° <b>∡</b> 7	
max. Earth dist.	4316 Dec 27 03:30	6° <b>る</b> 54'23	1.45134 AU				
evening rise	4317 Jan 09 05:47	27° <b>る</b> 19'00		superior conj	4317 Dec 03 22:47	11° <b>∡</b> ³34'58	0°09'49
Č	4317 Jan 10 23:22	0° <b>≈</b>		minimum elong	4317 Dec 03 23:50	11° <b>₹</b> 39'18	0°09'39
greatest brilliancy	4317 Jan 22 06:21	17° <b>≈</b> 17'16	-0.7m	behind sun begin	4317 Dec 03 15:59	11° <b>√</b> 07'01	
	4317 Jan 31 08:37	0° <b>∀</b>		behind sun end	4317 Dec 04 07:42	12° <b>₹</b> 11'31	
evening max el	4317 Feb 03 05:30	3° <b>)</b> 15′34	19°39'22	desc. node	4317 Dec 05 08:37	13° <b>₹</b> '53'20	
asc. node	4317 Feb 07 14:37	6° <b>)</b> 43′19		max. Earth dist.	4317 Dec 09 21:40	21° <b>⋌</b> 12'54	1.44296 AU
retrograde	4317 Feb 10 13:54	7° <b>)</b> € 30′23			4317 Dec 15 11:20	0°ರ	
evening set	4317 Feb 14 04:06	6° <b>)</b> 14′51		evening rise	4317 Dec 19 15:58	6° <b>ප</b> 29'51	
inferior conj	4317 Feb 19 14:52	0° <b>ℋ</b> 17'32	3°12'54		4318 Jan 04 08:12	0° <b>≈</b>	
minimum elong	4317 Feb 19 12:48	0° <b>)</b> 24'21	3°12'33	evening max el	4318 Jan 17 06:59	16° <b>≈</b> 48′26	20°41'31
	4317 Feb 19 20:10	30° <b>₹</b> ≈		asc. node	4318 Jan 25 11:37	21° <b>≈</b> 39′20	
min. Earth dist.	4317 Feb 20 17:30	28° <b>≈</b> 49'35	0.66788 AU	retrograde	4318 Jan 25 12:09	21° <b>≈</b> 39′20	
morning rise	4317 Feb 24 21:18	24° <b>≈</b> 03′28		evening set	4318 Jan 29 11:15	20° <b>≈</b> 09'13	
direct	4317 Mar 02 23:25	21° <b>≈</b> 20'39		inferior conj	4318 Feb 03 19:52	13° <b>≈</b> 59′25	2°44'38
morning max el	4317 Mar 15 04:27	28° <b>≈</b> 37'27	25°35'33	minimum elong	4318 Feb 03 17:25	14° <b>≈</b> 07'49	2°44'00
desc. node	4317 Mar 16 10:44	29° <b>≈</b> 56′06		min. Earth dist.	4318 Feb 04 09:10	13° <b>≈</b> 13'49	0.67580 AU
	4317 Mar 16 12:12	0° <b>ℋ</b>		morning rise	4318 Feb 08 23:24	7° <b>≈</b> 45'52	
	4317 Apr 07 12:33	$0$ ° $\mathbf{\gamma}$		direct	4318 Feb 14 11:33	5°≈19'26	
morning set	4317 Apr 20 09:44	21° <b>Y</b> 53'38		morning max el	4318 Feb 25 13:09	11° <b>≈</b> 55'50	24°10'02
max. Earth dist.	4317 Apr 24 03:43	28° <b>Y</b> 51′56	1.36011 AU	desc. node	4318 Mar 03 07:48	18° <b>≈</b> 26'45	
	4317 Apr 24 18:02	$0^{\circ}S$			4318 Mar 12 00:41	0° <b>∀</b>	
					4318 Mar 31 07:23	$0^{\circ}\mathbf{\Upsilon}$	
superior conj	4317 Apr 29 22:15	10° <b>8</b> 07'42		morning set	4318 Apr 02 07:06	3° <b>Y</b> 24'40	
minimum elong	4317 Apr 30 01:44	10° <b>8</b> 25'07	1°03'50	max. Earth dist.	4318 Apr 06 00:23	9° <b>Ƴ</b> 58'05	1.38047 AU
asc. node	4317 May 06 13:56	23° <b>8</b> 40'01					
evening rise	4317 May 07 23:39	26° <b>8</b> 31'58		superior conj	4318 Apr 13 02:37	23° <b>Y</b> 07'05	
	4317 May 09 16:50	0°II		minimum elong	4318 Apr 13 07:17		1°31'11
evening max el	4317 May 25 16:09	25° <b>Ⅱ</b> 19'31	19°58'40		4318 Apr 16 15:56	0° <b>8</b>	
	4317 Jun 02 05:33	0.20 0.20		evening rise	4318 Apr 21 23:04	10° <b>8</b> 26'51	
retrograde	4317 Jun 04 23:03	0°520'40		asc. node	4318 Apr 23 10:58	13° <b>8</b> 23'03	
evening set	4317 Jun 06 21:42	0°€10'42		·	4318 May 02 18:06	0°Ⅱ 7°Ⅲ12152	10001120
JJ.	4317 Jun 07 18:40	30°RⅡ 200Ⅲ		evening max el	4318 May 08 11:52	7° <b>Ⅱ</b> 13'52	19*01'38
desc. node inferior conj	4317 Jun 12 09:59 4317 Jun 15 21:08	28°Ⅲ09'58 26°Ⅲ10'25	1001147	retrograde evening set	4318 May 17 03:49 4318 May 19 05:19	11° <b>Ⅲ</b> 27'45 11° <b>Ⅲ</b> 14'20	
minimum elong	4317 Jun 15 18:16	26° <b>I</b> 10'25		inferior conj	4318 May 27 10:16	7° <b>I</b> 100'06	0°49'37
min. Earth dist.	4317 Jun 17 19:46	25° <b>I</b> 100'03	0.55269 AU	minimum elong	4318 May 27 10:10 4318 May 27 12:12	6° <b>I</b> I56'44	0°48'57
morning rise	4317 Jun 24 13:02	23 <b>H</b> 00 03	0.33209 AO	desc. node	4318 May 30 07:00	5° <b>Ⅱ</b> 01'01	0 4837
direct	4317 Jun 28 17:54	21° <b>I</b> I09'53		min. Earth dist.	4318 May 30 11:20	4° <b>I</b> 53'45	0.56596 AU
morning max el	4317 Jul 12 12:01	27° <b>I</b> I56'41	24°09'32	morning rise	4318 Jun 04 15:50	2° <b>I</b> I02'13	0.50570710
morning max or	4317 Jul 14 13:11	0°ඉ	21 07 32	direct	4318 Jun 09 19:35	0° <b>I</b> I59'25	
asc. node	4317 Aug 02 13:10	29° <b>5</b> 29'50		morning max el	4318 Jun 24 02:27	8° <b>Ⅱ</b> 21'28	25°46'51
	4317 Aug 02 19:12	0°N			4318 Jul 10 06:04	0°ಅ	
morning set	4317 Aug 06 06:00	7° <b>£</b> 07′29		asc. node	4318 Jul 20 10:14	19°915'57	
8				morning set	4318 Jul 21 17:23	21° <b>©</b> 59'22	
superior conj	4317 Aug 13 05:18	22° <b>Ω</b> 11′28	1°31'17	<b>5</b> ·	4318 Jul 25 10:32	0°N	
minimum elong	4317 Aug 13 03:16	22° <b>Ω</b> 00′28	1°31'04				
max. Earth dist.	4317 Aug 15 05:23	26° <b>Ω</b> 30'57	1.33065 AU	superior conj	4318 Jul 28 16:04	7° <b>Ω</b> 05'55	1°16'51
	4317 Aug 16 20:39	0° <b>m</b>		minimum elong	4318 Jul 28 13:45	6° <b>Ω</b> 53'08	1°16'30
evening rise	4317 Aug 20 14:19	7° <b>m</b> 44'17		max. Earth dist.	4318 Jul 29 13:17	9° <b>Ω</b> 02′23	1.32331 AU
	4317 Sep 01 15:28	0∘ <b>ऌ</b>		evening rise	4318 Aug 04 16:32	22° <b>Ω</b> 12'19	
desc. node	4317 Sep 08 09:20	10° <b>≏</b> 35'22			4318 Aug 08 13:05	0° <b>m</b>	
evening max el	4317 Sep 23 02:33	28° <b>≏</b> 41'10	27°26'24	desc. node	4318 Aug 26 06:20	29° <b>m</b> 30'23	
	4317 Sep 24 13:02	0°M₊			4318 Aug 26 15:04	0∘ <b>ত</b>	
retrograde	4317 Oct 06 17:42	5°M58'09		evening max el	4318 Sep 05 10:07	11° <b>≏</b> 20'16	27°15'21
evening set	4317 Oct 13 21:14	3°ML21'07		retrograde	4318 Sep 19 06:13	18° <b>≏</b> 34'14	
min. Earth dist.	4317 Oct 17 13:38	0°M08'09	0.63653 AU	evening set	4318 Sep 26 09:44	16° <b>≏</b> 13′01	
	4317 Oct 17 16:55	30° <b>₹</b> Ω		min. Earth dist.	4318 Sep 30 00:32		0.61781 AU
inferior conj	4317 Oct 20 03:51	27° <b>≏</b> 30'12		inferior conj	4318 Oct 03 01:24	10° <b>≏</b> 41'37	
minimum elong	4317 Oct 20 08:54	27° <b>≙</b> 17'20	2°58'10	minimum elong	4318 Oct 03 07:26	10° <b>≙</b> 27'59	3°56'43
morning rise	4317 Oct 26 21:58	22° <b>≏</b> 11'59		morning rise	4318 Oct 10 06:57	5° <b>≏</b> 42'52	

direct	4318 Oct 12 15:20	5° <b>≏</b> 19'20		morning rise	4319 Sep 23 00:02	18° <b>m</b> ) 46'38	
asc. node	4318 Oct 12 13:20 4318 Oct 16 09:24	5 <b>=</b> 1920 6° <b>Ω</b> 21'37		direct	4319 Sep 25 08:53	18° M) 26'24	
morning max el	4318 Oct 19 14:07	8° <b>-</b> 2137	17°53'57	morning max el	4319 Oct 03 00:58	22° <b>m</b> ) 10'48	18°16'09
morning max or	4318 Nov 02 09:43	0°ML	17 33 37	asc. node	4319 Oct 03 06:28	22° m) 24'14	10 10 0)
morning set	4318 Nov 04 10:12	3°M39'39			4319 Oct 09 03:24	0∘ <b>ಹ</b>	
C				morning set	4319 Oct 18 22:06	17° <b>≏</b> 26'25	
superior conj	4318 Nov 15 02:07	22°M39'11	0°48'52	C	4319 Oct 25 13:50	0°M	
minimum elong	4318 Nov 15 05:57	22°M55'44	0°48'20				
	4318 Nov 19 09:53	0° <b>∡</b> ¹		superior conj	4319 Oct 28 05:54	4°M54'44	1°17'06
desc. node	4318 Nov 22 05:38	4° <b>∡</b> ¹40'37		minimum elong	4319 Oct 28 09:47	5°M12'21	1°16'41
max. Earth dist.	4318 Nov 22 11:22	5° <b>∡</b> 04'08	1.42843 AU	max. Earth dist.	4319 Nov 04 20:01	18° <b>M</b> .17'19	1.40960 AU
evening rise	4318 Nov 29 06:11	15° <b>∡</b> 56'37		desc. node	4319 Nov 09 02:38	25°M26'27	
	4318 Dec 08 10:33	0°ප		evening rise	4319 Nov 09 14:18	26° <b>M</b> ₁4'13	
	4318 Dec 30 18:18	0° <b>≈</b>	2105.420		4319 Nov 11 22:04	0° <b>∡</b> ¹	
evening max el	4318 Dec 31 02:58	0°≈22'14	21°54'39		4319 Dec 02 04:28	0°る 13°る59'20	22012140
retrograde asc. node	4319 Jan 09 09:16 4319 Jan 12 08:38	5°≈52'53 5°≈05'27		evening max el retrograde	4319 Dec 13 18:38 4319 Dec 24 03:46	13°639'20 20° <b>る</b> 08'07	23°13'49
evening set	4319 Jan 13 18:58	3 ≈0327 4°≈07'21		evening set	4319 Dec 29 01:41	20 30807 18° <b>る</b> 06'40	
evening set	4319 Jan 17 12:46	4 ≈0/21 30°Rる		asc. node	4319 Dec 29 01:41 4319 Dec 30 05:40	18 30040 17°る01'16	
inferior conj	4319 Jan 19 03:14	27° <b>る</b> 48'25	2°07'45	inferior conj	4320 Jan 03 11:06	11°る42'22	1°23'32
minimum elong	4319 Jan 19 00:53	27° <b>る</b> 56'34	2°06'58	minimum elong	4320 Jan 03 09:19	11°る48'30	1°22'51
min. Earth dist.	4319 Jan 19 04:35	27° <b>る</b> 43'43	0.67977 AU	min. Earth dist.	4320 Jan 03 01:22	12° <b>る</b> 15'50	0.68005 AU
morning rise	4319 Jan 24 06:38	21° <b>る</b> 36'58		morning rise	4320 Jan 08 16:52	5° <b>ರ</b> 34'54	
direct	4319 Jan 29 04:02	19° <b>ට</b> 31'47		direct	4320 Jan 12 23:58	3° <b>ප</b> 52'31	
morning max el	4319 Feb 07 23:10	25° <b>る</b> 19'24	22°40'54	morning max el	4320 Jan 21 14:12	8° <b>ට</b> 51'55	21°16'55
	4319 Feb 12 04:31	0° <b>≈</b>		desc. node	4320 Feb 05 01:52	27° <b>පි</b> 26'11	
desc. node	4319 Feb 18 04:50	7° <b>≈</b> 40'44			4320 Feb 06 20:24	0° <b>≈</b>	
	4319 Mar 05 12:51	0° <b>∀</b>		morning set	4320 Feb 21 16:16	22° <b>≈</b> 30′26	
morning set	4319 Mar 14 01:57	13° <b>)</b> ₹37'33			4320 Feb 26 08:55	0° <b>∀</b>	
max. Earth dist.	4319 Mar 18 19:54	21° <b>)</b> 34'44	1.40234 AU	max. Earth dist.	4320 Feb 28 21:16	4° <b>)</b> €05'51	1.42290 AU
	4319 Mar 23 16:05	0° <b>Ƴ</b>			1220.14 07 05 10	1601/2650	2006150
	4210 Mar. 26, 14,47	5° <b>Ƴ</b> 17'11	1954106	superior conj	4320 Mar 07 05:48	16° <b>¥</b> 26′58	
superior conj minimum elong	4319 Mar 26 14:47 4319 Mar 26 19:18	5° <b>Υ</b> 37'41		minimum elong	4320 Mar 07 07:38 4320 Mar 14 22:41	16° <b>¥</b> 34'52 0° <b>Ƴ</b>	2-0647
evening rise	4319 Apr 05 12:50	23° <b>Υ</b> 48'59	1 33 44	evening rise	4320 Mar 18 13:07	6° <b>Υ</b> 30'02	
evening rise	4319 Apr 08 19:38	0°8		asc. node	4320 Mar 27 04:59	21° <b>Υ</b> 47'53	
asc. node	4319 Apr 10 07:59	2° <b>8</b> 47'40		use. Houe	4320 Apr 01 17:55	0°8	
evening max el	4319 Apr 21 16:39	19° <b>8</b> 43'50	18°24'54	evening max el	4320 Apr 04 03:04	2° <b>8</b> 40'31	18°08'02
retrograde	4319 Apr 29 03:09	23° <b>8</b> 24'47		retrograde	4320 Apr 10 19:57	6° <b>8</b> 05'03	
evening set	4319 May 01 11:22	23° <b>8</b> 03'54		evening set	4320 Apr 13 10:47	5° <b>8</b> 34'10	
inferior conj	4319 May 08 20:40	18° <b>8</b> 30'11	2°13'14	inferior conj	4320 Apr 20 03:21	0° <b>8</b> 39'36	3°05'15
minimum elong	4319 May 09 00:17	18° <b>8</b> 22'48	2°12'14	minimum elong	4320 Apr 20 06:14	0° <b>8</b> 32'47	3°04'43
min. Earth dist.	4319 May 12 07:13	15° <b>8</b> 43'24	0.58531 AU		4320 Apr 20 20:02	30° <b>ŖƳ</b>	
morning rise	4319 May 16 10:07	13° <b>8</b> 00'17		min. Earth dist.	4320 Apr 23 09:28	27° <b>Y</b> 36′29	0.60719 AU
desc. node	4319 May 17 04:01	12° <b>8</b> 38'15		morning rise	4320 Apr 26 23:33	24° <b>Y</b> 47'48	
direct	4319 May 22 11:42	11° <b>8</b> 23'44	27002125	desc. node	4320 May 03 01:03	22° <b>Y</b> 38'11	
morning max el	4319 Jun 05 21:08	19° <b>8</b> 07'38	27°02'25	direct	4320 May 03 15:38	22° <b>Ƴ</b> 37'07	
	4319 Jun 15 01:49 4319 Jul 02 20:09	0° <b>©</b>		morning max el	4320 May 17 08:53 4320 May 17 22:03	0° <b>と</b> 0° <b>と</b> 32'13	2701117
morning set	4319 Jul 06 02:49	6°9543'35		morning max ci	4320 Jun 08 04:13	0°Ⅱ	2/ 444/
asc. node	4319 Jul 07 07:16	9° <b>©</b> 14'03		morning set	4320 Jun 19 08:31	21° <b>I</b> I14'15	
		,		asc. node	4320 Jun 23 04:17	29° <b>Ⅱ</b> 19'09	
superior conj	4319 Jul 13 03:53	22° <b>©</b> 00'45	0°58'02		4320 Jun 23 11:52	0ಂತಾ	
minimum elong	4319 Jul 13 01:44	21°5648'52	0°57'39	max. Earth dist.	4320 Jun 25 11:19	4°9518'09	1.32098 AU
max. Earth dist.	4319 Jul 13 00:29	21°541'58	1.32007 AU				
	4319 Jul 16 19:01	$0^{\circ}\Omega$		superior conj	4320 Jun 26 15:00	6° <b>5</b> 49'55	0°35'27
evening rise	4319 Jul 20 00:05	6° <b>Ω</b> 54'17		minimum elong	4320 Jun 26 13:28	6°9541'34	0°35'08
	4319 Aug 01 02:02	0° <b>m</b>		evening rise	4320 Jul 03 10:45	21°5942'46	
desc. node	4319 Aug 13 03:20	17° <b>m</b> 29'27			4320 Jul 07 10:49	$0 {\circ} \Omega$	
evening max el	4319 Aug 18 11:40	23° m 15'29	26°31'00		4320 Jul 26 03:20	0° m)	0.501 5:25
	4319 Aug 29 05:39	0∘ <b>⊽</b>		evening max el	4320 Jul 30 05:49	4° M) 22'32	25°16'38
retrograde	4319 Sep 01 10:41	0° <b>ჲ</b> 25'20		desc. node	4320 Jul 30 00:20	4° Mp 09'21	
avanina ast	4319 Sep 04 14:35	30°R,M) 20°m, 22'54		retrograde	4320 Aug 13 04:46	11° M) 26'53	
evening set min. Earth dist.	4319 Sep 08 03:32 4319 Sep 12 01:17	28° m/32'54 25° m/57'28	0.59729 AU	evening set min. Earth dist.	4320 Aug 18 21:57 4320 Aug 23 17:35	10° Mp 11'43	0.57710 AU
inferior conj	4319 Sep 12 01.17 4319 Sep 15 07:32	23° m) 23'26		inferior conj	4320 Aug 26 18:52	5° Mp 25'14	
minimum elong	4319 Sep 15 07:32 4319 Sep 15 12:44	23° m) 13'09		minimum elong	4320 Aug 26 20:15	5° M) 22'52	
	10 12.11	,, ., .,				,,	

morning rise	4320 Sep 03 20:51	1° Mp 11'07		minimum elong	4321 Aug 07 05:14	16° <b>Ω</b> 48'13	4°58'49
direct	4320 Sep 06 09:38	0° Mp 51'54		morning rise	4321 Aug 17 03:14 4321 Aug 15 19:42	10° <b>Ω</b> 45'26	7 30 7
morning max el	4320 Sep 15 03:50	5° Mp 00'28	18°59'20	direct	4321 Aug 18 15:00	12°Ω25'42	
asc. node	4320 Sep 19 03:31	9° m/34'32		morning max el	4321 Aug 28 19:59	17° <b>Ω</b> 10'09	20°04'20
	4320 Sep 30 23:21	0∘ <del>⊽</del>		asc. node	4321 Sep 06 00:35	27° <b>Ω</b> 38'04	
morning set	4320 Oct 01 19:57	1° <b>≏</b> 41'16			4321 Sep 07 11:04	0°m	
Ü				morning set	4321 Sep 16 00:31	16° m) 15'30	
superior conj	4320 Oct 10 04:47	18° <b>≏</b> 05'59	1°34'41	· ·	4321 Sep 22 18:04	0∘ <del>⊽</del>	
minimum elong	4320 Oct 10 07:20	18° <b>≏</b> 18'10	1°34'31		•		
-	4320 Oct 16 14:16	0° <b>M</b>		superior conj	4321 Sep 23 17:40	1° <b>£</b> 58'47	1°42'58
max. Earth dist.	4320 Oct 17 01:10	0°M48'59	1.38878 AU	minimum elong	4321 Sep 23 18:33	2° <b>ჲ</b> 03'13	1°42'56
evening rise	4320 Oct 20 21:32	7° <b>M</b> 34'43		max. Earth dist.	4321 Sep 29 06:55	12° <b>≏</b> 49'54	1.36846 AU
desc. node	4320 Oct 25 23:39	16°M06'34		evening rise	4321 Oct 03 02:36	19° <b>≙</b> 55'27	
	4320 Nov 03 21:09	0° <b>∡</b> ″			4321 Oct 08 20:34	0° <b>M</b> ₊	
evening max el	4320 Nov 25 07:48	27° <b>҂</b> ³39'53	24°32'57	desc. node	4321 Oct 12 20:41	6°M36'49	
	4320 Nov 27 20:27	5°0			4321 Oct 28 22:30	0° <b>∡</b>	
retrograde	4320 Dec 06 18:22	4° <b>る</b> 20'33		evening max el	4321 Nov 07 20:12	11° <b>∡</b> ¹22'25	25°44'58
evening set	4320 Dec 12 05:48	2° <b>る</b> 03'31		retrograde	4321 Nov 20 04:26	18° <b>∡</b> ²25'41	
	4320 Dec 14 07:16	30°₹ <b>҂</b> 7		evening set	4321 Nov 26 05:40	15° <b>₹</b> 55'11	
asc. node	4320 Dec 16 02:43	27° <b>х</b> 47'04		min. Earth dist.	4321 Nov 30 13:33	11° <b>₹</b> 13'12	
min. Earth dist.	4320 Dec 16 21:08	26° <b>≯</b> 46'35	0.67678 AU	inferior conj	4321 Dec 01 21:11	9° <b>∡</b> ³32'59	
inferior conj	4320 Dec 17 17:41	25° <b>₹</b> 38'03	0°33'01	minimum elong	4321 Dec 01 21:46	9° <b>∡</b> 31'06	0°22'31
minimum elong	4320 Dec 17 16:53	25° <b>₹</b> 40'42	0°32'41	asc. node	4321 Dec 02 23:47	8° <b>∡</b> 09'37	
morning rise	4320 Dec 23 04:04	19° <b>₹</b> 36'39		morning rise	4321 Dec 07 14:16	3° <b>≯</b> 40′02	
direct	4320 Dec 26 22:00	18° <b>∤</b> 16'10		direct	4321 Dec 10 20:43	2° <b>∡</b> ³38'40	
morning max el	4321 Jan 03 12:54	22° <b>₹</b> 35'47	20°04'04	morning max el	4321 Dec 17 19:27	6° <b>∡</b> ³30′06	19°05'40
	4321 Jan 09 18:23	0° <b>ろ</b>			4322 Jan 03 16:44	0° <b>云</b>	
desc. node	4321 Jan 21 22:53	17° <b>る</b> 33'58		desc. node	4322 Jan 08 19:55	7° <b>る</b> 57'56	
	4321 Jan 30 02:39	0° <b>≈</b>		morning set	4322 Jan 09 16:46	9° <b>る</b> 19'02	
morning set	4321 Jan 30 13:03	0°≈40'04	1 42021 433	n dr.	4322 Jan 22 22:28	0° <b>≈</b>	1 44062 444
max. Earth dist.	4321 Feb 10 06:44	17° <b>≈</b> 30'58	1.43931 AU	max. Earth dist.	4322 Jan 23 22:23	1° <b>≈</b> 34'02	1.44963 AU
superior coni	4321 Feb 15 19:29	26° <b>≈</b> 27'29	2004/22	superior conj	4322 Jan 26 09:06	5° <b>≈</b> 25'39	1942'00
superior conj minimum elong	4321 Feb 15 15:42	26°≈12'03		minimum elong	4322 Jan 26 09:06 4322 Jan 26 00:14	3 ≈23 39 4°≈50'40	
minimum ciong	4321 Feb 13 13:42 4321 Feb 17 23:11	20 <b>≈</b> 12 03	2 04 20	evening rise	4322 Feb 10 04:10	4 ≈3040 29°≈15'19	1 42 14
evening rise	4321 Feb 28 19:34	18° <b>¥</b> 21′03		evening rise	4322 Feb 10 04:10 4322 Feb 10 15:04	0° <b>\</b>	
evening rise	4321 Mar 07 14:35	0° <b>Υ</b>		asc. node	4322 Feb 28 23:03	28° <b>)</b> 01'27	
asc. node	4321 Mar 14 02:00	10°Υ15'56		evening max el	4322 Mar 02 03:54	29° <b>H</b> 19'05	18°31'30
evening max el	4321 Mar 18 15:47	15°Υ54'52	18°10'29	evening max er	4322 Mar 02 20:44	0°Υ	10 31 30
retrograde	4321 Mar 25 02:01	19° <b>Υ</b> 18'15	10 10 2)	retrograde	4322 Mar 08 16:48	2° <b>Υ</b> 54'16	
evening set	4321 Mar 27 22:51	18° <b>Ƴ</b> 36'01		evening set	4322 Mar 11 19:37	1° <b>Y</b> 59'54	
inferior conj	4321 Apr 03 02:41	13° <b>Y</b> 21'31	3°30'31	S	4322 Mar 14 09:14	30° <b>₹</b>	
minimum elong	4321 Apr 03 03:53	13° <b>Y</b> 18'15	3°30'25	inferior conj	4322 Mar 17 14:28	26° <b>)</b> €27'11	3°35'18
min. Earth dist.	4321 Apr 05 20:21	10° <b>Y</b> 26′14	0.62833 AU	minimum elong	4322 Mar 17 14:04	26° <b>)</b> 28′25	3°35'17
morning rise	4321 Apr 09 07:44	7° <b>Ƴ</b> 16'52		min. Earth dist.	4322 Mar 19 16:51	23° <b>)</b> 58′01	0.64671 AU
direct	4321 Apr 16 04:50	4° <b>Ƴ</b> 40′29		morning rise	4322 Mar 23 07:53	20° <b>)</b> 15′56	
desc. node	4321 Apr 19 22:05	5° <b>Y</b> 21′09		direct	4322 Mar 30 01:54	17° <b>)</b> €26'43	
morning max el	4321 Apr 30 04:37	12° <b>Y</b> 39'16	27°49'36	desc. node	4322 Apr 06 19:07	20° <b>∺</b> 21'12	
	4321 May 14 00:21	$9^{\circ}$ 8		morning max el	4322 Apr 12 14:18	25° <b>∺</b> 20′22	27°18'52
	4321 May 31 14:42	$\Pi^{\circ}0$			4322 Apr 16 20:38	$0^{\circ}\mathbf{\Upsilon}$	
morning set	4321 Jun 03 08:23	5° <b>Ⅱ</b> 25'04			4322 May 07 12:04	$9^{\circ}$ 8	
max. Earth dist.	4321 Jun 08 17:59	16° <b>Ⅲ</b> 39'03	1.32611 AU	morning set	4322 May 17 23:35	19° <b>8</b> 06'34	
asc. node	4321 Jun 10 01:19	19° <b>Ⅱ</b> 27'12		max. Earth dist.	4322 May 22 16:20	28° <b>8</b> 31'36	1.33567 AU
		_			4322 May 23 09:28	$\Pi$ $^{\circ}0$	
superior conj	4321 Jun 10 23:40	21° <b>Ⅱ</b> 27'54	0°09'44				
minimum elong	4321 Jun 10 23:12	21° <b>Ⅲ</b> 25′23	0°09'38	superior conj	4322 May 26 03:50	5° <b>Ⅱ</b> 47'31	
behind sun begin	4321 Jun 10 19:00	21° <b>Ⅲ</b> 02'39		minimum elong	4322 May 26 04:47	5° <b>Ⅱ</b> 52'32	0°18'11
behind sun end	4321 Jun 11 03:24	21° <b>Ⅱ</b> 48'07		asc. node	4322 May 27 22:21	9° <b>I</b> I33'24	
	4321 Jun 14 21:52	0.ee		evening rise	4322 Jun 02 09:45	21° <b>I</b> I13'08	
evening rise	4321 Jun 17 22:38	6°931'33			4322 Jun 06 16:43	0°95	22007140
	4321 Jun 30 07:28	0° <b>N</b>	2204211.4	evening max el	4322 Jun 23 10:01	25°918'05	22~06'40
evening max el	4321 Jul 11 18:53	14° <b>£</b> 53'38	23°43'14	1 1	4322 Jun 29 17:17	0° <b>Ω</b>	
desc. node	4321 Jul 16 21:21	18° <b>Ω</b> 59'45		desc. node	4322 Jul 03 18:23	1° <b>Ω</b> 25'05	
retrograde	4321 Jul 25 10:49	21° <b>Ω</b> 45'19		retrograde	4322 Jul 06 05:22	1° <b>Ω</b> 39'06	
evening set	4321 Jul 29 17:16	21° <b>Ω</b> 05'16	0.56025 411	evening set	4322 Jul 09 01:33	1° <b>Ω</b> 21'08	
min. Earth dist. inferior conj	4321 Aug 05 04:55 4321 Aug 07 10:00	18° <b>λ</b> 200'51 16° <b>Ω</b> 41'01	0.56025 AU	min. Earth dist.	4322 Jul 13 03:02 4322 Jul 17 15:20	30° <b>₹©</b> 27° <b>©</b> 39'59	0.55001 AU
anction conj	4321 Aug 07 10.00	10 0641 01	T 37 44	mm. Barui UISt.	тэ22 jui 1/ 13.20	21 <del>2</del> 3737	0.55001 AU

inforior coni	4322 Jul 18 08:38	27° <b>©</b> 15'39	2056152	inforior coni	4323 Jun 28 02:03	7° <b>©</b> 32'31	2011/04
inferior conj				inferior conj			
minimum elong	4322 Jul 18 00:03	27°527'43	3°54'39	minimum elong	4323 Jun 27 19:57	7°541'15	2°08'55
morning rise	4322 Jul 27 00:19	23°525'04		min. Earth dist.	4323 Jun 29 03:07	6°956'34	0.54891 AU
direct	4322 Jul 30 04:11	23°502'49	21020147	morning rise	4323 Jul 06 19:52	3°526'46	
morning max el	4322 Aug 11 00:15	28°934'25	21°29'47	direct	4323 Jul 10 13:35	2°956'39	22800142
1	4322 Aug 12 11:09	0° <b>Ω</b>		morning max el	4323 Jul 23 18:39	9° <b>©</b> 18'36	23°09'42
asc. node	4322 Aug 23 21:38	16° <b>£</b> 21'43		1	4323 Aug 07 18:43	0°Ω	
	4322 Aug 30 21:28	0°M)		asc. node	4323 Aug 10 18:40	5° <b>Ω</b> 35'44	
morning set	4322 Aug 31 09:20	1° Mp 01'32		morning set	4323 Aug 15 20:27	15° <b>Ω</b> 53'52	
	4222 0 07 16 10	1.60 <b>m-2</b> 011.4	1042126		4323 Aug 22 10:16	0° <b>m</b>	
superior conj	4322 Sep 07 16:19	16° Mp 20'14	1°43'26		4222 4 22 21 22	10 % 00/22	1027121
minimum elong	4322 Sep 07 15:44	16° Mp 17'13	1°43'24	superior conj	4323 Aug 22 21:33	1° Mp 00'33	1°37'21
max. Earth dist.	4322 Sep 11 18:17	24° m/41'33	1.35069 AU	minimum elong	4323 Aug 22 19:55	0° m 51'48	1°37'13
	4322 Sep 14 10:45	0° <b>ʊ</b>		max. Earth dist.	4323 Aug 25 14:27	6° Mp 45'10	1.33678 AU
evening rise	4322 Sep 16 01:24	3° <b>Ω</b> 05'58		evening rise	4323 Aug 30 13:41	16° <b>m</b> 54'56	
desc. node	4322 Sep 29 17:43	26° <b>£</b> 51'36			4323 Sep 06 11:58	0° <b>⊽</b>	
	4322 Oct 01 18:17	0° <b>M</b>		desc. node	4323 Sep 16 14:44	16° <b>≏</b> 43'36	
evening max el	4322 Oct 21 08:42	25°M01'35	26°42'35		4323 Sep 26 05:03	0° <b>M</b> ₊	
	4322 Oct 27 13:16	0° <b>∡</b>		evening max el	4323 Oct 03 21:00	8°M28'06	27°18'23
retrograde	4322 Nov 03 09:21	2° <b>∡</b> 17'13		retrograde	4323 Oct 17 08:29	15°M46'29	
evening set	4322 Nov 09 23:19	29°M37'54		evening set	4323 Oct 24 08:17	13°M06'00	
	4322 Nov 09 12:06	30°RM		min. Earth dist.	4323 Oct 28 03:24	9° <b>™</b> 34'18	0.64590 AU
min. Earth dist.	4322 Nov 14 00:24	25°M31'30	0.65969 AU	inferior conj	4323 Oct 30 10:39	7° <b>M</b> 05'06	-2°24'28
inferior conj	4322 Nov 15 19:37	23°M23'50	-1°22'33	minimum elong	4323 Oct 30 14:45	6° <b>™</b> 53'58	2°22'53
minimum elong	4322 Nov 15 21:54	23°M17'03	1°21'34	morning rise	4323 Nov 05 22:25	1° <b>M</b> 37'04	
asc. node	4322 Nov 19 20:50	19° <b>™</b> 06'07		asc. node	4323 Nov 06 17:53	1° <b>M</b> ₊18'52	
morning rise	4322 Nov 21 21:16	17° <b>M</b> 41'51		direct	4323 Nov 08 12:22	1°ML02'32	
direct	4322 Nov 24 18:15	16°M55'54		morning max el	4323 Nov 15 00:08	4° <b>M</b> 28'48	17°57'50
morning max el	4322 Dec 01 08:06	20°M30'08	18°23'19		4323 Dec 01 22:37	0° <b>∡</b> ¹	
	4322 Dec 08 16:57	0°⊀		morning set	4323 Dec 02 09:40	0° <b>∡</b> ¹46'31	
morning set	4322 Dec 20 22:37	19° <b>∡</b> 19'33		desc. node	4323 Dec 13 14:01	19° <b>∡</b> 16′26	
desc. node	4322 Dec 26 16:58	28° <b>҂</b> ³33'33					
	4322 Dec 27 14:41	ರ°0		superior conj	4323 Dec 15 23:38	23° <b>∡</b> ¹08'46	-0°16'33
				minimum elong	4323 Dec 15 21:39	23° <b>∡</b> ¹00'46	0°16'15
superior conj	4323 Jan 05 11:38	14° <b>ට</b> 00'48	-1°03'49		4323 Dec 20 06:54	0°ಕ	
minimum elong	4323 Jan 05 03:53	13° <b>る</b> 30'20	1°02'51	max. Earth dist.	4323 Dec 20 11:58	0° <b>る</b> 19'59	1.44859 AU
max. Earth dist.	4323 Jan 06 17:01	15° <b>පි</b> 56'04	1.45279 AU	evening rise	4324 Jan 01 04:47	18° <b>る</b> 33'24	
	4323 Jan 15 16:29	0° <b>≈</b>			4324 Jan 08 16:19	0° <b>≈</b>	
evening rise	4323 Jan 21 13:37	9° <b>≈</b> 14'16		greatest brilliancy	4324 Jan 15 17:02	10° <b>≈</b> 32′06	-0.6m
greatest brilliancy	4323 Jan 31 23:10	25°≈32'26	-0.8m	evening max el	4324 Jan 27 17:47	26° <b>≈</b> 20'52	20°04'18
	4323 Feb 03 21:15	0° <b>∀</b>		•	4324 Feb 01 07:56	0° <b>₩</b>	
evening max el	4323 Feb 13 13:08	12° <b>)</b> 48'45	19°10'02	asc. node	4324 Feb 02 17:08	0° <b>¥</b> 34'15	
asc. node	4323 Feb 15 20:06	14° <b>)</b> 52'25		retrograde	4324 Feb 04 10:26	0° <b>¥</b> 50'13	
retrograde	4323 Feb 20 12:34	16° <b>)</b> 46'40		Č	4324 Feb 07 09:00	30° <b>R</b> ≈	
evening set	4323 Feb 23 22:11	15° <b>¥</b> 39'17		evening set	4324 Feb 08 04:11	29° <b>≈</b> 28'47	
inferior conj	4323 Mar 01 11:10	9° <b>升</b> 50'25	3°24'37	inferior conj	4324 Feb 13 13:49	23° <b>≈</b> 26′03	3°02'03
minimum elong	4323 Mar 01 09:33	9° <b>∺</b> 55'35	3°24'26	minimum elong	4324 Feb 13 11:31	23° <b>≈</b> 33'45	3°01'34
min. Earth dist.	4323 Mar 02 22:13	7° <b>)</b> 58′20	0.66132 AU	min. Earth dist.	4324 Feb 14 10:41	22° <b>≈</b> 15'48	0.67177 AU
morning rise	4323 Mar 06 20:36	3° <b>)</b> €36'32		morning rise	4324 Feb 18 18:38	17° <b>≈</b> 11'56	
direct	4323 Mar 13 05:42	0° <b>)</b> 47'48		direct	4324 Feb 24 15:07	14° <b>≈</b> 34'54	
desc. node	4323 Mar 24 16:09	7° <b>)</b> €04'25		morning max el	4324 Mar 07 08:57	21° <b>≈</b> 36′09	25°00'08
morning max el	4323 Mar 26 00:14	8° <b>)</b> €23'02	26°19'15	desc. node	4324 Mar 10 13:12	25°≈01'45	
. 8	4323 Apr 11 21:49	$0^{\circ}\Upsilon$			4324 Mar 14 16:13	0° <b>)</b>	
	4323 Apr 29 22:55	0°8			4324 Apr 04 03:59	0° <b>Υ</b>	
morning set	4323 May 01 02:31	2° <b>8</b> 08'17		morning set	4324 Apr 12 12:17	14° <b>Y</b> 16'10	
max. Earth dist.	4323 May 05 03:16	9° <b>8</b> 51'20	1.34986 AU	max. Earth dist.	4324 Apr 16 03:20		1.36838 AU
		, 0,,,,,			4324 Apr 20 23:01	0°8	
superior conj	4323 May 10 01:12	19° <b>8</b> 42'20	-0°47'40		r	_	
minimum elong	4323 May 10 01:12	19° <b>8</b> 55'29		superior conj	4324 Apr 22 12:48	3° <b>8</b> 04'18	-1°16'27
_			J ., 11	minimum elong	4324 Apr 22 16:52	3° <b>8</b> 24'18	
asc node	•	29° <b>X</b> 33'55		minimum ciong	10.02	J <b>U</b> ZT 10	1 10 10
asc. node	4323 May 14 19:24	29° <b>႘</b> 33'55 0°π		evenino rise	4324 Apr 30 21:34	19°₩50'08	
	4323 May 14 19:24 4323 May 15 00:24	$\Pi^{\circ}0$		evening rise	4324 Apr 30 21:34 4324 Apr 30 16:26	19° <b>8</b> 50'08	
asc. node evening rise	4323 May 14 19:24 4323 May 15 00:24 4323 May 17 18:09	0° <b>П</b> 5° <b>П</b> 41'34		evening rise asc. node	4324 Apr 30 16:26	19° <b>8</b> 24'22	
evening rise	4323 May 14 19:24 4323 May 15 00:24 4323 May 17 18:09 4323 May 31 06:46	0°Ⅱ 5°Ⅱ41'34 0°ᢒ	20°40'21	asc. node	4324 Apr 30 16:26 4324 May 06 02:16	19° <b>႘</b> 24'22 0°Ⅲ	10°22'02
evening rise evening max el	4323 May 14 19:24 4323 May 15 00:24 4323 May 17 18:09 4323 May 31 06:46 4323 Jun 05 10:52	0°Ⅱ 5°Ⅱ41'34 0°ᢒ 6°ᢒ08'15	20°40'31	asc. node evening max el	4324 Apr 30 16:26 4324 May 06 02:16 4324 May 18 00:05	19° <b>8</b> 24'22 0°Ⅲ 17°Ⅲ38'54	19°32'02
evening rise evening max el retrograde	4323 May 14 19:24 4323 May 15 00:24 4323 May 17 18:09 4323 May 31 06:46 4323 Jun 05 10:52 4323 Jun 16 18:07	0°Ⅱ 5°Ⅱ41'34 0°ᢒ 6°ᢒ08'15 11°ᢒ39'57	20°40'31	asc. node evening max el retrograde	4324 Apr 30 16:26 4324 May 06 02:16 4324 May 18 00:05 4324 May 27 13:24	19° <b>8</b> 24'22 0° <b>П</b> 17° <b>П</b> 38'54 22° <b>П</b> 18'02	19°32'02
evening rise evening max el	4323 May 14 19:24 4323 May 15 00:24 4323 May 17 18:09 4323 May 31 06:46 4323 Jun 05 10:52	0°Ⅱ 5°Ⅱ41'34 0°ᢒ 6°ᢒ08'15	20°40'31	asc. node evening max el	4324 Apr 30 16:26 4324 May 06 02:16 4324 May 18 00:05	19° <b>8</b> 24'22 0°Ⅲ 17°Ⅲ38'54	19°32'02

	4224 I 07 04-42	100T02126	0012104		4225 M 00 01.40	3° <b>∏</b> 46′28	
inferior conj	4324 Jun 07 04:42	18° <b>Ⅱ</b> 02'26		retrograde	4325 May 09 01:49		
minimum elong	4324 Jun 07 04:10	18° <b>Ⅲ</b> 03'17		evening set	4325 May 11 06:13	3° <b>∏</b> 30′08	
transit middle	4324 Jun 07 04:10	18° <b>Ⅲ</b> 03'17	0°11'52		4325 May 17 22:04	30° <b>₹</b> 8	
transit begin	4324 Jun 07 01:33	18° <b>Ⅱ</b> 07'28		inferior conj	4325 May 19 02:33	29° <b>8</b> 07'42	1°29'07
transit end	4324 Jun 07 06:47	17° <b>∏</b> 59'07		minimum elong	4325 May 19 05:35	29° <b>8</b> 02'02	1°28'07
min. Earth dist.	4324 Jun 09 16:48	16° <b>Ⅱ</b> 26'59	0.55737 AU	min. Earth dist.	4325 May 22 09:34	26° <b>8</b> 41'53	0.57363 AU
morning rise	4324 Jun 15 17:11	13° <b>Ⅲ</b> 25'42		desc. node	4325 May 24 09:24	25° <b>8</b> 22'06	
direct	4324 Jun 20 07:44	12° <b>Ⅲ</b> 38′01		morning rise	4325 May 27 01:44	23° <b>8</b> 55'34	
morning max el	4324 Jul 04 08:28	19° <b>∏</b> 41'36	24°52'35	direct	4325 Jun 01 15:26	22° <b>8</b> 39'19	
	4324 Jul 13 02:02	0.2e			4325 Jun 15 19:22	0°II	
asc. node	4324 Jul 27 15:42	25° <b>©</b> 12'13		morning max el	4325 Jun 16 00:03	0° <b>П</b> 11'17	26°22'41
asc. node	4324 Jul 29 23:12	0°Ω		morning max ci	4325 Jul 06 22:06	0°95	20 22 41
		0°Ω47'42		. ,			
morning set	4324 Jul 30 08:14	0-364/42		morning set	4325 Jul 14 18:59	15°936'45	
		0		asc. node	4325 Jul 14 12:44	15° <b>©</b> 03'45	
superior conj	4324 Aug 06 06:55	15° <b>Ω</b> 52'06	1°25'45		4325 Jul 21 09:48	$0$ $^{\circ}$ $\Omega$	
minimum elong	4324 Aug 06 04:42	15° <b>Ω</b> 40'01	1°25'28				
max. Earth dist.	4324 Aug 07 19:03	19° <b>Ω</b> 08'53	1.32704 AU	superior conj	4325 Jul 21 18:19	0° <b>Ω</b> 47'00	1°09'23
	4324 Aug 12 21:44	0° <b>m</b> p		minimum elong	4325 Jul 21 16:01	0° <b>Ω</b> 34'15	1°09'00
evening rise	4324 Aug 13 11:44	1° Mp 12'00		max. Earth dist.	4325 Jul 22 04:59	1° <b>Ω</b> 45'47	1.32143 AU
	4324 Aug 29 10:28	0∘ <b>⊽</b>		evening rise	4325 Jul 28 16:30	15° <b>Ω</b> 46'43	
desc. node	4324 Sep 02 11:44	6° <b>£</b> 03'27		C	4325 Aug 04 20:30	0° <b>m</b> )	
evening max el	4324 Sep 15 07:19	21° <b>£</b> 29'42	27°25'49	desc. node	4325 Aug 20 08:43	24° m) 36'57	
retrograde	4324 Sep 29 00:56	28° <b>£</b> 45'01	2, 20 .,	dese. node	4325 Aug 24 19:14	0° <b>⊽</b>	
evening set	4324 Oct 06 05:24	26° <b>⊆</b> 13'32		evening max el	4325 Aug 28 12:42	° <b>–</b> 3° <b>⊆</b> 51'30	27000'33
•			0.62001 ATT	-	=		27 00 33
min. Earth dist.	4324 Oct 09 20:38	23° <b>£</b> 12'25	0.62891 AU	retrograde	4325 Sep 11 09:50	11° <b>Ω</b> 02'53	
inferior conj	4324 Oct 12 15:33	20° <b>£</b> 30′29		evening set	4325 Sep 18 10:31	8° <b>£</b> 52'30	
minimum elong	4324 Oct 12 21:10		3°23'40	min. Earth dist.	4325 Sep 22 02:57	6° <b>≏</b> 12'24	0.60930 AU
morning rise	4324 Oct 19 14:29	15° <b>≏</b> 19'46		inferior conj	4325 Sep 25 07:00	3° <b>ჲ</b> 30'34	
direct	4324 Oct 22 00:07	14° <b>≏</b> 53'02		minimum elong	4325 Sep 25 12:59	3° <b>≏</b> 17'47	4°19'03
asc. node	4324 Oct 23 14:55	15° <b>≏</b> 05'28			4325 Sep 29 21:21	30°₽,₩	
morning max el	4324 Oct 28 16:39	18° <b>≏</b> 19'25	17°49'59	morning rise	4325 Oct 02 17:19	28° Mp40'47	
	4324 Nov 06 03:20	$0^{\circ}$ M.		direct	4325 Oct 05 01:40	28° Mp 18'49	
morning set	4324 Nov 13 20:35	13°M22'30			4325 Oct 09 23:49	0∘ <b>ত</b>	
	4324 Nov 23 10:13	0° <b>∡</b> ¹		asc. node	4325 Oct 10 11:57	0° <b>£</b> 21'43	
				morning max el	4325 Oct 12 06:30	1° <b>≏</b> 53'35	18°00'53
superior conj	4324 Nov 25 11:33	3° <b>∡</b> ¹27'57	0°27'35	morning set	4325 Oct 28 00:52	26° <b>≏</b> 47'33	
minimum elong	4324 Nov 25 14:12	3° <b>×</b> 39'01	0°27'12	<i>3</i>	4325 Oct 29 18:28	0°M	
desc. node	4324 Nov 29 11:03	10° <b>₹</b> '03'13	V 27 12		1320 301 25 10.20	~ III•	
max. Earth dist.	4324 Dec 02 04:44	14° × 29'49	1.43754 AU	superior conj	4325 Nov 07 01:52	15°MJ04'08	1°02'11
evening rise	1321 DCC 02 01.11	17 / 2/7/	1.73737110				1 02 11
evening rise	4324 Dec. 10, 14:47	270 7/161/15		1 3			100140
	4324 Dec 10 14:47	27° <b>₹</b> 46'45		minimum elong	4325 Nov 07 05:59	15°M22'14	
	4324 Dec 12 01:21	8°0		1 3	4325 Nov 07 05:59 4325 Nov 14 16:49	15°M22'14 28°M07'57	1°01'40 1.42092 AU
	4324 Dec 12 01:21 4325 Jan 01 13:10	ರ°0 š0	2121112	minimum elong max. Earth dist.	4325 Nov 07 05:59 4325 Nov 14 16:49 4325 Nov 15 19:53	15°M22'14 28°M07'57 0°⊀	
evening max el	4324 Dec 12 01:21 4325 Jan 01 13:10 4325 Jan 09 17:00	0°る 0°≈ 9°≈54'24	21°11'32	minimum elong max. Earth dist. desc. node	4325 Nov 17 05:59 4325 Nov 14 16:49 4325 Nov 15 19:53 4325 Nov 16 08:04	15°M22'14 28°M07'57 0°⊀ 0°⊀50'08	
retrograde	4324 Dec 12 01:21 4325 Jan 01 13:10 4325 Jan 09 17:00 4325 Jan 18 08:16	0°る 0°≈ 9°≈54'24 15°≈01'23	21°11'32	minimum elong max. Earth dist.	4325 Nov 07 05:59 4325 Nov 14 16:49 4325 Nov 15 19:53 4325 Nov 16 08:04 4325 Nov 20 11:25	15°M.22'14 28°M.07'57 0° ₹ 50'08 7° ₹ 32'05	
retrograde asc. node	4324 Dec 12 01:21 4325 Jan 01 13:10 4325 Jan 09 17:00 4325 Jan 18 08:16 4325 Jan 19 14:09	0°る 0°≈ 9°≈54'24	21°11'32	minimum elong max. Earth dist. desc. node evening rise	4325 Nov 07 05:59 4325 Nov 14 16:49 4325 Nov 15 19:53 4325 Nov 16 08:04 4325 Nov 20 11:25 4325 Dec 05 06:19	15°M22'14 28°M07'57 0°メ 0°メ50'08 7°メ32'05 0°る	1.42092 AU
retrograde	4324 Dec 12 01:21 4325 Jan 01 13:10 4325 Jan 09 17:00 4325 Jan 18 08:16	0°る 0°≈ 9°≈54'24 15°≈01'23	21°11'32	minimum elong max. Earth dist. desc. node	4325 Nov 07 05:59 4325 Nov 14 16:49 4325 Nov 15 19:53 4325 Nov 16 08:04 4325 Nov 20 11:25	15°M.22'14 28°M.07'57 0° ₹ 50'08 7° ₹ 32'05	1.42092 AU
retrograde asc. node	4324 Dec 12 01:21 4325 Jan 01 13:10 4325 Jan 09 17:00 4325 Jan 18 08:16 4325 Jan 19 14:09	0°る 0°≈ 9°≈54'24 15°≈01'23 14°≈52'58	21°11'32 2°29'56	minimum elong max. Earth dist. desc. node evening rise	4325 Nov 07 05:59 4325 Nov 14 16:49 4325 Nov 15 19:53 4325 Nov 16 08:04 4325 Nov 20 11:25 4325 Dec 05 06:19	15°M22'14 28°M07'57 0°メ 0°メ50'08 7°メ32'05 0°る	1.42092 AU
retrograde asc. node evening set	4324 Dec 12 01:21 4325 Jan 01 13:10 4325 Jan 09 17:00 4325 Jan 18 08:16 4325 Jan 19 14:09 4325 Jan 22 11:46	0° <b>ర</b> 0°≈ 9°≈54'24 15°≈01'23 14°≈52'58 13°≈24'45		minimum elong max. Earth dist. desc. node evening rise evening max el	4325 Nov 07 05:59 4325 Nov 14 16:49 4325 Nov 15 19:53 4325 Nov 16 08:04 4325 Nov 20 11:25 4325 Dec 05 06:19 4325 Dec 23 10:58	15°M22'14 28°M07'57 0°メ 0°メ50'08 7°メ32'05 0°उ 23°る29'24	1.42092 AU
retrograde asc. node evening set inferior conj	4324 Dec 12 01:21 4325 Jan 01 13:10 4325 Jan 09 17:00 4325 Jan 18 08:16 4325 Jan 19 14:09 4325 Jan 22 11:46 4325 Jan 27 20:03	0°♂ 0°≈ 9°≈54'24 15°≈01'23 14°≈52'58 13°≈24'45 7°≈10'51	2°29'56	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	4325 Nov 07 05:59 4325 Nov 14 16:49 4325 Nov 15 19:53 4325 Nov 16 08:04 4325 Nov 20 11:25 4325 Dec 05 06:19 4325 Dec 23 10:58 4326 Jan 02 04:26	15°M22'14 28°M07'57 0°ズ 0°ズ50'08 7°ズ32'05 0°उ 23°उ29'24 29°उ16'26	1.42092 AU
retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	4324 Dec 12 01:21 4325 Jan 01 13:10 4325 Jan 09 17:00 4325 Jan 18 08:16 4325 Jan 19 14:09 4325 Jan 22 11:46 4325 Jan 27 20:03 4325 Jan 27 17:35	0°♂ 0°≈ 9°≈54'24 15°≈01'23 14°≈52'58 13°≈24'45 7°≈10'51 7°≈19'22	2°29'56 2°29'12	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set	4325 Nov 07 05:59 4325 Nov 14 16:49 4325 Nov 15 19:53 4325 Nov 16 08:04 4325 Nov 20 11:25 4325 Dec 05 06:19 4325 Dec 23 10:58 4326 Jan 02 04:26 4326 Jan 06 11:10	15°M22'14 28°M07'57 0°ズ 0°ズ50'08 7°ズ32'05 0°उ 23°उ29'24 29°उ16'26 27°उ39'59	1.42092 AU
retrograde asc. node evening set inferior conj minimum elong	4324 Dec 12 01:21 4325 Jan 01 13:10 4325 Jan 09 17:00 4325 Jan 18 08:16 4325 Jan 19 14:09 4325 Jan 22 11:46 4325 Jan 27 20:03 4325 Jan 27 17:35 4325 Jan 28 04:08	0° <b>ठ</b> 0°≈ 9°≈54'24 15°≈01'23 14°≈52'58 13°≈24'45 7°≈10'51 7°≈19'22 6°≈42'55	2°29'56 2°29'12	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node	4325 Nov 07 05:59 4325 Nov 14 16:49 4325 Nov 15 19:53 4325 Nov 16 08:04 4325 Nov 20 11:25 4325 Dec 05 06:19 4325 Dec 23 10:58 4326 Jan 02 04:26 4326 Jan 06 11:10 4326 Jan 06 19:16	15°M22'14 28°M07'57 0°ズ50'08 7°ズ32'05 0°उ 23°उ29'24 29°उ16'26 27°उ39'59 27°उ23'53	1.42092 AU 22°27'50
retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	4324 Dec 12 01:21 4325 Jan 01 13:10 4325 Jan 09 17:00 4325 Jan 18 08:16 4325 Jan 19 14:09 4325 Jan 22 11:46 4325 Jan 27 20:03 4325 Jan 27 17:35 4325 Jan 28 04:08 4325 Feb 01 23:13 4325 Feb 03 04:53	0°る 0°≈ 9°≈54'24 15°≈01'23 14°≈52'58 13°≈24'45 7°≈10'51 7°≈19'22 6°≈42'55 0°≈58'12 30°₹る	2°29'56 2°29'12	minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	4325 Nov 07 05:59 4325 Nov 14 16:49 4325 Nov 15 19:53 4325 Nov 16 08:04 4325 Nov 20 11:25 4325 Dec 05 06:19 4325 Dec 23 10:58 4326 Jan 02 04:26 4326 Jan 06 11:10 4326 Jan 06 19:16 4326 Jan 12 03:51 4326 Jan 12 01:42	15°M22'14 28°M07'57 0°水 0°水50'08 7°水32'05 0°芯 23°ጜ29'24 29°ጜ16'26 27°ጜ39'59 27°ጜ23'53 21°ጜ02'09 21°ጜ09'39	1.42092 AU 22°27'50 1°49'49 1°49'02
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retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	4324 Dec 12 01:21 4325 Jan 01 13:10 4325 Jan 09 17:00 4325 Jan 18 08:16 4325 Jan 19 14:09 4325 Jan 22 11:46 4325 Jan 27 20:03 4325 Jan 28 04:08 4325 Feb 01 23:13 4325 Feb 03 04:53 4325 Feb 07 05:14 4325 Feb 11 15:35 4325 Feb 17 17:38 4325 Feb 25 10:15 4325 Mar 09 00:35 4325 Mar 24 22:55 4325 Mar 27 17:32 4325 Mar 28 22:39	0°る 0°≈ 9°≈54'24 15°≈01'23 14°≈52'58 13°≈24'45 7°≈10'51 7°≈19'22 6°≈42'55 0°≈58'12 30°Rる 28°る40'18 0°≈ 4°≈55'41 13°≈52'14 0°¥ 25°¥14'28 0°Y 2°Y07'02	2°29'56 2°29'12 0.67807 AU 23°31'53 1.38980 AU -1°42'08	minimum elong max. Earth dist.  desc. node evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.	4325 Nov 07 05:59 4325 Nov 14 16:49 4325 Nov 15 19:53 4325 Nov 16 08:04 4325 Nov 20 11:25 4325 Dec 05 06:19 4325 Dec 23 10:58 4326 Jan 02 04:26 4326 Jan 06 11:10 4326 Jan 12 03:51 4326 Jan 12 01:42 4326 Jan 12 00:20 4326 Jan 17 08:00 4326 Jan 21 23:12 4326 Jan 31 05:31 4326 Feb 09 20:33 4326 Feb 12 07:18 4326 Mar 02 04:10 4326 Mar 05 05:26 4326 Mar 10 20:44	15°M22'14 28°M07'57 0°ズ 0°ズ50'08 7°ズ32'05 0°℧ 23°℧29'24 29°℧16'26 27°℧23'53 21°℧02'09 21°℧09'39 21°℧14'20 14°℧52'26 12°℧57'07 18°℧23'10 0°≈ 3°≈20'52 0°ዢ 4°沃52'21 14°光08'14	1.42092 AU  22°27'50  1°49'49 1°49'02 0.68039 AU  22°04'09  1.41144 AU -2°00'59
retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	4324 Dec 12 01:21 4325 Jan 01 13:10 4325 Jan 09 17:00 4325 Jan 18 08:16 4325 Jan 19 14:09 4325 Jan 22 11:46 4325 Jan 27 20:03 4325 Jan 28 04:08 4325 Feb 01 23:13 4325 Feb 03 04:53 4325 Feb 07 05:14 4325 Feb 11 15:35 4325 Feb 17 17:38 4325 Feb 25 10:15 4325 Mar 09 00:35 4325 Mar 24 22:55 4325 Mar 27 17:32 4325 Mar 28 22:39  4325 Apr 05 10:50 4325 Apr 05 15:39	0°5 0°≈ 9°≈54'24 15°≈01'23 14°≈52'58 13°≈24'45 7°≈10'51 7°≈19'22 6°≈42'55 0°≈58'12 30°₹5 28°540'18 0°≈ 4°≈55'41 13°≈52'14 0°¥ 25°¥14'28 0°Ψ 2°Ψ07'02	2°29'56 2°29'12 0.67807 AU 23°31'53 1.38980 AU -1°42'08	minimum elong max. Earth dist.  desc. node evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist. superior conj	4325 Nov 07 05:59 4325 Nov 14 16:49 4325 Nov 15 19:53 4325 Nov 16 08:04 4325 Nov 20 11:25 4325 Dec 05 06:19 4325 Dec 23 10:58 4326 Jan 02 04:26 4326 Jan 06 11:10 4326 Jan 12 03:51 4326 Jan 12 01:42 4326 Jan 12 00:20 4326 Jan 17 08:00 4326 Jan 21 23:12 4326 Jan 31 05:31 4326 Feb 09 20:33 4326 Feb 12 07:18 4326 Mar 02 04:10 4326 Mar 05 05:26 4326 Mar 10 20:44	15°M22'14 28°M07'57 0° ポ 0° ポ50'08 7° ポ32'05 0° ጜ 23° ጜ29'24 29° ጜ16'26 27° ጜ23'53 21° ጜ02'09 21° ጜ09'39 21° ጜ14'20 14° ጜ52'26 12° ጜ57'07 18° ጜ23'10 0° ≈ 3° ≈20'52 0° 米 4° 米52'21 14° 米08'14	1.42092 AU  22°27'50  1°49'49 1°49'02 0.68039 AU  22°04'09  1.41144 AU -2°00'59
retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	4324 Dec 12 01:21 4325 Jan 01 13:10 4325 Jan 09 17:00 4325 Jan 18 08:16 4325 Jan 19 14:09 4325 Jan 22 11:46 4325 Jan 27 20:03 4325 Jan 28 04:08 4325 Feb 01 23:13 4325 Feb 03 04:53 4325 Feb 07 05:14 4325 Feb 11 15:35 4325 Feb 17 17:38 4325 Feb 25 10:15 4325 Mar 09 00:35 4325 Mar 24 22:55 4325 Mar 27 17:32 4325 Mar 28 22:39  4325 Apr 05 10:50 4325 Apr 05 15:39 4325 Apr 12 21:41	0°♂ 0°≈ 9°≈54'24 15°≈01'23 14°≈52'58 13°≈24'45 7°≈10'51 7°≈19'22 6°≈42'55 0°≈58'12 30°R♂ 28°♂40'18 0°≈ 4°≈55'41 13°≈52'14 0°¥ 25°¥14'28 0°Y 2°Y07'02 15°Y43'46 16°Y06'21 0°♂	2°29'56 2°29'12 0.67807 AU 23°31'53 1.38980 AU -1°42'08	minimum elong max. Earth dist.  desc. node evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist. superior conj	4325 Nov 07 05:59 4325 Nov 14 16:49 4325 Nov 15 19:53 4325 Nov 16 08:04 4325 Nov 20 11:25 4325 Dec 05 06:19 4325 Dec 23 10:58 4326 Jan 02 04:26 4326 Jan 06 11:10 4326 Jan 12 03:51 4326 Jan 12 00:20 4326 Jan 12 00:20 4326 Jan 12 00:20 4326 Jan 21 23:12 4326 Jan 31 05:31 4326 Feb 09 20:33 4326 Feb 12 07:18 4326 Mar 05 05:26 4326 Mar 10 20:44  4326 Mar 18 14:39 4326 Mar 18 18:25	15°M22'14 28°M07'57 0° ズ 0° ズ 50'08 7° ズ 32'05 0° ℧ 23° ℧ 29'24 29° ℧ 16'26 27° ℧ 23'53 21° ℧ 02'09 21° ℧ 09'39 21° ℧ 14'20 14° ℧ 52'26 12° ℧ 57'07 18° ℧ 23'10 0° ※ 3° ※ 20'52 0° 沃 4° 沃 52'21 14° ℋ 08'14 27° ℋ 29'45 27° ℋ 46'26	1.42092 AU  22°27'50  1°49'49 1°49'02 0.68039 AU  22°04'09  1.41144 AU -2°00'59
retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	4324 Dec 12 01:21 4325 Jan 01 13:10 4325 Jan 09 17:00 4325 Jan 18 08:16 4325 Jan 19 14:09 4325 Jan 22 11:46 4325 Jan 27 20:03 4325 Jan 28 04:08 4325 Feb 01 23:13 4325 Feb 03 04:53 4325 Feb 07 05:14 4325 Feb 11 15:35 4325 Feb 17 17:38 4325 Feb 25 10:15 4325 Mar 09 00:35 4325 Mar 24 22:55 4325 Mar 27 17:32 4325 Mar 28 22:39  4325 Apr 05 10:50 4325 Apr 05 15:39 4325 Apr 12 21:41 4325 Apr 14 17:16	0°♂ 0°≈ 9°≈54'24 15°≈01'23 14°≈52'58 13°≈24'45 7°≈10'51 7°≈19'22 6°≈42'55 0°≈58'12 30°₨ 28°♂40'18 0°≈ 4°≈55'41 13°≈52'14 0°¥ 25°¥14'28 0°Y 2°Y07'02 15°Y43'46 16°Y06'21 0°♂ 3°∀31'35	2°29'56 2°29'12 0.67807 AU 23°31'53 1.38980 AU -1°42'08	minimum elong max. Earth dist.  desc. node evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.  superior conj minimum elong	4325 Nov 07 05:59 4325 Nov 14 16:49 4325 Nov 15 19:53 4325 Nov 16 08:04 4325 Nov 20 11:25 4325 Dec 05 06:19 4325 Dec 23 10:58 4326 Jan 02 04:26 4326 Jan 06 11:10 4326 Jan 12 03:51 4326 Jan 12 01:42 4326 Jan 12 00:20 4326 Jan 12 00:20 4326 Jan 21 23:12 4326 Jan 31 05:31 4326 Feb 09 20:33 4326 Feb 12 07:18 4326 Mar 05 05:26 4326 Mar 10 20:44  4326 Mar 18 14:39 4326 Mar 18 18:25 4326 Mar 20 00:22	15°M22'14 28°M07'57 0°ズ 0°ズ50'08 7°ズ32'05 0°G 23°G29'24 29°G16'26 27°G39'59 21°G02'09 21°G09'39 21°G14'20 14°G52'26 12°G57'07 18°G23'10 0°≈ 3°≈20'52 0°ዢ 4°Ҡ52'21 14°Ҡ08'14 27°Ҡ29'45 27°Ҡ46'26 0°℃	1.42092 AU  22°27'50  1°49'49 1°49'02 0.68039 AU  22°04'09  1.41144 AU -2°00'59
retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	4324 Dec 12 01:21 4325 Jan 01 13:10 4325 Jan 09 17:00 4325 Jan 18 08:16 4325 Jan 19 14:09 4325 Jan 22 11:46 4325 Jan 27 20:03 4325 Jan 28 04:08 4325 Feb 01 23:13 4325 Feb 03 04:53 4325 Feb 07 05:14 4325 Feb 11 15:35 4325 Feb 17 17:38 4325 Feb 17 17:38 4325 Feb 25 10:15 4325 Mar 09 00:35 4325 Mar 24 22:55 4325 Mar 27 17:32 4325 Apr 05 10:50 4325 Apr 05 15:39 4325 Apr 10 10:50 4325 Apr 11 17:16 4325 Apr 17 13:27	0°♂ 0°≈ 9°≈54'24 15°≈01'23 14°≈52'58 13°≈24'45 7°≈10'51 7°≈19'22 6°≈42'55 0°≈58'12 30°₹♂ 28°♂40'18 0°≈ 4°≈55'41 13°≈52'14 0°¥ 25°¥14'28 0°Y 2°Y07'02 15°Y43'46 16°Y06'21 0°♂ 3°♂31'35 8°♂59'51	2°29'56 2°29'12 0.67807 AU 23°31'53 1.38980 AU -1°42'08 1°41'36	minimum elong max. Earth dist.  desc. node evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.  superior conj minimum elong evening rise	4325 Nov 07 05:59 4325 Nov 14 16:49 4325 Nov 15 19:53 4325 Nov 16 08:04 4325 Nov 20 11:25 4325 Dec 05 06:19 4325 Dec 23 10:58 4326 Jan 02 04:26 4326 Jan 06 11:10 4326 Jan 12 03:51 4326 Jan 12 01:42 4326 Jan 12 00:20 4326 Jan 12 00:20 4326 Jan 21 23:12 4326 Jan 31 05:31 4326 Feb 09 20:33 4326 Feb 12 07:18 4326 Mar 02 04:10 4326 Mar 05 05:26 4326 Mar 18 14:39 4326 Mar 18 18:25 4326 Mar 20 00:22 4326 Mar 20 00:22 4326 Mar 20 00:22 4326 Mar 20 00:22	15°M22'14 28°M07'57 0°ズ 0°ズ50'08 7°ズ32'05 0°उ 23°उ29'24 29°उ16'26 27°उ39'59 21°उ02'09 21°उ09'39 21°उ14'20 14°उ52'26 12°उ57'07 18°उ23'10 0°≈ 3°≈20'52 0°Ж 4°Ж52'21 14°Ж08'14 27°Ж29'45 27°Ж46'26 0°℃ 16°℃37'59	1.42092 AU  22°27'50  1°49'49 1°49'02 0.68039 AU  22°04'09  1.41144 AU -2°00'59

	1326 4 14 07:26	12° <b>8</b> 30'59	18°15'17		4227 A 04 00.21	28° <b>Y</b> 58'27	
evening max el	4326 Apr 14 07:36	_	16 13 17	retrograde	4327 Apr 04 08:21		
retrograde	4326 Apr 21 09:19	16° <b>8</b> 03'24		evening set	4327 Apr 07 01:39	28° <b>Y</b> 23'03	2010140
evening set	4326 Apr 23 20:20	15° <b>8</b> 38'33	2020150	inferior conj	4327 Apr 13 12:20	23°Υ20'00	3°18'48
inferior conj	4326 Apr 30 22:01	10° <b>8</b> 55'38	2°38'59	minimum elong	4327 Apr 13 14:33	23° <b>Y</b> 14'27	3°18'30
minimum elong	4326 May 01 01:31	10° <b>8</b> 47'59	2°38'08	min. Earth dist.	4327 Apr 16 13:52	20° <b>Y</b> 17'11	0.61638 AU
min. Earth dist.	4326 May 04 07:53	7° <b>8</b> 58'52	0.59445 AU	morning rise	4327 Apr 20 01:40	17° <b>Y</b> 21'26	
morning rise	4326 May 08 03:59	5° <b>8</b> 14'55		direct	4327 Apr 26 20:55	14° <b>Y</b> 58'12	
desc. node	4326 May 11 06:27	3° <b>8</b> 52'51		desc. node	4327 Apr 28 03:29	15° <b>Y</b> 02'56	
direct	4326 May 14 12:35	3° <b>8</b> 23'38		morning max el	4327 May 11 01:19	22° <b>Y</b> 56′50	27°51'24
morning max el	4326 May 28 21:35	11° <b>8</b> 13'22	27°25'07		4327 May 17 07:36	0°8	
	4326 Jun 12 12:40	$\Pi$ $^{\circ}0$			4327 Jun 05 17:21	$\Pi$ $^{\circ}0$	
morning set	4326 Jun 29 03:05	0°ഇ15'58		morning set	4327 Jun 13 06:35	14° <b>Ⅱ</b> 38'47	
	4326 Jun 29 00:01	$0$ $\circ$		asc. node	4327 Jun 18 06:49	25° <b>Ⅱ</b> 11'58	
asc. node	4326 Jul 01 09:46	5° <b>5</b> 05'19		max. Earth dist.	4327 Jun 19 01:59	26° <b>Ⅱ</b> 55'38	1.32257 AU
max. Earth dist.	4326 Jul 05 16:36	14° <b>©</b> 25'41	1.31992 AU		4327 Jun 20 11:50	0°€	
superior conj	4326 Jul 06 06:02	15° <b>©</b> 39'46	0°48'53	superior conj	4327 Jun 20 16:19	0°924'30	0°24'53
minimum elong	4326 Jul 06 04:06	15° <b>©</b> 29'05	0°48'31	minimum elong	4327 Jun 20 15:12	0° <b>©</b> 18'22	0°24'38
8	4326 Jul 12 19:37	$0^{\circ}\Omega$		evening rise	4327 Jun 27 13:00	15° <b>©</b> 20'31	
evening rise	4326 Jul 13 01:37	0° <b>Ω</b> 31'51			4327 Jul 04 19:45	$0^{\circ}\Omega$	
evening rise	4326 Jul 29 02:14	0° m)		evening max el	4327 Jul 23 02:06	26° <b>Ω</b> 13'00	24°38'23
desc. node	4326 Aug 07 05:43	12° <b>m</b> )05'17		desc. node	4327 Jul 25 02:44	28° <b>Ω</b> 02'29	24 30 23
		15° m) 24'43	26902120	desc. node	4327 Jul 23 02:44 4327 Jul 27 16:37	0° Mp	
evening max el	4326 Aug 10 10:52	•	26°02'29				
retrograde	4326 Aug 24 10:10	22° m 33'01		retrograde	4327 Aug 05 23:47	3° Mp 14'21	
evening set	4326 Aug 30 18:49	20° m 55'26	0.50052 444	evening set	4327 Aug 11 02:52	2° mp 15'11	
min. Earth dist.	4326 Sep 03 23:26	18° Mp 20'05	0.58853 AU		4327 Aug 15 14:57	30°RΩ	
inferior conj	4326 Sep 07 05:26	15° <b>m</b> 55'47		min. Earth dist.	4327 Aug 16 13:20	29° <b>Ω</b> 25'35	0.56923 AU
minimum elong	4326 Sep 07 09:25		5°00'05	inferior conj	4327 Aug 19 08:05	27° <b>Ω</b> 37'55	
morning rise	4326 Sep 15 02:15	11° <b>m</b> 29'08		minimum elong	4327 Aug 19 06:57	27° <b>Ω</b> 39'45	5°12'05
direct	4326 Sep 17 12:25	11° <b>m</b> )09'35		morning rise	4327 Aug 27 13:33	23° <b>Ω</b> 32'46	
morning max el	4326 Sep 25 14:24	15°Mp02'31	18°31'55	direct	4327 Aug 30 04:36	23° <b>Ω</b> 13'40	
asc. node	4326 Sep 27 09:00	16° Mp 54'42		morning max el	4327 Sep 08 13:04	27° <b>Ω</b> 36′24	19°24'25
	4326 Oct 05 23:54	0∘ <b>⊽</b>			4327 Sep 10 19:50	0° <b>™</b>	
morning set	4326 Oct 11 17:26	10° <b>≏</b> 47'12		asc. node	4327 Sep 14 06:04	4° <b>™</b> 29'14	
				morning set	4327 Sep 25 18:29	25° Mp 11'11	
superior conj	4326 Oct 20 14:29	27° <b>≏</b> 45'29	1°25'47		4327 Sep 28 04:02	0∘ <b>⊽</b>	
minimum elong		200 2 01110	1025120				
	4326 Oct 20 17:53	28° <b>≏</b> 01'18	1°25'28				
8	4326 Oct 20 17:53 4326 Oct 21 19:31	28° <b>±2</b> 01′18 0° <b>M</b>	1°25′28	superior conj	4327 Oct 03 19:55	11° <b>≏</b> 16′20	1°39'14
max. Earth dist.			1.40083 AU	superior conj minimum elong	4327 Oct 03 19:55 4327 Oct 03 21:45	11° <b>£</b> 16'20 11° <b>£</b> 25'20	1°39'14 1°39'08
max. Earth dist.	4326 Oct 21 19:31	0°M		minimum elong			1°39'08
	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07	0°M 11°M02'49 18°M15'30		minimum elong max. Earth dist.	4327 Oct 03 21:45 4327 Oct 10 03:52	11° <b>≏</b> 25′20	
max. Earth dist.	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04	0°M 11°M02'49 18°M15'30 21°M33'49		minimum elong	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05	11° <b>£</b> 25′20 23° <b>£</b> 17′32 0° <b>™</b> 03′08	1°39'08
max. Earth dist.	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30	0°M 11°M02'49 18°M15'30 21°M33'49 0°⊀		minimum elong max. Earth dist. evening rise	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23	11° <b>Ω</b> 25'20 23° <b>Ω</b> 17'32 0° <b>M</b> 03'08 0° <b>M</b> .	1°39'08
max. Earth dist. evening rise desc. node	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56	0°M 11°M02'49 18°M15'30 21°M33'49 0°ズ 0°ざ	1.40083 AU	minimum elong max. Earth dist.	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04	11°\$\overline{\Omega}25'20 23°\$\overline{\Omega}17'32 0°\$\overline{\Omega}03'08 0°\$\overline{\Omega} 12°\$\overline{\Omega}10'33	1°39'08
max. Earth dist. evening rise desc. node	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09	0°M 11°M02'49 18°M15'30 21°M33'49 0°ダ 0°उ 7°उ07'14		minimum elong max. Earth dist. evening rise desc. node	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37	11° <b>£</b> 25'20 23° <b>£</b> 17'32 0° <b>M</b> 03'08 0° <b>M</b> 12° <b>M</b> 10'33	1°39'08 1.37986 AU
max. Earth dist. evening rise desc. node evening max el retrograde	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32	0°M 11°M02'49 18°M15'30 21°M33'49 0°ズ 0°उ 7°उ07'14	1.40083 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47	11° \$\Delta 25'20 23° \$\Delta 17'32 0° \$\mathbb{M} 03'08 0° \$\mathbb{M}\$ 12° \$\mathbb{M} 10'33 0° \$\stacksquare{\stacksquare{N}} 49'29	1°39'08
max. Earth dist. evening rise desc. node  evening max el retrograde evening set	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07	0°M 11°M02'49 18°M15'30 21°M33'49 0°ズ 0°उ 7°उ07'14 13°उ31'10 11°उ22'45	1.40083 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30	11° <b>2</b> 25'20 23° <b>2</b> 17'32 0° <b>M</b> 03'08 0° <b>M</b> 12° <b>M</b> 10'33 0° <b>x</b> 20° <b>x</b> 49'29 27° <b>x</b> 41'43	1°39'08 1.37986 AU
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14	0°M 11°M02'49 18°M15'30 21°M33'49 0°ズ 0°उ 7°उ07'14 13°उ31'10 11°उ22'45 9°उ02'01	1.40083 AU 23°47'49	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41	11° <b>2</b> 25'20 23° <b>2</b> 17'32 0° <b>M</b> 03'08 0° <b>M</b> 12° <b>M</b> 10'33 0° <b>x</b> 20° <b>x</b> 49'29 27° <b>x</b> 41'43 25° <b>x</b> 18'43	1°39'08 1.37986 AU 25°04'54
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node inferior conj	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14 4326 Dec 27 11:24	0°M 11°M02'49 18°M15'30 21°M33'49 0°ズ 0°℧ 7°℧07'14 13°℧31'10 11°℧22'45 9°℧02'01 4°℧57'09	1.40083 AU 23°47'49 1°02'48	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist.	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41 4327 Dec 10 15:46	11° <b>2</b> 25'20 23° <b>2</b> 17'32 0° <b>M</b> 03'08 0° <b>M</b> 12° <b>M</b> 10'33 0° <b>x</b> 20° <b>x</b> 49'29 27° <b>x</b> 41'43 25° <b>x</b> 18'43 20° <b>x</b> 16'15	1°39'08 1.37986 AU
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node inferior conj minimum elong	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14 4326 Dec 27 11:24 4326 Dec 27 10:00	0°M 11°M02'49 18°M15'30 21°M33'49 0°ズ 0°℧ 7°℧07'14 13°℧31'10 11°℧22'45 9°℧02'01 4°℧57'09 5°℧01'58	1.40083 AU 23°47'49 1°02'48 1°02'14	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. asc. node	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41 4327 Dec 10 15:46 4327 Dec 11 05:17	11° \(\Omega\) 23° \(\Omega\) 17'32 0° \(\Omega\) 03'08 0° \(\Omega\) 12° \(\Omega\) 10'33 0° \(\sigma\) 20° \(\sigma\) 49'29 27° \(\sigma\) 41'43 25° \(\sigma\) 16'15 19° \(\sigma\) 32'06	1°39'08 1.37986 AU 25°04'54 0.67430 AU
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node inferior conj	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14 4326 Dec 27 11:24 4326 Dec 27 10:00 4326 Dec 26 20:59	0°M 11°M02'49 18°M15'30 21°M33'49 0°ズ 0°℧ 7°℧07'14 13°℧31'10 11°℧22'45 9°℧02'01 4°℧57'09 5°℧01'58 5°℧46'15	1.40083 AU 23°47'49 1°02'48	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. asc. node inferior conj	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41 4327 Dec 10 15:46 4327 Dec 11 05:17 4327 Dec 11 16:57	11° \(\Omega\) 23° \(\Omega\) 17'32 0° \(\Omega\) 103'08 0° \(\Omega\) 12° \(\Omega\) 10'33 0° \(\sigma\) 20° \(\sigma\) 49'29 27° \(\sigma\) 41'43 25° \(\sigma\) 16'15 19° \(\sigma\) 32'06 18° \(\sigma\) 53'48	1°39'08 1.37986 AU 25°04'54 0.67430 AU 0°09'57
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14 4326 Dec 27 11:24 4326 Dec 27 10:00 4326 Dec 26 20:59 4326 Dec 31 12:04	0°M 11°M02'49 18°M15'30 21°M33'49 0°ズ 0°उ 7°उ07'14 13°उ31'10 11°उ22'45 9°उ02'01 4°उ57'09 5°उ01'58 5°उ46'15	1.40083 AU 23°47'49 1°02'48 1°02'14	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41 4327 Dec 10 15:46 4327 Dec 11 05:17 4327 Dec 11 16:57 4327 Dec 11 16:57	11° \$\Delta 25'20 23° \$\Delta 17'32 0° \$\mathbb{M}.03'08 0° \$\mathbb{M}. 12° \$\mathbb{M}.10'33 0° \$\delta \delta \delta 20° \$\delta 49'29 27° \$\delta 41'43 25° \$\delta 18'43 20° \$\delta 16'15 19° \$\delta 32'06 18° \$\delta 53'48 18° \$\delta 54'38	1°39'08 1.37986 AU 25°04'54 0.67430 AU 0°09'57 0°09'52
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.  morning rise	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14 4326 Dec 27 11:24 4326 Dec 27 10:00 4326 Dec 26 20:59 4326 Dec 31 12:04 4327 Jan 01 18:53	0°M 11°M02'49 18°M15'30 21°M33'49 0°ズ 0°G 7°G07'14 13°G31'10 11°G22'45 9°G02'01 4°G57'09 5°G01'58 5°G46'15 30°Rズ 28°ズ52'03	1.40083 AU 23°47'49 1°02'48 1°02'14	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41 4327 Dec 10 15:46 4327 Dec 11 05:17 4327 Dec 11 16:57 4327 Dec 11 16:42 4327 Dec 11 16:42	11° \$\Delta 25'20 23° \$\Delta 17'32 0° \$\mathbb{M}.03'08 0° \$\mathbb{M}. 12° \$\mathbb{M}.10'33 0° \$\delta \) 20° \$\delta 49'29 27° \$\delta 41'43 25° \$\delta 18'43 20° \$\delta 16'15 19° \$\delta 32'06 18° \$\delta 53'48 18° \$\delta 54'38 18° \$\delta 54'38	1°39'08 1.37986 AU 25°04'54 0.67430 AU 0°09'57
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14 4326 Dec 27 11:24 4326 Dec 27 10:00 4326 Dec 26 20:59 4326 Dec 31 12:04 4327 Jan 01 18:53 4327 Jan 05 20:05	0°M 11°M02'49 18°M15'30 21°M33'49 0°ズ 0°उ 7°उ07'14 13°ठ31'10 11°ठ22'45 9°उ02'01 4°उ57'09 5°उ01'58 5°उ46'15 30°Rズ 28°ズ52'03 27°ズ19'28	1.40083 AU 23°47'49 1°02'48 1°02'14	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41 4327 Dec 10 15:46 4327 Dec 11 05:17 4327 Dec 11 16:57 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 16:42	11° \$\to 25'20\$ 23° \$\to 17'32\$ 0° \$\mathbb{M}.03'08\$ 0° \$\mathbb{M}. 12° \$\mathbb{M}.10'33\$ 0° \$\nall 20" \$\nall 49'29\$ 27° \$\nall 49'29\$ 27° \$\nall 49'143\$ 25° \$\nall 18'43\$ 20" \$\nall 16'15\$ 19" \$\nall 35'48\$ 18" \$\nall 55'438\$ 18" \$\nall 55'438\$ 19" \$\nall 01'51\$	1°39'08 1.37986 AU 25°04'54 0.67430 AU 0°09'57 0°09'52
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.  morning rise direct	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14 4326 Dec 27 11:24 4326 Dec 27 10:00 4326 Dec 31 12:04 4327 Jan 01 18:53 4327 Jan 05 20:05 4327 Jan 11 18:49	0°M 11°M02'49 18°M15'30 21°M33'49 0°ズ 0°उ 7°उ07'14 13°उ31'10 11°उ22'45 9°उ02'01 4°उ57'09 5°उ01'58 5°उ46'15 30°8ズ 28°ズ52'03 27°ズ19'28 0°उ	1.40083 AU 23°47'49 1°02'48 1°02'14 0.67908 AU	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41 4327 Dec 10 15:46 4327 Dec 11 16:57 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 14:30 4327 Dec 11 18:54	11° \$\Delta 25'20 23° \$\Delta 17'32 0° \$\mathbb{M}.03'08 0° \$\mathbb{M}. 12° \$\mathbb{M}.10'33 0° \$\mathscr{A}' 20° \$\mathscr{A}'49'29 27° \$\mathscr{A}'41'43 25° \$\mathscr{A}'18'43 20° \$\mathscr{A}'16'15 19° \$\mathscr{A}'32'06 18° \$\mathscr{A}'53'48 18° \$\mathscr{A}'54'38 19° \$\mathscr{A}'01'51 18° \$\mathscr{A}'47'26	1°39'08 1.37986 AU 25°04'54 0.67430 AU 0°09'57 0°09'52
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.  morning rise direct morning max el	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14 4326 Dec 27 11:24 4326 Dec 27 10:00 4326 Dec 26 20:59 4326 Dec 31 12:04 4327 Jan 01 18:53 4327 Jan 05 20:05 4327 Jan 11 18:49 4327 Jan 13 23:47	0°M。 11°M02'49 18°M15'30 21°M33'49 0°ズ 0°G 7°G07'14 13°G31'10 11°G22'45 9°G02'01 4°G57'09 5°G01'58 5°G46'15 30°Rズ 28°ズ52'03 27°ズ19'28 0°G 2°G00'58	1.40083 AU 23°47'49 1°02'48 1°02'14	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41 4327 Dec 10 15:46 4327 Dec 11 05:17 4327 Dec 11 16:57 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 16:42	11° \$\Delta 25'20 23° \$\Delta 17'32 0° \$\mathbb{M}.03'08 0° \$\mathbb{M}. 12° \$\mathbb{M}.10'33 0° \$\mathscr{A}' 20° \$\mathscr{A}'49'29 27° \$\mathscr{A}'41'43 25° \$\mathscr{A}'16'15 19° \$\mathscr{A}'32'06 18° \$\mathscr{A}'53'48 18° \$\mathscr{A}'54'38 19° \$\mathscr{A}'01'51 18° \$\mathscr{A}'47'26 12° \$\mathscr{A}'55'28	1°39'08 1.37986 AU 25°04'54 0.67430 AU 0°09'57 0°09'52
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.  morning rise direct	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14 4326 Dec 27 11:24 4326 Dec 27 10:00 4326 Dec 31 12:04 4327 Jan 01 18:53 4327 Jan 05 20:05 4327 Jan 11 18:49	0°M。 11°M02'49 18°M15'30 21°M33'49 0°水 0°G 7°G07'14 13°G31'10 11°G22'45 9°G02'01 4°G57'09 5°G01'58 5°G46'15 30°Rペ 28°水52'03 27°水19'28 0°G 2°G00'58 23°G16'32	1.40083 AU 23°47'49 1°02'48 1°02'14 0.67908 AU	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41 4327 Dec 10 15:46 4327 Dec 11 16:57 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 14:30 4327 Dec 11 18:54	11° \$\Delta 25'20 23° \$\Delta 17'32 0° \$\mathbb{M}.03'08 0° \$\mathbb{M}. 12° \$\mathbb{M}.10'33 0° \$\mathscr{A}' 20° \$\mathscr{A}'49'29 27° \$\mathscr{A}'41'43 25° \$\mathscr{A}'18'43 20° \$\mathscr{A}'16'15 19° \$\mathscr{A}'32'06 18° \$\mathscr{A}'53'48 18° \$\mathscr{A}'54'38 19° \$\mathscr{A}'01'51 18° \$\mathscr{A}'47'26	1°39'08 1.37986 AU 25°04'54 0.67430 AU 0°09'57 0°09'52 0°09'52
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.  morning rise direct morning max el desc. node	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14 4326 Dec 27 11:24 4326 Dec 27 10:00 4326 Dec 26 20:59 4326 Dec 31 12:04 4327 Jan 01 18:53 4327 Jan 05 20:05 4327 Jan 11 18:49 4327 Jan 13 23:47 4327 Jan 30 04:19 4327 Feb 03 16:53	0°M 11°M02'49 18°M15'30 21°M33'49 0°ズ 0°℧ 7°℧07'14 13°℧31'10 11°℧22'45 9°℧02'01 4°℧57'09 5°℧01'58 5°℧46'15 30°Rズ 28°ズ52'03 27°ズ19'28 0°℧ 2°℧00'58 23°℧16'32 0°※	1.40083 AU 23°47'49 1°02'48 1°02'14 0.67908 AU	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41 4327 Dec 10 15:46 4327 Dec 11 05:17 4327 Dec 11 16:57 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 18:54 4327 Dec 11 18:54 4327 Dec 11 18:54 4327 Dec 17 05:56 4327 Dec 20 18:41 4327 Dec 28 01:56	11° \$\Delta 25'20 23° \$\Delta 17'32 0° \$\mathbb{M}.03'08 0° \$\mathbb{M}. 12° \$\mathbb{M}.10'33 0° \$\mathscr{A}' 20° \$\mathscr{A}'49'29 27° \$\mathscr{A}'41'43 25° \$\mathscr{A}'16'15 19° \$\mathscr{A}'32'06 18° \$\mathscr{A}'54'38 18° \$\mathscr{A}'54'38 19° \$\mathscr{A}'01'51 18° \$\mathscr{A}'47'26 12° \$\mathscr{A}'55'28 11° \$\mathscr{A}'43'34 15° \$\mathscr{A}'50'11	1°39'08 1.37986 AU 25°04'54 0.67430 AU 0°09'57 0°09'52
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.  morning rise direct morning max el	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14 4326 Dec 27 11:24 4326 Dec 27 10:00 4326 Dec 26 20:59 4326 Dec 31 12:04 4327 Jan 01 18:53 4327 Jan 11 18:49 4327 Jan 13 23:47 4327 Jan 30 04:19 4327 Feb 03 16:53 4327 Feb 12 09:57	0°M。 11°M02'49 18°M15'30 21°M33'49 0°ズ 0°℧ 7°℧07'14 13°℧31'10 11°℧22'45 9°℧02'01 4°℧57'09 5°℧01'58 5°℧46'15 30°Rズ 28°ズ52'03 27°ズ19'28 0°℧ 2°℧00'58 23°℧16'32 0°※ 13°※19'43	1.40083 AU 23°47'49 1°02'48 1°02'14 0.67908 AU	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41 4327 Dec 10 15:46 4327 Dec 11 16:57 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 18:54 4327 Dec 11 18:54 4327 Dec 11 18:54 4327 Dec 17 05:56 4327 Dec 20 18:41 4327 Dec 28 01:56 4328 Jan 08 00:59	11° \$\Delta 25'20 23° \$\Delta 17'32 0° \$\mathbb{M}.03'08 0° \$\mathbb{M}. 12° \$\mathbb{M}.10'33 0° \$\mathscr{A}' 20° \$\mathscr{A}'49'29 27° \$\mathscr{A}'41'43 25° \$\mathscr{A}'16'15 19° \$\mathscr{A}'32'06 18° \$\mathscr{A}'54'38 18° \$\mathscr{A}'54'38 19° \$\mathscr{A}'01'51 18° \$\mathscr{A}'47'26 12° \$\mathscr{A}'55'28 11° \$\mathscr{A}'43'34	1°39'08 1.37986 AU 25°04'54 0.67430 AU 0°09'57 0°09'52 0°09'52
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.  morning rise direct morning max el desc. node	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14 4326 Dec 27 11:24 4326 Dec 27 10:00 4326 Dec 26 20:59 4326 Dec 31 12:04 4327 Jan 01 18:53 4327 Jan 05 20:05 4327 Jan 11 18:49 4327 Jan 13 23:47 4327 Jan 30 04:19 4327 Feb 03 16:53	0°M 11°M02'49 18°M15'30 21°M33'49 0°ズ 0°℧ 7°℧07'14 13°℧31'10 11°℧22'45 9°℧02'01 4°℧57'09 5°℧01'58 5°℧46'15 30°Rズ 28°ズ52'03 27°ズ19'28 0°℧ 2°℧00'58 23°℧16'32 0°※	1.40083 AU 23°47'49 1°02'48 1°02'14 0.67908 AU	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41 4327 Dec 10 15:46 4327 Dec 11 05:17 4327 Dec 11 16:57 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 18:54 4327 Dec 11 18:54 4327 Dec 11 18:54 4327 Dec 17 05:56 4327 Dec 20 18:41 4327 Dec 28 01:56	11° \$\Delta 25'20 23° \$\Delta 17'32 0° \$\mathbb{M}.03'08 0° \$\mathbb{M}. 12° \$\mathbb{M}.10'33 0° \$\mathscr{A}' 20° \$\mathscr{A}'49'29 27° \$\mathscr{A}'41'43 25° \$\mathscr{A}'16'15 19° \$\mathscr{A}'32'06 18° \$\mathscr{A}'54'38 18° \$\mathscr{A}'54'38 19° \$\mathscr{A}'01'51 18° \$\mathscr{A}'47'26 12° \$\mathscr{A}'55'28 11° \$\mathscr{A}'43'34 15° \$\mathscr{A}'50'11	1°39'08 1.37986 AU 25°04'54 0.67430 AU 0°09'57 0°09'52 0°09'52
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.  morning rise direct  morning max el desc. node morning set	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14 4326 Dec 27 11:24 4326 Dec 27 10:00 4326 Dec 26 20:59 4326 Dec 31 12:04 4327 Jan 01 18:53 4327 Jan 11 18:49 4327 Jan 13 23:47 4327 Jan 30 04:19 4327 Feb 03 16:53 4327 Feb 12 09:57	0°M。 11°M02'49 18°M15'30 21°M33'49 0°ズ 0°℧ 7°℧07'14 13°℧31'10 11°℧22'45 9°℧02'01 4°℧57'09 5°℧01'58 5°℧46'15 30°Rズ 28°ズ52'03 27°ズ19'28 0°℧ 2°℧00'58 23°℧16'32 0°※ 13°※19'43	1.40083 AU 23°47'49 1°02'48 1°02'14 0.67908 AU 20°44'17	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct morning max el	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41 4327 Dec 10 15:46 4327 Dec 11 16:57 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 18:54 4327 Dec 11 18:54 4327 Dec 11 18:54 4327 Dec 17 05:56 4327 Dec 20 18:41 4327 Dec 28 01:56 4328 Jan 08 00:59	11° \$\Omega 25'20 23° \$\Omega 17'32 0° \$\mathbb{M}.03'08 0° \$\mathbb{M}. 12° \$\mathbb{M}.10'33 0° \$\struct \) 20° \$\times 49'29 27° \$\times 41'43 25° \$\times 18'43 20° \$\times 16'15 19° \$\times 32'06 18° \$\times 53'48 18° \$\times 54'38 18° \$\times 54'38 19° \$\times 01'51 18° \$\times 47'26 12° \$\times 55'28 11° \$\times 43'34 15° \$\times 50'11 0° \$\times 6	1°39'08 1.37986 AU 25°04'54 0.67430 AU 0°09'57 0°09'52 0°09'52
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.  morning rise direct  morning max el desc. node morning set	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14 4326 Dec 27 11:24 4326 Dec 27 10:00 4326 Dec 26 20:59 4326 Dec 31 12:04 4327 Jan 01 18:53 4327 Jan 05 20:05 4327 Jan 11 18:49 4327 Jan 30 04:19 4327 Feb 03 16:53 4327 Feb 12 09:57 4327 Feb 21 01:22	0°M 11°M02'49 18°M15'30 21°M33'49 0°ズ 0°℧ 7°℧07'14 13°℧31'10 11°℧22'45 9°℧02'01 4°℧57'09 5°℧01'58 5°℧46'15 30°Rズ 28°ズ52'03 27°ズ19'28 0°℧ 2°℧00'58 23°℧16'32 0°≈ 13°≈19'43 27°≈02'46	1.40083 AU 23°47'49 1°02'48 1°02'14 0.67908 AU 20°44'17	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct morning max el  greatest brilliancy	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41 4327 Dec 10 15:46 4327 Dec 11 05:17 4327 Dec 11 16:57 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 18:54 4327 Dec 11 18:54 4327 Dec 11 18:54 4327 Dec 11 18:54 4327 Dec 20 18:41 4327 Dec 28 01:56 4328 Jan 08 00:59 4328 Jan 10 04:33	11° \$\times 25'20 23° \$\times 17'32 0° \$\times 10'33 0° \$\times 120" \$\times 10'33 0° \$\times 120" \$\times 18'43 20° \$\times 18'44 20° \$\times 18'43 20° \$\	1°39'08 1.37986 AU 25°04'54 0.67430 AU 0°09'57 0°09'52 0°09'52
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.  morning rise direct  morning max el desc. node morning set	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14 4326 Dec 27 11:24 4326 Dec 27 10:00 4326 Dec 26 20:59 4326 Dec 31 12:04 4327 Jan 01 18:53 4327 Jan 05 20:05 4327 Jan 11 18:49 4327 Jan 30 04:19 4327 Feb 03 16:53 4327 Feb 12 09:57 4327 Feb 21 01:22	0°M 11°M02'49 18°M15'30 21°M33'49 0°ズ 0°℧ 7°℧07'14 13°℧31'10 11°℧22'45 9°℧02'01 4°℧57'09 5°℧01'58 5°℧46'15 30°Rズ 28°ズ52'03 27°ズ19'28 0°℧ 2°℧00'58 23°℧16'32 0°≈ 13°≈19'43 27°≈02'46	1.40083 AU 23°47'49 1°02'48 1°02'14 0.67908 AU 20°44'17	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct morning max el  greatest brilliancy desc. node	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41 4327 Dec 10 15:46 4327 Dec 11 16:57 4327 Dec 11 16:57 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 18:54 4327 Dec 11 18:54 4327 Dec 11 18:54 4327 Dec 11 18:54 4327 Dec 17 05:56 4327 Dec 20 18:41 4327 Dec 28 01:56 4328 Jan 08 00:59 4328 Jan 10 04:33 4328 Jan 17 01:22	11° \$\times 25'20 23° \$\times 17'32 0° \$\times 0.3'08 0° \$\times 10'33 0° \$\times 20° \$\times 49'29 27° \$\times 41'43 25° \$\times 18'43 20° \$\times 16'15 19° \$\times 32'06 18° \$\times 53'48 18° \$\times 54'38 19° \$\times 01'51 18° \$\times 47'26 12° \$\times 55'28 11° \$\times 43'34 15° \$\times 50'11 0° \$\times 309'50 13° \$\times 32'14	1°39'08 1.37986 AU 25°04'54 0.67430 AU 0°09'57 0°09'52 0°09'52
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.  morning rise direct morning max el desc. node morning set max. Earth dist.	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14 4326 Dec 27 11:24 4326 Dec 27 10:00 4326 Dec 26 20:59 4326 Dec 31 12:04 4327 Jan 01 18:53 4327 Jan 01 18:53 4327 Jan 11 18:49 4327 Jan 13 23:47 4327 Jan 30 04:19 4327 Feb 03 16:53 4327 Feb 12 09:57 4327 Feb 21 01:22 4327 Feb 22 20:55	0°M 11°M02'49 18°M15'30 21°M33'49 0°ズ 0°G 7°G07'14 13°G31'10 11°G22'45 9°G02'01 4°G57'09 5°G01'58 5°G46'15 30°Rズ 28°ズ52'03 27°ズ19'28 0°G 2°G00'58 23°G16'32 0°≈ 13°≈19'43 27°≈02'46 0°光	1.40083 AU 23°47'49 1°02'48 1°02'14 0.67908 AU 20°44'17 1.43048 AU -2°08'01	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct morning max el  greatest brilliancy desc. node	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41 4327 Dec 10 15:46 4327 Dec 11 05:17 4327 Dec 11 16:57 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 18:54 4327 Dec 11 18:54 4327 Dec 11 18:54 4327 Dec 11 18:54 4327 Dec 12 18:41 4327 Dec 20 18:41 4327 Dec 28 01:56 4328 Jan 08 00:59 4328 Jan 10 04:33 4328 Jan 17 01:22 4328 Jan 22 06:29	11° \$\omega 25'20 23° \$\omega 17'32 0° \$\mathbb{M}.03'08 0° \$\mathbb{M}. 12° \$\mathbb{M}.10'33 0° \$\stack** 20° \$\times 49'29 27° \$\times 41'43 25° \$\times 18'43 20° \$\times 16'15 19° \$\times 32'06 18° \$\times 53'48 18° \$\times 54'38 19° \$\times 01'51 18° \$\times 54'38 19° \$\times 01'51 18° \$\times 47'26 12° \$\times 55'28 11° \$\times 43'34 15° \$\times 50'11 0° \$\times 30'50 13° \$\times 32'14 21° \$\times 32'54	1°39'08 1.37986 AU 25°04'54 0.67430 AU 0°09'57 0°09'52 0°09'52
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.  morning rise direct morning max el desc. node morning set max. Earth dist.	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14 4326 Dec 27 11:24 4326 Dec 27 10:00 4326 Dec 26 20:59 4326 Dec 31 12:04 4327 Jan 01 18:53 4327 Jan 11 18:49 4327 Jan 13 23:47 4327 Jan 30 04:19 4327 Feb 03 16:53 4327 Feb 12 09:57 4327 Feb 21 01:22 4327 Feb 27 19:10	0°M 11°M02'49 18°M15'30 21°M33'49 0°ズ 0°G 7°G07'14 13°G31'10 11°G22'45 9°G02'01 4°G57'09 5°G01'58 5°G46'15 30°Rズ 28°ズ52'03 27°ズ19'28 0°G 2°G00'58 23°G16'32 0°≈ 13°≈19'43 27°≈02'46 0°米	1.40083 AU 23°47'49 1°02'48 1°02'14 0.67908 AU 20°44'17 1.43048 AU -2°08'01	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct morning max el  greatest brilliancy desc. node morning set	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41 4327 Dec 10 15:46 4327 Dec 11 05:17 4327 Dec 11 16:57 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 18:54 4327 Dec 20 18:41 4327 Dec 20 18:41 4327 Dec 28 01:56 4328 Jan 08 00:59 4328 Jan 10 04:33 4328 Jan 17 01:22 4328 Jan 22 06:29 4328 Jan 27 17:13	11° \$\times 25'20 23° \$\times 17'32 0° \$\times 0.03'08 0° \$\times 12° \$\times 1.0'33 0° \$\times 120" \$\times 49'29 27° \$\times 41'43 25° \$\times 18'43 20° \$\times 16'15 19° \$\times 32'06 18° \$\times 55'48 18° \$\times 55'48 18° \$\times 55'38 19° \$\times 01'51 18° \$\times 47'26 12° \$\times 55'28 11° \$\times 43'34 15° \$\times 50'11 0° \$\times 32'14 21° \$\times 32'54 0° \$\imes \$	1°39'08 1.37986 AU 25°04'54 0.67430 AU 0°09'57 0°09'52 0°09'52 19°37'16 -0.7m
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.  morning rise direct morning max el desc. node morning set max. Earth dist.	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14 4326 Dec 27 11:24 4326 Dec 27 10:00 4326 Dec 26 20:59 4326 Dec 31 12:04 4327 Jan 01 18:53 4327 Jan 05 20:05 4327 Jan 11 18:49 4327 Jan 13 23:47 4327 Jan 30 04:19 4327 Feb 03 16:53 4327 Feb 21 01:22 4327 Feb 27 19:10 4327 Feb 27 19:10 4327 Feb 27 19:10	0°M 11°M02'49 18°M15'30 21°M33'49 0°水 0°G 7°G07'14 13°G31'10 11°G22'45 9°G02'01 4°G57'09 5°G01'58 5°G46'15 30°R√ 28°√52'03 27°√719'28 0°G 2°G00'58 23°G16'32 0°≈ 13°≈19'43 27°≈02'46 0°H 8°H10'06 8°H08'59	1.40083 AU 23°47'49 1°02'48 1°02'14 0.67908 AU 20°44'17 1.43048 AU -2°08'01	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct morning max el  greatest brilliancy desc. node morning set	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41 4327 Dec 10 15:46 4327 Dec 11 05:17 4327 Dec 11 16:57 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 18:54 4327 Dec 20 18:41 4327 Dec 20 18:41 4327 Dec 28 01:56 4328 Jan 08 00:59 4328 Jan 10 04:33 4328 Jan 17 01:22 4328 Jan 22 06:29 4328 Jan 27 17:13	11° \$\times 25'20 23° \$\times 17'32 0° \$\times 0.03'08 0° \$\times 12° \$\times 1.0'33 0° \$\times 120" \$\times 49'29 27° \$\times 41'43 25° \$\times 18'43 20° \$\times 16'15 19° \$\times 32'06 18° \$\times 55'48 18° \$\times 55'48 18° \$\times 55'38 19° \$\times 01'51 18° \$\times 47'26 12° \$\times 55'28 11° \$\times 43'34 15° \$\times 50'11 0° \$\times 32'14 21° \$\times 32'54 0° \$\imes \$	1°39'08 1.37986 AU 25°04'54 0.67430 AU 0°09'57 0°09'52 0°09'52 19°37'16 -0.7m
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.  morning rise direct morning max el desc. node morning set max. Earth dist.	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14 4326 Dec 27 11:24 4326 Dec 27 10:00 4326 Dec 26 20:59 4326 Dec 31 12:04 4327 Jan 01 18:53 4327 Jan 01 18:49 4327 Jan 13 23:47 4327 Jan 30 04:19 4327 Feb 03 16:53 4327 Feb 12 09:57 4327 Feb 21 01:22 4327 Feb 27 19:10 4327 Feb 27 19:10 4327 Feb 27 18:54 4327 Mar 11 19:08	0°M 11°M02'49 18°M15'30 21°M33'49 0°水 0°G 7°G07'14 13°G31'10 11°G22'45 9°G02'01 4°G57'09 5°G01'58 5°G46'15 30°R√ 28°√ 52'03 27°√ 19'28 0°G 2°G00'58 23°G16'32 0°≈ 13°≈19'43 27°≈02'46 0°H 8°H08'59 28°H58'48	1.40083 AU 23°47'49 1°02'48 1°02'14 0.67908 AU 20°44'17 1.43048 AU -2°08'01	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct morning max el greatest brilliancy desc. node morning set  max. Earth dist. superior conj	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41 4327 Dec 10 15:46 4327 Dec 11 16:57 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 18:54 4327 Dec 12 18:54 4327 Dec 13 18:54 4327 Dec 14 18:55 4328 Jec 17 05:56 4328 Jec 20 18:41 4327 Dec 28 01:56 4328 Jec 20 18:41 4327 Dec 30:59 4328 Jec 30:59	11° \$\omega 25'20 23° \$\omega 17'32 0° \$\mathbb{m}.03'08 0° \$\mathbb{m}. 12° \$\mathbb{m}.10'33 0° \$\napprox' \ 20° \$\napprox' \ 49'29 27° \$\napprox' \ 41'43 25° \$\napprox' \ 18' \$\napprox' \ 32'06 18° \$\napprox' \ 32'06 18° \$\napprox' \ 32'06 18° \$\napprox' \ 32'14 15° \$\napprox' \ 30'	1°39'08 1.37986 AU 25°04'54 0.67430 AU 0°09'57 0°09'52 0°09'52 19°37'16 -0.7m
max. Earth dist. evening rise desc. node  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.  morning rise direct  morning max el desc. node morning set max. Earth dist.	4326 Oct 21 19:31 4326 Oct 27 23:34 4326 Nov 01 05:07 4326 Nov 03 05:04 4326 Nov 08 11:30 4326 Nov 29 16:56 4326 Dec 06 01:09 4326 Dec 16 21:32 4326 Dec 22 01:07 4326 Dec 24 08:14 4326 Dec 27 11:24 4326 Dec 27 10:00 4326 Dec 26 20:59 4326 Dec 31 12:04 4327 Jan 01 18:53 4327 Jan 05 20:05 4327 Jan 11 18:49 4327 Jan 13 23:47 4327 Jan 30 04:19 4327 Feb 03 16:53 4327 Feb 12 09:57 4327 Feb 21 01:22 4327 Feb 27 19:10 4327 Feb 27 18:54 4327 Mar 11 19:08 4327 Mar 12 08:56	0°M. 11°M02'49 18°M15'30 21°M33'49 0°水 0°G 7°G07'14 13°G31'10 11°G22'45 9°G02'01 4°G57'09 5°G01'58 5°G46'15 30°R√ 28°√52'03 27°√19'28 0°G 2°G00'58 23°G16'32 0°≈ 13°≈19'43 27°≈02'46 0°∀ 8°₩10'06 8°₩08'59 28°₩58'48 0°❤ 17°❤02'58	1.40083 AU 23°47'49 1°02'48 1°02'14 0.67908 AU 20°44'17 1.43048 AU -2°08'01	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. asc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct morning max el  greatest brilliancy desc. node morning set  max. Earth dist.	4327 Oct 03 21:45 4327 Oct 10 03:52 4327 Oct 13 22:05 4327 Oct 13 21:23 4327 Oct 21 02:04 4327 Nov 01 18:37 4327 Nov 18 13:47 4327 Nov 30 10:30 4327 Dec 06 03:41 4327 Dec 10 15:46 4327 Dec 11 16:57 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 16:42 4327 Dec 11 18:54 4327 Dec 11 18:54 4327 Dec 11 18:54 4327 Dec 11 18:54 4327 Dec 17 05:56 4327 Dec 20 18:41 4327 Dec 28 01:56 4328 Jan 08 00:59 4328 Jan 10 04:33 4328 Jan 17 01:22 4328 Jan 22 06:29 4328 Feb 07 21:59	11° 225'20 23° 217'32 0° 1103'08 0° 112° 110'33 0° 12° 110'33 0° 12° 12° 12° 12° 12° 12° 12° 12° 12° 12	1°39'08 1.37986 AU 25°04'54 0.67430 AU 0°09'57 0°09'52 0°09'52 19°37'16 -0.7m

evening rise	4328 Feb 21 16:43	10° <b>¥</b> 26'11 0° <b>Υ</b>		superior conj	4329 Jan 17 04:40	26°පි24'57 25°පි48'29	
asc. node	4328 Mar 04 12:54 4328 Mar 08 04:34	5°Υ14'28		minimum elong	4329 Jan 16 19:23 4329 Jan 19 11:22	25° <b>⊙</b> 48′29 0° <b>≈</b>	1-2/10
evening max el	4328 Mar 11 08:11	8°Υ55'29	18°17'13	evening rise	4329 Feb 01 15:20	0 ∞ 20°≈56'19	
retrograde	4328 Mar 17 18:29	12° <b>Υ</b> 22'11	10 17 15	evening rise	4329 Feb 07 06:25	0° <b>∀</b>	
evening set	4328 Mar 20 17:49	11° <b>Y</b> 34'56		greatest brilliancy	4329 Feb 08 13:23	2° <b>)</b> 04'17	-0.9m
inferior conj	4328 Mar 26 17:26	6°Υ12'45	3°34'38	evening max el	4329 Feb 22 19:24	22° <del>)(</del> 23'17	18°45'49
minimum elong	4328 Mar 26 17:55	6°Υ11'23	3°34'37	asc. node	4329 Feb 23 01:36	22°\(\)38'50	10 43 47
min. Earth dist.	4328 Mar 29 04:53	3° <b>Υ</b> 26'32	0.63666 AU	retrograde	4329 Mar 01 11:41	26°\(\frac{1}{2}\)06'27	
morning rise	4328 Apr 01 17:06	0° <b>Υ</b> 04'46	0.03000110	evening set	4329 Mar 04 17:23	25° <b>)</b> (06'30	
	4328 Apr 01 19:31	30°R <b>)</b> €		inferior conj	4329 Mar 10 09:25	19° <b>)</b> 26'44	3°32'23
direct	4328 Apr 08 13:57	27° <b>)</b> (20'51		minimum elong	4329 Mar 10 08:26	19° <b>)</b> 29'45	
desc. node	4328 Apr 14 00:33	28° <b>)(</b> 48'11		min. Earth dist.	4329 Mar 12 05:09	17° <b>)</b> 12'34	0.65353 AU
	4328 Apr 16 01:48	$_{0}$ $^{\circ}$ $\Upsilon$		morning rise	4329 Mar 15 23:02	13° <b>)</b> 14'17	
morning max el	4328 Apr 22 09:21	5° <b>Ƴ</b> 18'56	27°40'22	direct	4329 Mar 22 13:57	10° <b>)</b> €23'47	
Ü	4328 May 11 01:48	0°8		desc. node	4329 Mar 31 21:36	14° <b>)</b> 36'31	
morning set	4328 May 27 03:06	28° <b>8</b> 37'54		morning max el	4329 Apr 04 19:15	18° <b>)</b> 10′28	26°56'27
Č	4328 May 27 19:32	$\Pi^{\circ}0$		Č	4329 Apr 14 18:01	$0^{\circ}\mathbf{\Upsilon}$	
max. Earth dist.	4328 Jun 01 05:16	9° <b>Ⅱ</b> 03'59	1.32958 AU		4329 May 04 00:24	0° <b>႘</b>	
				morning set	4329 May 10 13:36	12° <b>8</b> 04'15	
superior conj	4328 Jun 03 23:20	14° <b>Ⅱ</b> 55'22	-0°01'59	max. Earth dist.	4329 May 14 23:04	20° <b>8</b> 43'08	1.34118 AU
minimum elong	4328 Jun 03 23:26	14° <b>Ⅱ</b> 55'55	0°01'59				
behind sun begin	4328 Jun 03 18:08	14° <b>∏</b> 27′28		superior conj	4329 May 19 00:58	29° <b>8</b> 06'04	-0°30'44
behind sun end	4328 Jun 04 04:44	15° <b>Ⅲ</b> 24'23		minimum elong	4329 May 19 02:36	29° <b>8</b> 14'33	0°30'24
asc. node	4328 Jun 04 03:53	15° <b>Ⅱ</b> 19'47			4329 May 19 11:17	$\Pi^{\circ}0$	
	4328 Jun 10 23:31	$0$ $\circ$ $\mathfrak{S}$		asc. node	4329 May 22 00:53	5° <b>Ⅱ</b> 24'27	
evening rise	4328 Jun 11 00:46	0° <b>5</b> 06'41		evening rise	4329 May 26 11:01	14° <b>∐</b> 44'12	
-	4328 Jun 27 21:12	$0^{\circ}\Omega$		-	4329 Jun 03 05:11	$0$ $\circ$ $\odot$	
evening max el	4328 Jul 03 15:10	6° <b>Ω</b> 37'22	23°01'43	evening max el	4329 Jun 15 09:51	17° <b>©</b> 10'24	21°28'09
desc. node	4328 Jul 10 23:46	11° <b>Ω</b> 55'12		retrograde	4329 Jun 27 14:55	23°511'32	
retrograde	4328 Jul 17 00:29	13° <b>Ω</b> 18′09		desc. node	4329 Jun 27 20:47	23°5511'23	
evening set	4328 Jul 20 15:05	12° <b>Ω</b> 49'43		evening set	4329 Jun 30 01:03	22° <b>©</b> 58'08	
min. Earth dist.	4328 Jul 28 00:09	9° <b>Ω</b> 31'15	0.55483 AU	inferior conj	4329 Jul 09 10:00	18° <b>©</b> 58'14	-3°15'54
inferior conj	4328 Jul 29 15:18	8° <b>Ω</b> 34'33	-4°39'14	minimum elong	4329 Jul 09 01:43	19° <b>©</b> 09'47	3°13'22
minimum elong	4328 Jul 29 08:16	8° <b>Ω</b> 44'46	4°37'59	min. Earth dist.	4329 Jul 09 10:42	18° <b>©</b> 57'14	0.54837 AU
morning rise	4328 Aug 07 03:42	4° <b>Ω</b> 42'52		morning rise	4329 Jul 18 03:18	15° <b>5</b> 04'01	
direct	4328 Aug 10 02:21	4° <b>Ω</b> 22'20		direct	4329 Jul 21 12:33	14° <b>©</b> 39'10	
morning max el	4328 Aug 21 00:02	9° <b>Ω</b> 26′25	20°38'27	morning max el	4329 Aug 02 23:31	20° <b>©</b> 31'58	22°11'06
asc. node	4328 Aug 31 03:07	22° <b>Ω</b> 51′06			4329 Aug 10 21:35	$0^{\circ}\Omega$	
	4328 Sep 04 02:21	0° <b>m</b> y		asc. node	4329 Aug 18 00:09	11° <b>Ω</b> 49'08	
morning set	4328 Sep 09 01:07	9° <b>m</b> 50'57		morning set	4329 Aug 24 11:09	24° <b>Ω</b> 40'40	
					4329 Aug 26 23:37	0° <b>m</b>	
superior conj	4328 Sep 16 13:21	25° m 22'13	1°44'02				
minimum elong	4328 Sep 16 13:34	25° m 23'22	1°44'01	superior conj	4329 Aug 31 15:07	9° <b>™</b> 52'42	1°41'34
	4328 Sep 18 20:19	0∘ <b>ত</b>		minimum elong	4329 Aug 31 14:03	9° <b>™</b> 47'00	1°41'31
max. Earth dist.	4328 Sep 21 11:25	5° <b>≏</b> 11'20	1.36046 AU	max. Earth dist.	4329 Sep 04 02:44	17° Mp 08'00	1.34429 AU
evening rise	4328 Sep 25 11:14	12° <b>≏</b> 46'32		evening rise	4329 Sep 08 16:16	26° <b>m</b> 14'45	
	4328 Oct 05 08:42	0°M			4329 Sep 10 15:19	0∘ <b>⊽</b>	
desc. node	4328 Oct 06 23:05	2°M34'59		desc. node	4329 Sep 23 20:06	22° <b>£</b> 41'09	
	4328 Oct 26 19:03	0° <b>∡</b>			4329 Sep 28 17:43	0°M	
evening max el	4328 Oct 31 02:25	4° <b>₹</b> 32'22	26°11'47	evening max el	4329 Oct 13 15:05	18°M07'46	27°00'54
retrograde	4328 Nov 12 18:23	11° <b>х</b> 41'46		retrograde	4329 Oct 26 20:38	25°M24'38	
evening set	4328 Nov 19 01:09	9° <b>×</b> 07'09	0.66605.477	evening set	4329 Nov 02 15:23	22°M43'48	0.65400.433
min. Earth dist.	4328 Nov 23 06:11	4°×740'03	0.66605 AU	min. Earth dist.	4329 Nov 06 13:51	18°M52'30	
inferior conj	4328 Nov 24 18:34	2° 🖈 47'52		inferior conj	4329 Nov 08 14:07	16°M35'03	
minimum elong	4328 Nov 24 19:50	2° 🖈 43'55	0°47'07	minimum elong	4329 Nov 08 17:11	16°M26'18	1°47'24
asc. node	4328 Nov 27 02:20	0° <b>∡</b> 02'39		asc. node	4329 Nov 13 23:22	11°M27'26	
momisi-	4328 Nov 27 03:18	30°RM		morning rise	4329 Nov 14 19:54	10°M 58'37	
morning rise	4328 Nov 30 15:03	26°M58'57		direct	4329 Nov 17 13:42	10°M17'50	18010124
direct	4328 Dec 03 17:15	26°M04'29	18°45'36	morning max el	4329 Nov 24 01:38	13°M47'15 0°⊀	18°10'24
morning max el	4328 Dec 10 11:15 4328 Dec 10 16:17	29° <b>M</b> .47'19 0° <b>∡</b> 7	10 43 30	morning set	4329 Dec 05 15:19	11° <b>∡</b> ¹22'30	
	4328 Dec 10 16:17 4328 Dec 31 08:56	0° <b>ਨ</b>		morning set desc. node	4329 Dec 12 14:38 4329 Dec 20 19:24	24° <b>×</b> 40'56	
morning set	4328 Dec 31 08.36 4328 Dec 31 20:02	0°る43'42		uese. Houe	4329 Dec 20 19.24 4329 Dec 24 03:14	24 x・40 36 0°る	
desc. node	4329 Jan 02 22:24	4°る4342			1327 DCC 24 U3.14	υ <b>Ο</b>	
max. Earth dist.	4329 Jan 16 06:43	4 <b>3</b> 01 30 24° <b>る</b> 58'43	1.45198 AU	superior conj	4329 Dec 27 08:38	5° <b>る</b> 06'48	-0°44'01
max. Earth tist.	4527 Jan 10 00.43	27 <b>U</b> 3043	1. <del>1</del> 3130 AU	minimum elong	4329 Dec 27 08:38 4329 Dec 27 03:08	4°ප්45'01	

max. Earth dist.	4329 Dec 30 02:24	9° <b>る</b> 25'49	1.45194 AU	superior conj	4330 Dec 07 05:48	14° <b>∡</b> ¹42'43	0°03'06
	4330 Jan 12 06:45	0° <b>≈</b>		minimum elong	4330 Dec 07 06:08	14° <b>∡</b> °44'07	0°03'03
evening rise	4330 Jan 12 15:57	0° <b>≈</b> 35'47		behind sun begin	4330 Dec 06 20:23	14° <b>₹</b> 04'17	
greatest brilliancy	4330 Jan 25 01:09	19° <b>≈</b> 41'07	-0.7m	behind sun end	4330 Dec 07 15:54	15° <b>₹</b> 23'52	
	4330 Feb 01 04:52	0° <b>)</b> €		desc. node	4330 Dec 07 16:25	15° <b>∡</b> ¹26′01	
evening max el	4330 Feb 06 02:50	5° <b>升</b> 54'24	19°31'15	max. Earth dist.	4330 Dec 12 20:42	23° <b>х</b> 45′53	1.44458 AU
asc. node	4330 Feb 09 22:38	9° <b>₩</b> 02'33			4330 Dec 16 19:29	8°0	
retrograde	4330 Feb 13 08:43	10° <b>)</b> 04'39		evening rise	4330 Dec 23 02:55	9° <b>る</b> 47'33	
evening set	4330 Feb 16 21:40	8° <b>¥</b> 51'13			4331 Jan 05 12:25	0°≈	
inferior conj	4330 Feb 22 08:56	2° <b>₩</b> 55'54	3°16'22	evening max el	4331 Jan 20 05:07	19° <b>≈</b> 27'06	20°31'28
minimum elong	4330 Feb 22 06:58	3° <b>∺</b> 02′20	3°16'02	asc. node	4331 Jan 27 19:39	24° <b>≈</b> 11'15	
min. Earth dist.	4330 Feb 23 13:40	1° <b>¥</b> 21'42	0.66631 AU	retrograde	4331 Jan 28 06:57	24° <b>≈</b> 12'27	
	4330 Feb 24 15:19	30°R≈		evening set	4331 Feb 01 04:35	22° <b>≈</b> 44'40	
morning rise	4330 Feb 27 16:02	26° <b>≈</b> 41'48		inferior conj	4331 Feb 06 13:24	16° <b>≈</b> 36′34	
direct	4330 Mar 05 20:01	23°≈57'15		minimum elong	4331 Feb 06 10:58	16° <b>≈</b> 44'50	2°48'56
	4330 Mar 16 20:26	0° <b>∀</b>		min. Earth dist.	4331 Feb 07 04:38	15° <b>≈</b> 44'32	0.67488 AU
morning max el	4330 Mar 18 04:50	1° <b>∺</b> 19'21	25°47'26	morning rise	4331 Feb 11 17:10	10° <b>≈</b> 22'42	
desc. node	4330 Mar 18 18:38	1° <b>¥</b> 54'39		direct	4331 Feb 17 07:28	7° <b>≈</b> 53'18	
	4330 Apr 08 19:03	0° <b>Υ</b>		morning max el	4331 Feb 28 13:30	14° <b>≈</b> 36'45	24°23'12
morning set	4330 Apr 23 09:53	24° <b>Y</b> 45′02		desc. node	4331 Mar 05 15:39	20°≈17'17	
	4330 Apr 26 05:28	0°8			4331 Mar 13 03:08	0° <b>)</b> €	
max. Earth dist.	4330 Apr 27 05:26	1° <b>8</b> 53'55	1.35734 AU		4331 Apr 01 16:29	0°Υ	
	4000 14 00 10 00	1001410100	1000104	morning set	4331 Apr 05 10:39	6°Υ26'16	1.05500 177
superior conj	4330 May 02 18:33	12° <b>8</b> 48'02		max. Earth dist.	4331 Apr 09 02:41	12° <b>Y</b> 57′13	1.37729 AU
minimum elong	4330 May 02 21:48	13° <b>8</b> 04'24	0°59′29		1221 1 16 00 51	2.5000.5010.1	1005155
asc. node	4330 May 08 21:54	25° <b>8</b> 21'24		superior conj	4331 Apr 16 00:54	25°Υ53'31	
evening rise	4330 May 10 17:37	29° <b>8</b> 05'31		minimum elong	4331 Apr 16 05:26	26° <b>Y</b> 15′23	1°2/16
	4330 May 11 04:18	0°II	20000152		4331 Apr 18 03:42	0° <b>8</b>	
evening max el	4330 May 28 15:47	28° <b>I</b> I16'28	20°08'53	evening rise	4331 Apr 24 18:09	13° <b>8</b> 04'04	
	4330 May 30 14:21	0°ಅ		asc. node	4331 Apr 25 18:56	15° <b>႘</b> 06'30 0° <b>Ⅱ</b>	
retrograde	4330 Jun 08 05:08	3° <b>©</b> 25'42 3° <b>©</b> 15'53		arranina marral	4331 May 03 20:33	10° <b>П</b> 04'38	19°08'50
evening set desc. node	4330 Jun 10 03:57 4330 Jun 14 17:50	1° <b>9</b> 45'09		evening max el retrograde	4331 May 11 09:51 4331 May 20 07:06	10 <b>П</b> 04 38 14° <b>П</b> 24'36	19 08 30
desc. node	4330 Jun 18 00:19	1 €343 09 30°R∏		evening set	4331 May 22 07:47	14° <b>I</b> I12'00	
inferior conj	4330 Jun 19 05:37	29° <b>Ⅱ</b> 16'45	1°20'03	inferior conj	4331 May 30 15:45	14 <b>H</b> 1200 10° <b>H</b> 00'35	0°34'18
minimum elong	4330 Jun 19 01:52	29° <b>I</b> 10'43		minimum elong	4331 May 30 17:08	9° <b>П</b> 58'14	0°33'47
min. Earth dist.	4330 Jun 20 22:57	28° <b>I</b> 15'19	0.55141 AU	desc. node	4331 Jun 01 14:51	8° <b>∏</b> 40′20	0 33 47
morning rise	4330 Jun 27 22:17	24° <b>I</b> I59'26	0.55141710	min. Earth dist.	4331 Jun 02 14:05	8°∏01'42	0.56353 AU
direct	4330 Jul 01 23:55	24° <b>I</b> I23'29		morning rise	4331 Jun 07 23:19	5° <b>Ⅱ</b> 08'01	0.50555710
uncet	4330 Jul 14 10:54	0°9		direct	4331 Jun 12 23:38	4° <b>∏</b> 09'25	
morning max el	4330 Jul 15 15:15	1°904'10	23°54'05	morning max el	4331 Jun 27 05:20	11° <b>∏</b> 27'24	25°33'22
5 5	4330 Aug 04 06:16	$0^{\circ}\Omega$			4331 Jul 11 11:09	0ಂತಾ	
asc. node	4330 Aug 04 21:11	1° <b>Ω</b> 13'30		asc. node	4331 Jul 22 18:12	20°957'00	
morning set	4330 Aug 08 22:43	9° <b>Ω</b> 34'15		morning set	4331 Jul 24 10:14	24°9526'37	
C	Č			C	4331 Jul 27 00:21	$0^{\circ}\Omega$	
superior conj	4330 Aug 15 22:22	24° <b>Ω</b> 38'31	1°33'02				
minimum elong	4330 Aug 15 20:26	24° <b>Ω</b> 28'02	1°32'52	superior conj	4331 Jul 31 08:50	9° <b>Ω</b> 32'24	1°19'20
max. Earth dist.	4330 Aug 18 02:43	29° <b>Ω</b> 19'53	1.33209 AU	minimum elong	4331 Jul 31 06:32	9° <b>Ω</b> 19'42	1°19'01
	4330 Aug 18 10:15	o° <b>m</b> p		max. Earth dist.	4331 Aug 01 09:46	11° <b>Ω</b> 49'01	1.32412 AU
evening rise	4330 Aug 23 09:03	10° <b>m</b> )16'19		evening rise	4331 Aug 07 10:16	24° <b>Ω</b> 41'43	
	4330 Sep 02 23:23	0∘ <b>ত</b>			4331 Aug 10 00:53	O° Mp	
desc. node	4330 Sep 10 17:07	12° <b>♀</b> 20'51			4331 Aug 27 14:25	0∘ <b>⊽</b>	
	4330 Sep 24 16:14	o° <b>m</b> ₊		desc. node	4331 Aug 28 14:08	1° <b>≏</b> 22'57	
evening max el	4330 Sep 26 02:35	1°ML24'17	27°25'17	evening max el	4331 Sep 08 10:55	14° <b>≏</b> 09'36	27°19'11
retrograde	4330 Oct 09 16:55	8°M42'03		retrograde	4331 Sep 22 06:37	21° <b>≏</b> 24'11	
evening set	4330 Oct 16 19:43	6° <b>M</b> ₊03'37		evening set	4331 Sep 29 10:35	18° <b>≏</b> 59'56	
min. Earth dist.	4330 Oct 20 12:40	2°M46'05	0.63903 AU	min. Earth dist.	4331 Oct 03 01:17	16° <b>ჲ</b> 09′23	0.62072 AU
inferior conj	4330 Oct 23 01:09	0° <b>M</b> 09'57		inferior conj	4331 Oct 06 00:43	13° <b>≏</b> 25'19	
minimum elong	4330 Oct 23 05:59	29° <b>≏</b> 57'28	2°48'58	minimum elong	4331 Oct 06 06:41	13° <b>≏</b> 11'33	3°48'20
	4330 Oct 23 05:00	30° <b>R</b> <u> </u>		morning rise	4331 Oct 13 04:33	8° <b>₾</b> 23'22	
morning rise	4330 Oct 29 17:37	24° <b>≏</b> 49'13		direct	4331 Oct 15 13:07	7° <b>ჲ</b> 59'09	
asc. node	4330 Oct 31 20:24	24° <b>≙</b> 19'09		asc. node	4331 Oct 18 17:27	8° <b>≏</b> 44'47	
direct	4330 Nov 01 05:24	24° <b>£</b> 18'27		morning max el	4331 Oct 22 10:06		17°52'18
morning max el	4330 Nov 07 18:17	27° <b>£</b> 43'32	17°52'22		4331 Nov 03 18:59	0°M	
	4330 Nov 09 19:28	0°M		morning set	4331 Nov 07 07:35	6°M19'33	
morning set	4330 Nov 24 12:35	23°M21'01			4221 NT 10 07 10	0.50m 0.510 1	0042125
	4330 Nov 28 09:55	0° <b>∡</b>		superior conj	4331 Nov 18 05:10	25°M35'21	0°43'35

minimum elong	4331 Nov 18 08:47	25°M50'50	0°43'06	superior conj	4332 Oct 30 05:39	7° <b>M</b> 41'21	1°13'31
	4331 Nov 20 19:32	0°⊀		minimum elong	4332 Oct 30 09:38	7° <b>M</b> 59'19	1°13'03
desc. node	4331 Nov 24 13:25	6° <b>≯</b> 13'11		max. Earth dist.	4332 Nov 06 20:43	21°M02'06	1.41266 AU
max. Earth dist.	4331 Nov 25 11:06	7° <b>∡</b> 741'49	1.43092 AU	desc. node	4332 Nov 10 10:27	26°M59'31	
evening rise	4331 Dec 02 15:31	19° <b>∡</b> 09'32		evening rise	4332 Nov 11 20:30	29°M18'34	
	4331 Dec 09 17:05	್ರಂ			4332 Nov 12 06:43	0° <b>⊼</b>	
	4331 Dec 31 07:44	0° <b>≈</b>	21012116		4332 Dec 02 06:36	0°る	22001152
evening max el	4332 Jan 03 01:57	3°≈00'53	21°43'16	evening max el	4332 Dec 15 18:13	16°る37'29	23°01'52
retrograde	4332 Jan 12 04:20	8°≈25'25		retrograde	4332 Dec 25 23:13	22°る40'33	
asc. node	4332 Jan 14 16:42	7°≈51'20		evening set	4332 Dec 30 19:18	20°る41'25	
evening set	4332 Jan 16 12:20 4332 Jan 21 20:33	6°≈42'18	2012150	asc. node	4332 Dec 31 13:45	19°る59'54 14°る17'46	1°30'39
inferior conj		0°≈24'36	2°13'50	inferior conj	4333 Jan 05 04:28 4333 Jan 05 02:34	14°る1/46 14° <b>る</b> 24'19	
minimum elong	4332 Jan 21 18:09	0°≈32'54	2°13'04	minimum elong	4333 Jan 03 02:34 4333 Jan 04 20:21	14° <b>3</b> 24 19	1°29'56
min. Earth dist.	4332 Jan 21 23:38 4332 Jan 22 03:38	0°≈13'51 30°Rる	0.67945 AU	min. Earth dist. morning rise	4333 Jan 10 09:44	8° <b>る</b> 09'41	0.68029 AU
morning rise	4332 Jan 26 23:48	30 KO 24°る12'45		direct	4333 Jan 14 18:57	6° <b>る</b> 23'55	
direct	4332 Jan 31 23:28	24°る1243 22°る04'04		morning max el	4333 Jan 23 13:06	11° <b>る</b> 23'35	21°28'48
morning max el	4332 Feb 10 23:01	27°る59'01	22°53'59	desc. node	4333 Feb 06 09:43	29° <b>ろ</b> 06'36	21 20 40
morning max ci	4332 Feb 10 23:01 4332 Feb 12 20:50	27 <b>⊙</b> 3901 0° <b>≈</b>	22 33 39	desc. flode	4333 Feb 07 00:40	29 <b>3</b> 00 30 0 ∞	
desc. node	4332 Feb 20 12:41	9°≈25'29		morning set	4333 Feb 24 04:02	0 <b>~</b> 25° <b>≈</b> 54'51	
dese. Hode	4332 Mar 05 19:40	0° <b>\</b>		morning sec	4333 Feb 26 17:27	0° <b>∀</b>	
morning set	4332 Mar 16 09:45	16° <b>)</b> 51′24		max. Earth dist.	4333 Mar 02 22:14		1.42004 AU
max. Earth dist.	4332 Mar 20 21:45	24° <del>)(</del> 26'53	1.39912 AU	max. Earth dist.	4333 Widi 02 22.14	0 7(3010	1.42004 710
max. Darm dist.	4332 Mar 24 02:18	0°Υ	1.57712110	superior conj	4333 Mar 10 10:18	19° <b>)</b> 31′22	-2°05'45
		•		minimum elong	4333 Mar 10 12:45	19° <b>)</b> (41'59	
superior conj	4332 Mar 28 15:49	8° <b>Υ</b> 11'53	-1°51'14		4333 Mar 16 08:44	0°Υ	
minimum elong	4332 Mar 28 20:29	8° <b>Υ</b> 33'17		evening rise	4333 Mar 21 12:09	9° <b>Υ</b> 19'30	
evening rise	4332 Apr 07 09:34	26° <b>Ƴ</b> 31'39		asc. node	4333 Mar 29 13:02	23° <b>Y</b> 39'06	
C	4332 Apr 09 05:24	0°8			4333 Apr 02 13:49	0° <b>႘</b>	
asc. node	4332 Apr 11 15:59	4° <b>8</b> 34'28		evening max el	4333 Apr 06 23:23	5° <b>8</b> 23'39	18°09'20
evening max el	4332 Apr 23 13:34	22° <b>8</b> 30'13	18°29'06	retrograde	4333 Apr 13 18:09	8° <b>8</b> 49'43	
retrograde	4332 May 01 03:34	26° <b>8</b> 14'49		evening set	4333 Apr 16 08:04	8° <b>8</b> 20'24	
evening set	4332 May 03 10:49	25° <b>8</b> 55'11		inferior conj	4333 Apr 23 02:51	3° <b>8</b> 28'44	2°59'11
inferior conj	4332 May 10 22:55	21° <b>8</b> 24'31	2°02'40	minimum elong	4333 Apr 23 05:56	3° <b>8</b> 21'36	2°58'35
minimum elong	4332 May 11 02:29	21° <b>8</b> 17'26	2°01'37	min. Earth dist.	4333 Apr 26 10:11	0° <b>8</b> 26'36	0.60386 AU
min. Earth dist.	4332 May 14 09:06	18° <b>8</b> 42'26	0.58219 AU		4333 Apr 26 22:29	30° <b>₹Ƴ</b>	
desc. node	4332 May 18 11:52	16° <b>8</b> 02'57		morning rise	4333 Apr 30 01:32	27° <b>Y</b> 39'35	
morning rise	4332 May 18 14:58	15° <b>8</b> 59'01		desc. node	4333 May 05 08:55	25° <b>Ƴ</b> 38'35	
direct	4332 May 24 13:47	14° <b>8</b> 27'44		direct	4333 May 06 15:58	25° <b>Y</b> 33'50	
morning max el	4332 Jun 07 23:04	22° <b>8</b> 08'50	26°53'08		4333 May 17 01:58	$9^{\circ}$ 8	
	4332 Jun 14 21:06	$\Pi$ $^{\circ}0$		morning max el	4333 May 20 23:06	3° <b>8</b> 27'29	27°40'57
	4332 Jul 03 07:29	$0$ $\circ$ $\odot$			4333 Jun 09 11:13	$\Pi$ $^{\circ}0$	
morning set	4332 Jul 07 20:07	9° <b>©</b> 12'44		morning set	4333 Jun 22 02:31	23° <b>∏</b> 46′00	
asc. node	4332 Jul 08 15:15	10°©53'52			4333 Jun 25 01:25	$0$ $\circ$ $\odot$	
				asc. node	4333 Jun 25 12:17	0°958'21	
superior conj	4332 Jul 14 20:39	24° <b>©</b> 28'00	1°01'10	max. Earth dist.	4333 Jun 28 08:03	7° <b>5</b> 07'01	1.32059 AU
minimum elong	4332 Jul 14 18:26	24° <b>©</b> 15'48	1°00'46			_	
max. Earth dist.	4332 Jul 14 20:48	24°928'50	1.32029 AU	superior conj	4333 Jun 29 07:59	9° <b>©</b> 18'27	0°39'08
	4332 Jul 17 08:54	0° <b>Ω</b>		minimum elong	4333 Jun 29 06:20	9°509'24	0°38'46
evening rise	4332 Jul 21 17:14	9° <b>£</b> 22'43		evening rise	4333 Jul 06 03:35	24°©10'49	
	4332 Aug 01 09:01	0°M)			4333 Jul 08 22:27	$\Omega^{\circ}\Omega$	
desc. node	4332 Aug 14 11:09	19° m 32'12	26920142	1 1	4333 Jul 26 18:16	0° m/	
evening max el	4332 Aug 20 13:39	26° Mp 12'46	26°39′43	desc. node	4333 Aug 01 08:11	6° Mp 26'00	25020114
	4332 Aug 25 04:22	0∘ <b>⊽</b>		evening max el	4333 Aug 02 08:52	7° Mp 26'37	25°29'14
retrograde	4332 Sep 03 12:15	3° <b>Ω</b> 22'48		retrograde	4333 Aug 16 07:55	14° Mp 31'55	
evening set	4332 Sep 10 07:31 4332 Sep 12 13:20	1° <b>♀</b> 25'29 30°R <b>M</b> )		evening set min. Earth dist.	4333 Aug 22 05:37 4333 Aug 26 20:44	13° Mp 10'52 10° Mp 31'41	0.58002 AU
min. Earth dist.	4332 Sep 12 13:20 4332 Sep 14 03:33	28° Mp 49'20	0.60042 AU	inferior conj	4333 Aug 29 23:44	8° Mp 21'06	
inferior conj	4332 Sep 14 03.33 4332 Sep 17 09:26	26° Mp 12'48		minimum elong	4333 Aug 30 01:54	8°M)17'19	
minimum elong	4332 Sep 17 09:20 4332 Sep 17 14:56	26° Mp 01'42		morning rise	4333 Sep 07 00:27	4° Mp 03'51	2 07 70
morning rise	4332 Sep 17 14.30 4332 Sep 25 00:22	20 m/01 42 21° m/32'27	T 37 U1	direct	4333 Sep 07 00.27 4333 Sep 09 12:33	3° Mp 44'32	
direct	4332 Sep 27 08:58	21° my 11'50		morning max el	4333 Sep 18 02:08	7° Mp 48'34	18°51'31
asc. node	4332 Oct 04 14:30	24° Mp 36'00		asc. node	4333 Sep 18 02:08 4333 Sep 21 11:33	11°M)37'01	10 3131
morning max el	4332 Oct 04 14:50 4332 Oct 04 21:52	24° m 53'29	18°11'30		4333 Oct 02 10:21	0° <b>ي</b>	
	4332 Oct 09 04:05	0∘ <b>ರ</b>		morning set	4333 Oct 04 14:19	o <b>–</b> 4° <b>⊆</b> 13'05	
morning set	4332 Oct 20 17:43	ა <b>—</b> 20° <b>ჲ</b> 01'33		0 *-*	>	_ 15 05	
<i>3</i> ·	4332 Oct 26 01:05	0°M		superior conj	4333 Oct 13 02:05	20° <b>≏</b> 45'36	1°32'39
				. ,			

minimum elong	4333 Oct 13 04:51	20° <b>£</b> 58'50	1°32'25	superior conj	4334 Sep 26 13:08	4° <b>£</b> 33'03	1°42'14
	4333 Oct 18 01:17	0°M		minimum elong	4334 Sep 26 14:16	4° <b>≏</b> 38'42	1°42'12
max. Earth dist.	4333 Oct 20 02:21	3°M40'29	1.39194 AU	max. Earth dist.	4334 Oct 02 07:28	15° <b>≏</b> 43'58	1.37132 AU
evening rise	4333 Oct 24 00:16	10°M29'40		evening rise	4334 Oct 06 02:16	22° <b>₽</b> 41'55	
desc. node	4333 Oct 28 07:28	17° <b>M</b> 40'54			4334 Oct 10 06:00	$0^{\circ}$ M	
	4333 Nov 05 03:18	0°⊀		desc. node	4334 Oct 15 04:30	8°M13'04	
	4333 Nov 28 00:31	0°ಕ			4334 Oct 29 22:26	0° <b>∡</b> 7	
evening max el	4333 Nov 28 07:36	0° <b>る</b> 17'40	24°21'24	evening max el	4334 Nov 10 19:55	14° <b>∡</b> °00'03	25°34'59
retrograde	4333 Dec 09 14:31	6° <b>る</b> 54'08		retrograde	4334 Nov 23 01:23	21° <b>х</b> 01'06	
evening set	4333 Dec 14 23:57	4° <b>る</b> 39'12		evening set	4334 Nov 29 00:34	18° <b>∡</b> 32'19	
asc. node	4333 Dec 18 10:48	0°る54'15		min. Earth dist.	4334 Dec 03 09:29	13° 🗷 45'04	0.67123 AU
: E 4 E 4	4333 Dec 19 03:31	30°₹ <b>⋌</b> <sup>7</sup>	0.67751 ATT	inferior conj	4334 Dec 04 15:27	12° <b>%</b> 09'12	
min. Earth dist.	4333 Dec 19 16:24	29° 🖈 17'16	0.67751 AU	minimum elong	4334 Dec 04 15:49	12°×708'03	0°13'51
inferior conj minimum elong	4333 Dec 20 11:23 4333 Dec 20 10:25	28° ₹ 13'35 28° ₹ 16'50	0°41'02 0°40'39	transit middle transit begin	4334 Dec 04 15:49 4334 Dec 04 14:22	12° <b>х</b> 08'03 12° <b>х</b> 12'41	0°13'51
morning rise	4333 Dec 25 20:57	28 <b>x</b> 10 30 22° <b>x</b> 11'17	0 4039	transit end	4334 Dec 04 17:16	12° <b>x</b> *1241 12° <b>x</b> *03'24	
direct	4333 Dec 29 16:44	20° <b>х</b> 47'46		asc. node	4334 Dec 05 07:50	12 × 03 24 11°× 17'04	
morning max el	4334 Jan 06 10:41	25°× 12'33	20°14'03	morning rise	4334 Dec 10 07:25	6° <b>x</b> <sup>7</sup> 14'49	
morning max cr	4334 Jan 10 15:55	0°る	20 14 03	direct	4334 Dec 13 15:24	5°×710'56	
desc. node	4334 Jan 24 06:45	0 19° <b>る</b> 11'38		morning max el	4334 Dec 20 16:10	9°×7'06'01	19°13'21
	4334 Jan 31 09:51	0°≈		greatest brilliancy	4335 Jan 03 09:34	27° <b>х</b> 37′51	-0.7m
morning set	4334 Feb 03 02:06	4°≈07'17		<i>y</i>	4335 Jan 04 22:54	0°ප	
max. Earth dist.	4334 Feb 13 06:44	20°≈09'08	1.43719 AU	desc. node	4335 Jan 11 03:46	9° <b>る</b> 33'40	
				morning set	4335 Jan 13 03:12	12° <b>る</b> 37'33	
superior conj	4334 Feb 19 03:52	29° <b>≈</b> 42′23	-2°06'05	-	4335 Jan 24 06:34	0° <b>≈</b>	
minimum elong	4334 Feb 19 01:03	29° <b>≈</b> 30'46	2°06'00	max. Earth dist.	4335 Jan 26 21:22	4° <b>≈</b> 06'56	1.44853 AU
	4334 Feb 19 08:08	0° <b>∀</b>					
evening rise	4334 Mar 03 21:34	21° <b>∺</b> 18′52		superior conj	4335 Jan 29 20:35	8° <b>≈</b> 48'30	-1°47'33
	4334 Mar 08 21:52	$0$ ° $\mathbf{Y}$		minimum elong	4335 Jan 29 12:12	8° <b>≈</b> 15′16	1°46'52
asc. node	4334 Mar 16 10:05	12° <b>Ƴ</b> 12'53			4335 Feb 11 23:12	0° <b>)</b> €	
evening max el	4334 Mar 21 11:57	18° <b>Ƴ</b> 35'53	18°08'56	evening rise	4335 Feb 13 09:37	2° <b>∺</b> 21'50	
retrograde	4334 Mar 27 22:38	21° <b>Y</b> 58'46		asc. node	4335 Mar 03 07:08	0° <b>Y</b> 05'34	
evening set	4334 Mar 30 18:32	21° <b>Υ</b> 18'20			4335 Mar 03 05:16	0° <b>Υ</b>	
inferior conj	4334 Apr 05 24:00	16° <b>℃</b> 06'40	3°28'04	evening max el	4335 Mar 05 00:16	1°Υ58'51	18°27'13
minimum elong	4334 Apr 06 01:29	16° <b>Y</b> 02'45	3°27'56	retrograde	4335 Mar 11 12:18	5° <b>Υ</b> 31'35	
min. Earth dist.	4334 Apr 08 19:48	13° <b>Υ</b> 08'49	0.62527 AU	evening set	4335 Mar 14 14:10	4° <b>Υ</b> 39'09	
morning rise	4334 Apr 12 07:05	10° <b>Y</b> 03'17 7° <b>Y</b> 30'01			4335 Mar 19 16:40	30°R <del>X</del> 29° <b>¥</b> 09'09	2025127
direct desc. node	4334 Apr 19 03:54 4334 Apr 22 05:57	7° <b>Υ</b> 58'00		inferior conj minimum elong	4335 Mar 20 10:09 4335 Mar 20 09:58	29° <b>₭</b> 09'09 29° <b>₭</b> 09'42	3°35'36 3°35'37
morning max el	4334 May 03 05:08	15° <b>Υ</b> 29'07	27°51'17	min. Earth dist.	4335 Mar 22 14:54	26°\(\)35'03	0.64422 AU
morning max ci	4334 May 15 01:36	0° <b>8</b>	2/ 311/	morning rise	4335 Mar 26 05:03	20 <b>X</b> 58'30	0.04422 AO
	4334 Jun 02 01:50	0°II		direct	4335 Apr 01 23:58	20° <b> ∺</b> 10′08	
morning set	4334 Jun 06 03:23	8° <b>∏</b> 00'15		desc. node	4335 Apr 09 02:59	22° <b>)</b> 39'19	
max. Earth dist.	4334 Jun 11 15:37	19° <b>Ⅲ</b> 30'58	1.32507 AU	morning max el	4335 Apr 15 14:29	28° <b>)</b> (05'41	27°25'25
asc. node	4334 Jun 12 09:20	21° <b>Ⅱ</b> 06′20		Ü	4335 Apr 17 10:15	0° <b>Υ</b>	
					4335 May 08 19:51	0°B	
superior conj	4334 Jun 13 17:06	23° <b>Ⅱ</b> 58'17	0°13'49	morning set	4335 May 20 20:04	21° <b>8</b> 46'37	
minimum elong	4334 Jun 13 16:27	23° <b>Ⅱ</b> 54'45	0°13'40		4335 May 24 22:18	$\Pi$ $^{\circ}0$	
behind sun begin	4334 Jun 13 13:46	23° <b>Ⅱ</b> 40'11		max. Earth dist.	4335 May 25 15:14	1° <b>Ⅱ</b> 27'18	1.33391 AU
behind sun end	4334 Jun 13 19:08	24° <b>Ⅱ</b> 09'20					
	4334 Jun 16 11:30	0∘ <b>©</b>		superior conj	4335 May 28 22:04	8° <b>Ⅲ</b> 20'56	
evening rise	4334 Jun 20 15:23	8°959'43		minimum elong	4335 May 28 22:47	8° <b>Ⅱ</b> 24'44	0°13'52
	4334 Jul 01 11:54	0°Ω		behind sun begin	4335 May 28 20:02	8° <b>Ⅱ</b> 10'11	
evening max el	4334 Jul 14 22:11	18° <b>Ω</b> 00'49	23°57'41	behind sun end	4335 May 29 01:31	8° <b>Ⅱ</b> 39'17	
desc. node	4334 Jul 19 05:12	21° <b>Ω</b> 34'56		asc. node	4335 May 30 06:23	11° <b>Ⅱ</b> 13'11	
retrograde evening set	4334 Jul 28 15:59 4334 Aug 02 03:56	24°Ω55'40 24°Ω10'57		evening rise	4335 Jun 05 02:42 4335 Jun 08 03:38	23° <b>∏</b> 42'29 0° <b>©</b>	
min. Earth dist.	4334 Aug 08 08:30		0.56241 AU	evening max el	4335 Jun 26 12:28	0 95 28°9524'12	22°20'42
inferior conj	4334 Aug 10 17:43	21 <b>δ</b> €1047 19° <b>Ω</b> 43'17		evening max ci	4335 Jun 28 06:25	28 <b>3</b> 24 12 0° <b>Ω</b>	22 2V 72
minimum elong	4334 Aug 10 17:43	19° <b>Ω</b> 49'11		desc. node	4335 Jul 06 02:12	4° <b>Ω</b> 24'16	
morning rise	4334 Aug 19 02:24	15° <b>Ω</b> 45'41		retrograde	4335 Jul 09 12:07	4°Ω51'12	
direct	4334 Aug 21 20:31	15° <b>Ω</b> 26'11		evening set	4335 Jul 12 12:34	4°Ω31'03	
morning max el	4334 Aug 31 20:00	20° <b>Ω</b> 04'31	19°53'21	min. Earth dist.	4335 Jul 20 19:02	0° <b>Ω</b> 56'11	0.55095 AU
asc. node	4334 Sep 08 08:35	29° <b>Ω</b> 33'05		inferior conj	4335 Jul 21 18:17	0° <b>Ω</b> 23'19	
	4334 Sep 08 15:25	0° <b>m</b> )		minimum elong	4335 Jul 21 09:54	0° <b>Ω</b> 35′11	4°07'39
morning set	4334 Sep 18 18:01	18° <b>m</b> 44'39			4335 Jul 22 10:48	30° <b>ℝ</b> ∽	
	4334 Sep 24 06:47	0० <b>⊽</b>		morning rise	4335 Jul 30 09:10	26° <b>©</b> 32'59	

direct	4335 Aug 02 11:28	26° <b>©</b> 11'21		morning rise	4336 Jul 09 05:23	6° <b>5</b> 38'41	
	4335 Aug 12 05:09	$0^{\circ}\Omega$		direct	4336 Jul 12 20:47	6° <b>©</b> 10'07	
morning max el	4335 Aug 14 02:00	1° <b>Ω</b> 35'50	21°15'57	morning max el	4336 Jul 25 21:30	12° <b>©</b> 24'54	22°54'21
asc. node	4335 Aug 26 05:37	18° <b>Ω</b> 11'36			4336 Aug 08 01:29	$0^{\circ}\Omega$	
	4335 Sep 01 09:32	0° <b>m</b> p		asc. node	4336 Aug 12 02:39	7° <b>Ω</b> 21'50	
morning set	4335 Sep 03 02:19	3° <b>™</b> 29'28		morning set	4336 Aug 17 13:11	18° <b>Ω</b> 21'20	
					4336 Aug 22 23:52	O° My	
superior conj	4335 Sep 10 10:32	18° <b>m</b> 51'07	1°43'47				
minimum elong	4335 Sep 10 10:09	18° <b>m</b> 49'10	1°43'47	superior conj	4336 Aug 24 14:55	3° <b>™</b> 29'11	1°38'38
max. Earth dist.	4335 Sep 14 17:34	27° <b>m</b> 35'11	1.35308 AU	minimum elong	4336 Aug 24 13:25	3° Mp 21′10	1°38'32
	4335 Sep 15 22:52	0∘ <b>ত</b>		max. Earth dist.	4336 Aug 27 12:31	9° <b>™</b> 36'59	1.33858 AU
evening rise	4335 Sep 18 22:42	5° <b>≏</b> 46'10		evening rise	4336 Sep 01 09:12	19° Mp 30'16	
desc. node	4335 Oct 02 01:31	28° <b>≏</b> 30'50			4336 Sep 06 21:55	0∘ <b>⊽</b>	
	4335 Oct 03 00:13	$0^{\circ}$ M,		desc. node	4336 Sep 17 22:31	18° <b>≏</b> 26'58	
evening max el	4335 Oct 24 08:27	27°M40'46	26°35'15		4336 Sep 26 01:59	0°M	
	4335 Oct 26 22:05	0° <b>∡</b> ¹		evening max el	4336 Oct 05 20:57	11°ML10'20	27°14'45
retrograde	4335 Nov 06 07:10	4° <b>₹</b> 55'21		retrograde	4336 Oct 19 07:04	18° <b>M</b> 28′22	
evening set	4335 Nov 12 19:16	2° <b>҂</b> 17′06		evening set	4336 Oct 26 05:40	15° <b>™</b> 47'37	
	4335 Nov 15 04:46	30°RM₊		min. Earth dist.	4336 Oct 30 01:39	12° <b>™</b> 10'49	0.64819 AU
min. Earth dist.	4335 Nov 16 21:21	28°M05'16	0.66143 AU	inferior conj	4336 Nov 01 07:03	9° <b>™</b> 44'31	-2°15'01
inferior conj	4335 Nov 18 14:46	26°M01'25	-1°13'15	minimum elong	4336 Nov 01 10:53	9° <b>™</b> 33'59	2°13'31
minimum elong	4335 Nov 18 16:47	25°M55'22	1°12'23	morning rise	4336 Nov 07 17:13	4° <b>ጤ</b> 14'05	
asc. node	4335 Nov 22 04:51	22°M05'32		asc. node	4336 Nov 08 01:52	4° <b>ጤ</b> 04'55	
morning rise	4335 Nov 24 15:01	20°M17'30		direct	4336 Nov 10 08:05	3°M38'02	
direct	4335 Nov 27 13:16	19°M29'30		morning max el	4336 Nov 16 19:40	7° <b>IL</b> 04'52	18°00'31
morning max el	4335 Dec 04 04:01	23°M05'47	18°28'33		4336 Dec 02 06:50	0° <b>∡</b> ¹	
	4335 Dec 09 18:27	0° <b>∡</b> ¹		morning set	4336 Dec 04 11:34	3° <b>∡</b> ¹40'10	
morning set	4335 Dec 24 04:39	22° <b>₹</b> 25'06		desc. node	4336 Dec 14 21:48	20° <b>₹</b> 50'01	
	4335 Dec 28 22:46	0°ರ					
desc. node	4335 Dec 29 00:48	0° <b>පි</b> 08'04		superior conj	4336 Dec 18 08:54	26° <b>₹</b> ¹23'51	-0°23'43
				minimum elong	4336 Dec 18 06:00	26° <b>₹</b> 12'14	0°23'18
superior conj	4336 Jan 08 23:36	17° <b>る</b> 24'17	-1°10'33		4336 Dec 20 15:13	0°ප	
minimum elong	4336 Jan 08 15:14	16°る51'27	1°09'34	max. Earth dist.	4336 Dec 22 10:53	2° <b>る</b> 52'38	1.44972 AU
max. Earth dist.	4336 Jan 09 15:37	18° <b>る</b> 27'04	1.45285 AU	evening rise	4337 Jan 03 15:37	21° <b>る</b> 52'15	
	4336 Jan 17 00:22	0°≈			4337 Jan 08 22:36	0° <b>≈</b>	
evening rise	4336 Jan 24 22:24	12° <b>≈</b> 28'43		greatest brilliancy	4337 Jan 17 17:40	13° <b>≈</b> 17'11	-0.6m
greatest brilliancy	4336 Feb 03 13:33	27° <b>≈</b> 40'37	-0.8m	evening max el	4337 Jan 29 15:32	29° <b>≈</b> 00'41	19°55'17
	4336 Feb 05 01:30	0° <b>ℋ</b>			4337 Jan 30 15:42	0° <b>ℋ</b>	
evening max el	4336 Feb 16 10:04	15° <b>)</b> €28'17	19°03'11	asc. node	4337 Feb 04 01:09	2° <b>升</b> 59′27	
asc. node	4336 Feb 18 04:09	17° <b>₩</b> 05'47		retrograde	4337 Feb 06 05:08	3° <b>¥</b> 24'39	
retrograde	4336 Feb 23 07:26	19° <b>¥</b> 21'58		evening set	4337 Feb 09 21:37	2° <b>₩</b> 05'17	
evening set	4336 Feb 26 15:59	18° <b>升</b> 16′35			4337 Feb 12 04:16	30°R <b>≈</b>	
inferior conj	4336 Mar 03 05:41	12° <b>)</b> € 30′06	3°27'03	inferior conj	4337 Feb 15 07:37	26° <b>≈</b> 04'27	3°06'09
minimum elong	4336 Mar 03 04:13	12° <b>)</b> 34'44	3°26'53	minimum elong	4337 Feb 15 05:23	26°≈11'53	3°05'41
min. Earth dist.	4336 Mar 04 19:00	10° <b>∺</b> 31'59	0.65949 AU	min. Earth dist.	4337 Feb 16 06:28	24° <b>≈</b> 48′00	0.67052 AU
morning rise	4336 Mar 08 16:06	6° <b>₩</b> 16'31		morning rise	4337 Feb 20 12:56	19° <b>≈</b> 50′23	
direct	4336 Mar 15 02:53	3° <b>∺</b> 26'49		direct	4337 Feb 26 11:28	17° <b>≈</b> 11'09	
desc. node	4336 Mar 26 00:02	9° <b>₩</b> 09'03		morning max el	4337 Mar 10 09:16	24° <b>≈</b> 17'59	25°12'45
morning max el	4336 Mar 28 00:22	11° <b>∺</b> 05'31	26°29'29	desc. node	4337 Mar 12 21:04	26°≈57'08	
	4336 Apr 12 01:21	0°Υ			4337 Mar 15 12:08	0° <b>∀</b>	
	4336 Apr 30 09:28	0°8			4337 Apr 05 11:40	0° <b>Υ</b>	
morning set	4336 May 03 01:03	4° <b>8</b> 54'53		morning set	4337 Apr 15 13:45	17° <b>Y</b> 12'12	
max. Earth dist.	4336 May 07 03:47	12° <b>8</b> 50'58	1.34745 AU	max. Earth dist.	4337 Apr 19 05:27	23° <b>Y</b> 53'58	1.36544 AU
					4337 Apr 22 10:37	$9^{\circ}$ 8	
superior conj	4336 May 11 20:35	22° <b>8</b> 19'57					
minimum elong	4336 May 11 22:54	22° <b>8</b> 31'53	0°42'46	superior conj	4337 Apr 25 09:53	5° <b>8</b> 47'59	
	4336 May 15 13:07	0°II		minimum elong	4337 Apr 25 13:46	6° <b>8</b> 07'09	1°11'35
asc. node	4336 May 16 03:25	1° <b>Ⅱ</b> 14'53		asc. node	4337 May 03 00:27	21° <b>8</b> 07'31	
evening rise	4336 May 19 11:36	8° <b>Ⅱ</b> 13'13		evening rise	4337 May 03 15:57	22° <b>8</b> 25'52	
_	4336 May 31 05:22	0°€		_	4337 May 07 11:34	0° <b>I</b>	
evening max el	4336 Jun 07 11:36	9° <b>5</b> 09'20	20°52'22	evening max el	4337 May 20 23:00	20° <b>∏</b> 33'55	19°40'56
retrograde	4336 Jun 19 00:45	14°548'45		retrograde	4337 May 30 18:18	25° <b>Ⅱ</b> 20'30	
evening set	4336 Jun 21 03:46	14° <b>5</b> 38'01		evening set	4337 Jun 01 17:06	25° <b>Ⅱ</b> 10′00	
desc. node	4336 Jun 21 23:14	14° <b>©</b> 28'30		desc. node	4337 Jun 08 20:16	22° <b>I</b> 08'08	
inferior conj	4336 Jun 30 11:31	10°9540'50		inferior conj	4337 Jun 10 11:58	21° <b>∏</b> 07'04	
minimum elong	4336 Jun 30 04:41	10° <b>©</b> 50'31		minimum elong	4337 Jun 10 10:39	21° <b>∏</b> 09'09	
min. Earth dist.	4336 Jul 01 06:29	10° <b>©</b> 13'54	0.54841 AU	min. Earth dist.	4337 Jun 12 19:40	19° <b>Ⅱ</b> 40'19	0.55557 AU

morning rise	4337 Jun 19 01:50	16° <b>Ⅱ</b> 35'47		desc. node	4338 May 26 17:19	28° <b>8</b> 58'08	
direct	4337 Jun 23 12:58	15° <b>∏</b> 51'30		morning rise	4338 May 30 08:13	26° <b>8</b> 59'26	
morning max el	4337 Jul 07 11:33	22° <b>I</b> I49'16	24°37'44	direct	4338 Jun 04 18:26	25° <b>8</b> 48'07	
morning max or	4337 Jul 13 21:04	0°95	21 37 11	uncer	4338 Jun 15 07:31	0°Ⅱ	
asc. node	4337 Jul 29 23:41	26° <b>©</b> 55'27		morning max el	4338 Jun 19 02:41	3° <b>П</b> 16'46	26°10'42
use. Houe	4337 Jul 31 11:43	0°Ω		morning max er	4338 Jul 08 06:28	0° <b>©</b>	20 10 42
morning set	4337 Aug 02 00:59	3° <b>Ω</b> 15'18		asc. node	4338 Jul 16 20:45	16°9545'05	
morning set	4557 Aug 02 00.57	3 0013 10		morning set	4338 Jul 17 12:01	18°905'26	
superior conj	4337 Aug 08 23:48	18° <b>Ω</b> 19'22	1°27'49	morning set	4338 Jul 22 23:49	0°Ω	
minimum elong	4337 Aug 08 23:48 4337 Aug 08 21:39	18° <b>Ω</b> 07'37	1°27'34		4556 Jul 22 25.47	0 82	
max. Earth dist.	4337 Aug 10 16:05	21°Ω58'01	1.32823 AU	superior conj	4338 Jul 24 11:03	3° <b>Ω</b> 14'09	1°12'09
max. Lattii dist.	4337 Aug 10 10:03 4337 Aug 14 10:41	0° m	1.52625 AU	minimum elong	4338 Jul 24 11:03 4338 Jul 24 08:44	3°Ω01'20	1°11'46
evening rise	•	3°Mp43'34		max. Earth dist.	4338 Jul 25 01:24	4°Ω33'11	1.32200 AU
evening rise	4337 Aug 16 06:00						1.32200 AU
desc. node	4337 Aug 30 15:40	0° <b>ჲ</b>		evening rise	4338 Jul 31 09:57	18° <b>Ω</b> 16'00	
	4337 Sep 04 19:32	7° <b>£</b> 52'22	2792741	4 4-	4338 Aug 06 06:41	0°M)	
evening max el	4337 Sep 18 07:40	24° <b>£</b> 16′09	27°26'41	desc. node	4338 Aug 22 16:35	26° m 33'58	
	4337 Sep 26 02:28	0°M			4338 Aug 25 09:18	0∘ <b>ʊ</b>	2500 (125
retrograde	4337 Oct 02 00:24	1°M31'52		evening max el	4338 Aug 31 13:53	6° <b>Ω</b> 44'10	27°06'25
	4337 Oct 07 13:41	30° <b>₹</b> Ω		retrograde	4338 Sep 14 10:37	13° <b>≏</b> 56'27	
evening set	4337 Oct 09 04:45	28° <b>£</b> 58'13		evening set	4338 Sep 21 12:34	11° <b>Ω</b> 41'57	
min. Earth dist.	4337 Oct 12 20:20	25° <b>£</b> 53'08	0.63166 AU	min. Earth dist.	4338 Sep 25 04:12	8° <b>Ω</b> 59'45	0.61229 AU
inferior conj	4337 Oct 15 13:38	23° <b>≏</b> 12'25		inferior conj	4338 Sep 28 07:18	6° <b>Ω</b> 16'44	
minimum elong	4337 Oct 15 19:04	22° <b>≙</b> 59'00	3°14'41	minimum elong	4338 Sep 28 13:21	6° <b>Ω</b> 03'33	4°11'24
morning rise	4337 Oct 22 10:52	17° <b>≏</b> 58'57		morning rise	4338 Oct 05 15:59	1° <b>≏</b> 23'51	
direct	4337 Oct 24 21:01	17° <b>≏</b> 31'13		direct	4338 Oct 08 00:16	1° <b>ഫ</b> 01'23	
asc. node	4337 Oct 25 22:55	17° <b>≏</b> 36'51		asc. node	4338 Oct 12 19:58	2° <b>ჲ</b> 40'20	
morning max el	4337 Oct 31 12:17	20° <b>£</b> 56'52	17°49'59	morning max el	4338 Oct 15 02:48	4° <b>≏</b> 34'20	17°58'05
	4337 Nov 07 08:15	0°M₊		morning set	4338 Oct 30 21:24	29° <b>≏</b> 25'47	
morning set	4337 Nov 16 19:17	16°M06'45			4338 Oct 31 04:51	0°M	
	4337 Nov 24 19:46	0° <b>∡</b> ¹					
				superior conj	4338 Nov 10 03:25	17° <b>M</b> 56'46	0°57'39
superior conj	4337 Nov 28 16:45	6° <b>∡</b> ³30'55	0°21'26	minimum elong	4338 Nov 10 07:28	18° <b>M</b> ₊14'30	0°57'07
minimum elong	4337 Nov 28 18:54	6° <b>∡</b> ³39'51	0°21'09		4338 Nov 17 05:05	0° <b>∡</b> 7	
desc. node	4337 Dec 01 18:49	11° <b>∡</b> ³36′09		max. Earth dist.	4338 Nov 17 17:04	0° <b>∡</b> ¹49'39	1.42361 AU
max. Earth dist.	4337 Dec 05 04:14	17° <b>⋌</b> 105'52	1.43957 AU	desc. node	4338 Nov 18 15:50	2° <b>≮</b> 23′29	
	4337 Dec 13 08:50	0°ರ		evening rise	4338 Nov 23 19:29	10° <b>∡</b> ⁴42'10	
evening rise	4337 Dec 14 01:15	1° <b>る</b> 03'27			4338 Dec 06 11:15	8°0	
	4338 Jan 02 14:07	0° <b>≈</b>		evening max el	4338 Dec 26 10:10	26° <b>る</b> 08'30	22°16'07
evening max el	4338 Jan 12 15:31	12° <b>≈</b> 33'48	21°00'53		4338 Dec 30 22:17	0° <b>≈</b>	
retrograde	4338 Jan 21 03:08	17° <b>≈</b> 35′05		retrograde	4339 Jan 04 23:44	1° <b>≈</b> 49'57	
asc. node	4338 Jan 21 22:12	17° <b>≈</b> 31'39		asc. node	4339 Jan 08 19:14	0° <b>≈</b> 32'50	
evening set	4338 Jan 25 05:06	16° <b>≈</b> 00'39		evening set	4339 Jan 09 12:45	29° <b>る</b> 59'49	
inferior conj	4338 Jan 30 13:27	9° <b>≈</b> 48'08	2°35'21		4339 Jan 09 12:39	30°Ŗる	
minimum elong	4338 Jan 30 10:59	9° <b>≈</b> 56'38	2°34'39	inferior conj	4339 Jan 14 21:10	23° <b>る</b> 38'53	1°56'21
min. Earth dist.	4338 Jan 30 23:19	9° <b>≈</b> 14'07	0.67735 AU	minimum elong	4339 Jan 14 18:56	23° <b>る</b> 46'39	1°55'35
morning rise	4338 Feb 04 16:42	3° <b>≈</b> 35'12		min. Earth dist.	4339 Jan 14 19:19	23° <b>る</b> 45'19	0.68024 AU
direct	4338 Feb 10 00:51	1° <b>≈</b> 14'17		morning rise	4339 Jan 20 01:00	17° <b>る</b> 28'32	
morning max el	4338 Feb 20 17:54	7° <b>≈</b> 37'00	23°45'16	direct	4339 Jan 24 18:20	15° <b>る</b> 29'49	
desc. node	4338 Feb 27 18:05	15° <b>≈</b> 40'41		morning max el	4339 Feb 03 05:08	21° <b>る</b> 03'25	22°16'51
	4338 Mar 10 05:08	0° <b>∀</b>			4339 Feb 10 20:08	0° <b>≈</b>	
morning set	4338 Mar 28 04:16	28° <b>ℋ</b> 22'16		desc. node	4339 Feb 14 15:06	5° <b>≈</b> 04'14	
	4338 Mar 29 03:04	$0^{\circ}\mathbf{\Upsilon}$			4339 Mar 03 11:38	0° <b>∀</b>	
max. Earth dist.	4338 Apr 01 01:14	5° <b>Y</b> 06′03	1.38654 AU	morning set	4339 Mar 08 15:08	8° <b>升</b> 12′29	
	•			max. Earth dist.	4339 Mar 13 22:21	16° <b>¥</b> 58'29	1.40830 AU
superior conj	4338 Apr 08 10:14	18° <b>Ƴ</b> 34'39	-1°38'34		4339 Mar 21 10:32	0° <b>Υ</b>	
minimum elong	4338 Apr 08 15:02	18° <b>Ƴ</b> 57'18					
S	4338 Apr 14 08:49	0°8		superior conj	4339 Mar 21 17:05	0° <b>Y</b> 29'16	-1°58'46
evening rise	4338 Apr 17 13:03	6° <b>8</b> 12'20		minimum elong	4339 Mar 21 21:11	0° <b>Υ</b> 47'35	
asc. node	4338 Apr 19 21:30	10° <b>8</b> 45'57		evening rise	4339 Mar 31 23:34	19° <b>Υ</b> 24'30	-
	4338 May 01 12:07	0° <b>Ⅱ</b>		asc. node	4339 Apr 06 18:33	0° <b>8</b> 04'57	
evening max el	4338 May 03 21:32	2° <b>I</b> I38'22	18°49'24		4339 Apr 06 17:27	0°8	
retrograde	4338 May 12 04:02	6° <b>∏</b> 41'33	·/ <del>-</del> ·	evening max el	4339 Apr 17 04:12	15° <b>8</b> 16'32	18°18'13
evening set	4338 May 14 07:22	6° <b>Ⅱ</b> 26'19		retrograde	4339 Apr 24 08:47	18° <b>8</b> 51'39	
inferior conj	4338 May 22 06:42	2° <b>I</b> 106'43	1°15'41	evening set	4339 Apr 26 18:48	18° <b>8</b> 28'16	
minimum elong	4338 May 22 00:42	2° <b>I</b> 100'43	1°14'45	inferior conj	4339 May 03 23:04	13° <b>8</b> 48'36	2°30'22
Ciong	4338 May 25 04:43	30°R <b>8</b>		minimum elong	4339 May 04 02:40	13° <b>8</b> 40'57	
min. Earth dist.	4338 May 25 11:57	. –	0.57086 AU	min. Earth dist.	4339 May 07 09:26	_	0.59123 AU
Darm dist.	1550 May 25 11.57	27 04/24	3.5 , 300 AU	mm. Darm dist.	1557 May 07 07.20	10 00,440	3.37123 AU

morning rise	4339 May 11 07:39	8° <b>8</b> 11'20		min. Earth dist.	4340 Apr 18 14:07	23° <b>Y</b> '04'21	0.61316 AU
desc. node	4339 May 13 14:20	7° <b>8</b> 08'18		morning rise	4340 Apr 22 02:30	20°Υ11'28	
direct	4339 May 17 13:57	6° <b>8</b> 25'09		direct	4340 Apr 28 20:51	17° <b>Y</b> 52'19	
morning max el	4339 May 31 23:16	14° <b>8</b> 13'14	27°17'54	desc. node	4340 Apr 29 11:21	17° <b>Y</b> 53'23	
	4339 Jun 13 14:39	$\Pi$ $^{\circ}0$		morning max el	4340 May 13 02:01	25° <b>Y</b> 50'03	27°49'55
	4339 Jun 30 12:30	0° <b>©</b>		-	4340 May 16 22:44	$9^{\circ}$ 8	
morning set	4339 Jul 01 20:38	2°5946'33			4340 Jun 06 02:24	$\Pi^{\circ}0$	
asc. node	4339 Jul 03 17:48	6°545'30		morning set	4340 Jun 15 00:58	17° <b>Ⅱ</b> 12'36	
				asc. node	4340 Jun 19 14:52	26° <b>Ⅱ</b> 52'06	
superior conj	4339 Jul 08 22:52	18° <b>©</b> 07'48	0°52'16	max. Earth dist.	4340 Jun 20 22:53	29° <b>Ⅱ</b> 45'37	1.32189 AU
minimum elong	4339 Jul 08 20:51	17° <b>©</b> 56'38	0°51'51		4340 Jun 21 01:32	$0$ $\circ$ $\odot$	
max. Earth dist.	4339 Jul 08 12:56	17° <b>©</b> 13'02	1.31988 AU				
	4339 Jul 14 08:52	$0$ $\circ$ $\Omega$		superior conj	4340 Jun 22 09:30	2° <b>9</b> 54'38	0°28'45
evening rise	4339 Jul 15 18:35	3° <b>£</b> 00'06		minimum elong	4340 Jun 22 08:14	2° <b>5</b> 47'39	0°28'28
	4339 Jul 30 05:05	O° <b>m</b> y		evening rise	4340 Jun 29 05:46	17° <b>5</b> 49'13	
desc. node	4339 Aug 09 13:37	14° <b>m</b> 13'49			4340 Jul 05 05:14	$0^{\circ}\Omega$	
evening max el	4339 Aug 13 13:12	18° <b>m</b> 24'50	26°13'01	evening max el	4340 Jul 25 05:27	29° <b>Ω</b> 19'59	24°52'08
retrograde	4339 Aug 27 12:31	25° m 33'55			4340 Jul 25 22:31	0° <b>™</b>	
evening set	4339 Sep 03 00:18	23° m/50'57		desc. node	4340 Jul 26 10:38	0° <b>™</b> 27'21	
min. Earth dist.	4339 Sep 07 02:10		0.59154 AU	retrograde	4340 Aug 08 03:50	6° Mp 22′35	
inferior conj	4339 Sep 10 08:29	18° <b>m</b> 47'50	-4°56'02	evening set	4340 Aug 13 12:01	5°Mp17'58	
minimum elong	4339 Sep 10 12:58	18° <b>m</b> 39'18	4°55'26	min. Earth dist.	4340 Aug 18 16:57	•	0.57190 AU
morning rise	4339 Sep 18 03:51	14° <b>m</b> ) 17'43		inferior conj	4340 Aug 21 14:16	0° <b>™</b> 37′28	
direct	4339 Sep 20 13:26	13° <b>m</b> 58'00		minimum elong	4340 Aug 21 14:04	0° <b>т</b> 37'48	5°12'55
morning max el	4339 Sep 28 11:50	17° <b>m</b> )47'49	18°26'01		4340 Aug 22 13:05	30°R <b>Ω</b>	
asc. node	4339 Sep 29 17:01	19° <b>m</b> 02'43		morning rise	4340 Aug 29 18:33	26° <b>Ω</b> 29'14	
	4339 Oct 07 07:14	0∘ <b>⊽</b>		direct	4340 Sep 01 08:43	26° <b>Ω</b> 10′08	
morning set	4339 Oct 14 12:27	13° <b>≏</b> 21'08			4340 Sep 09 23:56	0° <b>m</b>	
	4339 Oct 23 06:42	0°M₊		morning max el	4340 Sep 10 12:04	0° <b>™</b> 27'47	19°15'09
				asc. node	4340 Sep 15 14:04	6° Mp 29'05	
superior conj	4339 Oct 23 13:05	0°M29'30	1°22'53	morning set	4340 Sep 27 12:27	27° m/42'15	
minimum elong	4339 Oct 23 16:40	0°M46'03	1°22'31		4340 Sep 28 16:04	0∘ <b>⊽</b>	
max. Earth dist.	4339 Oct 31 00:19	13°M50'26	1.40390 AU		1210 0 + 05 16 20	120 0 52152	1025145
evening rise	4339 Nov 04 09:48	21°M16'27		superior conj	4340 Oct 05 16:20	13° <b>£</b> 53'52	1°37'47
desc. node	4339 Nov 05 12:52	23°M.08'04 0°⊀		minimum elong	4340 Oct 05 18:25	14° <b>Ω</b> 04'02	1°37'39
	4339 Nov 09 19:10 4339 Nov 30 14:24	0°る		max. Earth dist.	4340 Oct 12 04:47 4340 Oct 14 07:45	26° <b>≙</b> 10'40 0° <b>I</b> L	1.38298 AU
evening max el	4339 Nov 30 14.24 4339 Dec 09 00:49	0 3 9° <b>る</b> 45'57	23°35'57	ovanina rica	4340 Oct 14 07.43 4340 Oct 15 23:27	2°M55'00	
retrograde	4339 Dec 19 17:22	9 <b>3</b> 4337 16° <b>る</b> 04'55	23 33 37	evening rise desc. node	4340 Oct 13 23.27 4340 Oct 22 09:55	13°M46'19	
evening set	4339 Dec 19 17:22 4339 Dec 24 18:56	10 00433		uese. Houe	4340 Nov 01 22:48	0° <b>⊼</b>	
asc. node	4339 Dec 26 16:17	13° <b>ろ</b> 06'26		evening max el	4340 Nov 20 13:39	23° <b>×</b> <sup>7</sup> 27'52	24°53'53
min. Earth dist.	4339 Dec 29 16:07	8° <b>ප</b> 17'21	0.67950 AU	evening max er	4340 Nov 30 05:46	0°る	21 33 33
inferior conj	4339 Dec 30 04:54	7° <b>る</b> 33'39	1°10'20	retrograde	4340 Dec 02 06:56	0° <b>ට</b> 16'09	
minimum elong	4339 Dec 30 03:20	7° <b>る</b> 38'58	1°09'44	renegrade	4340 Dec 04 05:53	30°R. <b>✓</b>	
morning rise	4340 Jan 04 11:43	1° <b>る</b> 27'36		evening set	4340 Dec 07 22:04	27° <b>×</b> 755'17	
5 5	4340 Jan 07 09:08	30°R <b>✓</b>		min. Earth dist.	4340 Dec 12 11:18	22° <b>х</b> 47'41	0.67527 AU
direct	4340 Jan 08 14:56	29° <b>х</b> 51'37		asc. node	4340 Dec 12 13:17	22° <b>х</b> 41'09	
	4340 Jan 09 21:34	0°ප		inferior conj	4340 Dec 13 10:50	21° <b>х</b> 30′05	0°18'20
morning max el	4340 Jan 16 22:14	4° <b>ප</b> 39'17	20°55'24	minimum elong	4340 Dec 13 10:23	21° <b>х</b> ³31'35	0°18'09
desc. node	4340 Feb 01 12:07	24° <b>පි</b> 56'16		morning rise	4340 Dec 18 22:51	15° <b>₹</b> 30'34	
	4340 Feb 04 22:36	0° <b>≈</b>		direct	4340 Dec 22 13:25	14° <b>₹</b> 15'40	
morning set	4340 Feb 15 22:45	16° <b>≈</b> 47'33		morning max el	4340 Dec 29 23:08	18° <b>∡</b> 26′32	19°46'16
max. Earth dist.	4340 Feb 24 01:35	29° <b>≈</b> 43'52	1.42793 AU		4341 Jan 08 03:46	5°0	
	4340 Feb 24 05:33	0° <b>)</b> €		greatest brilliancy	4341 Jan 12 04:30	5° <b>る</b> 51'02	-0.7m
				desc. node	4341 Jan 18 09:09	15° <b>る</b> 09'14	
superior conj	4340 Mar 02 01:19	11° <b>)</b> 19'48	-2°07'58	morning set	4341 Jan 24 18:46	24° <b>る</b> 57'42	
minimum elong	4340 Mar 02 01:52	11° <b>∺</b> 22'06	2°07'57		4341 Jan 28 00:52	0° <b>≈</b>	
	4340 Mar 12 18:12	$0^{\circ}$ $\Upsilon$		max. Earth dist.	4341 Feb 05 12:39	13° <b>≈</b> 20′04	1.44289 AU
evening rise	4340 Mar 13 19:21	1° <b>Y</b> 52'16					
asc. node	4340 Mar 23 15:36	18° <b>Ƴ</b> 57'15		superior conj	4341 Feb 10 07:51	21° <b>≈</b> 01'44	-2°00'41
evening max el	4340 Mar 30 15:33	28° <b>Ƴ</b> 18'40	18°06'51	minimum elong	4341 Feb 10 02:22	20° <b>≈</b> 39'34	2°00'24
	4340 Apr 01 14:52	$9^{\circ}$ 8			4341 Feb 15 19:33	0° <b>)</b> €	
retrograde	4340 Apr 06 05:43	1° <b>8</b> 41'37		evening rise	4341 Feb 23 20:04	13° <b>¥</b> 27'47	
evening set	4340 Apr 08 22:09	1° <b>8</b> 07'50			4341 Mar 05 16:34	0° <b>Υ</b>	
	4340 Apr 10 23:32	30° <b>ŖƳ</b>		asc. node	4341 Mar 10 12:37	7° <b>Ƴ</b> 14'43	
inferior conj	4340 Apr 15 10:49	26° <b>Y</b> 07'49	3°14'24	evening max el	4341 Mar 14 04:23	11° <b>Y</b> 36'30	18°14'30
minimum elong	4340 Apr 15 13:17	26° <b>Ƴ</b> 01'46	3°14'02	retrograde	4341 Mar 20 14:26	15° <b>Ƴ</b> 01'40	

. ,	42.41.34 22 12.55	1.40001.000		. 1	42.42.34 04.06.52	2001/42/20	
evening set	4341 Mar 23 12:55	14°Υ16'09	2022121	retrograde	4342 Mar 04 06:53	28°\(\frac{1}{4}\)3'28	
inferior conj	4341 Mar 29 13:56	8° <b>Y</b> 56'39	3°33'31	evening set	4342 Mar 07 11:34	27° <b>)</b> (45'27	
minimum elong	4341 Mar 29 14:41	8° <b>Y</b> 54'36	3°33'28	inferior conj	4342 Mar 13 04:31	22° <b>)</b> 08'01	3°33'41
min. Earth dist.	4341 Apr 01 03:37	6° <b>Y</b> 06'55	0.63380 AU	minimum elong	4342 Mar 13 03:43	22° <b>∺</b> 10′25	3°33'38
morning rise	4341 Apr 04 15:25	2° <b>Y</b> 49'47		min. Earth dist.	4342 Mar 15 02:32	19° <b>∺</b> 48′29	0.65125 AU
direct	4341 Apr 11 12:33	0° <b>Ƴ</b> 08'14		morning rise	4342 Mar 18 19:23	15° <b>¥</b> 55'56	
desc. node	4341 Apr 16 08:22	1° <b>Y</b> 16'54		direct	4342 Mar 25 11:30	13° <b>)</b> €05'41	
morning max el	4341 Apr 25 09:30	8° <b>Ƴ</b> 06'39	27°44'21	desc. node	4342 Apr 03 05:23	16° <b>)</b> 48′51	
	4341 May 12 06:23	$8^{\circ 0}$		morning max el	4342 Apr 07 19:24	20° <b>升</b> 54'55	27°04'51
	4341 May 29 07:28	$\Pi^{\circ}0$			4342 Apr 15 16:00	$0^{\circ}\mathbf{\Upsilon}$	
morning set	4341 May 29 22:40	1° <b>Ⅱ</b> 15'40			4342 May 05 09:27	0°8	
max. Earth dist.	4341 Jun 04 03:24	11° <b>Ⅱ</b> 58'25	1.32825 AU	morning set	4342 May 13 10:51	14° <b>8</b> 47'14	
asc. node	4341 Jun 06 11:53	16° <b>Ⅱ</b> 59'56		max. Earth dist.	4342 May 17 22:51	23° <b>8</b> 42'09	1.33917 AU
					4342 May 21 00:13	0°II	
superior conj	4341 Jun 06 17:05	17° <b>Ⅱ</b> 27'55	0°02'17		13 12 May 21 00.13	v <b>1</b>	
minimum elong	4341 Jun 06 16:58	17° <b>II</b> 27'33	0°02'15	superior conj	4342 May 21 19:37	1° <b>Ⅱ</b> 41'31	0°26'18
behind sun begin	4341 Jun 06 11:43	16° <b>∏</b> 59'02	0 02 13	minimum elong	4342 May 21 21:00	1° <b>П</b> 48'46	
_					· · · · · · · · · · · · · · · · · · ·		0 2001
behind sun end	4341 Jun 06 22:14	17° <b>I</b> 55'37		asc. node	4342 May 24 08:55	7° <b>Ⅱ</b> 05'12	
	4341 Jun 12 12:16	0°©		evening rise	4342 May 29 04:09	17° <b>Ⅱ</b> 15'04	
evening rise	4341 Jun 13 17:34	2° <b>©</b> 36'13			4342 Jun 04 13:03	0°€	
	4341 Jun 28 17:25	$0^{\circ}\Omega$		evening max el	4342 Jun 18 11:35	20°514'49	21°41'21
evening max el	4341 Jul 06 18:23	9° <b>Ω</b> 46'02	23°16'17	desc. node	4342 Jun 30 04:39	26°\$22'06	
desc. node	4341 Jul 13 07:40	14° <b>Ω</b> 41'21		retrograde	4342 Jun 30 21:54	26° <b>©</b> 23'19	
retrograde	4341 Jul 20 06:17	16° <b>Ω</b> 30′53		evening set	4342 Jul 03 11:14	26° <b>©</b> 08'32	
evening set	4341 Jul 24 02:23	15° <b>Ω</b> 58'42		inferior conj	4342 Jul 12 19:51	22° <b>©</b> 06'55	-3°31'21
min. Earth dist.	4341 Jul 31 03:48	12° <b>Ω</b> 45'30	0.55660 AU	minimum elong	4342 Jul 12 11:19	22°518'50	3°28'52
inferior conj	4341 Aug 02 00:08	11° <b>Ω</b> 40'32	-4°47'34	min. Earth dist.	4342 Jul 12 14:08	22°©14'54	0.54875 AU
minimum elong	4341 Aug 01 17:50	11° <b>Ω</b> 49'49	4°46'36	morning rise	4342 Jul 21 12:40	18° <b>©</b> 14'30	
morning rise	4341 Aug 10 11:37	7° <b>Ω</b> 47'47		direct	4342 Jul 24 19:56	17°950'42	
direct	4341 Aug 13 09:06	7° <b>Ω</b> 27'31		morning max el	4342 Aug 06 01:49	23°935'52	21°56'24
morning max el	4341 Aug 24 00:48	12° <b>Ω</b> 24'29	20°26'03	morning max ci	4342 Aug 11 18:16	0°Ω	21 30 24
asc. node	-	$24^{\circ}\Omega 44'30$	20 20 03	asc. node	-	13° <b>Ω</b> 37'22	
asc. node	4341 Sep 02 11:06				4342 Aug 20 08:09		
	4341 Sep 05 11:17	0° m/y		morning set	4342 Aug 27 03:59	27° <b>Ω</b> 08′20	
morning set	4341 Sep 11 18:22	12° <b>m</b> 20'04			4342 Aug 28 12:41	0° <b>m</b>	
	12.11.0	250 255100	1040145		12.12.0	100 2000	104001
superior conj	4341 Sep 19 08:12	27° <b>m</b> 55'09	1°43'47	superior conj		12° m 22'20	1°42'21
	•				4342 Sep 03 08:55	~	
minimum elong	4341 Sep 19 08:40	27° m 57'27	1°43'47	minimum elong	4342 Sep 03 08:33 4342 Sep 03 08:00	12° m 17'34	1°42'19
minimum elong	•				•	~	
minimum elong max. Earth dist.	4341 Sep 19 08:40	27° m 57′27 0° <u> </u>		minimum elong	4342 Sep 03 08:00	12° m 17'34	1°42'19
_	4341 Sep 19 08:40 4341 Sep 20 08:55	27° m 57′27 0° <u> </u>	1°43'47	minimum elong max. Earth dist.	4342 Sep 03 08:00 4342 Sep 07 01:32	12° m/ 17'34 20° m/ 01'04	1°42'19
max. Earth dist.	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40	27° № 57'27 0° Ω 8° Ω 06'47	1°43'47	minimum elong max. Earth dist.	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42	12° m 17'34 20° m 01'04 28° m 52'19	1°42'19
max. Earth dist.	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49	27° ന 57'27 0° മ 8° മ06'47 15° മ30'28	1°43'47	minimum elong max. Earth dist. evening rise	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58	12° m 17'34 20° m 01'04 28° m 52'19 0° •	1°42'19
max. Earth dist.	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52	27° ന 57'27 0° മ 8° മ06'47 15° മ30'28 0° സ	1°43'47	minimum elong max. Earth dist. evening rise desc. node	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48	12° m 17'34 20° m 01'04 28° m 52'19 0° <u>a</u> 24° <u>a</u> 22'11	1°42'19 1.34645 AU
max. Earth dist. evening rise desc. node	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 09 06:57 4341 Oct 27 12:47	27° ₩ 57'27 0° Ω 8° Ω 06'47 15° Ω 30'28 0° M 4° M 12'57 0° 🗷	1°43'47 1.36322 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47	12° m 17'34 20° m 01'04 28° m 52'19 0° <u>a</u> 24° <u>a</u> 22'11 0° m 20° m 47'20	1°42'19 1.34645 AU
max. Earth dist. evening rise desc. node evening max el	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 09 06:57 4341 Oct 27 12:47 4341 Nov 03 02:13	27° \$\mathbf{m} 57'27 0° \odols \\ 8° \odols 06'47 15° \odols 30'28 0° \mathbf{m} \\ 4° \mathbf{m} 12'57 0° \nabla \\ 7° \nabla 10'49	1°43'47	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40	12° m 17'34 20° m 01'04 28° m 52'19 0° £ 24° £22'11 0° M 20° M 47'20 28° M 03'58	1°42'19 1.34645 AU
max. Earth dist. evening rise desc. node evening max el retrograde	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 09 06:57 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31	27° m 57'27 0° <u>a</u> 8° <u>a</u> 06'47 15° <u>a</u> 30'28 0° m 4° m 12'57 0° <del>x</del> 7° <del>x</del> 10'49 14° <del>x</del> 18'05	1°43'47 1.36322 AU	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51	12° m 17'34 20° m 01'04 28° m 52'19 0° £ 24° £22'11 0° M 20° M47'20 28° M 03'58 25° M 23'27	1°42'19 1.34645 AU 26°54'58
max. Earth dist. evening rise  desc. node  evening max el retrograde evening set	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 09 06:57 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24	27° m 57'27 0° <u>a</u> 8° <u>a</u> 06'47 15° <u>a</u> 30'28 0° m 4° m 12'57 0° <del>x</del> 7° <del>x</del> 10'49 14° <del>x</del> 18'05 11° <del>x</del> 44'50	1°43'47 1.36322 AU 26°02'44	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist.	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12	12° m 17'34 20° m 01'04 28° m 52'19 0° £ 24° £22'11 0° M 20° M 47'20 28° M 03'58 25° M 23'27 21° M 26'58	1°42'19 1.34645 AU 26°54'58 0.65625 AU
max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist.	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 09 06:57 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24 4341 Nov 26 02:27	27° m 57'27 0° <u>a</u> 8° <u>a</u> 06'47 15° <u>a</u> 30'28 0° m 4° m 12'57 0° <del>x</del> 7° <del>x</del> 10'49 14° <del>x</del> 18'05 11° <del>x</del> 44'50 7° <del>x</del> 12'32	1°43'47 1.36322 AU 26°02'44 0.66752 AU	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12 4342 Nov 11 09:43	12° m 17'34 20° m 01'04 28° m 52'19 0° £ 24° £ 22'11 0° m 20° m 47'20 28° m 03'58 25° m 23'27 21° m 26'58 19° m 12'45	1°42'19 1.34645 AU 26°54'58 0.65625 AU -1°39'17
max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 09 06:57 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24 4341 Nov 26 02:27 4341 Nov 27 13:08	27° \$\mathbf{m}\$ 57'27 0° \omega 8° \omega 06'47 15° \omega 30'28 0° \$\mathbf{m}\$ 4° \$\mathbf{m}\$ 12'57 0° \$\star* 7° \$\tain 10'49 14° \$\tain 18'05 11° \$\tain 44'50 7° \$\tain 12'32 5° \$\tain 24'31	1°43'47 1.36322 AU 26°02'44 0.66752 AU -0°38'39	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12 4342 Nov 11 09:43 4342 Nov 11 12:30	12° m 17'34 20° m 01'04 28° m 52'19 0° <u>a</u> 24° <u>a</u> 22'11 0° m 20° m 47'20 28° m 03'58 25° m 23'27 21° m 26'58 19° m 12'45 19° m 04'41	1°42'19 1.34645 AU 26°54'58 0.65625 AU
max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24 4341 Nov 26 02:27 4341 Nov 27 13:08 4341 Nov 27 14:10	27° m 57'27 0° <u>a</u> 8° <u>a</u> 06'47 15° <u>a</u> 30'28 0° m 4° m 12'57 0° <del>x</del> 7° <del>x</del> 10'49 14° <del>x</del> 18'05 11° <del>x</del> 44'50 7° <del>x</del> 12'32 5° <del>x</del> 24'31 5° <del>x</del> 21'18	1°43'47 1.36322 AU 26°02'44 0.66752 AU	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12 4342 Nov 11 09:43 4342 Nov 11 12:30 4342 Nov 16 07:21	12° m 17'34 20° m 01'04 28° m 52'19 0° <u>a</u> 24° <u>a</u> 22'11 0° m 20° m 47'20 28° m 03'58 25° m 23'27 21° m 26'58 19° m 12'45 19° m 04'41 14° m 21'12	1°42'19 1.34645 AU 26°54'58 0.65625 AU -1°39'17
max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 09 06:57 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24 4341 Nov 26 02:27 4341 Nov 27 13:08 4341 Nov 27 14:10 4341 Nov 29 10:18	27° m 57'27 0° <u>a</u> 8° <u>a</u> 06'47 15° <u>a</u> 30'28 0° m 4° m 12'57 0° <del>x</del> 7° <del>x</del> 10'49 14° <del>x</del> 18'05 11° <del>x</del> 44'50 7° <del>x</del> 12'32 5° <del>x</del> 24'31 5° <del>x</del> 21'18 3° <del>x</del> 07'42	1°43'47 1.36322 AU 26°02'44 0.66752 AU -0°38'39	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12 4342 Nov 11 09:43 4342 Nov 11 12:30 4342 Nov 16 07:21 4342 Nov 17 14:01	12° m 17'34 20° m 01'04 28° m 52'19 0° <u>a</u> 24° <u>a</u> 22'11 0° m 20° m 47'20 28° m 03'58 25° m 23'27 21° m 26'58 19° m 12'45 19° m 04'41 14° m 21'12 13° m 34'25	1°42'19 1.34645 AU 26°54'58 0.65625 AU -1°39'17
max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24 4341 Nov 26 02:27 4341 Nov 27 13:08 4341 Nov 27 14:10 4341 Nov 29 10:18 4341 Dec 02 16:39	27° m 57'27 0° Ω 8° Ω 06'47 15° Ω 30'28 0° M 4° M 12'57 0° ¾ 7° ¾ 10'49 14° ¾ 18'05 11° ¾ 44'50 7° ¾ 12'32 5° ¾ 24'31 5° ¾ 21'18 3° ¾ 07'42 30° RML	1°43'47 1.36322 AU 26°02'44 0.66752 AU -0°38'39	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12 4342 Nov 11 09:43 4342 Nov 11 09:43 4342 Nov 16 07:21 4342 Nov 17 14:01 4342 Nov 20 08:54	12° m 17'34 20° m 01'04 28° m 52'19 0° <u>a</u> 24° <u>a</u> 22'11 0° m 20° m 47'20 28° m 03'58 25° m 23'27 21° m 26'58 19° m 12'45 19° m 04'41 14° m 21'12 13° m 34'25 12° m 51'55	1°42'19 1.34645 AU 26°54'58 0.65625 AU -1°39'17 1°38'08
max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node  morning rise	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24 4341 Nov 27 13:08 4341 Nov 27 14:10 4341 Nov 29 10:18 4341 Dec 02 16:39 4341 Dec 03 08:23	27° m 57'27 0° <u>a</u> 8° <u>a</u> 06'47 15° <u>a</u> 30'28 0° m 4° m 12'57 0° <del>x</del> 7° <del>x</del> 10'49 14° <del>x</del> 18'05 11° <del>x</del> 44'50 7° <del>x</del> 12'32 5° <del>x</del> 22'31 5° <del>x</del> 22'18 3° <del>x</del> 07'42 30° RM 29° m 34'08	1°43'47 1.36322 AU 26°02'44 0.66752 AU -0°38'39	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12 4342 Nov 11 09:43 4342 Nov 11 12:30 4342 Nov 16 07:21 4342 Nov 17 14:01 4342 Nov 20 08:54 4342 Nov 26 21:21	12° m 17'34 20° m 01'04 28° m 52'19 0° <u>a</u> 24° <u>a</u> 22'11 0° m 20° m 47'20 28° m 03'58 25° m 23'27 21° m 26'58 19° m 12'45 19° m 04'41 14° m 21'12 13° m 34'25 12° m 51'55 16° m 22'44	1°42'19 1.34645 AU 26°54'58 0.65625 AU -1°39'17
max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 09 06:57 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24 4341 Nov 27 13:08 4341 Nov 27 14:10 4341 Nov 29 10:18 4341 Dec 02 16:39 4341 Dec 03 08:23 4341 Dec 06 12:04	27° m 57'27 0° <u>a</u> 8° <u>a</u> 06'47 15° <u>a</u> 30'28 0° m. 4° m 12'57 0° <del>x</del> 7° <del>x</del> 10'49 14° <del>x</del> 18'05 11° <del>x</del> 44'50 7° <del>x</del> 12'32 5° <del>x</del> 22'31 5° <del>x</del> 22'18 3° <del>x</del> 07'42 30° R m. 29° m 34'08 28° m 37'17	1°43'47 1.36322 AU 26°02'44 0.66752 AU -0°38'39	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12 4342 Nov 11 09:43 4342 Nov 11 09:43 4342 Nov 16 07:21 4342 Nov 17 14:01 4342 Nov 20 08:54	12° m 17'34 20° m 01'04 28° m 52'19 0° <u>a</u> 24° <u>a</u> 22'11 0° m 20° m 47'20 28° m 03'58 25° m 23'27 21° m 26'58 19° m 12'45 19° m 04'41 14° m 21'12 13° m 34'25 12° m 51'55 16° m 22'44 0° <del>2</del>	1°42'19 1.34645 AU 26°54'58 0.65625 AU -1°39'17 1°38'08
max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node  morning rise	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24 4341 Nov 27 13:08 4341 Nov 27 14:10 4341 Nov 29 10:18 4341 Dec 02 16:39 4341 Dec 03 08:23	27° m 57'27 0° <u>a</u> 8° <u>a</u> 06'47 15° <u>a</u> 30'28 0° m 4° m 12'57 0° <del>x</del> 7° <del>x</del> 10'49 14° <del>x</del> 18'05 11° <del>x</del> 44'50 7° <del>x</del> 12'32 5° <del>x</del> 22'31 5° <del>x</del> 22'18 3° <del>x</del> 07'42 30° RM 29° m 34'08	1°43'47 1.36322 AU 26°02'44 0.66752 AU -0°38'39	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12 4342 Nov 11 09:43 4342 Nov 11 12:30 4342 Nov 16 07:21 4342 Nov 17 14:01 4342 Nov 20 08:54 4342 Nov 26 21:21	12° m 17'34 20° m 01'04 28° m 52'19 0° <u>a</u> 24° <u>a</u> 22'11 0° m 20° m 47'20 28° m 03'58 25° m 23'27 21° m 26'58 19° m 12'45 19° m 04'41 14° m 21'12 13° m 34'25 12° m 51'55 16° m 22'44	1°42'19 1.34645 AU 26°54'58 0.65625 AU -1°39'17 1°38'08
max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node  morning rise	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 09 06:57 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24 4341 Nov 27 13:08 4341 Nov 27 14:10 4341 Nov 29 10:18 4341 Dec 02 16:39 4341 Dec 03 08:23 4341 Dec 06 12:04	27° m 57'27 0° <u>a</u> 8° <u>a</u> 06'47 15° <u>a</u> 30'28 0° m. 4° m 12'57 0° <del>x</del> 7° <del>x</del> 10'49 14° <del>x</del> 18'05 11° <del>x</del> 44'50 7° <del>x</del> 12'32 5° <del>x</del> 22'31 5° <del>x</del> 22'18 3° <del>x</del> 07'42 30° R m. 29° m 34'08 28° m 37'17	1°43'47 1.36322 AU 26°02'44 0.66752 AU -0°38'39	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12 4342 Nov 11 09:43 4342 Nov 11 12:30 4342 Nov 16 07:21 4342 Nov 17 14:01 4342 Nov 20 08:54 4342 Nov 26 21:21 4342 Dec 06 21:10	12° m 17'34 20° m 01'04 28° m 52'19 0° <u>a</u> 24° <u>a</u> 22'11 0° m 20° m 47'20 28° m 03'58 25° m 23'27 21° m 26'58 19° m 12'45 19° m 04'41 14° m 21'12 13° m 34'25 12° m 51'55 16° m 22'44 0° <del>2</del>	1°42'19 1.34645 AU 26°54'58 0.65625 AU -1°39'17 1°38'08
max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node  morning rise direct	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 09 06:57 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24 4341 Nov 27 13:08 4341 Nov 27 14:10 4341 Nov 29 10:18 4341 Dec 02 16:39 4341 Dec 03 08:23 4341 Dec 06 12:04 4341 Dec 10 11:29	27° m 57'27 0° <u>a</u> 8° <u>a</u> 06'47 15° <u>a</u> 30'28 0° m 4° m 12'57 0° <del>x</del> 7° <del>x</del> 10'49 14° <del>x</del> 18'05 11° <del>x</del> 44'50 7° <del>x</del> 12'32 5° <del>x</del> 24'31 5° <del>x</del> 22'1'18 3° <del>x</del> 07'42 30° RM 29° m 34'08 28° m 37'17 0° <del>x</del> 7	1°43'47  1.36322 AU  26°02'44  0.66752 AU -0°38'39 0°38'13	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12 4342 Nov 11 09:43 4342 Nov 11 12:30 4342 Nov 16 07:21 4342 Nov 17 14:01 4342 Nov 20 08:54 4342 Nov 26 21:21 4342 Dec 06 21:10 4342 Dec 15 18:45	12° m 17'34 20° m 01'04 28° m 52'19 0° <u>n</u> 24° <u>n</u> 22'11 0° m 20° m 47'20 28° m 03'58 25° m 23'27 21° m 26'58 19° m 12'45 19° m 04'41 14° m 21'12 13° m 34'25 12° m 51'55 16° m 22'44 0° <del>7</del> 14° <del>7</del> 22'16	1°42'19 1.34645 AU 26°54'58 0.65625 AU -1°39'17 1°38'08
max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node  morning rise direct	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 09 06:57 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24 4341 Nov 27 13:08 4341 Nov 27 14:10 4341 Nov 29 10:18 4341 Dec 02 16:39 4341 Dec 03 08:23 4341 Dec 10 11:29 4341 Dec 13 07:31	27° \$\mathbf{m} 57'27 0° \omega 8° \omega 06'47 15° \omega 30'28 0° \$\mathbf{m}\$. 4° \$\mathbf{m} 12'57 0° \$\mathbf{n}\$. 7° \$\mathbf{n} 10'49 14° \$\mathbf{n} 18'05 11° \$\mathbf{n} 44'50 7° \$\mathbf{n} 12'32 5° \$\mathbf{n} 24'31 5° \$\mathbf{n} 22'18 30° \$\mathbf{m} 12'18 29° \$\mathbf{m} 34'08 28° \$\mathbf{m} 37'17 0° \$\mathbf{n}\$ 2° \$\mathbf{n} 22'48	1°43'47  1.36322 AU  26°02'44  0.66752 AU -0°38'39 0°38'13	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12 4342 Nov 11 09:43 4342 Nov 11 12:30 4342 Nov 16 07:21 4342 Nov 17 14:01 4342 Nov 20 08:54 4342 Nov 26 21:21 4342 Dec 06 21:10 4342 Dec 15 18:45 4342 Dec 23 03:13	12° m 17'34 20° m 01'04 28° m 52'19 0° <u>n</u> 24° <u>n</u> 22'11 0° m 20° m 47'20 28° m 03'58 25° m 23'27 21° m 26'58 19° m 12'45 19° m 04'41 14° m 21'12 13° m 34'25 12° m 51'55 16° m 22'44 0° <del>v</del> 14° <del>v</del> 22'16 26° <del>v</del> 14'56	1°42'19 1.34645 AU 26°54'58 0.65625 AU -1°39'17 1°38'08
max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node  morning rise direct morning max el	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 09 06:57 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24 4341 Nov 26 02:27 4341 Nov 27 13:08 4341 Nov 27 14:10 4341 Nov 29 10:18 4341 Dec 02 16:39 4341 Dec 03 08:23 4341 Dec 06 12:04 4341 Dec 10 11:29 4341 Dec 13 07:31 4342 Jan 01 16:08	27° \$\mathbf{m} 57'27 0° \( \omega\) 8° \( \omega\) 06'47 15° \( \omega\) 30'28 0° \( \omega\) 4° \$\mathbf{m} 12'57 0° \( \star*\) 7° \( \star*\) 10'49 14° \( \star*\) 18'05 11° \( \star*\) 44'50 7° \( \star*\) 12'32 5° \( \star*\) 24'31 5° \( \star*\) 21'18 3° \( \star*\) 07'42 30° \( \omega\) 29° \$\mathbf{m} 34'08 28° \$\mathbf{m} 37'17 0° \( \star*\) 2° \( \star*\) 22'48 0° \( \omega\)	1°43'47  1.36322 AU  26°02'44  0.66752 AU -0°38'39 0°38'13	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12 4342 Nov 11 09:43 4342 Nov 11 12:30 4342 Nov 16 07:21 4342 Nov 17 14:01 4342 Nov 20 08:54 4342 Nov 26 21:21 4342 Dec 06 21:10 4342 Dec 15 18:45 4342 Dec 23 03:13	12° m 17'34 20° m 01'04 28° m 52'19 0° <u>n</u> 24° <u>n</u> 22'11 0° m 20° m 47'20 28° m 03'58 25° m 23'27 21° m 26'58 19° m 12'45 19° m 04'41 14° m 21'12 13° m 34'25 12° m 51'55 16° m 22'44 0° <del>v</del> 14° <del>v</del> 22'16 26° <del>v</del> 14'56	1°42'19 1.34645 AU 26°54'58 0.65625 AU -1°39'17 1°38'08
max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node  morning rise direct  morning max el morning set	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 09 06:57 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24 4341 Nov 26 02:27 4341 Nov 27 13:08 4341 Nov 27 14:10 4341 Nov 29 10:18 4341 Dec 02 16:39 4341 Dec 03 08:23 4341 Dec 06 12:04 4341 Dec 10 11:29 4341 Dec 13 07:31 4342 Jan 01 16:08 4342 Jan 04 04:38 4342 Jan 05 06:11	27° m 57'27 0° 9 8° 906'47 15° 930'28 0° m 4° m 12'57 0° \$\frac{1}{2}' 10'49 14° \$\frac{1}{2}' 18'05 11° \$\frac{1}{2}' 44'50 7° \$\frac{1}{2}' 12'32 5° \$\frac{1}{2}' 21'18 3° \$\frac{1}{2}' 07'42 30° R m 29° m 34'08 28° m 37'17 0° \$\frac{1}{2}' 22'48 0° \$\frac{1}{2}' 35'56'58 5° \$\frac{1}{2}' 37'08	1°43'47  1.36322 AU  26°02'44  0.66752 AU -0°38'39 0°38'13	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set desc. node	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12 4342 Nov 11 09:43 4342 Nov 11 12:30 4342 Nov 16 07:21 4342 Nov 17 14:01 4342 Nov 20 08:54 4342 Nov 26 21:21 4342 Dec 06 21:10 4342 Dec 15 18:45 4342 Dec 23 03:13 4342 Dec 25 11:35	12° ነው 17'34 20° ነው 01'04 28° ነው 52'19 0°	1°42'19 1.34645 AU 26°54'58 0.65625 AU -1°39'17 1°38'08 18°14'36
max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node  morning rise direct  morning max el morning set desc. node	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 09 06:57 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24 4341 Nov 26 02:27 4341 Nov 27 13:08 4341 Nov 27 14:10 4341 Nov 29 10:18 4341 Dec 02 16:39 4341 Dec 03 08:23 4341 Dec 06 12:04 4341 Dec 10 11:29 4341 Dec 13 07:31 4342 Jan 01 16:08 4342 Jan 04 04:38	27° \$\mathbf{m} 57'27 0° \omega 8° \omega 06'47 15° \omega 30'28 0° \$\mathbf{m}\$ 4° \$\mathbf{m} 12'57 0° \$\star* 7° \$\tail 10'49 14° \$\tail 18'05 11° \$\tail 44'50 7° \$\tail 12'32 5° \$\tail 22'118 3° \$\tail 07'42 30° \$\mathbf{m}\$ 29° \$\mathbf{m} 34'08 28° \$\mathbf{m} 37'17 0° \$\tail 2' \$\tail 22'48 0° \$\tail 3' \tail 56'58	1°43'47  1.36322 AU  26°02'44  0.66752 AU -0°38'39 0°38'13	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set desc. node	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12 4342 Nov 11 09:43 4342 Nov 11 12:30 4342 Nov 16 07:21 4342 Nov 17 14:01 4342 Nov 20 08:54 4342 Nov 20 08:54 4342 Dec 06 21:10 4342 Dec 15 18:45 4342 Dec 23 03:13 4342 Dec 25 11:35	12° ነ 17'34 20° ነ 10'104 28° ነ 52'19 0°	1°42'19 1.34645 AU 26°54'58 0.65625 AU -1°39'17 1°38'08 18°14'36
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max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node  morning rise direct  morning max el morning set desc. node max. Earth dist.	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 09 06:57 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24 4341 Nov 27 13:08 4341 Nov 27 14:10 4341 Nov 29 10:18 4341 Dec 02 16:39 4341 Dec 03 08:23 4341 Dec 06 12:04 4341 Dec 10 11:29 4341 Dec 10 11:29 4341 Dec 13 07:31 4342 Jan 01 16:08 4342 Jan 04 04:38 4342 Jan 05 06:11 4342 Jan 19 05:46	27° m 57'27 0° a 8° a 06'47 15° a 30'28 0° m 4° m 12'57 0° x 7° x 10'49 14° x 18'05 11° x 44'50 7° x 12'32 5° x 22'31 5° x 21'18 3° x 07'42 30° R m 29° m 34'08 28° m 37'17 0° x 2° x 22'48 0° 5 3° 556'58 5° 537'08 27° 531'48 29° 549'12 29° 512'38	1°43'47  1.36322 AU  26°02'44  0.66752 AU -0°38'39 0°38'13  18°52'17  1.45132 AU -1°33'46	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node  superior conj minimum elong max. Earth dist. evening rise	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12 4342 Nov 11 09:43 4342 Nov 11 12:30 4342 Nov 16 07:21 4342 Nov 17 14:01 4342 Nov 20 08:54 4342 Nov 20 08:54 4342 Nov 20 08:54 4342 Dec 06 21:10 4342 Dec 15 18:45 4342 Dec 23 03:13 4342 Dec 25 11:35  4342 Dec 30 19:43 4342 Dec 30 13:20 4343 Jan 02 01:09 4343 Jan 13 14:11 4343 Jan 16 01:49	12° m 17'34 20° m 01'04 28° m 52'19 0° 亞 24° 亞 22'11 0° m 20° m 47'20 28° m 03'58 25° m 23'27 21° m 26'58 19° m 12'45 19° m 04'41 14° m 21'12 13° m 34'25 12° m 51'55 16° m 22'44 0° ズ 14° ズ 22'16 26° ズ 14'56 0° 云 8° 云 27'17 8° 云 02'08 11° 云 57'21 0° ≈ 3° ≈ 52'37	1°42'19 1.34645 AU 26°54'58 0.65625 AU -1°39'17 1°38'08 18°14'36 -0°51'10 0°50'20 1.45238 AU
max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node  morning rise direct  morning max el morning set desc. node max. Earth dist.  superior conj minimum elong	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 09 06:57 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24 4341 Nov 27 13:08 4341 Nov 27 14:10 4341 Nov 27 14:10 4341 Nov 29 10:18 4341 Dec 02 16:39 4341 Dec 03 08:23 4341 Dec 06 12:04 4341 Dec 10 11:29 4341 Dec 10 11:29 4341 Dec 10 11:29 4341 Dec 10 11:29 4341 Dec 10 10:08 4342 Jan 01 16:08 4342 Jan 05 06:11 4342 Jan 19 05:46 4342 Jan 20 16:43 4342 Jan 20 07:25 4342 Jan 20 19:28	27° m 57'27 0° Ω 8° Ω 06'47 15° Ω 30'28 0° m. 4° m 12'57 0° ¾ 7° ¾ 10'49 14° ¾ 18'05 11° ¾ 44'50 7° ¾ 12'32 5° ¾ 24'31 5° ¾ 21'18 3° ¾ 07'42 30° R m. 29° m 34'08 28° m 37'17 0° ¾ 2° ¾ 22'48 0° ♂ 3° ♂ 56'58 5° ♂ 37'08 27° ♂ 31'48 29° ♂ 49'12 29° ♂ 12'38 0° ≈	1°43'47  1.36322 AU  26°02'44  0.66752 AU -0°38'39 0°38'13  18°52'17  1.45132 AU -1°33'46	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node  superior conj minimum elong max. Earth dist.	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12 4342 Nov 11 09:43 4342 Nov 11 09:43 4342 Nov 16 07:21 4342 Nov 17 14:01 4342 Nov 20 08:54 4342 Nov 20 08:54 4342 Nov 20 08:54 4342 Dec 06 21:10 4342 Dec 15 18:45 4342 Dec 23 03:13 4342 Dec 25 11:35  4342 Dec 30 19:43 4343 Jan 02 01:09 4343 Jan 13 14:11 4343 Jan 16 01:49 4343 Jan 27 19:03	12° m 17'34 20° m 01'04 28° m 52'19 0° 亞 24° 亞 22'11 0° m 20° M 47'20 28° M 03'58 25° M 23'27 21° M 26'58 19° M 12'45 19° M 04'41 14° M 21'12 13° M 34'25 12° M 51'55 16° M 22'44 0° ズ 14° ズ 22'16 26° ズ 14'56 0° 云 8° 云 27'17 8° 云 02'08 11° 云 57'21 0° ※ 3° ※ 52'37 22° ※ 02'33	1°42'19 1.34645 AU 26°54'58 0.65625 AU -1°39'17 1°38'08 18°14'36
max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node  morning rise direct  morning max el morning set desc. node max. Earth dist. superior conj	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 09 06:57 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24 4341 Nov 27 13:08 4341 Nov 27 14:10 4341 Nov 27 14:10 4341 Nov 29 10:18 4341 Dec 02 16:39 4341 Dec 03 08:23 4341 Dec 10 11:29 4342 Jan 01 16:08 4342 Jan 05 06:11 4342 Jan 20 16:43 4342 Jan 20 17:25 4342 Jan 20 19:28 4342 Feb 04 22:15	27° m 57'27 0° a 8° a 06'47 15° a 30'28 0° m 4° m 12'57 0° x 7° x 10'49 14° x 18'05 11° x 44'50 7° x 12'32 5° x 22'31 5° x 21'18 3° x 07'42 30° R m 29° m 34'08 28° m 37'17 0° x 2° x 22'48 0° 5 3° 556'58 5° 537'08 27° 531'48 29° 549'12 29° 512'38 0° ≈ 24° ≈ 06'50	1°43'47  1.36322 AU  26°02'44  0.66752 AU -0°38'39 0°38'13  18°52'17  1.45132 AU -1°33'46	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set desc. node  superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12 4342 Nov 11 09:43 4342 Nov 11 12:30 4342 Nov 16 07:21 4342 Nov 17 14:01 4342 Nov 20 08:54 4342 Nov 20 08:54 4342 Nov 20 08:54 4342 Dec 06 21:10 4342 Dec 15 18:45 4342 Dec 23 03:13 4342 Dec 25 11:35  4342 Dec 30 19:43 4343 Jan 02 01:09 4343 Jan 13 14:11 4343 Jan 16 01:49 4343 Jan 27 19:03 4343 Feb 02 04:20	12° m 17'34 20° m 01'04 28° m 52'19 0° 亞 24° 亞 22'11 0° m 20° M 47'20 28° M 03'58 25° M 23'27 21° M 26'58 19° M 12'45 19° M 04'41 14° M 21'12 13° M 34'25 12° M 51'55 16° M 22'44 0° ズ 14° ズ 22'16 26° ズ 14'56 0° 云 8° 云 27'17 8° 云 02'08 11° 云 57'21 0° ≈ 3° ≈ 52'37 22° ≈ 02'33 0° 光	1°42'19 1.34645 AU 26°54'58 0.65625 AU -1°39'17 1°38'08 18°14'36 -0°51'10 0°50'20 1.45238 AU -0.7m
max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node  morning rise direct  morning set desc. node max. Earth dist.  superior conj minimum elong	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 09 06:57 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24 4341 Nov 27 13:08 4341 Nov 27 14:10 4341 Nov 29 10:18 4341 Dec 02 16:39 4341 Dec 03 08:23 4341 Dec 06 12:04 4341 Dec 10 11:29 4342 Jan 01 16:08 4342 Jan 02 06:11 4342 Jan 20 16:43 4342 Jan 20 17:25 4342 Jan 20 19:28 4342 Feb 04 22:15 4342 Feb 08 13:25	27° m 57'27 0° 血 8° 血06'47 15° 血30'28 0° m 4° m 12'57 0° ズ 7° ズ 10'49 14° ズ 18'05 11° ズ 44'50 7° ズ 12'32 5° ズ 24'31 5° ズ 21'18 3° ズ 07'42 30° R m 29° m 34'08 28° m 37'17 0° ズ 2° ズ 22'48 0° ℧ 3° ℧ 56'58 5° ℧ 37'08 27° ℧ 31'48 29° ℧ 49'12 29° ℧ 12'38 0° 会 24° ≈ 06'50 0° 光	1°43'47  1.36322 AU  26°02'44  0.66752 AU -0°38'39 0°38'13  18°52'17  1.45132 AU -1°33'46	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node  morning rise direct morning max el  morning set desc. node  superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12 4342 Nov 11 09:43 4342 Nov 11 12:30 4342 Nov 16 07:21 4342 Nov 17 14:01 4342 Nov 20 08:54 4342 Nov 20 08:54 4342 Nov 20 08:54 4342 Dec 06 21:10 4342 Dec 15 18:45 4342 Dec 23 03:13 4342 Dec 25 11:35  4342 Dec 30 19:43 4342 Dec 30 19:43 4343 Jan 02 01:09 4343 Jan 13 14:11 4343 Jan 16 01:49 4343 Jan 27 19:03 4343 Feb 02 04:20 4343 Feb 09 00:03	12° m 17'34 20° m 01'04 28° m 52'19 0° 亞 24° 亞 22'11 0° m 20° M 47'20 28° M 03'58 25° M 23'27 21° M 26'58 19° M 12'45 19° M 04'41 14° M 21'12 13° M 34'25 12° M 51'55 16° M 22'44 0° ズ 14° ズ 22'16 26° ズ 14'56 0° 云 8° 云 27'17 8° 云 02'08 11° 云 57'21 0° ≈ 3° ※ 52'37 22° ≈ 02'33 0° 升 8° 升 33'52	1°42'19 1.34645 AU 26°54'58 0.65625 AU -1°39'17 1°38'08 18°14'36 -0°51'10 0°50'20 1.45238 AU -0.7m
max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node  morning rise direct  morning set desc. node max. Earth dist.  superior conj minimum elong evening rise asc. node	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 09 06:57 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24 4341 Nov 27 13:08 4341 Nov 27 14:10 4341 Nov 29 10:18 4341 Dec 02 16:39 4341 Dec 03 08:23 4341 Dec 06 12:04 4341 Dec 10 11:29 4342 Jan 01 16:08 4342 Jan 02 07:25 4342 Jan 20 19:28 4342 Feb 04 22:15 4342 Feb 08 13:25 4342 Feb 25 09:37	27° m 57'27 0° 血 8° 血06'47 15° 血30'28 0° m 4° m 12'57 0° ズ 7° ズ 10'49 14° ズ 18'05 11° ズ 44'50 7° ズ 12'32 5° ズ 24'31 5° ズ 21'18 3° ズ 07'42 30° R m 29° m 34'08 28° m 37'17 0° ズ 2° ズ 22'48 0° 云 3° 云 556'58 5° 云 37'08 27° 云 31'48 29° 云 49'12 29° 云 12'38 0° 会 24° ≈ 06'50 0° 光 24° 光 47'01	1°43'47  1.36322 AU  26°02'44  0.66752 AU -0°38'39 0°38'13  18°52'17  1.45132 AU -1°33'46 1°32'53	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node  morning rise direct morning max el  morning set desc. node  superior conj minimum elong max. Earth dist. evening rise greatest brilliancy  evening max el asc. node	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12 4342 Nov 11 09:43 4342 Nov 11 12:30 4342 Nov 16 07:21 4342 Nov 17 14:01 4342 Nov 20 08:54 4342 Nov 20 08:54 4342 Dec 06 21:21 4342 Dec 15 18:45 4342 Dec 23 03:13 4342 Dec 25 11:35  4342 Dec 30 19:43 4342 Dec 30 13:20 4343 Jan 02 01:09 4343 Jan 13 14:11 4343 Jan 16 01:49 4343 Feb 02 04:20 4343 Feb 09 00:03 4343 Feb 12 06:38	12° m 17'34 20° m 01'04 28° m 52'19 0° ユ 24° ユ22'11 0° m 20° m 47'20 28° m 03'58 25° m 23'27 21° m 26'58 19° m 12'45 19° m 04'41 14° m 21'12 13° m 34'25 12° m 51'55 16° m 22'44 0° ズ 14° ズ 22'16 26° ズ 14'56 0° 云 8° 云 27'17 8° 云 02'08 11° 云 57'21 0° ≈ 3° ≈ 52'37 22° ≈ 02'33 0° 升 8° 升 33'52 11° 升 20'41	1°42'19 1.34645 AU 26°54'58 0.65625 AU -1°39'17 1°38'08 18°14'36 -0°51'10 0°50'20 1.45238 AU -0.7m
max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node  morning rise direct  morning set desc. node max. Earth dist.  superior conj minimum elong	4341 Sep 19 08:40 4341 Sep 20 08:55 4341 Sep 24 11:40 4341 Sep 28 09:49 4341 Oct 06 16:52 4341 Oct 09 06:57 4341 Oct 27 12:47 4341 Nov 03 02:13 4341 Nov 15 15:31 4341 Nov 21 20:24 4341 Nov 27 13:08 4341 Nov 27 14:10 4341 Nov 29 10:18 4341 Dec 02 16:39 4341 Dec 03 08:23 4341 Dec 06 12:04 4341 Dec 10 11:29 4342 Jan 01 16:08 4342 Jan 02 06:11 4342 Jan 20 16:43 4342 Jan 20 17:25 4342 Jan 20 19:28 4342 Feb 04 22:15 4342 Feb 08 13:25	27° m 57'27 0° 血 8° 血06'47 15° 血30'28 0° m 4° m 12'57 0° ズ 7° ズ 10'49 14° ズ 18'05 11° ズ 44'50 7° ズ 12'32 5° ズ 24'31 5° ズ 21'18 3° ズ 07'42 30° R m 29° m 34'08 28° m 37'17 0° ズ 2° ズ 22'48 0° ℧ 3° ℧ 56'58 5° ℧ 37'08 27° ℧ 31'48 29° ℧ 49'12 29° ℧ 12'38 0° 会 24° ≈ 06'50 0° 光	1°43'47  1.36322 AU  26°02'44  0.66752 AU -0°38'39 0°38'13  18°52'17  1.45132 AU -1°33'46	minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node  morning rise direct morning max el  morning set desc. node  superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	4342 Sep 03 08:00 4342 Sep 07 01:32 4342 Sep 11 12:42 4342 Sep 12 02:48 4342 Sep 12 02:48 4342 Sep 26 03:58 4342 Sep 29 21:04 4342 Oct 16 14:47 4342 Oct 29 18:40 4342 Nov 05 11:51 4342 Nov 09 11:12 4342 Nov 11 09:43 4342 Nov 11 12:30 4342 Nov 16 07:21 4342 Nov 17 14:01 4342 Nov 20 08:54 4342 Nov 20 08:54 4342 Nov 20 08:54 4342 Dec 06 21:10 4342 Dec 15 18:45 4342 Dec 23 03:13 4342 Dec 25 11:35  4342 Dec 30 19:43 4342 Dec 30 19:43 4343 Jan 02 01:09 4343 Jan 13 14:11 4343 Jan 16 01:49 4343 Jan 27 19:03 4343 Feb 02 04:20 4343 Feb 09 00:03	12° m 17'34 20° m 01'04 28° m 52'19 0° 亞 24° 亞 22'11 0° m 20° M 47'20 28° M 03'58 25° M 23'27 21° M 26'58 19° M 12'45 19° M 04'41 14° M 21'12 13° M 34'25 12° M 51'55 16° M 22'44 0° ズ 14° ズ 22'16 26° ズ 14'56 0° 云 8° 云 27'17 8° 云 02'08 11° 云 57'21 0° ≈ 3° ※ 52'37 22° ≈ 02'33 0° 升 8° 升 33'52	1°42'19 1.34645 AU 26°54'58 0.65625 AU -1°39'17 1°38'08 18°14'36 -0°51'10 0°50'20 1.45238 AU -0.7m

avaning sat	4343 Feb 19 15:18	11° <b>¥</b> 28'25		evening rise	4343 Dec 26 13:57	13° <b>る</b> 06'03	
evening set inferior conj	4343 Feb 25 03:07	5°\(\frac{11}{35}\)\(\frac{15}{35}\)	2010/21	evening rise	4344 Jan 06 17:19	0°≈	
minimum elong	4343 Feb 25 01:16	5° <b>X</b> 41'16	3°19'15	evening max el	4344 Jan 23 03:12	0 ∞ 22°≈06'19	20021441
min. Earth dist.	4343 Feb 26 10:01	3° <b>)</b> ₹54'42	0.66466 AU	asc. node	4344 Jan 30 03:40	26°≈41'26	20 21 41
iiiii. Lattii dist.	4343 Mar 01 18:32	30°R≈	0.00 <del>1</del> 00 AC	retrograde	4344 Jan 31 01:45	26°≈46'02	
morning rise	4343 Mar 02 10:58	29°≈21'06		evening set	4344 Feb 03 21:58	25°≈20'31	
direct	4343 Mar 08 16:45	26°≈34'55		inferior conj	4344 Feb 09 07:01	19°≈14'15	2°54'11
uncer	4343 Mar 16 17:11	0° <b>\</b>		minimum elong	4344 Feb 09 04:38	19°≈22'21	2°53'37
morning max el	4343 Mar 21 05:11	4° <b>₩</b> 02'01	25°58'55	min. Earth dist.	4344 Feb 10 00:13	18°≈15'47	0.67388 AU
desc. node	4343 Mar 21 02:25	3°₩55'02	20 0000	morning rise	4344 Feb 14 11:06	13°≈00'11	0.07500110
acse. noue	4343 Apr 10 00:45	0°Υ		direct	4344 Feb 20 03:35	10°≈27'56	
morning set	4343 Apr 26 09:35	27° <b>Ƴ</b> 35'37		morning max el	4344 Mar 02 13:53	17° <b>≈</b> 18′02	24°36'13
Z .	4343 Apr 27 16:36	0°B		desc. node	4344 Mar 06 23:28	22°≈08'58	
max. Earth dist.	4343 Apr 30 06:50	4° <b>8</b> 55'49	1.35465 AU		4344 Mar 13 04:12	0° <b>)</b> €	
	1	_			4344 Apr 02 01:15	$_{0}$ $^{\circ}$ $\Upsilon$	
superior conj	4343 May 05 14:36	15° <b>8</b> 27'59	-0°55'40	morning set	4344 Apr 07 13:39	9° <b>Y</b> 26'36	
minimum elong	4343 May 05 17:36	15° <b>8</b> 43'15	0°55'07	max. Earth dist.	4344 Apr 11 04:52	15° <b>Ƴ</b> 57'00	1.37413 AU
asc. node	4343 May 11 05:57	27° <b>8</b> 03'22			•		
	4343 May 12 16:11	$\Pi$ $^{\circ}$ 0		superior conj	4344 Apr 17 22:53	28° <b>Ƴ</b> 39'28	-1°23'54
evening rise	4343 May 13 11:25	1° <b>Ⅱ</b> 38'52		minimum elong	4344 Apr 18 03:17	29° <b>Ƴ</b> 00'46	1°23'16
C	4343 May 30 10:37	0°©			4344 Apr 18 15:28	0°8	
evening max el	4343 May 31 15:39	1°9514'45	20°19'32	evening rise	4344 Apr 26 13:03	15° <b>8</b> 41'04	
retrograde	4343 Jun 11 11:23	6° <b>©</b> 31'59		asc. node	4344 Apr 27 02:59	16° <b>8</b> 50'20	
evening set	4343 Jun 13 10:43	6°522'11			4344 May 04 01:44	0° <b>I</b> I	
desc. node	4343 Jun 17 01:39	5° <b>©</b> 18'06		evening max el	4344 May 13 08:08	12° <b>Ⅱ</b> 56'59	19°16'31
inferior conj	4343 Jun 22 14:22	2° <b>5</b> 24'01	-1°38'17	retrograde	4344 May 22 10:49	17° <b>Ⅲ</b> 23'18	
minimum elong	4343 Jun 22 09:45	2° <b>©</b> 30'47	1°36'36	evening set	4344 May 24 10:49	17° <b>Ⅱ</b> 11'24	
min. Earth dist.	4343 Jun 24 02:14	1° <b>9</b> 31'27	0.55030 AU	inferior conj	4344 Jun 01 21:45	13° <b>Ⅱ</b> 02'36	0°18'17
	4343 Jun 26 20:19	30° <b>Ŗ</b> Ⅱ		minimum elong	4344 Jun 01 22:31	13° <b>Ⅲ</b> 01′20	0°17'59
morning rise	4343 Jul 01 07:35	28° <b>Ⅱ</b> 11'01		desc. node	4344 Jun 02 22:42	12° <b>Ⅲ</b> 21′00	
direct	4343 Jul 05 06:15	27° <b>II</b> 37'22		min. Earth dist.	4344 Jun 04 16:55	11° <b>Ⅱ</b> 11'36	0.56122 AU
	4343 Jul 13 06:46	0°ಅ		morning rise	4344 Jun 10 07:10	8° <b>Ⅱ</b> 15'32	
morning max el	4343 Jul 18 18:25	4°छ11'52	23°38'39	direct	4344 Jun 15 04:06	7° <b>Ⅲ</b> 20'54	
	4343 Aug 05 16:21	$0^{\circ}\Omega$		morning max el	4344 Jun 29 08:18	14° <b>Ⅲ</b> 34'19	25°19'30
asc. node	4343 Aug 07 05:12	2° <b>£</b> 58′18			4344 Jul 11 14:11	0°50	
morning set	4343 Aug 11 15:28	12° <b>Ω</b> 01'44		asc. node	4344 Jul 24 02:15	22° <b>©</b> 39'18	
				morning set	4344 Jul 26 03:06	26° <b>©</b> 54'31	
superior conj	4343 Aug 18 15:32	27° <b>Ω</b> 06'38	1°34'42		4344 Jul 27 13:51	$0^{\circ}\Omega$	
minimum elong	4343 Aug 18 13:42	26° <b>Ω</b> 56'43	1°34'32				
	4343 Aug 19 23:49	0° <b>m</b> )		superior conj	4344 Aug 02 01:40	11° <b>Ω</b> 59'41	1°21'44
max. Earth dist.	4343 Aug 21 00:13	2° m/ 10'02	1.33360 AU	minimum elong	4344 Aug 01 23:23	11° <b>Ω</b> 47'09	1°21'25
evening rise	4343 Aug 26 04:00	12° <b>m</b> 49'49		max. Earth dist.	4344 Aug 03 06:25	14° <b>Ω</b> 36'56	1.32501 AU
	4343 Sep 04 07:52	0∘ <b>⊽</b>		evening rise	4344 Aug 09 04:11	27° <b>Ω</b> 12'22	
desc. node	4343 Sep 13 00:59	14° <b>≏</b> 06'35			4344 Aug 10 12:59	O° My	
	4343 Sep 25 02:54	0°M₊			4344 Aug 27 15:44	0० <b>⊽</b>	
evening max el	4343 Sep 29 02:35	4°M07'46	27°23'30	desc. node	4344 Aug 29 22:00	3° <b>£</b> 15'13	
retrograde	4343 Oct 12 16:05	11°ML26'04		evening max el	4344 Sep 10 11:41	16° <b>≙</b> 59'00	27°22'16
evening set	4343 Oct 19 17:55	8°ML46'37		retrograde	4344 Sep 24 06:48	24° <b>≏</b> 13'58	
min. Earth dist.	4343 Oct 23 11:32	5°M24'16	0.64150 AU	evening set	4344 Oct 01 11:06	21° <b>≏</b> 47'00	
inferior conj	4343 Oct 25 22:15	2°M50'16	-2°41'23	min. Earth dist.	4344 Oct 05 01:53	18° <b>≏</b> 52'54	0.62362 AU
minimum elong	4343 Oct 26 02:49	2°M38'13	2°39'42	inferior conj	4344 Oct 07 23:46	16° <b>≏</b> 09'17	-3°41'29
	4343 Oct 28 18:50	30° <b>₹</b> Ω		minimum elong	4344 Oct 08 05:39	15° <b>≏</b> 55'29	3°39'43
morning rise	4343 Nov 01 13:03	27° <b>£</b> 26'57		morning rise	4344 Oct 15 01:54	11° <b>≏</b> 04'09	
asc. node	4343 Nov 03 04:24	26° <b>≏</b> 58'55		direct	4344 Oct 17 10:44	10° <b>≏</b> 39'09	
direct	4343 Nov 04 01:30	26° <b>≏</b> 54'58		asc. node	4344 Oct 20 01:28	11° <b>≏</b> 10'34	
	4343 Nov 10 05:32	$0^{\circ}$ M.		morning max el	4344 Oct 24 06:03	14° <b>≏</b> 07'15	17°51'04
morning max el	4343 Nov 10 13:54	0°M20'22	17°53'54		4344 Nov 04 03:22	$0^{\circ}$ M	
morning set	4343 Nov 27 13:02	26°ML10'10		morning set	4344 Nov 09 05:21	9° <b>M</b> 01'06	
	4343 Nov 29 19:05	0° <b>∡</b> ¹					
desc. node	4343 Dec 10 00:15	16° <b>₹</b> 59'18		superior conj	4344 Nov 20 08:49	28°M33'38	0°38'05
				minimum elong	4344 Nov 20 12:09	$28^{\circ}$ M47'48	0°37'37
superior conj	4343 Dec 10 13:28	17° <b>∡</b> 52'57	-0°03'50		4344 Nov 21 05:12	0° <b>∡</b> ″	
minimum elong	4343 Dec 10 13:01	17° <b>∡</b> ′51′08	0°03'46	desc. node	4344 Nov 25 21:16	7° <b>∡</b> ¹46'15	
behind sun begin	4343 Dec 10 03:10	17° <b>∡</b> 11'10		max. Earth dist.	4344 Nov 27 10:48	10° <b>√</b> 19'19	1.43337 AU
behind sun end	4343 Dec 10 22:52	18° <b>∡</b> °31′03		evening rise	4344 Dec 05 01:18	22° <b>х</b> 24'02	
max. Earth dist.	4343 Dec 15 19:38	26° <b>∡</b> 18'44	1.44612 AU		4344 Dec 09 23:54	0°ප	
	4343 Dec 18 03:39	0°₹			4344 Dec 31 02:10	0° <b>≈</b>	

evening max el	4345 Jan 05 00:52	5° <b>≈</b> 39'56	21°32'02		4345 Dec 03 09:46	0°₹	
retrograde	4345 Jan 13 23:19	3 ≈3930 10°≈58'16	21 32 02	evening max el	4345 Dec 18 17:43	19° <b>る</b> 15'49	22°49'56
•	4345 Jan 16 00:44	10 ≈38 10 10°≈35'22		•		19 <b>3</b> 1349 25° <b>3</b> 13'12	22 49 36
asc. node				retrograde	4345 Dec 28 18:38		
evening set	4345 Jan 18 05:43	9°≈17'28	2010115	evening set	4346 Jan 02 12:53	23°る16'19	
inferior conj	4345 Jan 23 13:55	3°≈01'06	2°19'45	asc. node	4346 Jan 02 21:47	22°る57'08	1007100
minimum elong	4345 Jan 23 11:30	3°≈09'30	2°19'00	inferior conj	4346 Jan 07 21:50	16° <b>ප්</b> 53'18	1°37'38
min. Earth dist.	4345 Jan 23 18:46	2° <b>≈</b> 44'18	0.67905 AU	minimum elong	4346 Jan 07 19:50	17° <b>る</b> 00'14	1°36'54
	4345 Jan 25 19:30	30°₹ <b>⋜</b>		min. Earth dist.	4346 Jan 07 15:18	17° <b>る</b> 15'52	0.68042 AU
morning rise	4345 Jan 28 17:05	26° <b>る</b> 48'56		morning rise	4346 Jan 13 02:40	10° <b>る</b> 44'41	
direct	4345 Feb 02 19:00	24° <b>る</b> 36'54		direct	4346 Jan 17 13:58	8° <b>る</b> 55'34	
	4345 Feb 12 07:15	0° <b>≈</b>		morning max el	4346 Jan 26 12:13	14° <b>る</b> 08'09	21°40'56
morning max el	4345 Feb 12 23:00	0° <b>≈</b> 39'01	23°07'11		4346 Feb 08 04:02	0° <b>≈</b>	
desc. node	4345 Feb 21 20:30	11° <b>≈</b> 10′59		desc. node	4346 Feb 08 17:31	0° <b>≈</b> 47'29	
	4345 Mar 07 01:57	0° <b>∀</b>		morning set	4346 Feb 27 15:21	29° <b>≈</b> 18′22	
morning set	4345 Mar 19 16:57	20° <b>)</b> €03'48			4346 Feb 28 01:47	0° <b>)</b> €	
max. Earth dist.	4345 Mar 23 23:52	27° <b>)</b> €21'05	1.39585 AU	max. Earth dist.	4346 Mar 05 23:32	9° <b>)</b> (36′45	1.41709 AU
	4345 Mar 25 12:22	$0^{\circ}\mathbf{\Upsilon}$					
				superior conj	4346 Mar 13 14:16	22° <b>)</b> 34′23	-2°04'21
superior conj	4345 Mar 31 16:27	11° <b>Y</b> 05'53	-1°48'09	minimum elong	4346 Mar 13 17:15	22° <b>)</b> 47′26	2°04'13
minimum elong	4345 Mar 31 21:14	11° <b>Υ</b> 27'54		8	4346 Mar 17 18:54	0°Υ	
evening rise	4345 Apr 10 06:06	29° <b>Υ</b> 14'03	1 ., .2	evening rise	4346 Mar 24 10:50	12°Υ′08'10	
evening rise	4345 Apr 10 15:41	0° <b>8</b>		asc. node	4346 Mar 31 21:05	25° <b>Υ</b> 29'39	
asc. node	4345 Apr 14 00:02	6° <b>8</b> 21'18		asc. Houc	4346 Apr 03 14:44	0° <b>8</b>	
			10022146		1		10011101
evening max el	4345 Apr 26 10:42	25° <b>8</b> 17'53	18°33'46	evening max el	4346 Apr 09 19:46	8° <b>8</b> 07'10	18°11'01
retrograde	4345 May 04 04:32	29° <b>8</b> 06'39		retrograde	4346 Apr 16 16:43	11° <b>8</b> 35'12	
evening set	4345 May 06 10:48	28° <b>8</b> 48'14		evening set	4346 Apr 19 05:39	11° <b>8</b> 07'27	
inferior conj	4345 May 14 01:44	24° <b>8</b> 20'28	1°51'17	inferior conj	4346 Apr 26 02:45	6° <b>8</b> 18'46	
minimum elong	4345 May 14 05:11	24° <b>8</b> 13'47	1°50'14	minimum elong	4346 Apr 26 06:00	6° <b>8</b> 11'22	
min. Earth dist.	4345 May 17 11:08	21° <b>8</b> 43'41	0.57913 AU	min. Earth dist.	4346 Apr 29 11:07	3° <b>8</b> 18'05	0.60055 AU
desc. node	4345 May 20 19:43	19° <b>8</b> 31'36		morning rise	4346 May 03 03:58	0° <b>8</b> 32'22	
morning rise	4345 May 21 20:22	18° <b>8</b> 59'33			4346 May 04 02:44	30° <b>ŖƳ</b>	
direct	4345 May 27 16:10	17° <b>8</b> 33'35		desc. node	4346 May 07 16:44	28° <b>Y</b> ′42'49	
morning max el	4345 Jun 11 01:12	25° <b>8</b> 11'28	26°43'04	direct	4346 May 09 16:29	28° <b>Ƴ</b> 31'41	
	4345 Jun 15 12:04	$\Pi^{\circ}0$			4346 May 15 12:36	0°8	
	4345 Jul 04 18:09	0°ಅ		morning max el	4346 May 24 00:23	6° <b>႘</b> 23'58	27°36'12
morning set	4345 Jul 10 13:21	11° <b>©</b> 41'48		C	4346 Jun 10 17:10	$\Pi^{\circ}0$	
asc. node	4345 Jul 10 23:19	12° <b>©</b> 34'25		morning set	4346 Jun 24 20:23	26° <b>Ⅲ</b> 17'10	
				3	4346 Jun 26 14:48	0ಂತಾ	
superior conj	4345 Jul 17 13:25	26° <b>©</b> 55'15	1°04'13	asc. node	4346 Jun 27 20:21	2° <b>9</b> 37'50	
minimum elong	4345 Jul 17 11:09	26°5342'48	1°03'48	max. Earth dist.	4346 Jul 01 04:43		1.32030 AU
max. Earth dist.	4345 Jul 17 17:11	27°916'03	1.32063 AU	max. Earth dist.	4540 Jul 01 04.45	) 3331)	1.32030 710
max. Earth dist.	4345 Jul 18 22:54	0°Ω	1.32003 AU	aumorior aoni	4346 Jul 02 00:54	11° <b>©</b> 46'25	0°42'42
				superior conj		11°936'44	0°42'42 0°42'20
evening rise	4345 Jul 24 10:28	11° <b>Ω</b> 51′26		minimum elong	4346 Jul 01 23:09		0 42 20
1 1	4345 Aug 02 17:05	0°Mp		evening rise	4346 Jul 08 20:26	26°538'32	
desc. node	4345 Aug 16 19:02	21° m 33'20	2 (0 15110		4346 Jul 10 10:43	$\Omega^{\circ}$	
evening max el	4345 Aug 23 15:28	29° Mp 08'49	26°47'40		4346 Jul 27 13:59	0° <b>m</b>	
	4345 Aug 24 13:40	0∘ <b>ত</b>		desc. node	4346 Aug 03 16:03	8° <b>m</b> 39'47	
retrograde	4345 Sep 06 13:33	6° <b>≏</b> 19'03		evening max el	4346 Aug 05 11:41	10°Mp29'04	25°41'17
evening set	4345 Sep 13 10:58	4° <b>≙</b> 17'01		retrograde	4346 Aug 19 10:46	17° <b>m</b> 35'19	
min. Earth dist.	4345 Sep 17 05:32	1° <b>≏</b> 39'48	0.60355 AU	evening set	4346 Aug 25 12:40	16° Mp 08′21	
	4345 Sep 19 06:32	30°R Mp		min. Earth dist.	4346 Aug 29 23:43	13° <b>m</b> 30'57	0.58296 AU
inferior conj	4345 Sep 20 10:54	29° <b>m</b> 01'08	-4°33'28	inferior conj	4346 Sep 02 04:04	11° <b>m</b> 15'15	-5°07'17
minimum elong	4345 Sep 20 16:38	28° Mp 49'20	4°32'19	minimum elong	4346 Sep 02 06:56	11° Mp 10'06	5°07'05
morning rise	4345 Sep 28 00:15	24° Mp 17'20		morning rise	4346 Sep 10 03:28	6° Mp 54′46	
direct	4345 Sep 30 08:43	23° Mp 56'16		direct	4346 Sep 12 14:51	6° ₩ 35′24	
asc. node	4345 Oct 06 22:31	26° m/49'15		morning max el	4346 Sep 21 00:09	10° m/35'12	18°44'16
morning max el	4345 Oct 07 18:34	27° m 35'20	18°07'21	asc. node	4346 Sep 23 19:33	13° <b>m</b> 40'21	
-	4345 Oct 09 23:22	0∘ <b>⊽</b>			4346 Oct 03 20:44	0∘ <u>⊽</u>	
morning set	4345 Oct 23 13:33	22° <b>₽</b> 37'16		morning set	4346 Oct 07 08:48	° <b>-</b> 6° <b>-</b> 44'51	
	4345 Oct 27 12:13	0°M			.2 .2 340 07 00.10	5 - 7.751	
	15 15 500 27 12.15	∪ IIU		superior conj	4346 Oct 15 23:39	23° <b>ჲ</b> 25'50	1°30'23
superior con:	4345 Nov. 02 05:50	100m 20112	1°09'41				
superior conj	4345 Nov 02 05:50	10°M29'13 10°M47'24	1°09'41 1°09'12	minimum elong	4346 Oct 16 02:39	23° <b>£</b> 40'03 0° <b>I</b> L	1°30'08
minimum elong	4345 Nov 02 09:54			more Family 11 4	4346 Oct 19 12:27		1 20504 411
max. Earth dist.	4345 Nov 09 21:24	23°M46'14	1.41564 AU	max. Earth dist.	4346 Oct 23 03:28	6°M30'48	1.39504 AU
desc. node	4345 Nov 12 18:18	28°M32'40		evening rise	4346 Oct 27 03:27	13°M25'39	
	4345 Nov 13 15:38	0° <b>∡</b> ¹		desc. node	4346 Oct 30 15:21	19° <b>™</b> 15'04	
evening rise	4345 Nov 15 03:11	2° <b>≯</b> 24'13			4346 Nov 06 10:01	0° <b>∡</b> 7	

	4346 Nov 28 12:45	ರ°0		evening max el	4347 Nov 13 19:37	16° <b>∡</b> ³37'15	25°24'42
evening max el	4346 Dec 01 07:19	0 0 2° <b>る</b> 55'14	24°09'43	retrograde	4347 Nov 25 22:12	23° 🖈 35'43	23 24 42
retrograde	4346 Dec 12 10:35	9°る27'32	24 07 43	evening set	4347 Dec 01 19:16	21°×708'51	
evening set	4346 Dec 17 17:58	7°る14'46		min. Earth dist.	4347 Dec 06 05:16	16° 🖈 16'16	0.67236 AU
asc. node	4346 Dec 20 18:47	4°る00'49		inferior conj	4347 Dec 07 09:34	14° <b>×</b> <sup>7</sup> 44'56	
min. Earth dist.	4346 Dec 22 11:34	1°る47'47	0.67815 AU	minimum elong	4347 Dec 07 09:42	14° <b>х</b> 44'30	0°05'16
inferior conj	4346 Dec 23 04:59	0° <b>る</b> 49'01	0°48'58	transit middle	4347 Dec 07 09:42	14° <b>х</b> 44'30	0°05'16
minimum elong	4346 Dec 23 03:51	0° <b>る</b> 52'52	0°48'30	transit begin	4347 Dec 07 07:04	14° <b>₹</b> ′53'02	
8	4346 Dec 23 19:34	30°R <b>✓</b>		transit end	4347 Dec 07 12:21	14° <b>₹</b> 35'58	
morning rise	4346 Dec 28 13:47	24° <b>₹</b> 45'47		asc. node	4347 Dec 07 15:48	14° <b>₹</b> 24'51	
direct	4347 Jan 01 11:25	23° <b>ҳ</b> 19'10		morning rise	4347 Dec 13 00:27	8° <b>҂</b> ¹49'07	
morning max el	4347 Jan 09 08:39	27° <b>∡</b> ³49'31	20°24'21	direct	4347 Dec 16 10:01	7° <b>҂</b> ¹42'32	
	4347 Jan 11 09:25	8°0		morning max el	4347 Dec 23 12:58	11° <b>√</b> 41'31	19°21'23
desc. node	4347 Jan 26 14:33	20°る49'22		greatest brilliancy	4348 Jan 05 21:15	29° <b>∡</b> ³32'48	-0.7m
	4347 Feb 01 16:48	0° <b>≈</b>			4348 Jan 06 04:29	0°ಕ	
morning set	4347 Feb 06 15:14	7° <b>≈</b> 34'42		desc. node	4348 Jan 13 11:35	11° <b>る</b> 09'12	
max. Earth dist.	4347 Feb 16 06:45	22° <b>≈</b> 47'27	1.43498 AU	morning set	4348 Jan 16 14:10	15° <b>る</b> 57'28	
	4347 Feb 20 17:10	0° <b>)</b> €			4348 Jan 25 14:41	0° <b>≈</b>	
				max. Earth dist.	4348 Jan 29 20:19	6° <b>≈</b> 39'28	1.44730 AU
superior conj	4347 Feb 22 11:40	2° <b>¥</b> 55′27	-2°07'11				
minimum elong	4347 Feb 22 09:47	2° <b>)</b> 47'40	2°07'08	superior conj	4348 Feb 02 07:44	12° <b>≈</b> 10′13	-1°51'38
evening rise	4347 Mar 06 23:05	24° <b>₩</b> 15'02		minimum elong	4348 Feb 01 23:57	11° <b>≈</b> 39'16	1°51'05
	4347 Mar 10 06:00	$0$ ° $\Upsilon$			4348 Feb 13 07:40	0° <b>∀</b>	
asc. node	4347 Mar 18 18:06	14° <b>Ƴ</b> 08'17		evening rise	4348 Feb 16 14:29	5° <b>∺</b> 26'30	
evening max el	4347 Mar 24 08:02	21° <b>Y</b> 16'28	18°07'45		4348 Mar 02 23:45	$0$ ° $\Upsilon$	
retrograde	4347 Mar 30 19:23	24° <b>Y</b> 39'02		asc. node	4348 Mar 04 15:07	2° <b>Y</b> 07'48	
evening set	4347 Apr 02 14:20	24° <b>Y</b> ′00'26		evening max el	4348 Mar 06 20:33	4° <b>Ƴ</b> 38'14	18°23'20
inferior conj	4347 Apr 08 21:33	18° <b>Ƴ</b> 51'42	3°25'12	retrograde	4348 Mar 13 07:51	8° <b>Y</b> 08'38	
minimum elong	4347 Apr 08 23:17	18° <b>Ƴ</b> 47'11	3°25'00	evening set	4348 Mar 16 08:47	7° <b>Ƴ</b> 18'04	
min. Earth dist.	4347 Apr 11 19:25	15° <b>Ƴ</b> 51'40	0.62219 AU	inferior conj	4348 Mar 22 05:59	1° <b>Y</b> 50'49	
morning rise	4347 Apr 15 06:45	12° <b>Y</b> 49'46		minimum elong	4348 Mar 22 06:02	1° <b>Y</b> 50'42	3°35'34
direct	4347 Apr 22 03:09	10° <b>Ƴ</b> 19'48			4348 Mar 23 20:15	30° <b>Ŗ</b> ₩	
desc. node	4347 Apr 24 13:45	10° <b>Ƴ</b> 37'19		min. Earth dist.	4348 Mar 24 13:09	29° <b>) (</b> 12′04	0.64165 AU
morning max el	4347 May 06 05:40	18° <b>Ƴ</b> 19'06	27°52'08	morning rise	4348 Mar 28 02:28	25° <b>)</b> 40′58	
	4347 May 16 01:06	$_{0\circ}$ 8		direct	4348 Apr 03 22:12	22° <b>升</b> 53'47	
	4347 Jun 03 12:36	$\Pi^{\circ}0$		desc. node	4348 Apr 10 10:46	24° <b>升</b> 59′09	
morning set	4347 Jun 08 22:11	10° <b>Ⅱ</b> 34'19			4348 Apr 16 18:02	$0$ ° $\mathbf{\Upsilon}$	
max. Earth dist.	4347 Jun 14 12:56	22° <b>∏</b> 21'18	1.32408 AU	morning max el	4348 Apr 17 14:36	0° <b>Y</b> 50'43	27°31'18
asc. node	4347 Jun 14 17:23	22° <b>Ⅱ</b> 45'14			4348 May 09 03:04	0°8	
				morning set	4348 May 22 16:16	24° <b>8</b> 25'23	
superior conj	4347 Jun 16 10:26	26° <b>Ⅱ</b> 27'47	0°17'50		4348 May 25 11:02	$\Pi$ °0	
minimum elong	4347 Jun 16 09:36	26° <b>Ⅱ</b> 23'17	0°17'39	max. Earth dist.	4348 May 27 13:51	4° <b>Ⅱ</b> 21'46	1.33224 AU
	4347 Jun 18 01:19	$0$ $\circ$ $\odot$					
evening rise	4347 Jun 23 08:04	11° <b>©</b> 27'07		superior conj	4348 May 30 16:08	10° <b>Ⅲ</b> 53'30	
	4347 Jul 02 18:15	$0$ $^{\circ}\Omega$		minimum elong	4348 May 30 16:38	10° <b>Ⅱ</b> 56′06	0°09'34
evening max el	4347 Jul 18 01:27	21° <b>Ω</b> 07'21	24°12'05	behind sun begin	4348 May 30 12:16	10° <b>Ⅲ</b> 32'49	
desc. node	4347 Jul 21 13:03	24° <b>Ω</b> 06'32		behind sun end	4348 May 30 21:00	11° <b>Ⅱ</b> 19'24	
retrograde	4347 Jul 31 20:53	28° <b>Ω</b> 05'00		asc. node	4348 May 31 14:25	12° <b>∏</b> 52'33	
evening set	4347 Aug 05 14:16	27° <b>Ω</b> 15'23	0.56467.411	evening rise	4348 Jun 06 19:34	26° <b>Ⅱ</b> 11'12	
min. Earth dist.	4347 Aug 11 12:07	24° <b>Ω</b> 19'11	0.56467 AU		4348 Jun 08 15:20	0.ಲ	
inferior conj	4347 Aug 14 01:02	22° <b>Ω</b> 44'18			4348 Jun 27 03:39	0° <b>Ω</b>	22025101
minimum elong	4347 Aug 13 22:10	22° <b>Ω</b> 48'48	5°0/'59	evening max el	4348 Jun 28 15:11	1° <b>Ω</b> 30'51	22°35'01
morning rise	4347 Aug 22 08:39	18° <b>Ω</b> 44'21		desc. node	4348 Jul 07 10:02	7° <b>Ω</b> 19'29	
direct	4347 Aug 25 01:37	18° <b>Ω</b> 25'03	10042147	retrograde	4348 Jul 11 18:42	8° <b>Ω</b> 03'14 7° <b>Ω</b> 40'33	
morning max el	4347 Sep 03 19:45	22° <b>Ω</b> 57'39	19°42'47	evening set	4348 Jul 14 23:48		0.55210.411
asc. node	4347 Sep 09 16:40	0°Mp 1°m⊳20150		min. Earth dist.	4348 Jul 22 22:48 4348 Jul 24 03:50	3° <b>Ω</b> 30'24	0.55210 AU
	4347 Sep 10 16:35	1° Mp 28'58		inferior conj			
morning set	4347 Sep 21 11:35 4347 Sep 25 19:28	21° <b>™</b> 13'39 0° <b>₽</b>		minimum elong	4348 Jul 23 19:48 4348 Jul 31 12:02	3° <b>№</b> 41'52 30° <b>№</b>	<del>1</del> 1230
	+3+1 3cp 23 19.28	· ==		morning rise	4348 Jul 31 12:02 4348 Aug 01 17:52	29°©39'55	
superior conj	4347 Sep 29 08:47	7° <b>ჲ</b> 07'34	1°41'19	direct	4348 Aug 01 17:52 4348 Aug 04 18:47	29°93933	
minimum elong	4347 Sep 29 10:10	7° <b>£</b> 0734	1°41'19	direct	4348 Aug 08 21:33	29 <b>201843</b> 0° <b>Ω</b>	
max. Earth dist.	4347 Sep 29 10.10 4347 Oct 05 08:00	18° <b>£</b> 36'58	1.37425 AU	morning max el	4348 Aug 16 03:31	0 8 <i>t</i> 4° <b>Ω</b> 36'06	21°02'24
evening rise	4347 Oct 03 08:00 4347 Oct 09 02:18	25° <b>£</b> 29'10	1.31743 AU	asc. node	4348 Aug 27 13:38	4 8€36 06 20°Ω02'10	21 U224
Cronning 1150	4347 Oct 19 02:18 4347 Oct 11 15:50	0° <b>™</b>		ase. Houc	4348 Sep 01 21:05	0° Mp	
desc. node	4347 Oct 17 13:30 4347 Oct 17 12:21	9°M48'50		morning set	4348 Sep 04 19:21	5° <b>m</b> ) 57'10	
3555. 11040	4347 Oct 30 23:57	0° <b>√</b> 7			.5.0 бор от 17.21	5 ng 5/ 10	
	500 55 25.51	- ··					

:	4240 C 12 04.52	210m 2115C	1044101	:	4240 A 27 00-26	50 m, 57100	1920140
superior conj	4348 Sep 12 04:53	21° m/21'56	1°44'01	superior conj	4349 Aug 27 08:26	5° m 57'28	1°39'49
minimum elong	4348 Sep 12 04:43	21° mp 21'04	1°44'00	minimum elong	4349 Aug 27 07:04	5° <b>m</b> 50'14	1°39'43
	4348 Sep 16 11:17	0∘ <b>⊽</b>		max. Earth dist.	4349 Aug 30 10:52	12°M 28'53	1.34051 AU
max. Earth dist.	4348 Sep 16 17:08	0° <b>£</b> 28'54	1.35562 AU	evening rise	4349 Sep 04 05:00	22° Mp 05'38	
evening rise	4348 Sep 20 20:19	8° <b>≏</b> 26'49			4349 Sep 08 08:32	0∘ <b>ত</b>	
desc. node	4348 Oct 03 09:23	0°ML09'17		desc. node	4349 Sep 20 06:24	20° <b>≏</b> 09'11	
	4348 Oct 03 07:03	0° <b>M</b> .			4349 Sep 27 01:30	0°M₊	
	4348 Oct 26 00:24	0° <b>∡</b> ¹		evening max el	4349 Oct 08 20:54	13°M51'11	27°10'25
evening max el	4348 Oct 26 08:13	0° <b>₹</b> 19'01	26°27'25	retrograde	4349 Oct 22 05:28	21°M08'44	
retrograde	4348 Nov 08 04:47	7° <b>∡</b> ³32'00		evening set	4349 Oct 29 02:48	18°M27'51	
evening set	4348 Nov 14 14:59	4° <b>×</b> 754'58		min. Earth dist.	4349 Nov 01 23:41	14°M45'58	0.65042 AU
min. Earth dist.	4348 Nov 18 18:07	0° <b>∡</b> 737'41	0.66314 AU	inferior conj	4349 Nov 04 03:15	12°M22'42	
IIIII. Eartii dist.			0.00314 AU	,			
	4348 Nov 19 06:40	30°RM₁		minimum elong	4349 Nov 04 06:49	12°M12'47	2°04'11
inferior conj	4348 Nov 20 09:44	28°M37'50		morning rise	4349 Nov 10 11:51	6°M50'01	
minimum elong	4348 Nov 20 11:29	28°M32'32	1°03'18	asc. node	4349 Nov 10 09:53	6°M52'20	
asc. node	4348 Nov 23 12:49	25°M05'43		direct	4349 Nov 13 03:43	6°M12'22	
morning rise	4348 Nov 26 08:38	22°M52'02		morning max el	4349 Nov 19 15:14	9°M39'51	18°03'34
direct	4348 Nov 29 08:13	22°ML01'51			4349 Dec 03 14:49	0° <b>∡</b> ¹	
morning max el	4348 Dec 05 23:57	25°M40'17	18°34'07	morning set	4349 Dec 07 14:00	6° <b>∡</b> ³34'24	
· ·	4348 Dec 09 17:10	0° <b>∡</b> ¹		desc. node	4349 Dec 17 05:41	22° <b>₹</b> 23'08	
morning set	4348 Dec 26 11:15	25° <b>∡</b> ³31′27					
morning sec	4348 Dec 29 06:54	0°පි		superior conj	4349 Dec 21 18:39	29° <b>∡</b> ³39'27	0°30'56
11.		0 る 1° <b>る</b> 41'56					
desc. node	4348 Dec 30 08:38	1 641 36		minimum elong	4349 Dec 21 14:49	29° <b>х</b> 24'11	0°30'24
		<b></b>			4349 Dec 21 23:49	0° <b>ろ</b>	
superior conj	4349 Jan 11 11:35	20°る47'02		max. Earth dist.	4349 Dec 25 09:48	5° <b>る</b> 24'17	1.45065 AU
minimum elong	4349 Jan 11 02:45	20°る12'22	1°16'04	evening rise	4350 Jan 07 02:15	25° <b>る</b> 09'52	
max. Earth dist.	4349 Jan 11 14:15	20°る57'28	1.45271 AU		4350 Jan 10 05:27	0° <b>≈</b>	
	4349 Jan 17 08:30	0° <b>≈</b>		greatest brilliancy	4350 Jan 20 15:26	15° <b>≈</b> 51'24	-0.7m
evening rise	4349 Jan 27 06:37	15° <b>≈</b> 41'05			4350 Jan 31 00:27	0° <b>∀</b>	
greatest brilliancy	4349 Feb 05 02:09	29° <b>≈</b> 41'07	-0.8m	evening max el	4350 Feb 01 13:09	1° <b>)</b> 39'42	19°46'36
	4349 Feb 05 06:57	0° <b>∀</b>		asc. node	4350 Feb 06 09:09	5° <b>¥</b> 22'05	
evening max el	4349 Feb 18 06:55	18° <b>¥</b> 07'21	18°56'47	retrograde	4350 Feb 08 23:52	5° <b>¥</b> 58'39	
asc. node	4349 Feb 19 12:07	19° <b>)</b> 17'01	10 00 17	evening set	4350 Feb 12 15:08	4° <b>)</b> (41'18	
	4349 Feb 25 02:20	21° <b>H</b> 57'02		evening set	4350 Feb 17 01:56	30°R≈	
retrograde		21 X 57 02 20° <del>X</del> 53'35		::		•	2000150
evening set	4349 Feb 28 09:52		2020110	inferior conj	4350 Feb 18 01:30	28°≈42'22	
inferior conj	4349 Mar 06 00:20	15° <b>)</b> €09'28	3°29'10	minimum elong	4350 Feb 17 23:22	28°≈49'28	3°09'34
minimum elong	4349 Mar 05 23:02	15° <b>∺</b> 13'33	3°29'03	min. Earth dist.	4350 Feb 19 02:23	27° <b>≈</b> 19'44	0.66914 AU
min. Earth dist.	4349 Mar 07 15:54	13° <b>¥</b> 05'33	0.65751 AU	morning rise	4350 Feb 23 07:24	22° <b>≈</b> 28′19	
morning rise	4349 Mar 11 11:48	8° <b>¥</b> 56'14		direct	4350 Mar 01 07:54	19° <b>≈</b> 47'05	
direct	4349 Mar 18 00:11	6° <b>₩</b> 05'58		morning max el	4350 Mar 13 09:37	26° <b>≈</b> 59'19	25°25'10
desc. node	4349 Mar 28 07:49	11° <b>)</b> 14'45		desc. node	4350 Mar 15 04:52	28° <b>≈</b> 52'52	
morning max el	4349 Mar 31 00:28	13° <b>)</b> 47'43	26°39'22		4350 Mar 16 05:08	0° <b>∀</b>	
•	4349 Apr 13 03:51	$0^{\circ}\mathbf{\Upsilon}$			4350 Apr 06 19:03	$_{0}$ $^{\circ}$ $\Upsilon$	
	4349 May 01 19:48	0°8		morning set	4350 Apr 18 14:45	20° <b>Y</b> 06′05	
morning set	4349 May 05 23:15	7° <b>8</b> 40'00		max. Earth dist.	4350 Apr 22 07:33	26°Υ56'05	1.36257 AU
max. Earth dist.	4349 May 10 04:10	15° <b>8</b> 50'10	1.34515 AU	man. Darm dist.	4350 Apr 23 22:18	0°8	1.5020 / 110
max. Larm dist.	4347 May 10 04.10	13 030 10	1.54515 AO		+330 Apr 23 22.16	0 0	
aumorior aoni	4240 May 14 15:40	24° <b>8</b> 56'39	0020145	aumarian aani	1250 Apr. 20 06:12	8° <b>8</b> 30'01	1907155
superior conj	4349 May 14 15:49			superior conj	4350 Apr 28 06:43		
minimum elong	4349 May 14 17:53	25° <b>8</b> 07'22	0-38/21	minimum elong	4350 Apr 28 10:23	8° <b>8</b> 48'15	1-0/18
_	4349 May 17 02:03	0°II		asc. node	4350 May 05 08:30	22° <b>8</b> 49'43	
asc. node	4349 May 18 11:27	2° <b>Ⅱ</b> 55'16		evening rise	4350 May 06 10:14	25° <b>8</b> 00'24	
evening rise	4349 May 22 04:59	10° <b>Ⅱ</b> 44'17			4350 May 08 21:58	$\Pi$ $^{\circ}0$	
	4349 Jun 01 07:51	$0$ $\circ$ $\odot$		evening max el	4350 May 23 22:10	23° <b>Ⅱ</b> 28'57	19°50'13
evening max el	4349 Jun 10 12:41	12°511'04	21°04'35	retrograde	4350 Jun 02 23:38	28° <b>Ⅲ</b> 23'17	
retrograde	4349 Jun 22 07:34	17° <b>9</b> 58'10		evening set	4350 Jun 04 22:16	28° <b>Ⅲ</b> 13′07	
desc. node	4349 Jun 24 07:04	17° <b>©</b> 48'59		desc. node	4350 Jun 11 04:04	25° <b>Ⅱ</b> 46′07	
evening set	4349 Jun 24 12:42	17°5946'43		inferior conj	4350 Jun 13 19:41	24° <b>Ⅱ</b> 11'40	-0°47'16
inferior conj	4349 Jul 03 21:13	13°549'02	-2°46'08	minimum elong	4350 Jun 13 17:30	24° <b>I</b> 15'01	0°46'27
minimum elong	4349 Jul 03 13:45	13°959'31	2°43'40	min. Earth dist.	4350 Jun 15 22:38	22° <b>I</b> 53'42	
min. Earth dist.	4349 Jul 04 09:52	13°931'11	0.54818 AU	morning rise	4350 Jun 22 10:41	19° <b>I</b> I45'32	0.55570 AU
			U.J4010 AU	•			
morning rise	4349 Jul 12 14:59	9°950'07		direct	4350 Jun 26 18:27	19° <b>Ⅱ</b> 04'26	24022145
direct	4349 Jul 16 04:10	9°522'58	2202212	morning max el	4350 Jul 10 14:43	25° <b>Ⅱ</b> 56'17	24~22'42
morning max el	4349 Jul 29 00:15	15° <b>©</b> 30'09	22°39'04		4350 Jul 14 11:10	0ං <b>ව</b>	
	4349 Aug 09 06:31	$0^{\circ}\Omega$		asc. node	4350 Aug 01 07:46	28° <b>©</b> 38'31	
asc. node	4349 Aug 14 10:42	9° <b>Ω</b> 08'09			4350 Aug 01 23:54	$0$ $^{\circ}\Omega$	
morning set	4349 Aug 20 06:00	20° <b>Ω</b> 48′22		morning set	4350 Aug 04 17:46	5° <b>Ω</b> 42'07	
	4349 Aug 24 13:34	0° <b>m</b> p					

superior conj	4350 Aug 11 16:48	20° <b>Ω</b> 46′01	1°29'48	asc. node	4351 Jul 19 04:50	18° <b>©</b> 26'16	
minimum elong	4350 Aug 11 14:43	20° <b>Ω</b> 34'40	1°29'34	morning set	4351 Jul 20 05:01	20° <b>©</b> 33'20	
max. Earth dist.	4350 Aug 13 13:15	24° <b>Ω</b> 46'34	1.32948 AU		4351 Jul 24 13:53	$0 {\circ} \Omega$	
	4350 Aug 16 00:04	O° <b>m</b> y					
evening rise	4350 Aug 19 00:28	6° Mp 14'44		superior conj	4351 Jul 27 03:50	5° <b>Ω</b> 40'47	1°14'49
	4350 Aug 31 22:10	0∘ <b>ত</b>		minimum elong	4351 Jul 27 01:30	5° <b>Ω</b> 27'57	1°14'28
desc. node	4350 Sep 07 03:25	9° <b>£</b> 39'47		max. Earth dist.	4351 Jul 27 21:52	7° <b>Ω</b> 19'58	1.32261 AU
evening max el	4350 Sep 21 07:57	27° <b>₽</b> 01'02	27°26'51	evening rise	4351 Aug 03 03:31	20° <b>Ω</b> 44'59	
	4350 Sep 24 19:00	0° <b>M</b> ₊		•	4351 Aug 07 17:40	0° <b>m</b> )	
retrograde	4350 Oct 04 23:51	4° <b>ጤ</b> 17'24		desc. node	4351 Aug 25 00:26	28° <b>m</b> 29'11	
evening set	4350 Oct 12 03:49	1° <b>M</b> 41'50			4351 Aug 26 03:50	0° <u>ٽ</u>	
<b>3</b>	4350 Oct 14 06:18	30° <b>R≏</b>		evening max el	4351 Sep 03 14:56	9° <b>£</b> 35'30	27°11'37
min. Earth dist.	4350 Oct 15 19:48	28° <b>£</b> 32'37	0.63430 AU	retrograde	4351 Sep 17 11:21	16° <b>≏</b> 48'48	
inferior conj	4350 Oct 18 11:28	25° <b>£</b> 53'16		evening set	4351 Sep 24 14:16	14° <b>£</b> 30'31	
minimum elong	4350 Oct 18 16:42	25° <b>⊆</b> 40'08	3°05'36	min. Earth dist.	4351 Sep 28 05:21	11° <b>≏</b> 45'47	0.61525 AU
morning rise	4350 Oct 16 10:42 4350 Oct 25 07:02	20° <b>£</b> 37'15	3 03 30	inferior conj	4351 Oct 01 07:18	9° <b>₽</b> 02'00	
direct	4350 Oct 27 17:44	20° <b>⊆</b> 08'30		minimum elong	4351 Oct 01 07:18	8° <b>≏</b> 48'31	
asc. node	4350 Oct 27 17:44 4350 Oct 28 06:58	20° <b>⊆</b> 10'00		•	4351 Oct 01 13:22 4351 Oct 08 14:19	4° <b>£</b> 05'58	4 03 20
			17950127	morning rise			
morning max el	4350 Nov 03 07:58	23° <b>△</b> 33'42	17°50'27	direct	4351 Oct 10 22:36	3° <b>Ω</b> 42'59	
	4350 Nov 08 10:58	0°M		asc. node	4351 Oct 15 04:02	5° <b>Ω</b> 00'37	17055141
morning set	4350 Nov 19 18:29	18°M51'53		morning max el	4351 Oct 17 23:04	7° <b>Ω</b> 14'25	1/°55'41
	4350 Nov 26 05:25	0°⊀			4351 Nov 01 14:59	0° <b>™</b>	
		_		morning set	4351 Nov 02 18:16	2°M04'29	
superior conj	4350 Dec 01 22:41	9° <b>∡</b> ³35'34	0°15'05				
minimum elong	4350 Dec 02 00:16	9° <b>∡</b> ¹42'03	0°14'51	superior conj	4351 Nov 13 05:32	20°M50'37	0°52'50
behind sun begin	4350 Dec 01 20:31	9° <b>∡</b> ¹26'34		minimum elong	4351 Nov 13 09:29	21° <b>M</b> 07'46	0°52'18
behind sun end	4350 Dec 02 04:00	9° <b>∡</b> 757'30			4351 Nov 18 14:33	0° <b>∡</b> ¹	
desc. node	4350 Dec 04 02:42	13° <b>渘</b> ¹09'04		max. Earth dist.	4351 Nov 20 17:10	3° <b>∡</b> ¹29'44	1.42627 AU
max. Earth dist.	4350 Dec 08 03:45	19° <b>∡</b> ¹41'04	1.44146 AU	desc. node	4351 Nov 20 23:44	3° <b>∡</b> 56'45	
	4350 Dec 14 16:43	ರ∘ರ		evening rise	4351 Nov 27 04:05	13° <b>∡</b> 53′17	
evening rise	4350 Dec 17 12:02	4° <b>ට</b> 20'36			4351 Dec 07 16:57	8°0	
	4351 Jan 03 16:39	0° <b>≈</b>		evening max el	4351 Dec 29 09:18	28° <b>る</b> 47'04	22°04'27
evening max el	4351 Jan 15 13:57	15° <b>≈</b> 12'38	20°50'22		4351 Dec 30 15:11	0° <b>≈</b>	
retrograde	4351 Jan 23 22:02	20°≈08'16		retrograde	4352 Jan 07 18:58	4° <b>≈</b> 22'46	
asc. node	4351 Jan 24 06:13	20°≈07'38		asc. node	4352 Jan 11 03:15	3° <b>≈</b> 23'02	
evening set	4351 Jan 27 22:28	18° <b>≈</b> 36′08		evening set	4352 Jan 12 06:11	2°≈35'06	
inferior conj	4351 Feb 02 06:56	12° <b>≈</b> 25'00	2°40'35	S	4352 Jan 14 18:47	30°Rる	
minimum elong	4351 Feb 02 04:29	12° <b>≈</b> 33'28	2°39'55	inferior conj	4352 Jan 17 14:30	26° <b>ප</b> 15'09	2°02'47
min. Earth dist.	4351 Feb 02 18:38		0.67657 AU	minimum elong	4352 Jan 17 12:12	26° <b>る</b> 23'08	
morning rise	4351 Feb 07 10:19	6°≈11'44	0.07037710	min. Earth dist.	4352 Jan 17 14:22	26° <b>る</b> 15'39	
direct	4351 Feb 12 20:36	3°≈47'51		morning rise	4352 Jan 22 18:05	20°る04'10	0.000000710
morning max el	4351 Feb 23 18:16	10°≈17'59	23°58'36	direct	4352 Jan 27 13:36	18°る01'57	
desc. node	4351 Mar 02 01:54	10 ≈17 39 17°≈29'16	23 38 30	morning max el	4352 Feb 06 04:52	23° <b>ප්</b> 43'05	22020138
desc. Hode	4351 Mar 11 09:09	0° <b>\</b>		morning max ci	4352 Feb 11 17:47	23 <b>℃</b> 43 03	22 29 38
		0°Υ		desc. node	4352 Feb 11 17.47 4352 Feb 16 22:57	0 ∞ 6°≈47'44	
	4351 Mar 30 12:35 4351 Mar 31 08:59	1° <b>Υ</b> 27'23		desc. node		0 ≈4 / 44 0° <b>)</b>	
morning set			1 20220 411	. ,	4352 Mar 03 19:00		
max. Earth dist.	4351 Apr 04 03:48	8° <b>Y</b> 04'53	1.38328 AU	morning set	4352 Mar 11 00:08	11° <b>)</b> 29'44 19° <b>)</b> 48'07	1 40512 411
	4251 A 11 00:15	2100022125	1924152	max. Earth dist.	4352 Mar 15 23:52	19°π4807 0°Υ	1.40513 AU
superior conj	4351 Apr 11 09:15	21° <b>Υ</b> 23'25			4352 Mar 21 20:51	U- Y	
minimum elong	4351 Apr 11 13:59	21° <b>Y</b> 45'57	1°34'18		1252 ) 6 22 10 50	20002 (11.0	1056110
	4351 Apr 15 20:21	0°8		superior conj	4352 Mar 23 18:58	3° <b>Y</b> 26′18	
evening rise	4351 Apr 20 08:35	8° <b>8</b> 51'21		minimum elong	4352 Mar 23 23:20	3° <b>℃</b> 45'58	1°55'59
asc. node	4351 Apr 22 05:32	12° <b>8</b> 30'40		evening rise	4352 Apr 02 20:52	22° <b>Y</b> ′08'54	
	4351 May 02 06:31	$\Pi^{\circ}0$			4352 Apr 07 01:46	0°8	
evening max el	4351 May 06 19:11	5° <b>Ⅱ</b> 27'50	18°55'45	asc. node	4352 Apr 08 02:33	1° <b>8</b> 52'51	
retrograde	4351 May 15 06:40	9° <b>Ⅱ</b> 36'41		evening max el	4352 Apr 19 00:53	18° <b>8</b> 01'45	18°21'38
evening set	4351 May 17 08:59	9° <b>Ⅱ</b> 22'29		retrograde	4352 Apr 26 08:33	21° <b>8</b> 39'52	
inferior conj	4351 May 25 11:21	5° <b>Ⅱ</b> 05'46	1°01'30	evening set	4352 Apr 28 17:34	21° <b>8</b> 17'53	
minimum elong	4351 May 25 13:39	5° <b>Ⅱ</b> 01'40	1°00'42	inferior conj	4352 May 06 00:31	16° <b>8</b> 41'28	2°21'07
min. Earth dist.	4351 May 28 14:29	2° <b>Ⅱ</b> 53'15	0.56818 AU	minimum elong	4352 May 06 04:09	16° <b>8</b> 33'54	2°20'08
desc. node	4351 May 29 01:06	2° <b>Ⅱ</b> 35′25		min. Earth dist.	4352 May 09 11:07	13° <b>8</b> 51'08	0.58800 AU
morning rise	4351 Jun 02 15:04	0° <b>Ⅱ</b> 03'27		morning rise	4352 May 13 11:43	11° <b>8</b> 08'01	
-	4351 Jun 02 18:28	30° <b>₹</b> 8		desc. node	4352 May 14 22:07	10° <b>8</b> 26'44	
direct	4351 Jun 07 21:49	28° <b>8</b> 56'49		direct	4352 May 19 15:33	9° <b>8</b> 26'59	
	4351 Jun 13 02:07	0°II		morning max el	4352 Jun 03 01:00	17° <b>8</b> 13'01	27°09'58
morning max el	4351 Jun 22 05:28	6° <b>Ⅱ</b> 22'04	25°58'12	Ç	4352 Jun 13 14:40	0°Щ	
<b>5</b>	4351 Jul 09 13:53	0ಂಣ 			4352 Jul 01 00:39	0°೯	

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morning set	4352 Jul 03 14:04	5° <b>©</b> 16'15		asc. node	4353 Jun 21 22:51	28° <b>Ⅲ</b> 31'37	
asc. node	4352 Jul 05 01:51	8°925'30		use. Hode	4353 Jun 22 15:13	0°95	
				max. Earth dist.	4353 Jun 23 19:41	2°934'52	1.32136 AU
superior conj	4352 Jul 10 15:38	20°535'15	0°55'32				
minimum elong	4352 Jul 10 13:32	20°523'40	0°55'08	superior conj	4353 Jun 25 02:32	5° <b>©</b> 23'47	0°32'32
max. Earth dist.	4352 Jul 10 09:12	19° <b>©</b> 59'43	1.31991 AU	minimum elong	4353 Jun 25 01:07	5°ഇ16'01	0°32'14
	4352 Jul 14 22:26	$0^{\circ}\Omega$		evening rise	4353 Jul 01 22:30	20°©17'16	
evening rise	4352 Jul 17 11:34	5° <b>Ω</b> 28'03		C	4353 Jul 06 15:41	$0^{\circ}\Omega$	
	4352 Jul 30 09:49	0° <b>m</b>			4353 Jul 25 23:45	0° <b>m</b> p	
desc. node	4352 Aug 10 21:26	16° Mp 19'59		evening max el	4353 Jul 28 08:41	2° m 25'32	25°05'29
evening max el	4352 Aug 15 15:26	21° <b>m</b> 23'54	26°23'02	desc. node	4353 Jul 28 18:26	2° Mp 48'34	
retrograde	4352 Aug 29 14:39	28° <b>m</b> 33'31		retrograde	4353 Aug 11 07:27	9° <b>m</b> 29'01	
evening set	4352 Sep 05 05:18	26° Mp 45'22		evening set	4353 Aug 16 20:35	8° <b>m</b> 18'45	
min. Earth dist.	4352 Sep 09 04:47	24° Mp 10'19	0.59460 AU	min. Earth dist.	4353 Aug 21 20:19	5° <b>m</b> 35'08	0.57469 AU
inferior conj	4352 Sep 12 11:09	21° <b>m</b> 38'50	-4°50'53	inferior conj	4353 Aug 24 19:54	3° <b>m</b> 35'04	-5°12'45
minimum elong	4352 Sep 12 16:04	21°M/29'16	4°50'09	minimum elong	4353 Aug 24 20:36	3° m 33'53	5°12'44
morning rise	4352 Sep 20 05:01	17° <b>m</b> 05'08			4353 Aug 31 02:03	$30^\circ$ R $\Omega$	
direct	4352 Sep 22 14:08	16°Mp45'11		morning rise	4353 Sep 01 22:58	29° <b>Ω</b> 23'38	
morning max el	4352 Sep 30 09:05	20° m 32'04	18°20'31	direct	4353 Sep 04 12:22	29° <b>Ω</b> 04'29	
asc. node	4352 Oct 01 01:04	21° Mp 12'01			4353 Sep 08 17:26	0° <b>m</b> p	
	4352 Oct 07 12:44	0∘ <b>⊽</b>		morning max el	4353 Sep 13 10:43	3° Mp 17′12	19°06'24
morning set	4352 Oct 16 07:39	15° <b>≙</b> 55'14		asc. node	4353 Sep 17 22:06	8° <b>m</b> 29'31	
	4352 Oct 23 18:00	$0^{\circ}$ M.		morning set	4353 Sep 30 06:28	0° <b>£</b> 12'54	
					4353 Sep 30 03:52	0∘ <b>⊽</b>	
superior conj	4352 Oct 25 12:04	3°M14'08	1°19'44				
minimum elong	4352 Oct 25 15:49	3°M31'19	1°19'20	superior conj	4353 Oct 08 12:58	16° <b>≏</b> 31'21	1°36'07
max. Earth dist.	4352 Nov 02 01:01	16°M36'40	1.40701 AU	minimum elong	4353 Oct 08 15:18	16° <b>£</b> 42'39	1°35'58
evening rise	4352 Nov 06 15:01	24°M18'29		max. Earth dist.	4353 Oct 15 05:46	29° <b>≏</b> 02'47	1.38611 AU
desc. node	4352 Nov 06 20:46	24°M42'04			4353 Oct 15 18:29	0°M₊	
	4352 Nov 10 03:18	0° <b>∡</b>		evening rise	4353 Oct 19 01:12	5° <b>M</b> 47'14	
	4352 Nov 30 14:03	0°ರ		desc. node	4353 Oct 24 17:46	15°M21'19	
evening max el	4352 Dec 11 00:28	12° <b>る</b> 24'21	23°24'01		4353 Nov 03 03:55	0° <b>∡</b> ¹	
retrograde	4352 Dec 21 13:05	18° <b>る</b> 37'55		evening max el	4353 Nov 23 13:29	26° <b>₰</b> 05'41	24°42'42
evening set	4352 Dec 26 12:39	16° <b>る</b> 34'25			4353 Nov 28 01:50	0°ප	
asc. node	4352 Dec 28 00:16	15° <b>る</b> 08'50		retrograde	4353 Dec 05 03:11	2° <b>る</b> 49'54	
inferior conj	4352 Dec 31 22:19	10°る09'35	1°17'47	evening set	4353 Dec 10 16:19	0°る31'07	
minimum elong	4352 Dec 31 20:38	10°る15'23	1°17'07		4353 Dec 11 06:14	30°₹ <b>⋌</b> 7	
min. Earth dist.	4352 Dec 31 11:11	10° <b>る</b> 47'48	0.67987 AU	asc. node	4353 Dec 14 21:18	25° <b>∡</b> ¹49'16	
morning rise	4353 Jan 06 04:32	4° <b>る</b> 02'44		min. Earth dist.	4353 Dec 15 06:41	25° <b>҂</b> 18'30	0.67613 AU
direct	4353 Jan 10 09:51	2° <b>る</b> 23'18		inferior conj	4353 Dec 16 04:36	24° <b>₰</b> 05'44	0°26'35
morning max el	4353 Jan 18 20:48	7° <b>る</b> 17'10	21°06'47	minimum elong	4353 Dec 16 03:57	24° <b>尽</b> 07'53	0°26'18
desc. node	4353 Feb 02 19:59	26° <b>る</b> 36'21		morning rise	4353 Dec 21 15:43	18° <b>₰</b> 05'12	
	4353 Feb 05 03:52	0° <b>≈</b>		direct	4353 Dec 25 08:05	16° <b>∡</b> 747'17	
morning set	4353 Feb 18 11:16	20°≈14'18		morning max el	4354 Jan 01 20:30	21° <b>∡</b> 02'42	19°55'41
	4353 Feb 24 14:11	0° <b>∀</b>			4354 Jan 09 05:06	0°₹	
max. Earth dist.	4353 Feb 26 02:01	2° <b>∺</b> 25'50	1.42526 AU	desc. node	4354 Jan 20 17:01	16° <b>る</b> 46'42	
				morning set	4354 Jan 28 07:27	28° <b>る</b> 23'41	
superior conj	4353 Mar 05 06:55	14° <b>∺</b> 27'38			4354 Jan 29 08:23	0° <b>≈</b>	
minimum elong	4353 Mar 05 08:12	14° <b>)</b> (33′09	2°07'30	max. Earth dist.	4354 Feb 08 12:23	15° <b>≈</b> 56'57	1.44104 AU
	4353 Mar 14 03:50	0° <b>Υ</b>					
evening rise	4353 Mar 16 19:07	4° <b>Υ</b> 44'12		superior conj	4354 Feb 13 17:17	24°≈19'44	
asc. node	4353 Mar 25 23:34	20° <b>Y</b> 49'57		minimum elong	4354 Feb 13 12:44	24°≈01'12	2°02'51
	4353 Apr 01 12:14	0° <b>8</b>			4354 Feb 17 04:19	0° <b>∀</b>	
evening max el	4353 Apr 02 11:47	1° <b>8</b> 01'30	18°07'21	evening rise	4354 Feb 26 22:58	16° <b>¥</b> 28'15	
retrograde	4353 Apr 09 03:18	4° <b>8</b> 25'09			4354 Mar 06 21:57	0° <b>Υ</b>	
evening set	4353 Apr 11 18:53	3° <b>8</b> 52'57		asc. node	4354 Mar 12 20:35	9°Υ13'27	10010100
	4353 Apr 17 06:33	30°RΥ	2000/20	evening max el	4354 Mar 17 00:34	14° <b>Υ</b> 17'33	18°12'09
inferior conj	4353 Apr 18 09:36	28° <b>Y</b> 55'54	3°09'29	retrograde	4354 Mar 23 10:36	17° <b>Υ</b> 41'33	
minimum elong	4353 Apr 18 12:18	28° <b>Y</b> 49'25	3°09'01	evening set	4354 Mar 26 08:12	16° <b>Y</b> 57'48	2021157
min. Earth dist.	4353 Apr 21 14:31	25° <b>Y</b> 52'22	0.60992 AU	inferior conj	4354 Apr 01 10:42	11° <b>Υ</b> 40'58	3°31'56
morning rise	4353 Apr 25 03:42	23°Υ01'57		minimum elong	4354 Apr 01 11:42	11° <b>Υ</b> 38'14	3°31'52
direct	4353 May 01 20:55	20° <b>Υ</b> 47'16		min. Earth dist.	4354 Apr 04 02:33	8° <b>Υ</b> 48'06	0.63089 AU
desc. node	4353 May 01 19:09	20° <b>Y</b> 47'17	27947124	morning rise	4354 Apr 07 14:05	5°Υ35'14	
morning max el	4353 May 16 02:46	28° <b>Y</b> 43'41	27°47'34	direct	4354 Apr 14 11:16	2°Υ56'24	
	4353 May 17 08:40	0° <b>Β</b>		desc. node	4354 Apr 18 16:11	3°Υ48'29	27047124
	4353 Jun 07 10:47	0°Ⅱ 10°Ⅲ45!14		morning max el	4354 Apr 28 09:46	10° <b>Y</b> 55′03	27°47'31
morning set	4353 Jun 17 19:09	19° <b>Ⅱ</b> 45'14			4354 May 13 09:52	0° <b>8</b>	

	4354 May 30 19:09	0° <b>I</b> I			4355 Apr 16 11:33	0° <b>Ƴ</b>	
morning set	4354 Jun 01 18:00	3° <b>I</b> I52'12			4355 May 06 18:04	0°8	
max. Earth dist.	4354 Jun 07 01:20	14° <b>∏</b> 51'42	1.32706 AU	morning set	4355 May 16 07:50	17° <b>8</b> 29'12	
asc. node	4354 Jun 08 19:52	18° <b>Ⅱ</b> 39'26		max. Earth dist.	4355 May 20 22:22	26° <b>8</b> 40'10	1.33725 AU
					4355 May 22 13:09	0°II	
superior conj	4354 Jun 09 10:41	19° <b>Ⅱ</b> 59'21	0°06'28		·		
minimum elong	4354 Jun 09 10:23	19° <b>Ⅱ</b> 57'41	0°06'23	superior conj	4355 May 24 14:08	4° <b>Ⅱ</b> 16′12	-0°21'52
behind sun begin	4354 Jun 09 05:32	19° <b>Ⅱ</b> 31'30		minimum elong	4355 May 24 15:16	4° <b>Ⅲ</b> 22'12	0°21'39
behind sun end	4354 Jun 09 15:13	20° <b>Ⅲ</b> 23'53		asc. node	4355 May 26 16:54	8° <b>Ⅱ</b> 45′13	
	4354 Jun 14 01:26	0°€		evening rise	4355 May 31 21:13	19° <b>Ⅱ</b> 45'23	
evening rise	4354 Jun 16 10:19	5° <b>©</b> 05'00			4355 Jun 05 22:18	$0$ $\circ$ $\odot$	
	4354 Jun 29 17:35	$0^{\circ}\Omega$		evening max el	4355 Jun 21 13:33	23° <b>©</b> 19'46	21°54'51
evening max el	4354 Jul 09 21:33	12° <b>Ω</b> 53'43	23°30'47	desc. node	4355 Jul 02 12:27	29° <b>©</b> 28'41	
desc. node	4354 Jul 15 15:26	17° <b>Ω</b> 22'53		retrograde	4355 Jul 04 04:52	29° <b>©</b> 35'18	
retrograde	4354 Jul 23 11:42	19° <b>Ω</b> 42'19		evening set	4355 Jul 06 21:45	29°5518'55	
evening set	4354 Jul 27 13:25	19° <b>Ω</b> 06'00	0.55051	min. Earth dist.	4355 Jul 15 17:40	25°932'10	0.54931 AU
min. Earth dist.	4354 Aug 03 07:20	15° <b>£</b> 57'39	0.55851 AU	inferior conj	4355 Jul 16 05:41	25°5015'20	
inferior conj	4354 Aug 05 08:30	14° <b>Ω</b> 44'39		minimum elong	4355 Jul 15 21:03	25°927'26	3°43'32
minimum elong	4354 Aug 05 03:00	14° <b>£</b> 52'51	4°53′5/	morning rise direct	4355 Jul 24 21:54	21°524'11	
morning rise direct	4354 Aug 13 19:02	10° <b>Ω</b> 50'30 10° <b>Ω</b> 30'32			4355 Jul 28 03:19	21° <b>©</b> 01'17 26° <b>©</b> 39'07	21°41'59
morning max el	4354 Aug 16 15:21 4354 Aug 27 01:14	10 <b>δι</b> 30 32	20°14'12	morning max el	4355 Aug 09 04:00 4355 Aug 12 09:01	26 <b>3</b> 3907 0° <b>Ω</b>	21 41 39
asc. node	4354 Sep 04 19:08	26° <b>Ω</b> 38'20	20 14 12	asc. node	4355 Aug 22 16:11	15°Ω26'23	
asc. Houc	4354 Sep 06 18:53	0° m		morning set	4355 Aug 29 20:52	29° <b>Ω</b> 36'13	
morning set	4354 Sep 14 11:40	14° <b>m</b> ) 48'48		morning set	4355 Aug 30 01:26	0°m	
morning set	4354 Sep 21 21:39	0° <b>⊡</b>			4555 Mag 50 01.20	V III	
	4334 бер 21 21.37	<b>~</b>		superior conj	4355 Sep 06 02:51	14° <b>m</b> 52'33	1°43'00
superior conj	4354 Sep 22 03:13	0° <b>£</b> 28'05	1°43'23	minimum elong	4355 Sep 06 02:08	14° <b>m</b> ) 48'45	1°42'58
minimum elong	4354 Sep 22 03:55	0° <b>£</b> 31'34	1°43'22	max. Earth dist.	4355 Sep 10 00:31	22° m) 54'25	1.34867 AU
max. Earth dist.	4354 Sep 27 12:00	11° <b>≏</b> 01'26	1.36600 AU		4355 Sep 13 14:34	0∘ <u>⊽</u>	
evening rise	4354 Oct 01 08:43	18° <b>≏</b> 14'47		evening rise	4355 Sep 14 09:26	1° <b>≏</b> 30'50	
-	4354 Oct 08 01:37	0°M		desc. node	4355 Sep 28 11:47	26° <b>ჲ</b> 02'34	
desc. node	4354 Oct 11 14:47	5°M50'05			4355 Oct 01 01:30	$0^{\circ}$ M	
	4354 Oct 28 09:28	0° <b>∡</b> 7		evening max el	4355 Oct 19 14:28	23°M26'48	26°48'32
evening max el	4354 Nov 06 01:57	9° <b>∡</b> ¹48'42	25°53'22		4355 Oct 28 23:20	0° <b>∡</b> 7	
retrograde	4354 Nov 18 12:33	16° <b>∡</b> 53'57		retrograde	4355 Nov 01 16:41	0° <b>х</b> 43′03	
evening set	4354 Nov 24 15:29	14° <b>≯</b> 22′08			4355 Nov 05 04:29	30°RM	
min. Earth dist.	4354 Nov 28 22:31	9° <b>₰</b> ⁴44'40	0.66888 AU	evening set	4355 Nov 08 08:10	28°M03'05	
inferior conj	4354 Nov 30 07:34	8° <b>₰</b> 00'47		min. Earth dist.	4355 Nov 12 08:24	24°M01'20	0.65812 AU
minimum elong	4354 Nov 30 08:21	7° <b>∡</b> 58'19 −	0°29'25	inferior conj	4355 Nov 14 05:11	21°M50'30	
asc. node	4354 Dec 01 18:21	6° <b>≯</b> 13′22		minimum elong	4355 Nov 14 07:41	21°M43'09	1°28'55
morning rise	4354 Dec 06 01:38	2° <b>₹</b> 09'02		asc. node	4355 Nov 18 15:25	17°M17'00	
direct	4354 Dec 09 06:47	1°× <b>7</b> 09'47	10050100	morning rise	4355 Nov 20 08:03	16°M10'14	
morning max el	4354 Dec 16 03:56	4° <b>₹</b> 58'20	18°59'22	direct	4355 Nov 23 04:02	15°M25'56	10010100
	4355 Jan 02 23:02	0°궁 7°궁12'09		morning max el	4355 Nov 29 17:09	18°M58'29	18°19'08
morning set desc. node	4355 Jan 07 13:54 4355 Jan 07 14:03	7 31209 7° <b>3</b> 12'46		morning set	4355 Dec 08 01:44 4355 Dec 18 23:31	0° ⊀ <sup>7</sup> 17° ≮ <sup>7</sup> 24'00	
max. Earth dist.	4355 Jan 22 04:49	0°≈04'48	1.45050 AU	desc. node	4355 Dec 25 11:05	27° <b>×</b> <sup>7</sup> 49'21	
max. Darm dist.	4355 Jan 22 03:35	0°≈	1.43030710	dese. Hode	4355 Dec 26 19:50	0°る	
		÷ : • :			222 20 20 17.00		
superior conj	4355 Jan 24 04:37	3° <b>≈</b> 13'05	-1°39'03	superior conj	4356 Jan 03 07:08	11° <b>る</b> 48'58	-0°58'14
minimum elong	4355 Jan 23 19:30	2° <b>≈</b> 37'06	1°38'13	minimum elong	4356 Jan 02 23:58	11° <b>る</b> 20'44	
evening rise	4355 Feb 08 04:39	27°≈16′00		max. Earth dist.	4356 Jan 04 23:49	14° <b>る</b> 28'38	1.45267 AU
	4355 Feb 09 20:53	0° <b>∀</b>			4356 Jan 14 21:49	0° <b>≈</b>	
asc. node	4355 Feb 27 17:37	26° <b>)</b> 53′32		evening rise	4356 Jan 19 11:18	7° <b>≈</b> 08'39	
evening max el	4355 Feb 28 12:28	27° <b>)</b> 43′18	18°35'23	greatest brilliancy	4356 Jan 30 11:54	24° <b>≈</b> 20′12	-0.8m
	4355 Mar 03 04:56	$0^{\circ}\Upsilon$			4356 Feb 03 06:03	0° <b>∀</b>	
retrograde	4355 Mar 07 02:13	1° <b>Y</b> 20'39		evening max el	4356 Feb 11 21:12	11° <b>¥</b> 13'32	19°16'03
evening set	4355 Mar 10 05:53	0° <b>Y</b> 24'35		asc. node	4356 Feb 14 14:41	13° <b>¥</b> 37'11	
	4355 Mar 10 21:14	30° <b>₹</b>		retrograde	4356 Feb 18 22:27	15° <b>¥</b> 15′03	
inferior conj	4355 Mar 15 23:49	24° <b>)</b> (49′38		evening set	4356 Feb 22 09:02	14° <b>)</b> €05'52	
minimum elong	4355 Mar 15 23:15	24° <b>)</b> 51'22	3°34'36	inferior conj	4356 Feb 27 21:27	8° <b>¥</b> 15′00	3°22'25
min. Earth dist.	4355 Mar 18 00:11	22° <b>)</b> 24'50	0.64889 AU	minimum elong	4356 Feb 27 19:44	8° <b>¥</b> 20'33	3°22'11
morning rise	4355 Mar 21 16:03	18° <b>¥</b> 37'55		min. Earth dist.	4356 Feb 29 06:35	6° <b>¥</b> 28'09	0.66292 AU
direct	4355 Mar 28 09:13	15° <b>¥</b> 48′09		morning rise	4356 Mar 04 06:08	2° <b>∺</b> 00'53	
desc. node	4355 Apr 10 10:36	19° <b>₩</b> 03'21	27012127	direct	4356 Mar 07 04:28	30°R≈ 20°2013'16	
morning max el	4355 Apr 10 19:36	23° <b>∺</b> 39'49	27°12'37	direct	4356 Mar 10 13:42	29° <b>≈</b> 13'16	

	4356 Mar 14 05:10	0° <b>∀</b>		min. Earth dist.	4357 Feb 11 19:53	20°≈47'22	0.67279 AU
desc. node	4356 Mar 22 10:17	5° <b>)</b> 57'13		morning rise	4357 Feb 16 05:10	15°≈38'06	0.07277 AC
morning max el	4356 Mar 23 05:32	6° <b>)</b> (45'00	26°10'00	direct	4357 Feb 21 23:49	13° <b>≈</b> 03'10	
morning max ci	4356 Apr 10 05:42	0° <b>Υ</b>	20 10 00	morning max el	4357 Mar 05 14:13	19° <b>≈</b> 59'30	24°49'10
morning set	4356 Apr 28 08:55	0° <b>8</b> 25'21		desc. node	4357 Mar 09 07:20	24° <b>≈</b> 02'08	2, 10
morning sec	4356 Apr 28 03:28	0°8		dese. Hode	4357 Mar 14 03:37	0° <b>∀</b>	
max. Earth dist.	4356 May 02 07:59	7° <b>8</b> 57'28	1.35202 AU		4357 Apr 03 09:35	0°Υ	
man zam ust.	1500 11149 02 07.05	, 30, 20	1.30202110	morning set	4357 Apr 10 16:09	12° <b>Y</b> 25'51	
superior conj	4356 May 07 10:28	18° <b>8</b> 07'42	-0°51'13	max. Earth dist.	4357 Apr 14 07:02	18° <b>Y</b> '57'58	1.37100 AU
minimum elong	4356 May 07 13:14	18° <b>8</b> 21'48	0°50'43		4357 Apr 20 03:06	0°8	
asc. node	4356 May 12 13:58	28° <b>8</b> 45'05			r		
	4356 May 13 04:24	0° <b>I</b> I		superior conj	4357 Apr 20 20:36	1° <b>8</b> 25'10	-1°19'48
evening rise	4356 May 15 05:10	4° <b>Ⅱ</b> 12'12		minimum elong	4357 Apr 21 00:49	1° <b>8</b> 45'49	1°19'10
	4356 May 29 22:00	0ಂಣ		evening rise	4357 Apr 29 07:49	18° <b>8</b> 18'11	
evening max el	4356 Jun 02 15:56	४°छ14'54	20°30'40	asc. node	4357 Apr 29 11:01	18° <b>8</b> 34'13	
retrograde	4356 Jun 13 17:58	9° <b>5</b> 340'02			4357 May 05 08:48	$\Pi^{\circ}0$	
evening set	4356 Jun 15 18:09	9° <b>5</b> 30'05		evening max el	4357 May 16 06:42	15° <b>Ⅱ</b> 51′06	19°24'39
desc. node	4356 Jun 18 09:29	8° <b>5</b> 49'06		retrograde	4357 May 25 15:01	20° <b>Ⅲ</b> 24′10	
inferior conj	4356 Jun 24 23:32	5° <b>5</b> 32'38	-1°56'34	evening set	4357 May 27 14:27	20° <b>Ⅲ</b> 12'51	
minimum elong	4356 Jun 24 18:04	5° <b>5</b> 40'32	1°54'35	inferior conj	4357 Jun 05 04:17	16° <b>Ⅲ</b> 06′22	0°01'39
min. Earth dist.	4356 Jun 26 05:40	4° <b>5</b> 349'01	0.54942 AU	minimum elong	4357 Jun 05 04:21	16° <b>Ⅱ</b> 06'15	0°01'37
morning rise	4356 Jul 03 17:06	1°523'43		transit middle	4357 Jun 05 04:21	16° <b>Ⅲ</b> 06′15	0°01'37
direct	4356 Jul 07 13:04	0°\$52'03		transit begin	4357 Jun 05 00:30	16° <b>Ⅱ</b> 12'31	
morning max el	4356 Jul 20 21:35	7° <b>5</b> 20'01	23°23'07	transit end	4357 Jun 05 08:13	15° <b>Ⅲ</b> 59'59	
	4356 Aug 06 01:18	$0^{\circ}\Omega$		desc. node	4357 Jun 05 06:31	16° <b>Ⅲ</b> 02'45	
asc. node	4356 Aug 08 13:14	4° <b>Ω</b> 43'57		min. Earth dist.	4357 Jun 07 19:49	14° <b>Ⅲ</b> 23'38	0.55908 AU
morning set	4356 Aug 13 08:14	14° <b>Ω</b> 29'44		morning rise	4357 Jun 13 15:24	11° <b>Ⅲ</b> 24'55	
				direct	4357 Jun 18 08:56	10° <b>Ⅲ</b> 34′05	
superior conj	4356 Aug 20 08:49	29° <b>Ω</b> 35′28	1°36'13	morning max el	4357 Jul 02 11:20	17° <b>Ⅲ</b> 42'18	25°05'11
minimum elong	4356 Aug 20 07:06	29° <b>Ω</b> 26′12	1°36'05		4357 Jul 12 14:38	0°9	
	4356 Aug 20 13:23	0° <b>m</b>		asc. node	4357 Jul 26 10:17	24° <b>5</b> 22'18	
max. Earth dist.	4356 Aug 22 21:55	5° <b>m</b> 01'12	1.33525 AU	morning set	4357 Jul 28 19:58	29° <b>5</b> 22'54	
evening rise	4356 Aug 27 23:12	15° <b>m</b> 24'32			4357 Jul 29 02:58	$0^{\circ}\Omega$	
	4356 Sep 04 16:57	0∘ <b>ত</b>					
desc. node	4356 Sep 14 08:49	15° <b>≏</b> 51'39		superior conj	4357 Aug 04 18:34	14° <b>Ω</b> 27'36	1°24'01
	4356 Sep 24 18:29	0°M		minimum elong	4357 Aug 04 16:19	14° <b>Ω</b> 15'18	1°23'44
evening max el	4356 Oct 01 02:35	6°№50'59	27°20'59	max. Earth dist.	4357 Aug 06 03:14	17° <b>Ω</b> 25'52	1.32606 AU
retrograde	4356 Oct 14 15:03	14° <b>™</b> 09'27		evening rise	4357 Aug 11 22:16	29° <b>Ω</b> 44'01	
evening set	4356 Oct 21 15:50	11° <b>M</b> 29'19			4357 Aug 12 01:23	0° <b>m</b> )	
min. Earth dist.	4356 Oct 25 10:15	8°M01'56	0.64393 AU		4357 Aug 28 18:42	0∘ <b>ত</b>	
inferior conj	4356 Oct 27 19:06	5°M 30'24					
minimum elong		3 IIG302 <del>T</del>	-2°32'00	desc. node	4357 Sep 01 05:50	5° <b>≏</b> 06'26	
marnina risa	4356 Oct 27 23:25	5°M18'51		desc. node evening max el	Č	5° <b>£</b> 06′26 19° <b>£</b> 47′48	27°24'29
morning rise					4357 Sep 01 05:50		27°24'29
morning rise	4356 Oct 27 23:25	5°M18'51		evening max el	4357 Sep 01 05:50 4357 Sep 13 12:21	19° <b>≏</b> 47'48	27°24'29
asc. node	4356 Oct 27 23:25 4356 Nov 03 08:16	5°M18'51 0°M04'30		evening max el retrograde	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43	19° <b>£</b> 47'48 27° <b>£</b> 02'56	27°24'29 0.62650 AU
	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 03 12:36	5°ጤ18'51 0°ጤ04'30 30°ጺ <b>立</b>		evening max el retrograde evening set	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09	19° <b>Ω</b> 47'48 27° <b>Ω</b> 02'56 24° <b>Ω</b> 33'29	0.62650 AU
asc. node	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 03 12:36 4356 Nov 04 12:28	5°M18'51 0°M04'30 30°RΩ 29°Ω40'59		evening max el retrograde evening set min. Earth dist.	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 08 02:09	19° <b>£</b> 47'48 27° <b>£</b> 02'56 24° <b>£</b> 33'29 21° <b>£</b> 35'39	0.62650 AU -3°32'42
asc. node	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 03 12:36 4356 Nov 04 12:28 4356 Nov 05 21:29	5°M18'51 0°M04'30 30°RΩ 29°Ω40'59 29°Ω31'13	2°30'22	evening max el retrograde evening set min. Earth dist. inferior conj	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 08 02:09 4357 Oct 10 22:28	19° <b>£</b> 47'48 27° <b>£</b> 02'56 24° <b>£</b> 33'29 21° <b>£</b> 35'39 18° <b>£</b> 52'50	0.62650 AU -3°32'42
asc. node direct	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 03 12:36 4356 Nov 04 12:28 4356 Nov 05 21:29 4356 Nov 08 06:18	5°M18'51 0°M04'30 30°R <u>ჲ</u> 29° <b>ჲ</b> 40'59 29° <b>ჲ</b> 31'13 0°M	2°30'22	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 08 02:09 4357 Oct 10 22:28 4357 Oct 11 04:12	19° <b>△</b> 47'48 27° <b>△</b> 02'56 24° <b>△</b> 33'29 21° <b>△</b> 35'39 18° <b>△</b> 52'50 18° <b>△</b> 39'06	0.62650 AU -3°32'42
asc. node direct morning max el	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 03 12:36 4356 Nov 04 12:28 4356 Nov 05 21:29 4356 Nov 08 06:18 4356 Nov 12 09:29	5°M18'51 0°M04'30 30°R <u>ជ</u> 29° <b>ユ</b> 40'59 29° <b>ユ</b> 31'13 0°M 2°M57'00	2°30'22	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 08 02:09 4357 Oct 10 22:28 4357 Oct 11 04:12 4357 Oct 17 22:53	19° \( \Omega 47'48\) 27° \( \Omega 02'56\) 24° \( \Omega 33'29\) 21° \( \Omega 35'39\) 18° \( \Omega 52'50\) 18° \( \Omega 39'06\) 13° \( \Omega 44'38\)	0.62650 AU -3°32'42
asc. node direct morning max el	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 03 12:36 4356 Nov 04 12:28 4356 Nov 05 21:29 4356 Nov 08 06:18 4356 Nov 12 09:29 4356 Nov 29 13:57	5°M18'51 0°M04'30 30°R£ 29°£40'59 29°£31'13 0°M 2°M57'00 29°M00'45	2°30'22	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 08 02:09 4357 Oct 10 22:28 4357 Oct 11 04:12 4357 Oct 17 22:53 4357 Oct 20 08:06	19° \( \Omega 47'48\) 27° \( \Omega 02'56\) 24° \( \Omega 33'29\) 21° \( \Omega 35'39\) 18° \( \Omega 52'50\) 18° \( \Omega 39'06\) 13° \( \Omega 44'38\) 13° \( \Omega 18'44\)	0.62650 AU -3°32'42
asc. node direct morning max el morning set	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 03 12:36 4356 Nov 04 12:28 4356 Nov 05 21:29 4356 Nov 08 06:18 4356 Nov 12 09:29 4356 Nov 29 13:57 4356 Nov 30 03:58	5°M18'51 0°M04'30 30°R Ω 29° Ω40'59 29° Ω31'13 0°M 2°M57'00 29° M00'45 0° ⊀	2°30'22	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 08 02:09 4357 Oct 10 22:28 4357 Oct 11 04:12 4357 Oct 17 22:53 4357 Oct 20 08:06 4357 Oct 22 09:30	19° \$\Pi44'48\$ 27° \$\Pi02'56\$ 24° \$\Pi33'29\$ 21° \$\Pi35'39\$ 18° \$\Pi52'50\$ 18° \$\Pi39'06\$ 13° \$\Pi44'38\$ 13° \$\Pi18'44\$ 13° \$\Pi38'35	0.62650 AU -3°32'42 3°30'55
asc. node direct morning max el morning set desc. node superior conj	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 03 12:36 4356 Nov 04 12:28 4356 Nov 05 21:29 4356 Nov 08 06:18 4356 Nov 12 09:29 4356 Nov 29 13:57 4356 Nov 30 03:58	5°M18'51 0°M04'30 30°R Ω 29° Ω40'59 29° Ω31'13 0°M 2°M57'00 29° M00'45 0° ⊀	2°30'22 17°55'47	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 08 02:09 4357 Oct 10 22:28 4357 Oct 11 04:12 4357 Oct 17 22:53 4357 Oct 20 08:06 4357 Oct 22 09:30 4357 Oct 27 01:51	19° \$\times 47'48\\ 27° \$\times 02'56\\ 24° \$\times 33'29\\ 21° \$\times 52'50\\ 18° \$\times 52'50\\ 18° \$\times 44'38\\ 13° \$\times 18'44\\ 13° \$\times 38'35\\ 16° \$\times 45'51\\	0.62650 AU -3°32'42 3°30'55
asc. node direct morning max el morning set desc. node	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 03 12:36 4356 Nov 04 12:28 4356 Nov 05 21:29 4356 Nov 08 06:18 4356 Nov 12 09:29 4356 Nov 29 13:57 4356 Nov 30 03:58 4356 Dec 11 08:07	5°M18'51 0°M04'30 30°R Ω 29° Ω40'59 29° Ω31'13 0°M 2°M57'00 29°M00'45 0° 🖈 18° 🖈 32'56	2°30'22 17°55'47 -0°10'49	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 08 02:09 4357 Oct 10 22:28 4357 Oct 11 04:12 4357 Oct 17 22:53 4357 Oct 20 08:06 4357 Oct 22 09:30 4357 Oct 27 01:51 4357 Nov 05 10:38	19° \( \Omega 47'48\) 27° \( \Omega 02'56\) 24° \( \Omega 33'29\) 21° \( \Omega 35'39\) 18° \( \Omega 52'50\) 18° \( \Omega 39'06\) 13° \( \Omega 44'38\) 13° \( \Omega 18'44\) 13° \( \Omega 38'35\) 16° \( \Omega 45'51\) 0° \( \mathrm{M}\)	0.62650 AU -3°32'42 3°30'55
asc. node direct morning max el morning set desc. node superior conj	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 03 12:36 4356 Nov 04 12:28 4356 Nov 05 21:29 4356 Nov 08 06:18 4356 Nov 12 09:29 4356 Nov 29 13:57 4356 Nov 30 03:58 4356 Dec 11 08:07	5°M18'51 0°M04'30 30°RΩ 29°Ω40'59 29°Ω31'13 0°M 2°M57'00 29°M00'45 0°\$\m\delta\$	2°30'22 17°55'47 -0°10'49	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 08 02:09 4357 Oct 10 22:28 4357 Oct 11 04:12 4357 Oct 17 22:53 4357 Oct 20 08:06 4357 Oct 22 09:30 4357 Oct 27 01:51 4357 Nov 05 10:38 4357 Nov 12 03:26	19° \( \Omega 47'48\) 27° \( \Omega 02'56\) 24° \( \Omega 33'29\) 21° \( \Omega 35'39\) 18° \( \Omega 52'50\) 18° \( \Omega 39'06\) 13° \( \Omega 44'38\) 13° \( \Omega 18'44\) 13° \( \Omega 38'35\) 16° \( \Omega 45'51\) 0° \( \mu\) 11° \( \mu 43'52\)	0.62650 AU -3°32'42 3°30'55
asc. node direct morning max el morning set desc. node superior conj minimum elong	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 03 12:36 4356 Nov 04 12:28 4356 Nov 05 21:29 4356 Nov 08 06:18 4356 Nov 12 09:29 4356 Nov 29 13:57 4356 Nov 30 03:58 4356 Dec 11 08:07 4356 Dec 12 21:39 4356 Dec 12 20:22	5°M18'51 0°M04'30 30°R Ω 29° Ω 40'59 29° Ω 31'13 0°M 2°M57'00 29° M00'45 0° 🗖 18° 🗷 32'56 21° 🗷 04'41 20° 🗷 59'32	2°30'22 17°55'47 -0°10'49	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 08 02:09 4357 Oct 10 22:28 4357 Oct 11 04:12 4357 Oct 17 22:53 4357 Oct 20 08:06 4357 Oct 22 09:30 4357 Oct 27 01:51 4357 Nov 05 10:38 4357 Nov 12 03:26	19° \( \Omega 47'48\) 27° \( \Omega 02'56\) 24° \( \Omega 33'29\) 21° \( \Omega 35'39\) 18° \( \Omega 52'50\) 18° \( \Omega 39'06\) 13° \( \Omega 44'38\) 13° \( \Omega 18'44\) 13° \( \Omega 38'35\) 16° \( \Omega 45'51\) 0° \( \mu\) 11° \( \mu 43'52\)	0.62650 AU -3°32'42 3°30'55
asc. node direct  morning max el morning set  desc. node  superior conj minimum elong behind sun begin	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 03 12:36 4356 Nov 04 12:28 4356 Nov 05 21:29 4356 Nov 08 06:18 4356 Nov 12 09:29 4356 Nov 29 13:57 4356 Nov 30 03:58 4356 Dec 11 08:07 4356 Dec 12 21:39 4356 Dec 12 20:22 4356 Dec 12 12:34	5°M18'51 0°M04'30 30°R Ω 29° Ω 40'59 29° Ω 31'13 0°M 2°M57'00 29°M00'45 0° 🗷 18° 🗷 32'56 21° 🗷 04'41 20° 🗷 59'32 20° 🗷 28'05 21° 🗷 30'57 28° 🗷 51'00	2°30'22 17°55'47 -0°10'49	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 10 22:28 4357 Oct 11 04:12 4357 Oct 17 22:53 4357 Oct 20 08:06 4357 Oct 22 09:30 4357 Oct 27 01:51 4357 Nov 05 10:38 4357 Nov 12 03:26 4357 Nov 22 14:48	19° <b>△</b> 47'48 27° <b>△</b> 02'56 24° <b>△</b> 33'29 21° <b>△</b> 35'39 18° <b>△</b> 52'50 18° <b>△</b> 39'06 13° <b>△</b> 44'38 13° <b>△</b> 18'44 13° <b>△</b> 38'35 16° <b>△</b> 45'51 0° <b>M</b> 11° <b>M</b> 43'52 0° <b>⊀</b> 1° <b>₹</b> 33'48 1° <b>₹</b> 34'6'21	0.62650 AU -3°32'42 3°30'55 17°50'16
asc. node direct  morning max el morning set  desc. node  superior conj minimum elong behind sun begin behind sun end	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 03 12:36 4356 Nov 04 12:28 4356 Nov 05 21:29 4356 Nov 08 06:18 4356 Nov 12 09:29 4356 Nov 29 13:57 4356 Nov 30 03:58 4356 Dec 11 08:07 4356 Dec 12 21:39 4356 Dec 12 20:22 4356 Dec 12 12:34 4356 Dec 13 04:10	5°M18'51 0°M04'30 30°R \( \Omega\) 29° \( \Omega\) 40'59 29° \( \Omega\) 31'13 0°M 2°M57'00 29°M00'45 0° \( \delta'\) 18° \( \delta'\) 32'56 21° \( \delta'\) 04'41 20° \( \delta'\) 59'32 20° \( \delta'\) 28'05 21° \( \delta'\) 30'57	2°30'22 17°55'47 -0°10'49 0°10'38	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 10 22:28 4357 Oct 11 04:12 4357 Oct 17 22:53 4357 Oct 20 08:06 4357 Oct 22 09:30 4357 Oct 27 01:51 4357 Nov 05 10:38 4357 Nov 12 03:26 4357 Nov 22 14:48	19° <b>△</b> 47'48 27° <b>△</b> 02'56 24° <b>△</b> 33'29 21° <b>△</b> 35'39 18° <b>△</b> 52'50 18° <b>△</b> 39'06 13° <b>△</b> 44'38 13° <b>△</b> 18'44 13° <b>△</b> 38'35 16° <b>△</b> 45'51 0° <b>M</b> 11° <b>M</b> 43'52 0° <b>⋜</b>	0.62650 AU -3°32'42 3°30'55 17°50'16
asc. node direct  morning max el morning set  desc. node  superior conj minimum elong behind sun begin behind sun end	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 03 12:36 4356 Nov 04 12:28 4356 Nov 05 21:29 4356 Nov 08 06:18 4356 Nov 12 09:29 4356 Nov 29 13:57 4356 Nov 30 03:58 4356 Dec 11 08:07 4356 Dec 12 21:39 4356 Dec 12 12:34 4356 Dec 13 04:10 4356 Dec 17 18:26 4356 Dec 18 11:53 4356 Dec 29 00:53	5°M18'51 0°M04'30 30°R	2°30'22 17°55'47 -0°10'49 0°10'38	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 08 02:09 4357 Oct 10 22:28 4357 Oct 11 04:12 4357 Oct 17 22:53 4357 Oct 20 08:06 4357 Oct 22 09:30 4357 Oct 27 01:51 4357 Nov 05 10:38 4357 Nov 12 03:26 4357 Nov 22 14:48  4357 Nov 23 12:59 4357 Nov 23 15:58	19° \( \Phi 47'48\) 27° \( \Phi 02'56\) 24° \( \Phi 33'29\) 21° \( \Phi 35'39\) 18° \( \Phi 52'50\) 18° \( \Phi 39'06\) 13° \( \Phi 44'38\) 13° \( \Phi 44'38\) 13° \( \Phi 45'51\) 0° \( \mu \) 11° \( \mu 43'52\) 0° \( \mu \) 1° \( \mu 33'48\) 1° \( \mu 34'6'21\) 9° \( \mu 19'48\) 12° \( \mu 56'36\)	0.62650 AU -3°32'42 3°30'55 17°50'16
asc. node direct  morning max el morning set  desc. node  superior conj minimum elong behind sun begin behind sun end max. Earth dist.	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 03 12:36 4356 Nov 04 12:28 4356 Nov 05 21:29 4356 Nov 08 06:18 4356 Nov 12 09:29 4356 Nov 29 13:57 4356 Nov 30 03:58 4356 Dec 11 08:07 4356 Dec 12 21:39 4356 Dec 12 12:34 4356 Dec 13 04:10 4356 Dec 17 18:26 4356 Dec 18 11:53	5°M18'51 0°M04'30 30°R	2°30'22 17°55'47 -0°10'49 0°10'38	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 08 02:09 4357 Oct 10 22:28 4357 Oct 11 04:12 4357 Oct 17 22:53 4357 Oct 20 08:06 4357 Oct 22 09:30 4357 Oct 27 01:51 4357 Nov 05 10:38 4357 Nov 12 03:26 4357 Nov 22 14:48  4357 Nov 23 12:59 4357 Nov 23 15:58 4357 Nov 28 05:09	19° \( \Omega 47'48\) 27° \( \Omega 02'56\) 24° \( \Omega 33'29\) 21° \( \Omega 35'39\) 18° \( \Omega 52'50\) 18° \( \Omega 39'06\) 13° \( \Omega 44'38\) 13° \( \Omega 18'44\) 13° \( \Omega 45'51\) 0° \( \mu\) 11° \( \mu 43'52\) 0° \( \surset \sup 46'21\) 9° \( \surset 31'48\) 1° \( \surset 34'6'21\) 9° \( \surset 31'9'48\)	0.62650 AU -3°32'42 3°30'55 17°50'16 0°32'21 0°31'56
asc. node direct  morning max el morning set  desc. node  superior conj minimum elong behind sun begin behind sun end max. Earth dist.	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 03 12:36 4356 Nov 04 12:28 4356 Nov 05 21:29 4356 Nov 08 06:18 4356 Nov 12 09:29 4356 Nov 29 13:57 4356 Nov 30 03:58 4356 Dec 11 08:07 4356 Dec 12 21:39 4356 Dec 12 12:34 4356 Dec 13 04:10 4356 Dec 17 18:26 4356 Dec 18 11:53 4356 Dec 29 00:53	5°M18'51 0°M04'30 30°R	2°30'22 17°55'47 -0°10'49 0°10'38	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 08 02:09 4357 Oct 10 22:28 4357 Oct 11 04:12 4357 Oct 17 22:53 4357 Oct 20 08:06 4357 Oct 22 09:30 4357 Oct 27 01:51 4357 Nov 05 10:38 4357 Nov 12 03:26 4357 Nov 22 14:48  4357 Nov 23 12:59 4357 Nov 23 15:58 4357 Nov 28 05:09 4357 Nov 30 10:26 4357 Dec 08 11:21 4357 Dec 11 06:54	19° \( \Phi 47'48\) 27° \( \Phi 02'56\) 24° \( \Phi 33'29\) 21° \( \Phi 35'39\) 18° \( \Phi 52'50\) 18° \( \Phi 39'06\) 13° \( \Phi 44'38\) 13° \( \Phi 44'38\) 13° \( \Phi 45'51\) 0° \( \mu \) 11° \( \mu 43'52\) 0° \( \mu \) 1° \( \mu 33'48\) 1° \( \mu 34'6'21\) 9° \( \mu 19'48\) 12° \( \mu 56'36\)	0.62650 AU -3°32'42 3°30'55 17°50'16 0°32'21 0°31'56
asc. node direct  morning max el morning set  desc. node  superior conj minimum elong behind sun begin behind sun end max. Earth dist.  evening rise	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 03 12:36 4356 Nov 04 12:28 4356 Nov 05 21:29 4356 Nov 08 06:18 4356 Nov 12 09:29 4356 Nov 29 13:57 4356 Nov 30 03:58 4356 Dec 11 08:07 4356 Dec 12 21:39 4356 Dec 12 20:22 4356 Dec 12 12:34 4356 Dec 13 04:10 4356 Dec 17 18:26 4356 Dec 18 11:53 4356 Dec 29 00:53 4357 Jan 06 22:51	5°M18'51 0°M04'30 30°R£ 29°£40'59 29°£31'13 0°M 2°M57'00 29°M00'45 0°₺ 18°₺32'56 21°₺730'57 28°₺751'00 0°₺ 16°₺24'33 0°≈	2°30'22 17°55'47 -0°10'49 0°10'38 1.44754 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 08 02:09 4357 Oct 10 22:28 4357 Oct 11 04:12 4357 Oct 17 22:53 4357 Oct 20 08:06 4357 Oct 22 09:30 4357 Oct 27 01:51 4357 Nov 05 10:38 4357 Nov 12 03:26 4357 Nov 22 14:48  4357 Nov 23 12:59 4357 Nov 23 15:58 4357 Nov 28 05:09 4357 Nov 30 10:26 4357 Dec 08 11:21	19° \( \Phi 47'48\) 27° \( \Phi 02'56\) 24° \( \Phi 33'29\) 21° \( \Phi 35'39\) 18° \( \Phi 52'50\) 18° \( \Phi 39'06\) 13° \( \Phi 44'38\) 13° \( \Phi 44'38\) 13° \( \Phi 45'51\) 0° \( \mu \) 11° \( \mu 43'52\) 0° \( \surset \) 1° \( \surset 33'48\) 1° \( \surset 34'6'21\) 9° \( \surset 19'48\) 12° \( \surset 56'36\) 25° \( \surset 39'45\)	0.62650 AU -3°32'42 3°30'55 17°50'16 0°32'21 0°31'56
asc. node direct  morning max el morning set  desc. node  superior conj minimum elong behind sun begin behind sun end max. Earth dist.  evening rise greatest brilliancy	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 04 12:28 4356 Nov 05 21:29 4356 Nov 08 06:18 4356 Nov 12 09:29 4356 Nov 29 13:57 4356 Nov 30 03:58 4356 Dec 11 08:07 4356 Dec 12 21:39 4356 Dec 12 20:22 4356 Dec 12 12:34 4356 Dec 13 04:10 4356 Dec 18 11:53 4356 Dec 29 00:53 4357 Jan 06 22:51 4357 In 12 16:35	5°M18'51 0°M04'30 30°RΩ 29°Ω40'59 29°Ω31'13 0°M 2°M57'00 29°M00'45 0° √ 18°√32'56 21°√304'41 20°√59'32 20°√28'05 21°√30'57 28°√51'00 0° 67 16°6524'33 0° 8°≈32'59	2°30'22 17°55'47 -0°10'49 0°10'38 1.44754 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 08 02:09 4357 Oct 10 22:28 4357 Oct 11 04:12 4357 Oct 17 22:53 4357 Oct 20 08:06 4357 Oct 22 09:30 4357 Oct 27 01:51 4357 Nov 05 10:38 4357 Nov 12 03:26 4357 Nov 22 14:48  4357 Nov 23 12:59 4357 Nov 23 15:58 4357 Nov 28 05:09 4357 Nov 30 10:26 4357 Dec 08 11:21 4357 Dec 11 06:54	19° ₾47'48 27° ₾02'56 24° ₾33'29 21° Ф35'39 18° Ф52'50 18° Ф39'06 13° Ф44'38 13° Ф18'44 13° Ф38'35 16° Ф45'51 0° M 11° M43'52 0° ズ 1° ズ33'48 1° ズ46'21 9° ズ19'48 12° ズ56'36 25° ズ39'45 0° ♂	0.62650 AU -3°32'42 3°30'55 17°50'16 0°32'21 0°31'56
asc. node direct  morning max el morning set  desc. node  superior conj minimum elong behind sun begin behind sun end max. Earth dist.  evening rise greatest brilliancy evening max el	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 04 12:28 4356 Nov 05 21:29 4356 Nov 08 06:18 4356 Nov 12 09:29 4356 Nov 29 13:57 4356 Nov 30 03:58 4356 Dec 11 08:07 4356 Dec 12 21:39 4356 Dec 12 20:22 4356 Dec 12 12:34 4356 Dec 13 04:10 4356 Dec 18 11:53 4356 Dec 29 00:53 4357 Jan 06 22:51 4357 Jan 12 16:35 4357 Jan 25 01:09	5°M18'51 0°M04'30 30°R \( \Omega\) 29° \( \Omega\) 40'59 29° \( \Omega\) 31'13 0°M 2°M57'00 29°M00'45 0° \( \delta'\) 18° \( \delta'\) 32'56 21° \( \delta'\) 04'41 20° \( \delta'\) 59'32 20° \( \delta'\) 28'05 21° \( \delta'\) 30'57 28° \( \delta'\) 51'00 0° \( \delta'\) 16° \( \delta'\) 24'33 0° \( \delta'\) 8° \( \alpha\) 32'59 24° \( \alpha\) 45'46	2°30'22 17°55'47 -0°10'49 0°10'38 1.44754 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 08 02:09 4357 Oct 10 22:28 4357 Oct 11 04:12 4357 Oct 17 22:53 4357 Oct 20 08:06 4357 Oct 22 09:30 4357 Oct 27 01:51 4357 Nov 05 10:38 4357 Nov 12 03:26 4357 Nov 22 14:48  4357 Nov 23 12:59 4357 Nov 23 15:58 4357 Nov 28 05:09 4357 Nov 30 10:26 4357 Dec 08 11:21 4357 Dec 11 06:54 4357 Dec 31 23:42	19° \$\times 47'48 27° \$\times 02'56 24° \$\times 33'29 21° \$\times 35'39 18° \$\times 52'50 18° \$\times 39'06 13° \$\times 44'38 13° \$\times 18'44 13° \$\times 38'35 16° \$\times 45'51 0° \$\times 11° \$\times 43'52 0° \$\times 12' \$\times 56'36 25° \$\times 13'9'45 0° \$\times 00' \$\times	0.62650 AU -3°32'42 3°30'55 17°50'16 0°32'21 0°31'56 1.43568 AU
asc. node direct  morning max el morning set  desc. node  superior conj minimum elong behind sun begin behind sun end max. Earth dist.  evening rise  greatest brilliancy evening max el asc. node	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 03 12:36 4356 Nov 04 12:28 4356 Nov 05 21:29 4356 Nov 08 06:18 4356 Nov 12 09:29 4356 Nov 29 13:57 4356 Nov 30 03:58 4356 Dec 11 08:07  4356 Dec 12 21:39 4356 Dec 12 20:22 4356 Dec 12 12:34 4356 Dec 12 12:34 4356 Dec 13 04:10 4356 Dec 14 11:53 4356 Dec 18 11:53 4356 Dec 19 00:53 4357 Jan 06 22:51 4357 Jan 12 16:35 4357 Jan 25 01:09 4357 Jan 31 11:45	5°M18'51 0°M04'30 30°R \( \Omega\) 29° \( \Omega\) 40'59 29° \( \Omega\) 31'13 0°M 2°M57'00 29°M00'45 0° \( \delta\) 18° \( \delta\) 32'56 21° \( \delta\) 04'41 20° \( \delta\) 59'32 20° \( \delta\) 28'05 21° \( \delta\) 30'57 28° \( \delta\) 51'00 0° \( \delta\) 16° \( \delta\) 24'33 0° \( \delta\) 8° \( \approx\) 32'59 24° \( \approx\) 45'46 29° \( \approx\) 09'49	2°30'22 17°55'47 -0°10'49 0°10'38 1.44754 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set  superior conj minimum elong desc. node max. Earth dist. evening rise	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 08 02:09 4357 Oct 10 22:28 4357 Oct 17 22:53 4357 Oct 20 08:06 4357 Oct 22 09:30 4357 Oct 27 01:51 4357 Nov 05 10:38 4357 Nov 12 03:26 4357 Nov 22 14:48  4357 Nov 23 12:59 4357 Nov 23 15:58 4357 Nov 28 05:09 4357 Dec 08 11:21 4357 Dec 11 06:54 4357 Dec 31 23:42 4358 Jan 07 23:40	19° <b>△</b> 47'48 27° <b>△</b> 02'56 24° <b>△</b> 33'29 21° <b>△</b> 35'39 18° <b>△</b> 52'50 18° <b>△</b> 39'06 13° <b>△</b> 44'38 13° <b>△</b> 18'44 13° <b>△</b> 38'35 16° <b>△</b> 45'51 0° <b>M</b> 11° <b>M</b> 43'52 0° <b>√</b> 1° <b>√</b> 33'48 1° <b>√</b> 46'21 9° <b>√</b> 19'48 12° <b>√</b> 56'36 25° <b>√</b> 39'45 0° <b>८</b> 0° <b>८</b>	0.62650 AU -3°32'42 3°30'55 17°50'16 0°32'21 0°31'56 1.43568 AU
asc. node direct  morning max el morning set  desc. node  superior conj minimum elong behind sun begin behind sun end max. Earth dist.  evening rise  greatest brilliancy evening max el asc. node retrograde	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 03 12:36 4356 Nov 04 12:28 4356 Nov 05 21:29 4356 Nov 08 06:18 4356 Nov 12 09:29 4356 Nov 29 13:57 4356 Nov 30 03:58 4356 Dec 11 08:07  4356 Dec 12 21:39 4356 Dec 12 20:22 4356 Dec 12 12:34 4356 Dec 12 12:34 4356 Dec 13 04:10 4356 Dec 13 04:10 4356 Dec 18 11:53 4356 Dec 18 11:53 4356 Dec 29 00:53 4357 Jan 06 22:51 4357 Jan 12 16:35 4357 Jan 25 01:09 4357 Jan 31 11:45 4357 Feb 01 20:31	5°M18'51 0°M04'30 30°R\$\textsize{\Omega} 29°\textsize{\Omega}40'59 29°\textsize{\Omega}31'13 0°M 2°M57'00 29°M00'45 0°\textsize{\Omega}32'56 21°\textsize{\Omega}04'41 20°\textsize{\Omega}28'05 21°\textsize{\Omega}30'57 28°\textsize{\Omega}51'00 0°\textsize{\Omega}16°\textsize{\Omega}24'33 0°\textsize{\Omega}8^\textsize{\Omega}32'59 24°\textsize{\Omega}45'46 29°\textsize{\Omega}9'49 29°\textsize{\Omega}19'54	2°30'22 17°55'47 -0°10'49 0°10'38 1.44754 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set  superior conj minimum elong desc. node max. Earth dist. evening rise	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 08 02:09 4357 Oct 10 22:28 4357 Oct 17 22:53 4357 Oct 20 08:06 4357 Oct 22 09:30 4357 Oct 27 01:51 4357 Nov 05 10:38 4357 Nov 12 03:26 4357 Nov 22 14:48  4357 Nov 23 12:59 4357 Nov 23 15:58 4357 Nov 28 05:09 4357 Dec 08 11:21 4357 Dec 11 06:54 4357 Dec 31 23:42 4358 Jan 07 23:40 4358 Jan 16 18:12	19° <b>△</b> 47'48 27° <b>△</b> 02'56 24° <b>△</b> 33'29 21° <b>△</b> 35'39 18° <b>△</b> 52'50 18° <b>△</b> 39'06 13° <b>△</b> 44'38 13° <b>△</b> 18'44 13° <b>△</b> 38'35 16° <b>△</b> 45'51 0° <b>M</b> 11° <b>M</b> 43'52 0° <b>√</b> 1° <b>√</b> 33'48 1° <b>√</b> 46'21 9° <b>√</b> 19'48 12° <b>√</b> 56'36 25° <b>√</b> 39'45 0° <b>८</b> 0° <b>८</b> 8° <b>८</b> 19'30 13° <b>८</b> 31'40	0.62650 AU -3°32'42 3°30'55 17°50'16 0°32'21 0°31'56 1.43568 AU
asc. node direct  morning max el morning set  desc. node  superior conj minimum elong behind sun begin behind sun end max. Earth dist.  evening rise greatest brilliancy evening max el asc. node retrograde evening set	4356 Oct 27 23:25 4356 Nov 03 08:16 4356 Nov 03 12:36 4356 Nov 04 12:28 4356 Nov 05 21:29 4356 Nov 08 06:18 4356 Nov 12 09:29 4356 Nov 29 13:57 4356 Nov 30 03:58 4356 Dec 12 21:39 4356 Dec 12 20:22 4356 Dec 12 20:22 4356 Dec 12 12:34 4356 Dec 13 04:10 4356 Dec 13 04:10 4356 Dec 18 11:53 4356 Dec 18 11:53 4356 Dec 29 00:53 4357 Jan 06 22:51 4357 Jan 12 16:35 4357 Jan 25 01:09 4357 Jan 31 11:45 4357 Feb 01 20:31 4357 Feb 05 15:23	5°M18'51 0°M04'30 30°R 29° A40'59 29° A31'13 0°M 2°M57'00 29°M00'45 0° X 18° X 32'56 21° X 04'41 20° X 59'32 20° X 28'05 21° X 30'57 28° X 51'00 0° C 16° C 24'33 0° \alpha 8° \alpha 32'59 24° \alpha 45'46 29° \alpha 09'49 29° \alpha 19'54 27° \alpha 56'35	2°30'22 17°55'47 -0°10'49 0°10'38 1.44754 AU -0.6m 20°12'14	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set  superior conj minimum elong desc. node max. Earth dist. evening rise  evening max el retrograde asc. node	4357 Sep 01 05:50 4357 Sep 13 12:21 4357 Sep 27 06:43 4357 Oct 04 11:09 4357 Oct 08 02:09 4357 Oct 10 22:28 4357 Oct 11 04:12 4357 Oct 17 22:53 4357 Oct 20 08:06 4357 Oct 22 09:30 4357 Oct 27 01:51 4357 Nov 05 10:38 4357 Nov 12 03:26 4357 Nov 22 14:48  4357 Nov 23 12:59 4357 Nov 23 15:58 4357 Nov 28 05:09 4357 Nov 30 10:26 4357 Dec 08 11:21 4357 Dec 11 06:54 4357 Dec 31 23:42 4358 Jan 07 23:40 4358 Jan 16 18:12 4358 Jan 18 08:46	19° <b>△</b> 47'48 27° <b>△</b> 02'56 24° <b>△</b> 33'29 21° <b>△</b> 35'39 18° <b>△</b> 52'50 18° <b>△</b> 39'06 13° <b>△</b> 44'38 13° <b>△</b> 18'44 13° <b>△</b> 38'35 16° <b>△</b> 45'51 0° <b>M</b> 11° <b>M</b> 43'52 0° <b>√</b> 1° <b>√</b> 33'48 1° <b>√</b> 46'21 9° <b>√</b> 19'48 12° <b>√</b> 56'36 25° <b>√</b> 39'45 0° <b>♂</b> 0° <b>∞</b> 8° <b>≈</b> 19'30 13° <b>≈</b> 31'40 13° <b>≈</b> 17'41	0.62650 AU -3°32'42 3°30'55  17°50'16  0°32'21 0°31'56  1.43568 AU  21°20'59

minimum elong	4358 Jan 26 04:49	5°≈46'35	2°24'46	evening set	4359 Jan 05 06:23	25° <b>る</b> 52'05	
min. Earth dist.	4358 Jan 26 13:52	5°≈15'17	0.67855 AU	asc. node	4359 Jan 05 05:47	25° <b>る</b> 53'19	
mm. Larm dist.	4358 Jan 30 19:44	30°Rる	0.07033710	inferior conj	4359 Jan 10 15:07	19° <b>る</b> 29'43	1°44'29
morning rise	4358 Jan 31 10:25	29°る25'40		minimum elong	4359 Jan 10 13:01	19° <b>る</b> 36'58	1°43'44
direct	4358 Feb 05 14:32	27° <b>る</b> 10'25		min. Earth dist.	4359 Jan 10 10:11	19° <b>る</b> 46'47	0.68046 AU
anoct	4358 Feb 12 05:55	0°≈		morning rise	4359 Jan 15 19:33	13° <b>る</b> 20'33	0.000 10 710
morning max el	4358 Feb 15 23:03	3° <b>≈</b> 19'39	23°20'29	direct	4359 Jan 20 08:58	11° <b>る</b> 28'04	
desc. node	4358 Feb 24 04:22	12° <b>≈</b> 57'57	23 20 23	morning max el	4359 Jan 29 11:29	16° <b>る</b> 47'46	21°53'18
	4358 Mar 08 07:32	0° <b>∀</b>			4359 Feb 09 06:05	0° <b>≈</b>	
morning set	4358 Mar 22 23:27	23° <b>)</b> 14'42		desc. node	4359 Feb 11 01:23	2° <b>≈</b> 29'57	
	4358 Mar 26 22:11	0° <b>Υ</b>			4359 Mar 01 09:41	0° <b>)</b> €	
max. Earth dist.	4358 Mar 27 02:11	0° <b>Ƴ</b> 17'26	1.39258 AU	morning set	4359 Mar 03 02:05	2° <b>)</b> 41′04	
				max. Earth dist.	4359 Mar 09 00:56	12° <b>¥</b> 24'56	1.41409 AU
superior conj	4358 Apr 03 16:37	13° <b>Ƴ</b> 58'55	-1°44'54				
minimum elong	4358 Apr 03 21:27	14° <b>Ƴ</b> 21'22	1°44'23	superior conj	4359 Mar 16 17:37	25° <b>¥</b> 36′17	-2°02'38
	4358 Apr 12 02:18	$9^{\circ}$ 8		minimum elong	4359 Mar 16 21:04	25° <b>¥</b> 51′29	2°02'28
evening rise	4358 Apr 13 02:19	1° <b>8</b> 55'57			4359 Mar 19 05:00	$0$ ° $\Upsilon$	
asc. node	4358 Apr 16 08:04	8° <b>と</b> 07'59		evening rise	4359 Mar 27 09:06	14° <b>Y</b> 56'12	
evening max el	4358 Apr 29 07:55	28° <b>8</b> 06'20	18°38'49	asc. node	4359 Apr 03 05:04	27° <b>Y</b> 19'59	
	4358 May 01 13:54	$\Pi$ $^{\circ}0$			4359 Apr 04 18:36	0°8	
retrograde	4358 May 07 05:52	1° <b>Ⅱ</b> 59'47		evening max el	4359 Apr 12 16:08	10° <b>8</b> 51'22	18°13'09
evening set	4358 May 09 11:08	1° <b>Ⅱ</b> 42'30		retrograde	4359 Apr 19 15:33	14° <b>8</b> 21'39	
	4358 May 13 08:02	30° <b>₹</b> 8		evening set	4359 Apr 22 03:27	13° <b>8</b> 55'29	
inferior conj	4358 May 17 04:59	27° <b>8</b> 17'37	1°39'12	inferior conj	4359 Apr 29 02:58	9° <b>8</b> 09'51	2°45'12
minimum elong	4358 May 17 08:13	27° <b>8</b> 11'27	1°38'10	minimum elong	4359 Apr 29 06:23	9° <b>8</b> 02'17	2°44'25
min. Earth dist.	4358 May 20 13:14	24° <b>8</b> 46'35	0.57615 AU	min. Earth dist.	4359 May 02 12:13	6° <b>8</b> 11'05	0.59725 AU
desc. node	4358 May 23 03:32	23° <b>8</b> 03'15		morning rise	4359 May 06 06:45	3° <b>8</b> 26'24	
morning rise	4358 May 25 02:06	22° <b>8</b> 01'23		desc. node	4359 May 10 00:34	1° <b>8</b> 50'59	
direct	4358 May 30 18:41	20° <b>8</b> 40'42		direct	4359 May 12 17:13	1° <b>8</b> 30'47	
morning max el	4358 Jun 14 03:30	28° <b>8</b> 15'21	26°32'20	morning max el	4359 May 27 01:46	9° <b>8</b> 21'46	27°30'38
	4358 Jun 15 20:47	$\Pi^{\circ}0$			4359 Jun 11 21:44	$\Pi^{\circ}0$	
	4358 Jul 06 03:56	0ංම		morning set	4359 Jun 27 14:06	28° <b>Ⅱ</b> 48'29	
morning set	4358 Jul 13 06:29	14°9511'04			4359 Jun 28 03:46	0ංම	
asc. node	4358 Jul 13 07:19	14°915'27		asc. node	4359 Jun 30 04:21	4°917'50	
				max. Earth dist.	4359 Jul 04 01:12	12° <b>©</b> 43'37	1.32004 AU
superior conj	4358 Jul 20 06:08	29°522'43	1°07'08				
minimum elong	4358 Jul 20 03:50	29°©10'05	1°06'45	superior conj	4359 Jul 04 17:44	14°9514'45	0°46'12
max. Earth dist.	4358 Jul 20 13:35	0° <b>Ω</b> 03'52	1.32105 AU	minimum elong	4359 Jul 04 15:52	14°504'28	0°45'50
	4358 Jul 20 12:53	0°N		evening rise	4359 Jul 11 13:15	29° <b>©</b> 06'45	
evening rise	4358 Jul 27 03:45	14° <b>Ω</b> 20'41			4359 Jul 11 23:18	0° <b>Ω</b>	
1 1	4358 Aug 04 01:57	0°M)		1 1	4359 Jul 28 12:48	0° m/)	
desc. node	4358 Aug 19 02:49	23° m 33'03		desc. node	4359 Aug 05 23:49	10° m 52'06	25952150
avanina may al	4358 Aug 24 15:17	0∘ <b>ⴀ</b>	26°54'53	evening max el	4359 Aug 08 14:19 4359 Aug 22 13:30	13° My 31'31	25°52'59
evening max el retrograde	4358 Aug 26 17:04 4358 Sep 09 14:36	2° <b>♀</b> 04'05 9° <b>♀</b> 14'46	20 34 33	retrograde evening set	4359 Aug 22 13.30 4359 Aug 28 19:14	20° Mp 38'56 19° Mp 06'08	
evening set	4358 Sep 16 13:53	7° <b>₽</b> 08'09		min. Earth dist.	4359 Sep 02 02:37	16° Mp 30'03	0.58593 AU
min. Earth dist.	4358 Sep 20 07:13		0.60664 AU	inferior conj	4359 Sep 05 07:59	14° Mp 09'33	
inferior conj	4358 Sep 23 11:55	1° <b>-</b> 29'05		minimum elong	4359 Sep 05 07:37	14° Mp 03'07	
minimum elong	4358 Sep 23 17:49	1° <b>⊆</b> 4903		morning rise	4359 Sep 13 06:02	9° <b>m</b> ) 45'49	5 05 57
	4358 Sep 25 17:36	30°R, Mp		direct	4359 Sep 15 00:02 4359 Sep 15 16:43	9° <b>m</b> ) 26'22	
morning rise	4358 Sep 30 23:40	27° mp 02'01		morning max el	4359 Sep 23 21:59	13° <b>m</b> ) 22'20	18°37'25
direct	4358 Oct 03 08:01	26° m/40'29		asc. node	4359 Sep 26 03:34	15° <b>m</b> ) 46'12	
asc. node	4358 Oct 09 06:32	29° m 04'49			4359 Oct 05 06:02	0∘ <mark>ಹ</mark>	
	4358 Oct 10 07:54	0∘ <b>ಹ</b>		morning set	4359 Oct 10 03:26	9° <b>≏</b> 18'02	
morning max el	4358 Oct 10 15:06	0° <b>≙</b> 17'10	18°03'41	8			
morning set	4358 Oct 26 09:34	25° <b>₽</b> 14'20		superior conj	4359 Oct 18 21:33	26° <b>₽</b> 08'07	1°27'54
<b>U</b>	4358 Oct 28 22:59	0° <b>M</b>		minimum elong	4359 Oct 19 00:47	26° <b>≙</b> 23'15	1°27'36
				J	4359 Oct 20 23:29	0° <b>M</b>	
superior conj	4358 Nov 05 06:27	13°M19'13	1°05'36	max. Earth dist.	4359 Oct 26 04:26	9°M20'48	1.39817 AU
minimum elong	4358 Nov 05 10:33	13°M37'25	1°05'06	evening rise	4359 Oct 30 07:08	16°M24'05	
max. Earth dist.	4358 Nov 12 22:01	26°M30'27	1.41851 AU	desc. node	4359 Nov 01 23:09	20°M49'46	
desc. node	4358 Nov 15 02:09	0° <b>≯</b> 06'30			4359 Nov 07 17:01	0° <b>∡</b> ¹	
	4358 Nov 15 00:34	0° <b>∡</b> ¹			4359 Nov 29 05:29	ರ°0	
evening rise	4358 Nov 18 10:21	5° <b>∡</b> ³31'59		evening max el	4359 Dec 04 06:58	5°₹33'38	23°57'53
	4358 Dec 04 13:32	0°ರ		retrograde	4359 Dec 15 06:33	12° <b>る</b> 01'34	
evening max el	4358 Dec 21 17:05	21° <b>る</b> 54'54	22°38'01	evening set	4359 Dec 20 11:53	9° <b>ප</b> 51'06	
retrograde	4358 Dec 31 13:57	27° <b>る</b> 46'41		asc. node	4359 Dec 23 02:48	7° <b>る</b> 07'15	

inferior conj	4359 Dec 25 22:30	3° <b>る</b> 25'21	0°56'45	min. Earth dist.	4360 Dec 08 01:00	18° <b>∡</b> ¹48'03	0.67346 AU
minimum elong	4359 Dec 25 21:12	3° <b>ප</b> 29'45	0°56'14	asc. node	4360 Dec 08 23:50	17° <b>х</b> 33'46	0.07540710
min. Earth dist.	4359 Dec 25 06:41	4°る19'00	0.67873 AU	inferior conj	4360 Dec 09 03:38	17° <b>∡</b> °21'25	0°03'14
min. Bartii digt.	4359 Dec 28 13:58	30°R <b>✓</b>	0.07075110	minimum elong	4360 Dec 09 03:33	17° 🗷 21'42	0°03'13
morning rise	4359 Dec 31 06:34	27° <b>х</b> 21'05		transit middle	4360 Dec 09 03:33	17° <b>∡</b> "21'42	0°03'13
direct	4360 Jan 04 06:06	25° <b>₹</b> 51'18		transit begin	4360 Dec 09 00:49	17° <b>∡</b> ³30'35	
	4360 Jan 11 19:35	ರ°0		transit end	4360 Dec 09 06:16	17° <b>∡</b> 12'49	
morning max el	4360 Jan 12 06:46	0° <b>る</b> 27'29	20°34'54	morning rise	4360 Dec 14 17:28	11° <b>∡</b> °24′13	
desc. node	4360 Jan 28 22:26	22° <b>る</b> 28'34		direct	4360 Dec 18 04:44	10° <b>√</b> 14'48	
	4360 Feb 02 23:13	0° <b>≈</b>		morning max el	4360 Dec 25 09:55	14° <b>√</b> 17'49	19°29'44
morning set	4360 Feb 10 04:16	11° <b>≈</b> 02'49		C	4361 Jan 06 09:04	ರ°0	
max. Earth dist.	4360 Feb 19 06:41	25° <b>≈</b> 26'42	1.43266 AU	greatest brilliancy	4361 Jan 07 13:32	1° <b>る</b> 45'51	-0.7m
	4360 Feb 22 01:56	0° <b>∀</b>		desc. node	4361 Jan 14 19:28	12° <b>る</b> 45'58	
				morning set	4361 Jan 19 01:41	19° <b>る</b> 19'43	
superior conj	4360 Feb 25 18:50	6° <b>)</b> €07'36	-2°07'50		4361 Jan 25 22:32	0° <b>≈</b>	
minimum elong	4360 Feb 25 17:52	6° <b>)</b> €03'33	2°07'50	max. Earth dist.	4361 Jan 31 19:22	9° <b>≈</b> 13'18	1.44590 AU
evening rise	4360 Mar 09 00:04	27° <b>ℋ</b> 10'30					
	4360 Mar 10 14:32	$0^{\circ}\mathbf{\Upsilon}$		superior conj	4361 Feb 04 18:31	15° <b>≈</b> 31'51	-1°55'17
asc. node	4360 Mar 20 02:05	16° <b>Ƴ</b> 03'30		minimum elong	4361 Feb 04 11:28	15° <b>≈</b> 03'40	1°54'50
evening max el	4360 Mar 26 04:06	23° <b>Y</b> 58'00	18°07'02		4361 Feb 13 16:07	0° <b>)</b> €	
retrograde	4360 Apr 01 16:17	27° <b>Y</b> 20'29		evening rise	4361 Feb 18 18:51	8° <b>)</b> (30′44	
evening set	4360 Apr 04 10:19	26° <b>Ƴ</b> 43'37			4361 Mar 03 22:57	$0$ ° $\Upsilon$	
inferior conj	4360 Apr 10 19:22	21° <b>Y</b> 37'56	3°21'46	asc. node	4361 Mar 06 23:07	4° <b>Ƴ</b> 09'59	
minimum elong	4360 Apr 10 21:22	21° <b>Y</b> 32'50	3°21'31	evening max el	4361 Mar 09 16:51	7° <b>Y</b> 18'59	18°19'52
min. Earth dist.	4360 Apr 13 19:16	18° <b>Ƴ</b> 36′07	0.61907 AU	retrograde	4361 Mar 16 03:32	10° <b>Ƴ</b> 47'14	
morning rise	4360 Apr 17 06:46	15° <b>Ƴ</b> 37'40		evening set	4361 Mar 19 03:36	9° <b>Y</b> 58'29	
direct	4360 Apr 24 02:35	13° <b>Υ</b> 11'12		inferior conj	4361 Mar 25 02:04	4° <b>Y</b> '34'00	3°35'08
desc. node	4360 Apr 25 21:37	13° <b>Ƴ</b> 20'38		minimum elong	4361 Mar 25 02:21	4° <b>Υ</b> 33'11	3°35'08
morning max el	4360 May 08 06:13	21° <b>Y</b> 10'23	27°52'11	min. Earth dist.	4361 Mar 27 11:34	1° <b>Y</b> 51'00	0.63898 AU
	4360 May 15 22:00	$6^{\circ}B$			4361 Mar 29 05:58	30°₽ <b>)</b>	
	4360 Jun 03 22:41	$\Pi^{\circ}0$		morning rise	4361 Mar 31 00:14	28° <b>)</b> €25'05	
morning set	4360 Jun 10 16:49	13° <b>Ⅱ</b> 08'39		direct	4361 Apr 06 20:38	25° <b>)</b> (39′29	
asc. node	4360 Jun 16 01:22	24° <b>Ⅱ</b> 24'45		desc. node	4361 Apr 12 18:40	27° <b>)</b> €22'49	
max. Earth dist.	4360 Jun 16 10:04	25° <b>Ⅱ</b> 11'44	1.32316 AU		4361 Apr 16 15:01	$0^{\circ}$ Y	
				morning max el	4361 Apr 20 14:43	3° <b>Y</b> 37'17	27°36'32
superior conj	4360 Jun 18 03:41	28° <b>Ⅱ</b> 57'52	0°21'48		4361 May 10 09:17	0° <b>႘</b>	
minimum elong	4360 Jun 18 02:41	28° <b>Ⅱ</b> 52′26	0°21'35	morning set	4361 May 25 12:16	27° <b>8</b> 04'16	
	4360 Jun 18 15:03	$0$ $\circ$ $\odot$			4361 May 26 23:25	$\Pi$ $^{\circ}0$	
evening rise	4360 Jun 25 00:45	13° <b>©</b> 55'18		max. Earth dist.	4361 May 30 12:17	7° <b>Ⅱ</b> 16'30	1.33073 AU
	4360 Jul 03 01:54	$0^{\circ}\Omega$					
evening max el	4360 Jul 20 04:48	24° <b>Ω</b> 14'56	24°26'26	superior conj	4361 Jun 02 10:08	13° <b>Ⅱ</b> 26'32	-0°05'21
desc. node	4360 Jul 22 20:50	26° <b>Ω</b> 36′10		minimum elong	4361 Jun 02 10:24	13° <b>Ⅱ</b> 27'59	0°05'19
	4360 Jul 28 08:18	O° Mp		behind sun begin	4361 Jun 02 05:19	13° <b>Ⅱ</b> 00'44	
retrograde	4360 Aug 03 01:36	1° Mp 14'50		behind sun end	4361 Jun 02 15:30	13° <b>Ⅱ</b> 55'16	
evening set	4360 Aug 08 00:18	0° <b>m</b> 20'07		asc. node	4361 Jun 02 22:25	14° <b>∏</b> 32′22	
	4360 Aug 08 21:07	$30^{\circ}$ R $\Omega$		evening rise	4361 Jun 09 12:26	28° <b>Ⅱ</b> 40'37	
min. Earth dist.	4360 Aug 13 15:47	27° <b>Ω</b> 27'40	0.56706 AU		4361 Jun 10 03:30	$0$ $\circ$ $\infty$	
inferior conj	4360 Aug 16 08:02	25° <b>Ω</b> 45'42	-5°10'57		4361 Jun 27 13:31	$0$ $^{\circ}$ $\Omega$	
minimum elong	4360 Aug 16 06:07	25° <b>Ω</b> 48'44	5°10'51	evening max el	4361 Jul 01 18:07	4° <b>Ω</b> 38'33	22°49'23
morning rise	4360 Aug 24 14:31	21° <b>Ω</b> 43'04		desc. node	4361 Jul 09 17:52	10° <b>Ω</b> 11′26	
direct	4360 Aug 27 06:24	21° <b>Ω</b> 23'54		retrograde	4361 Jul 15 00:58	11° <b>Ω</b> 15'37	
morning max el	4360 Sep 05 19:17	25° <b>Ω</b> 51'07	19°32'39	evening set	4361 Jul 18 11:04	10° <b>Ω</b> 50′00	
	4360 Sep 09 12:51	0° <b>m</b>		min. Earth dist.	4361 Jul 26 02:32		0.55350 AU
asc. node	4360 Sep 12 00:37	3°m/27'03		inferior conj	4361 Jul 27 13:08	6° <b>Ω</b> 37'14	
morning set	4360 Sep 23 05:19	23° Mp 44'12		minimum elong	4361 Jul 27 05:35	6° <b>Ω</b> 48'05	4°30'21
	4360 Sep 26 07:51	0∘ <b>⊽</b>		morning rise	4361 Aug 05 02:17	2° <b>Ω</b> 46'14	
				direct	4361 Aug 08 01:57	2° <b>Ω</b> 25′25	
superior conj	4360 Oct 01 04:44	9° <b>£</b> 43'59	1°40'13	morning max el	4361 Aug 19 04:46	7° <b>Ω</b> 35'37	20°49'18
minimum elong	4360 Oct 01 06:22	9° <b>ჲ</b> 52'02	1°40'08	asc. node	4361 Aug 29 21:41	21° <b>Ω</b> 53′56	
max. Earth dist.	4360 Oct 07 08:43	21° <b>≏</b> 30'55	1.37728 AU		4361 Sep 03 07:47	0° <b>™</b>	
evening rise	4360 Oct 11 02:51	28° <b>≏</b> 18'57		morning set	4361 Sep 07 12:30	8° TD 25'35	
	4360 Oct 12 01:46	0°M₊					
desc. node	4360 Oct 18 20:10	11°M24'59		superior conj	4361 Sep 14 23:26	23° <b>m</b> 53'42	1°44'03
	4360 Oct 31 02:30	0° <b>∡</b> ¹		minimum elong	4361 Sep 14 23:29	23° <b>m</b> 53'57	1°44'04
evening max el	4360 Nov 15 19:26	19° <b>∡</b> 15'31	25°14'06		4361 Sep 17 23:48	0∘ <b>⊽</b>	
retrograde	4360 Nov 27 18:56	26° <b>∡</b> 10'47		max. Earth dist.	4361 Sep 19 16:58	3° <b>ჲ</b> 23'31	1.35823 AU
evening set	4360 Dec 03 13:53	23° <b>∡</b> ¹45'59		evening rise	4361 Sep 23 18:17	11° <b>≏</b> 08'53	

	4361 Oct 04 14:25	0°M			4362 Sep 09 19:32	0∘ <b>ত</b>	
desc. node	4361 Oct 05 17:10	1° <b>M</b> 47'24		desc. node	4362 Sep 22 14:12	21° <b>≙</b> 50'47	
	4361 Oct 26 10:45	0°⊀			4362 Sep 28 02:41	$0^{\circ}$ M	
evening max el	4361 Oct 29 08:04	2° <b>∡</b> ′57'46	26°19'10	evening max el	4362 Oct 11 20:48	16°M32'01	27°05'35
retrograde	4361 Nov 11 02:13	10° <b>∡</b> *08'53		retrograde	4362 Oct 25 03:47	23°M49'13	
evening set	4361 Nov 17 10:34	7° <b>∡</b> ³33'09		evening set	4362 Oct 31 23:45	21°M08'19	
min. Earth dist.	4361 Nov 21 14:45	3° <b>х</b> 10′32	0.66476 AU	min. Earth dist.	4362 Nov 04 21:29	17°M21'26	0.65253 AU
inferior conj	4361 Nov 23 04:37	1°×14'47		inferior conj	4362 Nov 06 23:17	15°M01'12	
minimum elong	4361 Nov 23 06:06	1° <b>≯</b> 10'14	0°54'16	minimum elong asc. node	4362 Nov 07 02:35	14°M51'55 9°M42'38	1°54′50
asc. node	4361 Nov 24 05:19 4361 Nov 25 20:55	30°RM 28°M08'06		morning rise	4362 Nov 12 17:59 4362 Nov 13 06:21	9°11L42′38 9°11L26′28	
morning rise	4361 Nov 29 02:11	25°M27'15		direct	4362 Nov 15 00:21 4362 Nov 15 23:16	8°M47'09	
direct	4361 Dec 02 03:10	24°M34'47		morning max el	4362 Nov 22 10:54	12°M15'32	18°07'03
morning max el	4361 Dec 08 20:02	28°M15'28	18°40'04		4362 Dec 04 22:04	0° <b>⊼</b>	
5 5	4361 Dec 10 10:53	0° <b>∡</b> ¹		morning set	4362 Dec 10 17:04	9° <b>∡</b> 31'08	
morning set	4361 Dec 29 18:36	28° <b>х</b> 40′40		desc. node	4362 Dec 19 13:29	23° <b>₹</b> 56'41	
	4361 Dec 30 14:40	0°ರ			4362 Dec 23 08:17	5°0	
desc. node	4362 Jan 01 16:29	3° <b>る</b> 16'39					
				superior conj	4362 Dec 25 04:58	2° <b>る</b> 57'24	-0°38'11
superior conj	4362 Jan 14 23:42	24° <b>る</b> 10'56		minimum elong	4362 Dec 25 00:12	2° <b>る</b> 38'29	
minimum elong	4362 Jan 14 14:32	23° <b>る</b> 34'59		max. Earth dist.	4362 Dec 28 08:51	7° <b>る</b> 56'50	1.45144 AU
max. Earth dist.	4362 Jan 14 13:04	23° <b>る</b> 29'13	1.45239 AU	evening rise	4363 Jan 10 12:42	28° <b>පි</b> 27'48	
	4362 Jan 18 16:35	0°≈		4 41 111	4363 Jan 11 12:31	0°≈	0.7
evening rise	4362 Jan 30 14:27 4362 Feb 06 13:04	18°≈53'20 0° <b>)</b> €		greatest brilliancy	4363 Jan 23 11:22 4363 Jan 31 17:33	18° <b>≈</b> 19'35 0° <b>¥</b>	-0./m
greatest brilliancy	4362 Feb 06 13:04 4362 Feb 07 12:09	0 <del>X</del> 1° <b>¥</b> 31'50	-0.9m	evening max el	4363 Feb 04 10:39	0 <del>X</del> 4° <b>¥</b> 19'05	19°38'11
evening max el	4362 Feb 21 03:44	20° <del>)(</del> 47'22	18°50'44	asc. node	4363 Feb 04 10.39 4363 Feb 08 17:15	7° <b>)</b> (43'21	19 30 11
asc. node	4362 Feb 21 20:11	21° <del>)(</del> 27'43	10 30 44	retrograde	4363 Feb 11 18:40	8° <b>)</b> 33'14	
retrograde	4362 Feb 27 21:22	24° <b>)</b> (33'22		evening set	4363 Feb 15 08:42	7° <b>)</b> 17′57	
evening set	4362 Mar 03 03:55	23° <b>)</b> (31'47		inferior conj	4363 Feb 20 19:32	1° <b>¥</b> 20'56	3°13'35
inferior conj	4362 Mar 08 19:11	17° <b>∺</b> 50'01	3°31'01	minimum elong	4363 Feb 20 17:29	1° <b>)</b> 27'40	3°13'13
minimum elong	4362 Mar 08 18:04	17° <b>)</b> 53′30	3°30'55	_	4363 Feb 21 20:03	30° <b>₹</b> ≈	
min. Earth dist.	4362 Mar 10 13:00	15° <b>)</b> 40′31	0.65542 AU	min. Earth dist.	4363 Feb 21 22:28	29° <b>≈</b> 52′04	0.66769 AU
morning rise	4362 Mar 14 07:47	11° <b>∺</b> 37'11		morning rise	4363 Feb 26 02:03	25° <b>≈</b> 06'50	
direct	4362 Mar 20 21:36	8° <b>)</b> 46′41		direct	4363 Mar 04 04:26	22° <b>≈</b> 23'46	
desc. node	4362 Mar 30 15:43	13° <b>)</b> 23′26		morning max el	4363 Mar 16 10:00	29° <b>≈</b> 41'20	25°37'13
morning max el	4362 Apr 03 00:35	16° <b>)</b> € 31'09	26°48'46		4363 Mar 16 17:21	0° <b>∀</b>	
	4362 Apr 14 04:47	0° <b>Υ</b>		desc. node	4363 Mar 17 12:44	0° <b>)</b> € 50'32	
. ,	4362 May 03 05:37	0°8		. ,	4363 Apr 08 01:49	0°Υ	
morning set max. Earth dist.	4362 May 08 21:09 4362 May 13 04:26	10° <b>8</b> 24'48 18° <b>8</b> 50'01	1.34299 AU	morning set	4363 Apr 21 15:15 4363 Apr 25 09:47	22° <b>Y</b> 58'43 0° <b>と</b>	
max. Earth dist.	4302 May 13 04.20	18 03001	1.34299 AU	max. Earth dist.	4363 Apr 25 09:28	29° <b>Υ</b> 58'29	1.35975 AU
superior conj	4362 May 17 10:52	27° <b>8</b> 33'22	-0°34'17	max. Earth dist.	4303 Apr 23 09.28	29 1 30 29	1.55975 AU
minimum elong	4362 May 17 12:41	27° <b>8</b> 42'51		superior conj	4363 May 01 03:15	11° <b>8</b> 11'15	-1°03'35
S	4362 May 18 14:58	0°Ⅲ		minimum elong	4363 May 01 06:41		
asc. node	4362 May 20 19:27	4° <b>Ⅱ</b> 35'55		asc. node	4363 May 07 16:30	24° <b>8</b> 31'42	
evening rise	4362 May 24 22:19	13° <b>Ⅱ</b> 15'43		evening rise	4363 May 09 04:19	27° <b>8</b> 34'32	
	4362 Jun 02 12:52	$0$ $\circ$ $\odot$			4363 May 10 09:02	$\Pi$ °0	
evening max el	4362 Jun 13 14:00	15° <b>©</b> 13'57	21°17'05	evening max el	4363 May 26 21:32	26° <b>Ⅱ</b> 25'04	20°00'01
retrograde	4362 Jun 25 14:25	21°508'39		_	4363 May 31 15:30	0°50	
desc. node	4362 Jun 26 14:56	21°506'12		retrograde	4363 Jun 06 05:21	1°527'23	
evening set	4362 Jun 27 22:05	20°956'13	2002152	evening set	4363 Jun 08 03:59	1°©17'27	
inferior conj	4362 Jul 07 06:59 4362 Jul 06 23:02	16°\$57'32 17°\$08'41	-3°02′53 3°00′21	desc. node	4363 Jun 12 05:08 4363 Jun 13 11:57	30°ŖⅡ 29°Ⅱ22'41	
minimum elong min. Earth dist.	4362 Jul 07 13:16	17 \$0841 16°\$48'44	0.54819 AU	inferior conj	4363 Jun 17 03:46	29 <b>Ⅲ</b> 2241 27° <b>Ⅲ</b> 17'19	1005'18
morning rise	4362 Jul 16 00:32	13°901'21	0.54819 AU	minimum elong	4363 Jun 17 00:44		1°04'10
direct	4362 Jul 19 11:36	13°935'28		min. Earth dist.	4363 Jun 19 01:40		0.55250 AU
morning max el	4362 Aug 01 02:51	18°934'54	22°24'00	morning rise	4363 Jun 25 19:43	22° <b>I</b> 56'03	== • • • •
<b>5</b>	4362 Aug 10 09:08	0°N		direct	4363 Jun 30 00:11	22° <b>Ⅱ</b> 17'49	
asc. node	4362 Aug 16 18:44	10° <b>Ω</b> 55'06		morning max el	4363 Jul 13 17:56	29° <b>Ⅱ</b> 03'44	24°07'29
morning set	4362 Aug 22 22:51	23° <b>Ω</b> 15'41			4363 Jul 14 17:05	0ಂತ	
	4362 Aug 26 03:07	0° <b>m</b> p			4363 Aug 03 11:21	$0^{\circ}\Omega$	
				asc. node	4363 Aug 03 15:45	0° <b>Ω</b> 21'54	
superior conj	4362 Aug 30 02:03	8° m 26'13	1°40'49	morning set	4363 Aug 07 10:31	8° <b>Ω</b> 09'12	
minimum elong	4362 Aug 30 00:51	8° m 19'50	1°40'46	_			
max. Earth dist.	4362 Sep 02 09:23	15° Mp 21'14	1.34248 AU	superior conj	4363 Aug 14 09:50	23° <b>Ω</b> 13'09	
evening rise	4362 Sep 07 01:01	24° <b>m</b> 41'46		minimum elong	4363 Aug 14 07:49	23° <b>Ω</b> 02′16	1*31'2/

max. Earth dist.	4363 Aug 16 10:31	27° <b>Ω</b> 35'44	1.33080 AU	superior conj	4364 Jul 28 20:35	8° <b>Ω</b> 07'44	1°17'24
	4363 Aug 17 13:34	0° <b>m</b>		minimum elong	4364 Jul 28 18:15	7° <b>Ω</b> 54'58	1°17'03
evening rise	4363 Aug 21 19:04	8° Mp 46'40		max. Earth dist.	4364 Jul 29 18:19	10° <b>Ω</b> 07'06	1.32334 AU
	4363 Sep 02 05:30	0∘ <b>ত</b>		evening rise	4364 Aug 04 21:10	23° <b>Ω</b> 14'33	
desc. node	4363 Sep 09 11:14	11° <b>≏</b> 26'30			4364 Aug 08 05:07	0° <b>m</b>	
evening max el	4363 Sep 24 08:07	29° <b>≏</b> 45'27	27°26'22	desc. node	4364 Aug 26 08:15	0° <b>ჲ</b> 23'14	
S	4363 Sep 24 14:17	0°M			4364 Aug 26 01:29	0∘ <b>ত</b>	
retrograde	4363 Oct 07 23:10	7°ML02'36		evening max el	4364 Sep 05 15:48	12° <b>≏</b> 25'48	27°16'02
evening set	4363 Oct 15 02:35	4°M25'22		retrograde	4364 Sep 19 11:52	19° <b>Ω</b> 39'54	27 10 02
min. Earth dist.	4363 Oct 18 19:03	1°M11'48	0.63686 AU	evening set	4364 Sep 26 15:28	17 <b>—</b> 373 <b>4</b> 17° <b>Ω</b> 18'15	
IIIII. Eartii tist.			0.03080 AU	Č	1		0.61021 ATT
	4363 Oct 19 23:32	30° <b>₹</b> Ω	2050111	min. Earth dist.	4364 Sep 30 06:15	14° <b>£</b> 30'30	0.61821 AU
inferior conj	4363 Oct 21 09:03	28° <b>£</b> 34'02		inferior conj	4364 Oct 03 06:54	11° <b>Ω</b> 46'23	
minimum elong	4363 Oct 21 14:04	28° <b>≏</b> 21'15	2°56'25	minimum elong	4364 Oct 03 12:56	11° <b>≏</b> 32'42	3°55'13
morning rise	4363 Oct 28 02:56	23° <b>≏</b> 15'29		morning rise	4364 Oct 10 12:13	6° <b>≏</b> 47'10	
direct	4363 Oct 30 14:11	22° <b>≏</b> 45'41		direct	4364 Oct 12 20:36	6° <b>£</b> 23'35	
asc. node	4363 Oct 30 15:01	22° <b>≏</b> 45'41		asc. node	4364 Oct 16 12:01	7° <b>≏</b> 22'24	
morning max el	4363 Nov 06 03:38	26° <b>≙</b> 10'43	17°51'19	morning max el	4364 Oct 19 19:08	9° <b>£</b> 53'43	17°53'41
	4363 Nov 09 09:56	0°M			4364 Nov 02 00:38	0°M	
morning set	4363 Nov 22 18:07	21°M38'32		morning set	4364 Nov 04 15:22	4°M43'40	
	4363 Nov 27 14:53	0° <b>∡</b> ¹					
	1505 1107 27 11.55	0 %		superior conj	4364 Nov 15 08:07	23°M45'33	0°47'47
superior conj	4262 Dag 05 05:15	12° <b>∡</b> ¹42'27	0°08'29	minimum elong	4364 Nov 15 11:54	24°M01'52	
1 3	4363 Dec 05 05:15			minimum elong			0-4/16
minimum elong	4363 Dec 05 06:10	12° <b>∡</b> 46′13	0°08'22		4364 Nov 19 00:09	0° <b>∡</b> 7	
behind sun begin	4363 Dec 04 21:46	12° <b>∡</b> 11'44		desc. node	4364 Nov 22 07:32	5° <b>₹</b> 29'26	
behind sun end	4363 Dec 05 14:34	13° <b>≯</b> 20'38		max. Earth dist.	4364 Nov 22 16:55	6° <b>≯</b> 07'53	1.42885 AU
desc. node	4363 Dec 06 10:30	14° <b>√</b> 41'59		evening rise	4364 Nov 29 13:04	17° <b>∡</b> ¹05'13	
max. Earth dist.	4363 Dec 11 03:05	22° <b>҂</b> 15'44	1.44323 AU		4364 Dec 07 23:13	0°る	
	4363 Dec 16 00:43	0°ರ			4364 Dec 29 23:54	0° <b>≈</b>	
evening rise	4363 Dec 20 22:59	7° <b>る</b> 38'36		evening max el	4364 Dec 31 08:19	1° <b>≈</b> 25′28	21°52'57
	4364 Jan 04 20:12	0° <b>≈</b>		retrograde	4365 Jan 09 14:05	6°≈55'13	
evening max el	4364 Jan 18 12:13	17° <b>≈</b> 51'33	20°40'03	asc. node	4365 Jan 12 11:17	6°≈10'35	
retrograde	4364 Jan 26 16:54	22° <b>≈</b> 41'37		evening set	4365 Jan 13 23:33	5°≈10'00	
asc. node	4364 Jan 26 14:17	22°≈41'33		evening sec	4365 Jan 18 11:55	30°R₹	
	4364 Jan 30 15:49	21°≈11'49		inforior coni	4365 Jan 19 07:48	28°る51'12	2000150
evening set			2045126	inferior conj			
inferior conj	4364 Feb 05 00:27	15°≈02'14	2°45'36	minimum elong	4365 Jan 19 05:27	28°る59'23	2°08'13
minimum elong	4364 Feb 04 22:00	15°≈10'36	2°44'59	min. Earth dist.	4365 Jan 19 09:24	28°₹45'39	0.67981 AU
min. Earth dist.	4364 Feb 05 14:01	14° <b>≈</b> 15'44	0.67574 AU	morning rise	4365 Jan 24 11:11	22° <b>る</b> 39'41	
morning rise	4364 Feb 10 04:01	8° <b>≈</b> 48'36		direct	4365 Jan 29 08:55	20° <b>る</b> 33'58	
direct	4364 Feb 15 16:28	6° <b>≈</b> 21'44		morning max el	4365 Feb 08 04:38	26° <b>る</b> 22'32	22°42'37
morning max el	4364 Feb 26 18:41	12° <b>≈</b> 59'09	24°11'47		4365 Feb 11 12:33	0° <b>≈</b>	
desc. node	4364 Mar 03 09:45	19° <b>≈</b> 19′03		desc. node	4365 Feb 18 06:46	8° <b>≈</b> 31'48	
	4364 Mar 11 12:14	0° <b>∀</b>			4365 Mar 05 02:02	0° <b>∀</b>	
	4364 Mar 30 21:49	$0^{\circ}\mathbf{\Upsilon}$		morning set	4365 Mar 14 08:31	14° <b>)</b> 45′12	
morning set	4364 Apr 02 13:03	4° <b>Υ</b> 30'38		max. Earth dist.	4365 Mar 19 01:31	22° <b>)</b> 38′54	1.40191 AU
max. Earth dist.	4364 Apr 06 06:08	11° <b>Y</b> 03'33	1.38004 AU		4365 Mar 23 07:05	$0^{\circ}\mathbf{\Upsilon}$	
	r						
superior conj	4364 Apr 13 07:51	24° <b>Υ</b> 10'59	-1°31'05	superior conj	4365 Mar 26 20:24	6° <b>Y</b> 22'08	-1°53'37
minimum elong	4364 Apr 13 12:30	24° <b>Υ</b> 33'13		minimum elong	4365 Mar 27 00:57	6°Υ42'53	
minimum ciong	4364 Apr 16 08:01	0°8	1 30 20	evening rise	4365 Apr 05 17:52	24° <b>Υ</b> 52'23	1 33 13
				evening rise			
evening rise	4364 Apr 22 03:52	11° <b>8</b> 29'31		aga m-J-	4365 Apr 08 11:02	0° <b>と</b> 3° <b>と</b> 40'19	
asc. node	4364 Apr 23 13:33	14° <b>8</b> 15'00		asc. node	4365 Apr 10 10:35	_	10005100
	4364 May 02 06:32	0°II		evening max el	4365 Apr 21 21:41	20° <b>8</b> 47'40	18°25'29
evening max el	4364 May 08 17:01	8° <b>Ⅱ</b> 18'19	19°02'36	retrograde	4365 Apr 29 08:40	24° <b>8</b> 29'10	
retrograde	4364 May 17 09:43	12° <b>Ⅲ</b> 33'04		evening set	4365 May 01 16:42	24° <b>8</b> 08'29	
evening set	4364 May 19 11:03	12° <b>Ⅱ</b> 19'48		inferior conj	4365 May 09 02:24	19° <b>8</b> 35'12	2°11'06
inferior conj	4364 May 27 16:27	8° <b>Ⅱ</b> 06'00	0°46'40	minimum elong	4365 May 09 06:01	19° <b>8</b> 27'52	2°10'05
minimum elong	4364 May 27 18:17	8° <b>Ⅱ</b> 02'50	0°46'01	min. Earth dist.	4365 May 12 12:56	16° <b>8</b> 49'04	0.58482 AU
desc. node	4364 May 30 08:57	6° <b>Ⅱ</b> 14'24		morning rise	4365 May 16 16:13	14° <b>8</b> 05'58	
min. Earth dist.	4364 May 30 17:09	6° <b>Ⅱ</b> 00'41	0.56557 AU	desc. node	4365 May 17 05:59	13° <b>8</b> 48'52	
morning rise	4364 Jun 04 22:16	3° <b>Ⅱ</b> 08'54		direct	4365 May 22 17:25	12° <b>8</b> 30'09	
direct	4364 Jun 10 01:34	2° <b>Ⅱ</b> 06'39		morning max el	4365 Jun 06 02:49	20° <b>8</b> 13'41	27°01'16
morning max el	4364 Jun 24 08:18	9° <b>Ⅱ</b> 28'13	25°45'09		4365 Jun 14 11:59	0°II	
	4364 Jul 09 19:51	0°9	5 07		4365 Jul 02 12:17	0.© 0 H	
asc. node	4364 Jul 20 12:47	20°507'30		morning set	4365 Jul 06 07:24	7° <b>9</b> 45'37	
	4364 Jul 21 21:55	20 \$50730 23°\$01'18		•	4365 Jul 07 09:48	7 9943 37 10°905'17	
morning set				asc. node	+505 Jul - 07 09:48	10 \$20071/	
	4364 Jul 25 03:43	$0^{\circ}\Omega$			4265 I. 1. 12.00.00	220502122	0050144
				superior conj	4365 Jul 13 08:22	23° <b>©</b> 02'32	0 3844

minimum elong	4365 Jul 13 06:13	22° <b>©</b> 50'35	0°58'19	max. Earth dist.	4366 Jun 26 16:23	5° <b>©</b> 23'04	1.32091 AU
max. Earth dist.	4365 Jul 13 05:28	22°546'28	1.32006 AU	max. Lartii dist.	4300 Juli 20 10.23	3 32304	1.52071 AO
max. Latur dist.	4365 Jul 16 12:12	0°Ω	1.52000 710	superior conj	4366 Jun 27 19:31	7°951'53	0°36'15
evening rise	4365 Jul 20 04:36	7° <b>Ω</b> 56'11		minimum elong	4366 Jun 27 17:58	7°943'23	0°35'55
	4365 Jul 31 16:02	0° m/		evening rise	4366 Jul 04 15:14	22°944'37	
desc. node	4365 Aug 13 05:16	18° <b>m</b> 24'07			4366 Jul 08 03:01	0°N	
evening max el	4365 Aug 18 17:29	24° m) 21'43	26°32'19		4366 Jul 26 10:50	0° <b>m</b> )	
Č	4365 Aug 26 12:08	0∘ <u>v</u>		desc. node	4366 Jul 31 02:17	5° m 06'38	
retrograde	4365 Sep 01 16:26	1° <b>≏</b> 31'32		evening max el	4366 Jul 31 11:47	5° m 29'36	25°18'26
	4365 Sep 07 17:07	30°R, Mp		retrograde	4366 Aug 14 10:43	12° m 33'58	
evening set	4365 Sep 08 09:40	29° <b>m</b> 38'23		evening set	4366 Aug 20 04:37	11° <b>m</b> ) 17'54	
min. Earth dist.	4365 Sep 12 07:09	27° <b>m</b> 02'52	0.59773 AU	min. Earth dist.	4366 Aug 24 23:33	8° <b>m</b> 36'49	0.57753 AU
inferior conj	4365 Sep 15 13:20	24° <b>m</b> 28'30	-4°45'12	inferior conj	4366 Aug 28 01:05	6° <b>™</b> 31'01	-5°11'39
minimum elong	4365 Sep 15 18:37	24° Mp 18'03	4°44'18	minimum elong	4366 Aug 28 02:37	6° Mp 28′23	5°11'36
morning rise	4365 Sep 23 05:39	19° <b>m</b> 51'10		morning rise	4366 Sep 05 02:54	2° Mp 16'26	
direct	4365 Sep 25 14:26	19° <b>m</b> 30'54		direct	4366 Sep 07 15:34	1° <b>™</b> 57'12	
asc. node	4365 Oct 03 09:02	23° Mp 22'08		morning max el	4366 Sep 16 09:08	6° Mg 05′09	18°58'11
morning max el	4365 Oct 03 06:05	23° Mp 14'58	18°15'28	asc. node	4366 Sep 20 06:05	10° Mp 30'20	
	4365 Oct 08 15:39	0∘ <b>ত</b>			4366 Oct 01 15:17	0∘ <b>⊽</b>	
morning set	4365 Oct 19 03:00	18° <b>ഫ</b> 29'23		morning set	4366 Oct 03 00:38	2° <b>£</b> 43'35	
	4365 Oct 25 05:22	0°M₊					
				superior conj	4366 Oct 11 09:53	19° <b>≏</b> 09'21	1°34'16
superior conj	4365 Oct 28 11:23	5°M59'18		minimum elong	4366 Oct 11 12:29	19° <b>≙</b> 21'45	1°34'04
minimum elong	4365 Oct 28 15:17	6°M16'58	1°15'55		4366 Oct 17 05:30	0° <b>M</b> ₅	
max. Earth dist.	4365 Nov 05 01:38	19°M21'35	1.41006 AU	max. Earth dist.	4366 Oct 18 06:52	1°M.54'14	1.38923 AU
desc. node	4365 Nov 09 04:34	26°M15'11		evening rise	4366 Oct 22 03:25	8°M40'20	
evening rise	4365 Nov 09 20:42	27°M21'17		desc. node	4366 Oct 27 01:35	16°M55'30	
	4365 Nov 11 11:50	0° <b>∡</b>		. 1	4366 Nov 04 09:48	0° ⊀ <b>7</b>	24021121
	4365 Dec 01 15:21	0°る	22012107	evening max el	4366 Nov 26 13:18	28° <b>₹</b> 43'12	24°31'21
evening max el	4365 Dec 14 00:05	15°る02'34 21°る10'32	23°12'07		4366 Nov 27 21:26	0°る 5°る23'20	
retrograde	4365 Dec 24 08:38	19° <b>る</b> 09'25		retrograde	4366 Dec 07 23:22	3° <b>る</b> 23′20 3° <b>る</b> 06′35	
evening set asc. node	4365 Dec 29 06:18 4365 Dec 30 08:18	19 30923		evening set	4366 Dec 13 10:30 4366 Dec 16 09:17	30°R.⊀	
inferior conj	4366 Jan 03 15:42	18 30908 12° <b>3</b> 45'11	1°25'02	asc. node	4366 Dec 17 05:20	28° <b>₹</b> 756'45	
minimum elong	4366 Jan 03 13:53	12 <b>3</b> 4311 12° <b>3</b> 51'24	1°24'21	min. Earth dist.	4366 Dec 18 01:59	27° <b>×</b> <sup>7</sup> 49'00	0.67689 AU
min. Earth dist.	4366 Jan 03 06:11	12 <b>ර</b> 31 24 13° <b>ර</b> 17'56	0.68012 AU	inferior conj	4366 Dec 18 22:20	26° <b>х</b> 41'05	0°34'42
morning rise	4366 Jan 08 21:22	6° <b>る</b> 37'39	0.00012710	minimum elong	4366 Dec 18 21:30	26° <b>×</b> 43'51	0°34'22
direct	4366 Jan 13 04:48	4°₹54'46		morning rise	4366 Dec 24 08:35	20° <b>×</b> <sup>7</sup> 39'36	0 0 . 22
morning max el	4366 Jan 21 19:33	9° <b>る</b> 54'59	21°18'32	direct	4366 Dec 28 02:48	19° <b>∡</b> 18'39	
desc. node	4366 Feb 05 03:49	28° <b>ප</b> 16'31		morning max el	4367 Jan 04 18:06	23° <b>х</b> 38'57	20°05'27
	4366 Feb 06 08:32	0° <b>≈</b>		Č	4367 Jan 10 04:26	0°ರ	
morning set	4366 Feb 21 23:27	23° <b>≈</b> 40′06		desc. node	4367 Jan 23 00:50	18° <b>පි</b> 23'50	
C	4366 Feb 25 22:45	0° <b>)</b>			4367 Jan 30 15:47	0° <b>≈</b>	
max. Earth dist.	4366 Mar 01 02:53	5° <b>)</b> €09'40	1.42251 AU	morning set	4367 Jan 31 20:25	1°≈50'20	
				max. Earth dist.	4367 Feb 11 12:19	18° <b>≈</b> 34'27	1.43906 AU
superior conj	4366 Mar 08 11:57	17° <b>)</b> 33′44	-2°06'42				
minimum elong	4366 Mar 08 13:55	17° <b>)</b> 42′10	2°06'40	superior conj	4367 Feb 17 02:11	27° <b>≈</b> 35'54	-2°04'56
	4366 Mar 15 13:44	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	4367 Feb 16 22:35	27° <b>≈</b> 21′09	2°04'48
evening rise	4366 Mar 19 18:31	7° <b>Ƴ</b> 34'47			4367 Feb 18 13:16	0° <b>ℋ</b>	
asc. node	4366 Mar 28 07:37	22° <b>Ƴ</b> 41'46		evening rise	4367 Mar 02 01:24	19° <b>)</b> 27′05	
	4366 Apr 02 03:12	0°8			4367 Mar 08 04:41	0° <b>Υ</b>	
evening max el	4366 Apr 05 08:03	3° <b>8</b> 44'16	18°08'12	asc. node	4367 Mar 15 04:40	11° <b>Y</b> 10′57	
retrograde	4366 Apr 12 01:11	7° <b>8</b> 09'00		evening max el	4367 Mar 19 20:45	16° <b>Y</b> 58'11	18°10'11
evening set	4366 Apr 14 15:53	6° <b>8</b> 38'22		retrograde	4367 Mar 26 07:01	20° <b>Y</b> 21′25	
inferior conj	4366 Apr 21 08:46	1° <b>8</b> 44'13		evening set	4367 Mar 29 03:42	19° <b>Y</b> 39'27	2020152
minimum elong	4366 Apr 21 11:41		3°03'22	inferior conj	4367 Apr 04 07:46	14° <b>Y</b> 25'19	
i matra	4366 Apr 23 04:46	30°RΥ	0.60660.411	minimum elong	4367 Apr 04 09:02		3°29'46
min. Earth dist.	4366 Apr 24 15:03	28° <b>Υ</b> 41'13 25° <b>Υ</b> 52'46	0.60668 AU	min. Earth dist.	4367 Apr 10 13:08	11° <b>Y</b> 29'38 8° <b>Y</b> 20'46	0.62794 AU
morning rise desc. node	4366 Apr 28 05:20 4366 May 04 03:01	23° <b>Y</b> '52'46 23° <b>Y</b> '44'29		morning rise direct	4367 Apr 10 13:08 4367 Apr 17 10:11	8° γ 20'46 5° γ 44'52	
desc. node	4366 May 04 03:01 4366 May 04 21:09	23° <b>Y</b> '44'29 23° <b>Y</b> '42'51		direct desc. node	4367 Apr 17 10:11 4367 Apr 21 00:04	5° γ 44'52 6° γ 22'34	
direct	4366 May 17 10:29	0° <b>8</b>		morning max el	4367 Apr 21 00:04 4367 May 01 10:11	13° <b>Y</b> 43'43	27°49'51
morning max el	4366 May 19 03:41	1° <b>8</b> 37'46	27°44'20	morning max ci	4367 May 01 10:11 4367 May 14 12:13	0° <b>8</b>	41 <del>1</del> 7 J1
morning max ci	4366 Jun 08 18:27	0° <b>I</b>	21 77 20		4367 Jun 01 06:38	0°I	
morning set	4366 Jun 20 13:11	22° <b>I</b> I16'39		morning set	4367 Jun 04 13:10	6° <b>∏</b> 27'24	
asc. node	4366 Jun 24 06:52	0°910'27		max. Earth dist.	4367 Jun 09 23:06	17° <b>II</b> 43'32	1.32594 AU
	4366 Jun 24 04:55	0°95		asc. node	4367 Jun 11 03:56	20° <b>Ⅱ</b> 18'18	
		. =					

superior conj	4367 Jun 12 04:14	22° <b>II</b> 29'38	0°10'35	superior conj	4368 May 26 08:33	6° <b>Ⅱ</b> 49'53	0°17'20
minimum elong	4367 Jun 12 04:14 4367 Jun 12 03:43	22° <b>I</b> I29'58	0°10'33	minimum elong	4368 May 26 09:27	6° <b>∏</b> 54'39	0°17'18
behind sun begin	4367 Jun 11 23:45	22° <b>I</b> I05'25	0 1020	asc. node	4368 May 28 00:59	10° <b>Ⅱ</b> 24'49	0 17 10
behind sun end	4367 Jun 12 07:41	22° <b>II</b> 48'24		evening rise	4368 Jun 02 14:16	22° <b>I</b> 14'52	
oeima san ena	4367 Jun 15 15:02	0°9		evening rise	4368 Jun 06 08:45	0°9	
evening rise	4367 Jun 19 03:05	7° <b>9</b> 32'54		evening max el	4368 Jun 23 15:50		22°08'38
e vennig 1150	4367 Jun 30 20:44	0° <b>Ω</b>		evening man er	4368 Jun 28 00:58	0°Ω	0000
evening max el	4367 Jul 13 00:50	16°Ω00'46	23°45'19	desc. node	4368 Jul 03 20:20	2°Ω30'50	
desc. node	4367 Jul 17 23:18	20° <b>Ω</b> 00'33		retrograde	4368 Jul 06 11:51	2° <b>Ω</b> 47'05	
retrograde	4367 Jul 26 17:03	22° <b>Ω</b> 52'59		evening set	4368 Jul 09 08:38	2° <b>Ω</b> 28'49	
evening set	4367 Jul 31 00:21	22° <b>Ω</b> 12'14		C	4368 Jul 15 17:14	30°Rூ	
min. Earth dist.	4367 Aug 06 10:56	19° <b>Ω</b> 08′29	0.56051 AU	min. Earth dist.	4368 Jul 17 21:20	28°548'39	0.55008 AU
inferior conj	4367 Aug 08 16:36	17° <b>Ω</b> 47'35	-5°00'38	inferior conj	4368 Jul 18 15:29	28° <b>©</b> 23'07	-3°59'33
minimum elong	4367 Aug 08 11:59	17° <b>£</b> 54'34		minimum elong	4368 Jul 18 06:55	28°535'10	3°57'21
morning rise	4367 Aug 17 02:08	13° <b>Ω</b> 51'47		morning rise	4368 Jul 27 07:00	24°532'40	
direct	4367 Aug 19 21:16	13° <b>Ω</b> 32'04		direct	4368 Jul 30 10:42	24°©10'29	
morning max el	4367 Aug 30 01:30	18° <b>Ω</b> 15'42	20°02'48	morning max el	4368 Aug 11 06:01	29°5641'10	21°27'53
asc. node	4367 Sep 07 03:09	28° <b>Ω</b> 32'30			4368 Aug 11 14:02	$0^{\circ}\Omega$	
	4367 Sep 08 00:44	0° <b>m</b>		asc. node	4368 Aug 24 00:12	17° <b>Ω</b> 15'24	
morning set	4367 Sep 17 05:07	17° <b>m</b> 17'41			4368 Aug 30 13:55	0° <b>m</b> )	
	4367 Sep 23 10:28	0° <del>م</del>		morning set	4368 Aug 31 13:52	2° m 03'48	
	•				-		
superior conj	4367 Sep 24 22:31	3° <b>≏</b> 01'37	1°42'47	superior conj	4368 Sep 07 21:00	17° <b>m</b> 22'51	1°43'28
minimum elong	4367 Sep 24 23:27	3° <b>≏</b> 06'18	1°42'46	minimum elong	4368 Sep 07 20:28	17° <b>m</b> 20'04	1°43'28
max. Earth dist.	4367 Sep 30 12:32	13° <b>≙</b> 55'50	1.36882 AU	max. Earth dist.	4368 Sep 11 23:44	25° <b>m</b> 47'43	1.35100 AU
evening rise	4367 Oct 04 08:03	21° <b>≙</b> 00'07			4368 Sep 14 02:42	0° <b>⊽</b>	
	4367 Oct 09 10:55	0° <b>M</b> .		evening rise	4368 Sep 16 06:31	4° <b>≙</b> 09'57	
desc. node	4367 Oct 13 22:36	7°M26'21		desc. node	4368 Sep 29 19:37	27° <b>£</b> 41'48	
	4367 Oct 29 08:27	0°⊀			4368 Oct 01 07:03	$0^{\circ}$ M.	
evening max el	4367 Nov 09 01:42	12° <b>∡</b> ¹26′05	25°43'36	evening max el	4368 Oct 21 14:12	26°M05'28	26°41'34
retrograde	4367 Nov 21 09:34	19° <b>∡</b> ′29'11			4368 Oct 26 04:42	0° <b>∡</b> ¹	
evening set	4367 Nov 27 10:30	16° <b>∡</b> ¹58'57		retrograde	4368 Nov 03 14:36	3° <b>҂</b> ¹20'59	
min. Earth dist.	4367 Dec 01 18:31	12° <b>≯</b> 16'15	0.67018 AU	evening set	4368 Nov 10 04:17	0° <b>∡</b> 141′50	
inferior conj	4367 Dec 03 01:56	10° <b>∡</b> ³36'34	-0°20'55		4368 Nov 10 23:40	30°RM₊	
minimum elong	4367 Dec 03 02:29	10° <b>≯</b> 34'50	0°20'41	min. Earth dist.	4368 Nov 14 05:30	26°M34'41	0.65996 AU
asc. node	4367 Dec 04 02:23	9° <b>⋌</b> 19'45		inferior conj	4368 Nov 16 00:28	24°M27'30	-1°20'38
morning rise	4367 Dec 08 18:51	4° <b>∡</b> ¹43'27		minimum elong	4368 Nov 16 02:43	24°M20'51	1°19'42
direct	4367 Dec 12 01:31	3° <b>҂</b> ′41'43		asc. node	4368 Nov 19 23:26	20°M14'13	
morning max el	4367 Dec 19 00:31	7° <b>∡</b> ³33'37	19°06'44	morning rise	4368 Nov 22 01:56	18°M45'14	
	4368 Jan 04 05:40	0°₹		direct	4368 Nov 24 23:05	17°M59'00	
desc. node	4368 Jan 09 21:53	8° <b>る</b> 47'46		morning max el	4368 Dec 01 13:02	21°M33'29	18°23'59
morning set	4368 Jan 10 23:48	10° <b>る</b> 28'35			4368 Dec 08 04:47	0°⊀	
	4368 Jan 23 11:51	0° <b>≈</b>		morning set	4368 Dec 21 04:55	20° <b>҂</b> 26'48	
max. Earth dist.	4368 Jan 25 03:50	2° <b>≈</b> 37'08	1.44952 AU	desc. node	4368 Dec 26 18:53	29° <b>∡</b> ¹22'54	
					4368 Dec 27 04:12	0°₹	
superior conj	4368 Jan 27 16:20	6° <b>≈</b> 35'51				_	
minimum elong	4368 Jan 27 07:33	6°≈01'08	1°43'11	superior conj	4369 Jan 05 18:50	15° <b>る</b> 10'43	
evening rise	4368 Feb 11 10:33	0° <b>∺</b> 23'10		minimum elong	4369 Jan 05 10:57	14° <b>る</b> 39'46	1°04'09
	4368 Feb 11 04:54	0° <b>∀</b>		max. Earth dist.	4369 Jan 06 22:19	16° <b>පි</b> 58'31	1.45283 AU
asc. node	4368 Mar 01 01:42	28° <b>)</b> 58'14			4369 Jan 15 05:49	0° <b>≈</b>	
	4368 Mar 02 00:09	0° <b>Υ</b>	10020145	evening rise	4369 Jan 21 20:23	10°≈22'55	0.0
evening max el	4368 Mar 02 08:55	0°Υ22'38	18°30'47	greatest brilliancy	4369 Feb 01 03:35	26°≈32'46	-0.8m
retrograde	4368 Mar 08 21:40	3°Υ57'24			4369 Feb 03 09:37	0° <b>∀</b>	10000102
evening set	4368 Mar 12 00:21	3° <b>Y</b> 03'17		evening max el	4369 Feb 13 18:14		19°09'02
	4368 Mar 15 15:05	30° <b>₹</b>	2025115	asc. node	4369 Feb 15 22:44	15° <b>)</b> 51'19	
inferior conj	4368 Mar 17 19:22			retrograde	4369 Feb 20 17:22	17° <b>)</b> 49'48	
minimum elong	4368 Mar 17 19:00	27°\(\frac{1}{32}\)'02	3°35'14	evening set	4369 Feb 24 02:50	16° <b>¥</b> 42'42	2825105
min. Earth dist.	4368 Mar 19 22:05	25° <b>米</b> 01′00 21° <b>米</b> 19′42	0.64643 AU	inferior conj	4369 Mar 01 15:54	10° <b>米</b> 54'12 10° <b>米</b> 59'14	3°25'05 3°24'53
morning rise	4368 Mar 23 12:59			minimum elong	4369 Mar 01 14:19		3°24'53 0.66107 AU
direct desc. node	4368 Mar 30 07:07	18° <b>米</b> 30′36 21° <b>米</b> 19′18		min. Earth dist.	4369 Mar 03 03:17	9° <b>∺</b> 01'11 4° <b>∺</b> 40'19	0.0010/ AU
	4368 Apr 12 10:50		27010146	morning rise	4369 Mar 07 01:28	4° <b>★</b> 40°19 1° <b>★</b> 51'26	
morning max el	4368 Apr 16 03:50	26° <b>)</b> 24'32 0° <b>\</b>	4/ 1940	direct desc. node	4369 Mar 13 10:49	8° <b>₩</b> 00'13	
	4368 Apr 16 03:59 4368 May 07 02:18	0° <b>∀</b>		morning max el	4369 Mar 24 18:08 4369 Mar 26 05:48	8° <del>X</del> 00°13 9° <del>X</del> 27'18	26°20'45
morning set	4368 May 17 02:18 4368 May 18 04:36	20° <b>8</b> 09'48		morning max er	4369 Apr 11 09:55	9° <b>π</b> 2/18 0° <b>Υ</b>	20 2043
max. Earth dist.	4368 May 22 21:38	20 80948 29° <b>8</b> 36'45	1.33540 AU		4369 Apr 29 14:12	0° <b>8</b>	
max. Darui Uist.	4368 May 23 02:09	0° <b>Ⅱ</b>	1.55540 AU	morning set	4369 May 01 07:53	3° <b>8</b> 13'16	
	-1300 Iviay 23 02.09	V <b>Д</b>		morning set	7307 May 01 01.33	J <b>O</b> 13 10	

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	4371 Mar 09 12:41	0° <b>)</b> €		direct	4372 Jan 23 04:01	14° <b>る</b> 00'12	
morning set	4371 Mar 26 05:13	26° <b>)</b> 22'44		morning max el	4372 Feb 01 10:57	19° <b>පි</b> 27'16	22°05'50
	4371 Mar 28 07:59	$0$ ° $\mathbf{\Upsilon}$			4372 Feb 10 06:53	0° <b>≈</b>	
max. Earth dist.	4371 Mar 30 04:35	3° <b>Y</b> 14'10	1.38934 AU	desc. node	4372 Feb 13 09:11	4° <b>≈</b> 12'17	
					4372 Mar 01 17:27	0° <b>∀</b>	
superior conj	4371 Apr 06 16:16	16° <b>Ƴ</b> 49'38		morning set	4372 Mar 05 12:15	6° <b>米</b> 01'46	
minimum elong	4371 Apr 06 21:07	17° <b>Y</b> 12'18	1°40'56	max. Earth dist.	4372 Mar 11 02:21	15° <b>)</b> 13′10	1.41103 AU
	4371 Apr 13 13:24	0° <b>8</b>			4272 ) ( 10 20 20	200 1/2 (11.1	2000120
evening rise	4371 Apr 15 22:12	4° <b>と</b> 36'05 9° <b>と</b> 53'30		superior conj	4372 Mar 18 20:26 4372 Mar 19 00:17	28° <b>)</b> 36'11 28° <b>)</b> 53'14	
asc. node	4371 Apr 18 16:04 4371 May 01 07:58	0°Ⅱ		minimum elong	4372 Mar 19 00:17 4372 Mar 19 15:16	28°π33'14 0°Υ	2-00-25
evening max el	4371 May 02 05:12	0° <b>∏</b> 54'22	18°44'21	evening rise	4372 Mar 19 13:10 4372 Mar 29 07:01	17° <b>Y</b> '42'44	
retrograde	4371 May 10 07:38	4° <b>I</b> I52'55	10 4421	asc. node	4372 Apr 04 13:06	29° <b>Υ</b> 09'21	
evening set	4371 May 12 11:51	4° <b>Ⅱ</b> 36'46			4372 Apr 05 00:39	0°B	
inferior conj	4371 May 20 08:39	0° <b>Ⅱ</b> 14'43	1°26'24	evening max el	4372 Apr 14 12:35	13° <b>8</b> 35'32	18°15'42
minimum elong	4371 May 20 11:37	0°Ⅲ09'11	1°25'25	retrograde	4372 Apr 21 14:43	17° <b>8</b> 08'21	
	4371 May 20 16:34	30° <b>₹</b> 8		evening set	4372 Apr 24 01:33	16° <b>8</b> 43'45	
min. Earth dist.	4371 May 23 15:23	27° <b>8</b> 49'52	0.57324 AU	inferior conj	4372 May 01 03:36	12° <b>8</b> 01'19	2°37'11
desc. node	4371 May 25 11:23	26° <b>8</b> 36'15		minimum elong	4372 May 01 07:07	11° <b>8</b> 53'40	2°36'21
morning rise	4371 May 28 08:09	25° <b>8</b> 03'16		min. Earth dist.	4372 May 04 13:33	9° <b>8</b> 04'56	0.59393 AU
direct	4371 Jun 02 21:23	23° <b>8</b> 47'43		morning rise	4372 May 08 09:57	6° <b>8</b> 21'05	
	4371 Jun 15 19:56	0°II		desc. node	4372 May 11 08:24	5° <b>8</b> 02'31	
morning max el	4371 Jun 17 05:56	1° <b>Ⅱ</b> 19'09	26°21'01	direct	4372 May 14 18:12	4° <b>8</b> 30'32	27024117
morning set	4371 Jul 07 12:59	0°ഇ 16° <b>ഇ</b> 39'23		morning max el	4372 May 29 03:17 4372 Jun 12 00:55	12° <b>႘</b> 20'11 0° <b>Ⅱ</b>	2/°24'1/
asc. node	4371 Jul 15 23:32 4371 Jul 15 15:19	16 \$3923 15°\$56'07			4372 Jun 28 16:29	0. о п	
asc. node	4371 Jul 22 03:00	13 <b>3</b> 3007		morning set	4372 Jun 29 07:44	1° <b>5</b> 519'19	
	43/1 Jul 22 03:00	0 86		asc. node	4372 Jul 01 12:23	5°957'52	
superior conj	4371 Jul 22 22:49	1° <b>Ω</b> 49'22	1°09'59	use. Hode	13/2 341 01 12.23	3 37 32	
minimum elong	4371 Jul 22 20:31	1° <b>Ω</b> 36'37	1°09'36	superior conj	4372 Jul 06 10:35	16°5942'47	0°49'38
max. Earth dist.	4371 Jul 23 10:00	2° <b>£</b> 51′01	1.32151 AU	minimum elong	4372 Jul 06 08:37	16° <b>©</b> 31'59	0°49'15
evening rise	4371 Jul 29 21:06	16° <b>Ω</b> 49'22		max. Earth dist.	4372 Jul 05 21:38	15° <b>©</b> 31'25	1.31985 AU
	4371 Aug 05 11:47	0° <b>m</b>			4372 Jul 12 12:21	$0^{\circ}\Omega$	
desc. node	4371 Aug 21 10:42	25° <b>m</b> 30'59		evening rise	4372 Jul 13 06:09	1° <b>Ω</b> 34'51	
	4371 Aug 25 01:47	0∘ <b>⊽</b>			4372 Jul 28 14:17	0° <b>™</b>	
evening max el	4371 Aug 29 18:25	4° <b>£</b> 57'30	27°01'25	desc. node	4372 Aug 07 07:43	13°Mp02'21	
retrograde	4371 Sep 12 15:27	12° <b>£</b> 08'58		evening max el	4372 Aug 10 16:48	16° Mp 32'41	26°04'06
evening set	4371 Sep 19 16:21	9° <b>Ω</b> 57'58	0.60070 411	retrograde	4372 Aug 24 16:06	23° Mp 41'06	
min. Earth dist. inferior conj	4371 Sep 23 08:40	/° <b>ച</b> 1/'35 4° <b>Ω</b> 35'38	0.60970 AU	evening set	4372 Aug 31 01:16	22° Mp 02'41	0.50005 ATT
minimum elong	4371 Sep 26 12:34 4371 Sep 26 18:34	4 <b>≗</b> 33 38 4° <b>£</b> 22'45		min. Earth dist. inferior conj	4372 Sep 04 05:26 4372 Sep 07 11:28	19 IIJ 27 23 17° IID 02'34	0.58895 AU
minimum clong	4371 Oct 03 05:58	4 <b>—</b> 22 43	4 17 40	minimum elong	4372 Sep 07 11:28 4372 Sep 07 15:34	16° Mp 54'55	
morning rise	4371 Oct 03 03:30	29° m 45'25		morning rise	4372 Sep 15 08:07	12° m/35'25	7 37 20
direct	4371 Oct 06 06:58	29° m 23'25		direct	4372 Sep 17 18:10	12° m) 15'52	
	4371 Oct 09 05:57	0∘ <del>⊽</del>		morning max el	4372 Sep 25 19:38	16° Mp 08'23	18°31'01
asc. node	4371 Oct 11 14:31	1° <b>≏</b> 21'33		asc. node	4372 Sep 27 11:35	17° <b>m</b> 53'02	
morning max el	4371 Oct 13 11:30	2° <b>ჲ</b> 57'58	18°00'29		4372 Oct 05 14:17	0∘ <b>⊽</b>	
morning set	4371 Oct 29 05:52	27° <b>≏</b> 51'32		morning set	4372 Oct 11 22:16	11° <b>≏</b> 51'13	
	4371 Oct 30 09:39	0°M₊					
	4271 31 00 07 27	1.6000 1.000	100144.6	superior conj	4372 Oct 20 19:50	28° <b>£</b> 50'55	
superior conj	4371 Nov 08 07:35	16°M10'12		minimum elong	4372 Oct 20 23:16	29° <b>Ω</b> 06'52	1°24'50
minimum elong	4371 Nov 08 11:40	16°M28'13	1°00'45	Family 33-4	4372 Oct 21 10:44	0°M	1 40121 ATT
max. Earth dist.	4371 Nov 15 22:26 4371 Nov 16 09:49	29° <b>I</b> L12'48 0° <b>∡</b> 7	1.42130 AU	max. Earth dist. evening rise	4372 Oct 28 05:14 4372 Nov 01 11:22	12°M08'45 19°M23'21	1.40131 AU
desc. node	4371 Nov 10 09:49 4371 Nov 17 09:57	0 <b>x</b> ⁴ 1° <b>x</b> ⁴39'35		desc. node	4372 Nov 01 11:22 4372 Nov 03 07:00	22°M23'52	
evening rise	4371 Nov 21 18:03	8° <b>×</b> <sup>7</sup> 40'37		dese. Hode	4372 Nov 08 00:36	0° <b>√</b>	
	4371 Dec 05 18:12	0°る			4372 Nov 29 01:39	0°ਤ	
evening max el	4371 Dec 24 16:21	24° <b>る</b> 33'27	22°26'08	evening max el	4372 Dec 06 06:37	8° <b>る</b> 11'33	23°46'04
Č	4372 Jan 01 07:47	0° <b>≈</b>		retrograde	4372 Dec 17 02:28	14° <b>පි</b> 34'48	
retrograde	4372 Jan 03 09:16	0° <b>≈</b> 19'42		evening set	4372 Dec 22 05:45	12° <b>る</b> 26'45	
	4372 Jan 05 08:24	30°R₹		asc. node	4372 Dec 24 10:49	10° <b>ප</b> 12'04	
evening set	4372 Jan 07 23:51	28° <b>る</b> 27'29		min. Earth dist.	4372 Dec 27 01:49	6° <b>る</b> 49'31	0.67920 AU
asc. node	4372 Jan 07 13:47	28° <b>ප්</b> 47'17		inferior conj	4372 Dec 27 16:01	6° <b>ප</b> 01'08	1°04'24
inferior conj	4372 Jan 13 08:25	22° <b>る</b> 05'49		minimum elong	4372 Dec 27 14:34	6°る06'04	1°03'49
minimum elong	4372 Jan 13 06:14	22°る13'22	1°50'24	morning rise	4373 Jan 01 23:23	29° 🖈 55'54	
min. Earth dist.	4372 Jan 13 05:07	22°る17'15	0.68044 AU	J:/	4373 Jan 01 21:16	30°₹ <i>⊼</i> 7	
morning rise	4372 Jan 18 12:30	15° <b>る</b> 56'01		direct	4373 Jan 06 00:53	28° <b>≯</b> 22'50	

Manusing and   4,73 km   10,001   275,000		4373 Jan 10 13:38	ე∘ჳ		transit middle	4373 Dec 11 21:20	19° <b>∡</b> 758'40	0°11'36
description         473 July 20 05 12         475 July 20 05 20         1988 July 20 05	morning max el		_	20°45'45				0 11 50
Manuming set   A373 Feb 12 1714	•			20 43 43	Č			
morning         473 Fb. 21 Get 20 (4)         287-90 (2)         1870 (2	dese. node							
mus Furth tills         473 Fabr 2 to 2 to 30         69-84         1,491 6 to 31         or 378 fabr 2 to 10         69-84         control of 378 fabr 1 to 10         69-84         18-84 fabr 1 to 10	morning set				=			
Separation   473 Feb 22 10.14   0**  5**  5**  10**  14**  15**  14**  15**  14**  15**  14**  15**  14**  15**  14**  15**  14**  15**	-			1 43016 AU				19°38'26
Segerici of   473   167   28   01.31   9"His   2"0806   decs node   473   117   02   02   03   02   03   03   04   03   03   03   04   03   03	max. Larm dist.			1.43010710	morning max er			17 30 20
Suppries or   4373 Feb 28 of 131   9471878   2°0805   dose, note   4374 and 21 015   2°254		43/3100 22 10.41	٥ ٨		greatest brilliancy			-0.7m
minimation         4273 fabra 12 10.24         29 M17 50         20 805         morning seed         4373 Mar 12 10.41         22 574 32 8         certain prince         4373 Mar 12 10.41         17 90 48 14 1,443 AU           evening max         4473 Mar 2 10.41         10 90 70 58 87         max. Earth dist.         4374 Feb 03 18.40         11 20 48 14 1,443 AU           evening max         473 Mar 2 10.12         20 70 10 12         20 70 10 12         20 70 10 12         15 70 10 10 10 10 10 10 10 10 10 10 10 10 10	superior coni	4373 Feb. 28. 01:31	9° <b>¥</b> 18'18	-2°08'06				0.7111
Commitment   4373 Mar   1 2336   0°P     1795807								
evening rises. node         4373 Mar 2 to 009         0°Y0V140         max. Farth dist         4374 Mar 2 to 0017         1.4484 AU           evening max el         4373 Mar 2 to 0017         2e°P4010         18'00444         sperior conj         4374 be 10 6 04.53         18'8-85274         1'55808           retorgrade         4373 Apr 04 13.26         0°B0246         retorgrade         4374 be 10 20.44         13'25         1'55808           evening sat         4373 Apr 13 17.33         24°P1281         3'1750         evening sat         4374 be 10 20.44         1'97.30           evening sat         4373 Apr 13 17.33         24°P1281         3'1750         evening sat         4374 bar 10 0.04         0°P1           minimum clong         4373 Apr 13 10.32         24°P1281         3'1750         evening sat         4374 bar 10 0.01         0°P1           minimum clong         4373 Apr 12 10.22         11°P2200         3'1750         evening sat         4374 bar 10 0.01         18'1647           minimum clong         4373 Apr 12 10.22         11°P2200         11°P2043         retorgade         4374 bar 10 10         18'1647           discert discert discert         4373 Apr 12 10         20:19         18'P12043         retorgade         4374 bar 10 10         18'P12043           dis	minimum ciong			2 00 03	morning set			
osc. mode         4373 Mar 2 0.009         1°P°S 80°S 2         susperior conj         4374 Reb 0.05.05         18°8 5274         -18°S 80°S 2         -18°S 80°S 3         18°S 90°S 3         18°S 80°S 3         18°S 90°S 3         1	evening rise				may Earth dist			1 44434 ATT
Perning max   4373 Apr 30 0171   26°P 1970   18'06'44   support conj	•				max. Lartii dist.	4374160 03 10.40	11 70-10 14	1.4454710
certorgrade         4373 Apr 03 1922         0°B         minimame one         4374 Reb 07 22-40         18%-8273         195808           retorgrade         4373 Apr 05 07:33         30°V°         evening size         4374 Reb 21 22-44         11°H3344         1 °H3344         1 °H344         1 °H344         1 °H1454         1 °H14544         1 °H1454         1 °H1454         1 °H1454				18°06'44	superior coni	4374 Fab. 08 04:53	1800052124	1058128
Personane   4373 Apr 04   1326   0°80236   1326   1327	evening max er			10 00 44				
cerning set   4373 Apr 0.8 07.33   98°Y    27°1719   4374 Apr 0.8 01.15   70°Y   11°Y   13°Y   13	ratrograda		_		minimum clong			1 38 08
Sevening set	retrograde	•	_		avaning risa			
inchron conj minimum long diverse and service ana		•			evening rise			
minime and minime and minime and flat in the	Č			2017150	1			
min. Earth dist.         4373 Åpr 16 1923         21°9′2200         0.6189 AU         retrograde         4374 Mar 18 2324         13°9′279         9           direct         4373 Åpr 2 7 02:19         16°°0′0748         minimum elong         4374 Mar 27 22:25         7°°1′1741         3°34119           desc. node         4373 May 16 16:53         26°0′0748         minimum elong         4374 Mar 27 22:25         7°°1′1741         3°34119           morning net         4373 May 16 16:53         0°B         morning rise         4374 Apr 02 12:21         19°0′0748           morning set         4373 Jun 18 09:68         26°1′0475         morning set         4373 Apr 16 15:43         0°B         26°1′0475           max. Earth dist.         4373 Jun 18 09:06         26°1′0475         desc. node         4374 Apr 19 19:14         28°3′2616           asc. node         4373 Jun 20         0.070         28°1′146         132239 AU         morning max el         4374 Apr 18 10:55         0°P°         28°1′146           superior conj         4373 Jun 20         0.054         1°82715         0°243         morning max el         4374 Apr 18 10:55         0°P°         28°1′249           evening max el         4373 Jun 20         0.014         1°82275         0°243         morning max el         4374	5	-						10016147
Morning rise   4373 Åpr 27 0 07.14   8°P°2643   16°P°0744   16°P°0745   16°P	•				•			18°16'47
direct         4373 Apr 23 Apr 28 0219         16°P(*0404*)         inferior conj         4374 Mar 27 2225         7°P(*174*)         33'419           decs. node         4373 Aby 11 06:32         24°P(*024*)         27'5123         minimum clong         4374 Mar 20 10:11         4"P(*024*)         32'5123         min. Earth dist.         4374 Mar 30 10:11         4"P(*024*)         4"S7 Mar 06 16:40         4"P(*024*)         4"		•		0.61589 AU	•			
March   Marc		•			•			
Marching max el   4373 May 1   06.53   24°P0243   27°S123   min. Earth dist   4374 May 10   10.11   4°P0305   0.63625 AU   1473 May 16   15.43   0°EU   15.42   1474 May 10   15.42		*						
May 1		-			2			
Manuming and   4373 Jun   13 1120   15"   14235   15"   14235   16"   16"   16"   14374 Jun   15 1125   16"   14374 Jun   13 1120   16"   16"   18"	morning max el	•		27°51'23		4374 Mar 30 10:11		0.63625 AU
momining set         4373 Jun I 3 J1.20         15°H20°S         cell Fill Value         direct         4374 Apr 15 02.28         29°H20°15         cell cells. Note         4374 Apr 15 02.28         29°H49°15         cell cells. Note         4374 Apr 23 1 452         6°°P24°29         27°H10°1         4373 Jun 3 1 40°10°1         29°H49°15         29°H49°15 <t< td=""><td></td><td>4373 May 16 15:43</td><td></td><td></td><td>morning rise</td><td>4374 Apr 02 22:21</td><td></td><td></td></t<>		4373 May 16 15:43			morning rise	4374 Apr 02 22:21		
Seconde   4373 Jun   18 09-26   26°H0435   Seconde   4374 Apr   15 02-28   29°H4915   Seconde   4373 Jun   20 04-49   O'GE   Seconde   4374 Apr   15 10-55   O'PY		4373 Jun 05 08:12				4374 Apr 04 14:04		
max. Earth dist.         4373 Jun 20 04:49 (279 Hz)         28° Π0146 (3.3239 AU)         1.32239 AU         4374 Apr 15 10.55 (6°°C)22 (6°°C)22 (6°°C)22 (7°410 A)         27°410 APR 14 APR 14 APR 15 10.55 (6°°C)22 (6°°C)24 (7°410 A)         27°410 APR 14 APR 15 10.55 (6°°C)24 (6°°C)24 (7°410 A)         27°410 APR 14 APR 15 10.55 (6°°C)24 (7°410 A)         27°410 APR 14 APR 15 10.55 (6°°C)24 (7°410 A)         27°410 APR 15 10	morning set	4373 Jun 13 11:20	15° <b>Ⅱ</b> 42'35		direct	4374 Apr 09 19:14	28° <b>∺</b> 26′16	
Superior conj   4373 Jun   20 04:49   0°Φ   1°E32751   0°2543   1674   14:33   0°8   14:374 May   11 14:33   0°8   16*52751   0°2543   16*52751   0°2543   13:374 May   11 14:33   0°8   13:374 May   13:373 Mu   20 19:44   1°Φ21'32   0°2528   13:474 May   28 11:35   0°1	asc. node	4373 Jun 18 09:26	26° <b>Ⅱ</b> 04'35		desc. node	4374 Apr 15 02:28		
superior conj minimum clong	max. Earth dist.	4373 Jun 19 07:05	28° <b>Ⅱ</b> 01'46	1.32239 AU		4374 Apr 15 10:55	$0^{\circ}$ Y	
superior conj         4373 Jun         20         20.54         1°Φ2751         0°2543         moming set         4374 May 28         08.00         29°842°13         O°1           evening rise         4373 Jun         20         16°923°23         0°2528         max. Earth dist.         4374 Jun         20         10°II (0°34)         3.2937 AU           evening rise         4373 Jul         20         16°923°36         max. Earth dist.         4374 Jun         0.0101         15°II (0°1)         3.2937 AU           evening max         4373 Jul         20         811         2°°40°220         24°40°28         superior conj         4374 Jun         0.0         0.0         15°II (0°1)         0°10°05           desc. node         4373 Jul         26         0.846         0°%         behind sun begin         4374 Jun         0.0         0.0         16°II (1°28)           retrograde         4373 Aug 10         0.55         4°%233         behind sun begin         4374 Jun         0.0         0°II (1°II (2°I)         16°II (1°II (2°II)         16°II (1°II (2°II)         16°II (1°II (2°II) <td></td> <td>4373 Jun 20 04:49</td> <td>0°€</td> <td></td> <td>morning max el</td> <td>4374 Apr 23 14:52</td> <td>6°<b>Y</b>24'29</td> <td>27°41'01</td>		4373 Jun 20 04:49	0°€		morning max el	4374 Apr 23 14:52	6° <b>Y</b> 24'29	27°41'01
minimum elong         4373 Jun 20 19:44         1° 20132         0°2528         max. Earth dist.         4374 Jun 02 10:31         0° 10:1031         1.32937 AU           evening rise         4373 Jun 27 17:30         16° 20:2336         max. Earth dist.         4374 Jun 02 10:31         10° 110:34         1.32937 AU           evening max el         4373 Jul 23 08:11         2° Ω22'03         24°40'28         superior conj         4374 Jun 05 04:00         15° 15°903         -0°10'06           evening max el         4373 Jul 26 08:46         20° Ω02'57         minimum elong         4374 Jun 05 04:00         15° 15°903         -0°10'06           retrograde         4373 Jul 26 08:46         0° №         behind sun eend         4374 Jun 05 06:22         16° 112'75         evening st         4373 Jul 21         10° 12'28         16° 112'75         evening st         4373 Jul 10         0° ©2         16° 112'75         16° 112'75         evening st         4374 Jun 05 06:22         16° 112'75         16° 112'75         evening st         4374 Jun 05 06:20         16° 112'75         16° 112'75         evening st         4374 Jun 10 05 06:20         16° 112'75         16° 112'75         16° 112'75         evening st         4374 Jun 10 05 06:20         16° 112'15'85         16° 112'15'85         16° 112'15'85         16° 112'15'85         16° 112'15'85'85						4374 May 11 14:33	0°8	
cevning rise   4373 Ju   27   17.30   16°©23'36	superior conj	4373 Jun 20 20:54	1° <b>©</b> 27'51	0°25'43	morning set	4374 May 28 08:00	29° <b>8</b> 42'13	
evening max el 4373 Jul 04 10:50 0°\$\lambda\$ condig 4374 Jul 05 04:00 15°\$\$\tag{15}\tag{15}\tag{15}\tag{15}\tag{2}	minimum elong	4373 Jun 20 19:44	1° <b>©</b> 21'32	0°25'28		4374 May 28 11:35	$\Pi^{\circ}0$	
evening max el day3 Jul 23 08:11 27 02:203 24'40'28 superior conj 4374 Jun 05 04:00 15° ∏5903 0°01'06 desc. node 4373 Jul 26 08:46 0° № behind sun begin 4374 Jun 06 04:03 15° ∏5903 0°01'05 16° ∏50'20 0°01'05 16° ∏50'20 16° ∏51'20'8 16° ∏5	evening rise	4373 Jun 27 17:30	16° <b>©</b> 23'36		max. Earth dist.	4374 Jun 02 10:31	10° <b>Ⅱ</b> 10'34	1.32937 AU
desc. node		4373 Jul 04 10:50	$\mathfrak{O}^{\circ} \mathfrak{O}$					
Petrograde   4373 Aug   10   26   84.6   0° m   behind sun begin   4374 Jun   04   22:44   15° II 30'48   16° II 12° II 30'48   16° II 12° II 30'48   16° II 12°	evening max el	4373 Jul 23 08:11	27° <b>Ω</b> 22'03	24°40'28	superior conj	4374 Jun 05 04:00	15° <b>Ⅱ</b> 59'03	-0°01'06
ertrograde         4373 Aug 96 05:59         4°№23'33         behind sun end         4374 Jun 05 09:22         16°II 2753         cening set         4373 Aug 11 10 95:2         3°® 23'33         asc. node         4374 Jun 10 05 06:29         16°II 12'28         cening III 10'52         3°® 23'33         asc. node         4374 Jun 11 16:07         0°©         16°II 12'28         cening rise         4374 Jun 11 16:07         0°©         16°II 12'28         cening rise         4374 Jun 12 05:16         1°©         0°Q         10°C         10°C<	desc. node	4373 Jul 25 04:45	29° <b>Ω</b> 02'57		minimum elong	4374 Jun 05 04:03	15° <b>∏</b> 59'20	0°01'05
ertrograde         4373 Aug 96 05:59         4°№23'33         behind sun end         4374 Jun 05 09:22         16°II 2753         cening set         4373 Aug 11 10 95:2         3°® 23'33         asc. node         4374 Jun 10 05 06:29         16°II 12'28         cening III 10'52         3°® 23'33         asc. node         4374 Jun 11 16:07         0°©         16°II 12'28         cening rise         4374 Jun 11 16:07         0°©         16°II 12'28         cening rise         4374 Jun 12 05:16         1°©         0°Q         10°C         10°C<		4373 Jul 26 08:46	o° mp		behind sun begin	4374 Jun 04 22:44	15° <b>Ⅲ</b> 30'48	
Sevening set   4373 Aug   11 09:52   3° \( \text{p} \) 2373   3° \( \text{p} \) 2373   3° \( \text{p} \) 2373   3° \( \text{p} \) 20.66962 AU   20.66962 AU   2474 Jun   11 16:07   0° \( \text{p} \) 2373 Aug   17 17:05   30° \( \text{p} \)	retrograde	4373 Aug 06 05:59	4° m 23'33			4374 Jun 05 09:22	16° <b>Ⅲ</b> 27'53	
17.05   30°RΩ   28°Ω45′52   5°12′34   28°Ω41′1   12 05:16   1°290′49   28°03′49   13°38   28°Ω45′52   5°12′34   28°04′1   28°04′4   21.09   7°Ω46′1   23°03′48   23°03°48   2	evening set	4373 Aug 11 09:52				4374 Jun 05 06:29	16° <b>Ⅱ</b> 12'28	
17.05   30°RΩ   28°Ω45′52   5°12′34   28°Ω41′1   12 05:16   1°290′49   28°03′49   13°38   28°Ω45′52   5°12′34   28°04′1   28°04′4   21.09   7°Ω46′1   23°03′48   23°03°48   2	•	4373 Aug 16 19:27	-	0.56962 AU		4374 Jun 11 16:07		
Inferior conj   4373 Aug 19 14:35   28° Ω45′52 -5°12′34   evening max el   4374 Jun   28 06:44   0° Ω   7° Ω4′61′6   23°03′48   morning rise   4373 Aug 19 13:38   28° Ω45′52   5°12′34   evening max el   4374 Jul   12 01:45   12° Ω5′938   direct   4373 Aug 30 10:48   24° Ω40′15   retrograde   4374 Jul   12 01:45   12° Ω5′938   morning max el   4373 Sep 10 01:13   0° 𝔰		-	30°R <b>Ω</b>		evening rise		1° <b>©</b> 09'49	
minimum elong day 3 Aug 19 13:38  28°	inferior conj	-		-5°12'34	C		$\Omega^{\circ}\Omega$	
morning rise         4373 Aug 27 19:55         24° Ω40'15         desc. node         4374 Jul 12 01:45         12° Ω59'38         las 20 √821'10         retrograde         4374 Jul 12 01:45         12° Ω59'38         las 20 √821'10         retrograde         4374 Jul 12 01:45         12° Ω59'38         las 20 √821'10         retrograde         4374 Jul 12 01:45         12° Ω59'38         las 20 √80.21'10         las 20 √80.21'10         retrograde         4374 Jul 12 01:45         12° Ω59'38         las 20 √80.21'10         las 20 √80.21'10<		-			evening max el			23°03'48
direct 4373 Aug 30 10:48 24° \( \alpha 21'10 \) retrograde 4374 Jul 18 06:51 14° \( \alpha 27'38 \) remorning max el 4373 Sep 08 18:32 28° \( \alpha 43'12 \) 19°22'59 evening set 4374 Jul 21 22:18 13° \( \alpha 58'38 \) 0.55508 AU asc. node 4373 Sep 10 01:13 0° \( \bar{\bar{\bar{\Bar{\Bar{\Bar{\Bar{\Bar{\Bar{\Bar{\B	_	-			C			
Morning max el   4373 Sep 08 18:32   28° Q43'12   19°22'59   evening set   4374 Jul   21 22:18   13° Q58'38   13° Q58'39   13° Q58'3	-	-						
A373 Sep 10 01:13   O°N   min. Earth dist.   A374 Jul 29 06:13   10°Ω40'59   0.55508 AU asc. node   A373 Sep 14 08:39   5°N 25'56   inferior conj   A374 Jul 30 22:07   9°Ω43'06   -4°41'08   morning set   A373 Sep 25 23:10   26°N 14'44   minimum elong   A374 Aug 08 10:21   5°Ω5'11   5°Ω5'11   5°Ω5'11   4°39'55   30'46   4374 Aug 11 08:52   5°Ω3'04   5°Ω5'11   5		-		19°22'59	-			
asc. node		*			•			0.55508 AU
morning set 4373 Sep 25 23:10 26° № 14'44 minimum elong 4374 Jul 30 15:12 9° £053'10 4°39'55 4373 Sep 27 20:07 0° £0 morning rise 4374 Aug 08 10:21 5° £051'17 direct 4374 Aug 11 08:52 5° £030'46 uriect 4374 Aug 11 08:52 20° £04'24 uriect 4374 Au	asc. node	*						
Morning rise   Ma73 Sep 27 20:07   O°Ω   Morning rise   Ma74 Aug 08 10:21   S°Ω51'17								
direct 4374 Aug 11 08:52 5° €30'46  superior conj 4373 Oct 04 00:56 12° £20'42 1°38'54 morning max el 4374 Aug 22 05:42 10° €033'49 20°36'39  minimum elong 4373 Oct 10 09:33 24° £24'11 1.38036 AU morning set 4374 Sep 01 05:42 23° €046'24  max. Earth dist. 4373 Oct 10 09:33 24° £24'11 1.38036 AU morning set 4374 Sep 04 17:30 0° ₹0  evening rise 4373 Oct 14 03:49 1° ₹0.09'32  desc. node 4374 Sep 10 05:42 10° ₹0.54'12  evening max el 4373 Nov 01 06:13 0° ₹ superior conj 4374 Sep 17 18:08 26° ₹0.25'53 1°43'57  evening max el 4373 Nov 18 19:18 21° ₹53'41 25°03'20 3474 Sep 17 18:25 26° ₹0.27'17 1°43'57  evening set 4373 Nov 30 15:33 28° ₹45'22 max. Earth dist. 4374 Sep 22 17:00 6° £18'24 1.36087 AU evening set 4373 Dec 06 08:25 26° ₹22'41 evening rise 4374 Sep 17 18:05 22:19 0° ₹0  min. Earth dist. 4373 Dec 10 20:40 21° ₹19'30 0.67447 AU asc. node 4374 Oct 27 02:08 0° ₹0  inferior conj 4373 Dec 11 21:38 19° ₹57'42 0°11'44 4374 Oct 27 02:08 0° ₹0  superior conj direct 4374 Aug 11 08:52 5° €303'20 30° ₹0  direct 4374 Aug 11 08:52 5° €303'49 20° 5° €0 €0.00 €0	morning sec	*	-		•			1 37 33
superior conj 4373 Oct 04 00:56 12° \(\Omega\) 20'42 1°38'54 morning max el 4374 Aug 22 05:42 10° \(\Omega\) 33'49 20°36'39 minimum elong 4373 Oct 10 09:33 24° \(\Omega\) 22'11 1.38036 AU 4374 Sep 01 05:42 23° \(\Omega\) 4374 Sep 04 17:30 0° \(\Omega\) 4373 Oct 13 12:04 0° \(\Omega\) 4373 Oct 13 12:04 0° \(\Omega\) morning set 4373 Oct 14 03:49 1° \(\Omega\) 00'53 superior conj 4374 Sep 10 05:42 10° \(\Omega\) 54'12 evening rise 4373 Oct 14 03:49 1° \(\Omega\) 10'\(\Omega\) 3 superior conj 4374 Sep 17 18:08 26° \(\Omega\) 25'53 1° 43'57 evening max el 4373 Nov 10 06:13 0° \(\omega\) 20° \(\omega\) 45'34 12:04 0° \(\Omega\) minimum elong 4374 Sep 17 18:25 26° \(\Omega\) 27'17 1° 43'57 evening max el 4373 Nov 30 15:33 28° \(\omega\) 45'22 max. Earth dist. 4374 Sep 19 12:26 0° \(\Omega\) 21'17 1° 43'57 evening set 4373 Dec 06 08:25 26° \(\omega\) 22'41 evening rise 4374 Sep 22 17:00 6° \(\Omega\) 13° \(\Omega\) 4374 Oct 05 22:19 0° \(\Omega\) min. Earth dist. 4373 Dec 10 20:40 21° \(\omega\) 21° \(\omega\) 20° \(\omega\) 42'53 desc. node 4374 Oct 08 01:04 3° \(\Omega\) 20° \(\omega\) 4374 Oct 07 02:08 0° \(\omega\)		4373 Sep 27 20.07	° <b>–</b>		•	•		
minimum elong max. Earth dist. 4373 Oct 10 09:33 24° €24'11 1.38036 AU 4374 Sep 01 05:42 23° €46'24 4374 Sep 04 17:30 0° № 4374 Sep 10 05:42 10° № 54'12 evening rise 4373 Oct 14 03:49 1° № 09'32 desc. node 4373 Nov 01 06:13 0° № 59'32 superior conj 4374 Sep 17 18:08 26° № 25'53 1° 43'57 evening max el 4373 Nov 18 19:18 21° ₹75'341 25° 03'20 superior conj 4374 Sep 17 18:25 26° № 27'17 1° 43'57 evening set 4373 Nov 30 15:33 28° ₹45'22 max. Earth dist. 4374 Sep 19 12:26 0° № 136087 AU evening set 4373 Dec 06 08:25 26° № 22'41 evening rise 4374 Sep 22 17:00 6° № 136'087 AU evening set 4373 Dec 10 20:40 21° ₹19'30 0.67447 AU evening rise 4374 Oct 05 22:19 0° № 38. 28° ₹45'22 superior conj 4374 Oct 05 22:19 0° № 38. 29° ₹45'45'45 desc. node 4374 Oct 08 01:04 3° № 25'49 inferior conj 4373 Dec 11 21:38 19° ₹57'42 0° 11'44 4374 Oct 08 01:04 3° № 25'49 inferior conj 4373 Dec 11 21:38 19° ₹57'42 0° 11'44 4374 Oct 07 02:08 0° ₹	superior coni	4373 Oct. 04. 00:56	12° <b>Q</b> 20'42	1038151				20036130
max. Earth dist.   4373 Oct 10 09:33  24° \(\Omega\)24'11 1.38036 AU					-	-		20 30 37
evening rise 4373 Oct 13 12:04 0°N morning set 4374 Sep 10 05:42 10°N 54'12 evening rise 4373 Oct 14 03:49 10°N 09'32 superior conj 4374 Sep 17 18:08 26°N 25'53 1°43'57 4373 Nov 01 06:13 0° × minimum elong 4374 Sep 17 18:08 26°N 25'53 1°43'57 evening max el 4373 Nov 18 19:18 21° × 53'41 25°03'20 4374 Sep 19 12:26 0° • 17 18:08 26°N 27'17 1°43'57 evening set 4373 Nov 30 15:33 28° × 45'22 max. Earth dist. 4374 Sep 19 12:26 0° • 18:24 1.36087 AU evening set 4373 Dec 06 08:25 26° × 22'41 evening rise 4374 Sep 22 17:00 6° • 18'24 1.36087 AU evening set 4373 Dec 10 20:40 21° × 19'30 0.67447 AU evening rise 4374 Oct 05 22:19 0° N 25'149 sec. node 4373 Dec 11 07:52 20° × 42'53 desc. node 4374 Oct 08 01:04 3° N 25'49 inferior conj 4373 Dec 11 21:38 19° × 57'42 0°11'44 4374 Oct 07 02:08 0° × 10° × 10° N	_				asc. node	-		
evening rise 4373 Oct 14 03:49 1° 100° 132 100° 130° 100° 130° 100° 130° 100° 130° 100° 130° 100° 130° 100° 130° 100° 130° 100° 130° 100° 130° 100° 130° 100° 130° 100° 130° 100° 130° 100° 130° 100° 130° 13	max. Earth dist.			1.38030 AU	morning set	=		
desc. node 4373 Oct 21 04:03 13° 100'53 superior conj 4374 Sep 17 18:08 26° 1025'53 1° 43'57 4373 Nov 10 06:13 0° ₹ minimum elong 4374 Sep 17 18:25 26° 1027'17 1° 43'57 evening max el 4373 Nov 18 19:18 21° ₹53'41 25° 03'20 4374 Sep 19 12:26 0° £ retrograde 4373 Nov 30 15:33 28° ₹45'22 max. Earth dist. 4374 Sep 22 17:00 6° £ 18'24 1.36087 AU evening set 4373 Dec 06 08:25 26° ₹22'41 evening rise 4374 Sep 26 16:34 13° £ 51'49 min. Earth dist. 4373 Dec 10 20:40 21° ₹19'30 0.67447 AU 4374 Oct 05 22:19 0° 11. 3°	evening rice				morning set	75/7 BCP 10 03.42	10 Hy 34 12	
4373 Nov 01 06:13   0°\$\times\$   minimum elong   4374 Sep 17 18:25   26°\$\times\$27'17   1°43'57     evening max el   4373 Nov 18 19:18   21°\$\times\$53'41   25°03'20   4374 Sep 19 12:26   0°\$\times\$     retrograde   4373 Nov 30 15:33   28°\$\times\$45'22   max. Earth dist.   4374 Sep 22 17:00   6°\$\times\$18'24   1.36087 AU     evening set   4373 Dec 06 08:25   26°\$\times\$22'41   evening rise   4374 Sep 26 16:34   13°\$\times\$51'49     min. Earth dist.   4373 Dec 10 20:40   21°\$\times\$19'30   0.67447 AU   4374 Oct 05 22:19   0°\$\times\$1.     asc. node   4373 Dec 11 07:52   20°\$\times\$742'53   desc. node   4374 Oct 08 01:04   3°\$\times\$25'49     inferior conj   4373 Dec 11 21:38   19°\$\times\$57'42   0°11'44   4374 Oct 27 02:08   0°\$\times\$1   10°\$\times\$1   10°\$\t	•				superior comi	4374 San 17 10.00	260 m 25152	10/2/57
evening max el 4373 Nov 18 19:18 21°\$\tilde{\mathbb{Z}}53'41 25°03'20 4374 Sep 19 12:26 0°\$\tilde{\mathbb{L}}\$ retrograde 4373 Nov 30 15:33 28°\$\tilde{\mathbb{Z}}45'22 max. Earth dist. 4374 Sep 22 17:00 6°\$\tilde{\mathbb{L}}18'24 1.36087 AU evening set 4373 Dec 06 08:25 26°\$\tilde{\mathbb{Z}}22'41 evening rise 4374 Sep 26 16:34 13°\$\tilde{\mathbb{L}}51'49 min. Earth dist. 4373 Dec 10 20:40 21°\$\tilde{\mathbb{Z}}19'30 0.67447 AU 4374 Oct 05 22:19 0°\$\tilde{\mathbb{L}}\$ asc. node 4373 Dec 11 07:52 20°\$\tilde{\mathbb{Z}}12'53 desc. node 4374 Oct 08 01:04 3°\$\tilde{\mathbb{L}}25'49 inferior conj 4373 Dec 11 21:38 19°\$\tilde{\mathbb{Z}}57'42 0°11'44 4374 Oct 27 02:08 0°\$\tilde{\mathbb{Z}}\$	uese. Hout					•	-	
retrograde 4373 Nov 30 15:33 28° ₹45′22 max. Earth dist. 4374 Sep 22 17:00 6° £18′24 1.36087 AU evening set 4373 Dec 06 08:25 26° ₹22′41 evening rise 4374 Sep 26 16:34 13° £51′49 min. Earth dist. 4373 Dec 10 20:40 21° ₹19′30 0.67447 AU 4374 Oct 05 22:19 0°	avanina ma1			25002120	minimum elong	-	•	1 433/
evening set 4373 Dec 06 08:25 26°₹22'41 evening rise 4374 Sep 26 16:34 13°♣51'49 min. Earth dist. 4373 Dec 10 20:40 21°₹19'30 0.67447 AU 4374 Oct 05 22:19 0°™ asc. node 4373 Dec 11 07:52 20°₹42'53 desc. node 4374 Oct 08 01:04 3°™25'49 inferior conj 4373 Dec 11 21:38 19°₹57'42 0°11'44 4374 Oct 27 02:08 0°₹	•			23 03 20	may E-d 1'	=		1 2/007 411
min. Earth dist. 4373 Dec 10 20:40 21° ₹19'30 0.67447 AU 4374 Oct 05 22:19 0° M asc. node 4373 Dec 11 07:52 20° ₹12'53 desc. node 4374 Oct 08 01:04 3° M 25'49 inferior conj 4373 Dec 11 21:38 19° ₹57'42 0°11'44 4374 Oct 27 02:08 0° ₹	•					-		1.3008/ AU
asc. node 4373 Dec 11 07:52 20° ₹ 42'53 desc. node 4374 Oct 08 01:04 3° 11.25'49 inferior conj 4373 Dec 11 21:38 19° ₹ 57'42 0°11'44 4374 Oct 27 02:08 0° ₹	•			0.67447 411	evening rise	=		
inferior conj 4373 Dec 11 21:38 19° <b>尽</b> 757'42 0°11'44 4374 Oct 27 02:08 0° <b>尽</b> 7				U.0/44/ AU	4 1			
				0011144	desc. node			
minimum elong 43/3 Dec 11 21:20 19"x'38'40 0"11'36 evening max el 43/4 Nov 01 07:54 5"x'36'39 26°10'32								2(010)22
	minimum elong	43/3 Dec 11 21:20	19° <b>x</b> °58'40	U~11'36	evening max el	43/4 Nov 01 07:54	5~ <b>x</b> +36'39	26~10/32

rotro aro do	4274 Nov. 12 22-20	120.7/45/46		ratra ara da	4275 Oct. 20 01:56	26°M29'40	
retrograde	4374 Nov 13 23:30	12° 🗷 45'46		retrograde	4375 Oct 28 01:56		
evening set	4374 Nov 20 06:00	10° <b>₹</b> 11′23	0.66600.477	evening set	4375 Nov 03 20:26	23°M48'54	0.65450.433
min. Earth dist.	4374 Nov 24 11:12	5° <b>∡</b> 43'33	0.66628 AU	min. Earth dist.	4375 Nov 07 19:01	19°M56'54	0.65458 AU
inferior conj	4374 Nov 25 23:21	3° <b>≯</b> 51'54		inferior conj	4375 Nov 09 19:04	17°M39'50	
minimum elong	4374 Nov 26 00:35	3° <b>∡</b> ¹48'05	0°45'17	minimum elong	4375 Nov 09 22:05	17°M31'13	1°45'31
asc. node	4374 Nov 28 04:55	1° <b>∡</b> 12'31		asc. node	4375 Nov 15 01:56	12°M35'33	
	4374 Nov 29 08:34	30°RM₊		morning rise	4375 Nov 16 00:39	12°M03'08	
morning rise	4374 Dec 01 19:39	28°M02'47		direct	4375 Nov 18 18:36	11°M22'08	
direct	4374 Dec 04 22:04	27°M07'59		morning max el	4375 Nov 25 06:35	14° <b>M</b> 51'41	18°10'57
	4374 Dec 10 18:45	0° <b>×</b> 7			4375 Dec 06 04:24	0° <b>∡</b> 7	
morning max el	4374 Dec 10 16:43 4374 Dec 11 16:14	0° <b>≯</b> 151'05	18°46'27	morning set	4375 Dec 13 20:43	12° <b>х</b> 30'00	
morning max ci		0×3103	16 40 27	desc. node	4375 Dec 13 20:43 4375 Dec 21 21:20	25° 🖈 30'00	
	4374 Dec 31 22:05			desc. node			
morning set	4375 Jan 02 02:39	1° <b>る</b> 52'25			4375 Dec 24 16:35	0°る	
desc. node	4375 Jan 04 00:17	4° <b>る</b> 51'53					
max. Earth dist.	4375 Jan 17 12:03	26° <b>る</b> 01'59	1.45191 AU	superior conj	4375 Dec 28 15:44	6° <b>る</b> 17'14	
				minimum elong	4375 Dec 28 10:03	5° <b>る</b> 54'48	0°44'38
superior conj	4375 Jan 18 11:50	27° <b>る</b> 35'20	-1°29'14	max. Earth dist.	4375 Dec 31 07:47	10° <b>る</b> 29'27	1.45206 AU
minimum elong	4375 Jan 18 02:31	26° <b>る</b> 58'46	1°28'17		4376 Jan 12 19:43	0° <b>≈</b>	
J	4375 Jan 20 00:37	0° <b>≈</b>		evening rise	4376 Jan 13 22:52	1° <b>≈</b> 45'34	
evening rise	4375 Feb 02 21:49	22°≈04'53		greatest brilliancy	4376 Jan 26 05:55	20°≈43'24	-0.7m
evening rise	4375 Feb 07 19:44	0° <b>∀</b>		greatest orimaney		20 <b>≈</b> +3 2+ 0° <b>∀</b>	-0.7III
1 '11'			0.0		4376 Feb 01 15:04		10020104
greatest brilliancy	4375 Feb 09 15:22	2° <b>H</b> 55'23	-0.9m	evening max el	4376 Feb 07 07:58	6° <b>)</b> 58'41	19°30'04
evening max el	4375 Feb 24 00:26	23° <b>∺</b> 27'33	18°45'00	asc. node	4376 Feb 11 01:14	10° <b>米</b> 02′56	
asc. node	4375 Feb 24 04:14	23° <b>)</b> 37′07		retrograde	4376 Feb 14 13:29	11° <b>)</b> €08'14	
retrograde	4375 Mar 02 16:29	27° <b>ℋ</b> 10′14		evening set	4376 Feb 18 02:17	9° <b>∺</b> 55'05	
evening set	4375 Mar 05 22:03	26° <b>)</b> 10′31		inferior conj	4376 Feb 23 13:36	4° <b>)(</b> 00'04	3°16'55
inferior conj	4375 Mar 11 14:11	20° <b>)</b> 31′05	3°32'32	minimum elong	4376 Feb 23 11:40	4° <b>)</b> €06'24	3°16'37
minimum elong	4375 Mar 11 13:15	20° <b>)</b> €33'58	3°32'28	min. Earth dist.	4376 Feb 24 18:40	2° <b>){</b> 24'54	0.66613 AU
min. Earth dist.	4375 Mar 13 10:15	18° <b>¥</b> 16′07	0.65324 AU		4376 Feb 26 17:19	30°R≈	***************************************
morning rise	4375 Mar 17 03:59	14° <b>)</b> 18'37	0.03321710	morning rise	4376 Feb 28 20:49	27°≈45'53	
•		14 <b>X</b> 1837		•			
direct	4375 Mar 23 19:03			direct	4376 Mar 06 01:03	25°≈01'07	
desc. node	4375 Apr 01 23:29	15° <b>)</b> 34′05			4376 Mar 15 21:46	0° <b>∀</b>	
morning max el	4375 Apr 06 00:43	19° <b>∺</b> 15'13	26°57'37	morning max el	4376 Mar 18 10:23	2° <b>∺</b> 23'57	25°48'59
	4375 Apr 15 03:59	$0$ ° $\mathbf{\Upsilon}$		desc. node	4376 Mar 18 20:31	2° <b>){</b> 49'47	
	4375 May 04 14:58	$_{0\circ}$ 8			4376 Apr 08 07:53	$0$ ° $\mathbf{\Upsilon}$	
morning set	4375 May 11 18:41	13° <b>8</b> 08'42		morning set	4376 Apr 23 15:19	25° <b>Y</b> 50′33	
max. Earth dist.	4375 May 16 04:28	21° <b>8</b> 49'38	1.34091 AU		4376 Apr 25 20:58	0°8	
	.,	•		max. Earth dist.	4376 Apr 27 11:05	3° <b>8</b> 00'54	1.35697 AU
superior conj	4375 May 20 05:43	0° <b>Ⅱ</b> 09'32	0°20'51	max. Earth dist.	1570 Hpt 27 11.05	3 0003.	1.550) / 110
	•	0° <b>П</b> 17'46		aumorior comi	4276 May 02 22:20	120 452100	0.5011.2
minimum elong	4375 May 20 07:17		0 2931	superior conj	4376 May 02 23:30	13° <b>8</b> 52'08	
	4375 May 20 03:53	0° <b>Π</b>		minimum elong	4376 May 03 02:42	14° <b>8</b> 08'18	0°58'38
asc. node	4375 May 23 03:31	6° <b>Ⅱ</b> 17'00		asc. node	4376 May 09 00:32	26° <b>8</b> 14'11	
evening rise	4375 May 27 15:32	15° <b>Ⅱ</b> 46'59		evening rise	4376 May 10 22:14	0° <b>Ⅱ</b> 08'40	
	4375 Jun 03 19:47	0			4376 May 10 20:33	$\Pi$ $\circ 0$	
evening max el	4375 Jun 16 15:31	18° <b>©</b> 17'47	21°29'57	evening max el	4376 May 28 21:11	29° <b>Ⅲ</b> 22'58	20°10'19
retrograde	4375 Jun 28 21:20	24°520'04			4376 May 29 12:49	0°ಲಾ	
desc. node	4375 Jun 28 22:44	24°\$20'03		retrograde	4376 Jun 08 11:27	4° <b>©</b> 33'23	
evening set	4375 Jul 01 07:55	24°906'28		evening set	4376 Jun 10 10:18	4°923'35	
inferior conj	4375 Jul 10 16:49	20°506'23	-3°18'58	desc. node	4376 Jun 14 19:45	2°958'16	
•	4375 Jul 10 08:28				4376 Jun 19 12:16	0° <b>5</b> 24'37	1022122
minimum elong		20°5018'03	3°16'26	inferior conj			
min. Earth dist.	4375 Jul 10 16:38	20° <b>©</b> 06'38	0.54837 AU	minimum elong	4376 Jun 19 08:21	0°530'26	1°22'05
morning rise	4375 Jul 19 09:59	16°©12'32			4376 Jun 20 04:48	30° <b>Ŗ</b> Ⅱ	
direct	4375 Jul 22 19:00	15° <b>©</b> 47'48		min. Earth dist.	4376 Jun 21 04:50	29° <b>Ⅱ</b> 24'25	0.55121 AU
morning max el	4375 Aug 04 05:18	21° <b>5</b> 39'36	22°09'09	morning rise	4376 Jun 28 04:56	26° <b>∏</b> 07'58	
	4375 Aug 11 08:20	$0^{\circ}\Omega$		direct	4376 Jul 02 06:14	25° <b>Ⅲ</b> 32′18	
asc. node	4375 Aug 19 02:45	12° <b>Ω</b> 43'17			4376 Jul 13 07:53	0°ಲ	
morning set	4375 Aug 25 15:41	25° <b>Ω</b> 43'43		morning max el	4376 Jul 15 21:09	2°512'11	23°52'04
<i>5</i>	4375 Aug 27 16:18	0°m		<i>3</i>	4376 Aug 03 21:51	0°N	- "
	.5,5.146 2, 10.16	י יעי		asc. node	4376 Aug 04 23:47	2° <b>Ω</b> 06'56	
aunarian aan:	1275 Cam 01 10:46	100 m 55150	10/11/4/		=		
superior conj	4375 Sep 01 19:46	10° Mp 55'58		morning set	4376 Aug 09 03:14	10° <b>Ω</b> 37'10	
minimum elong	4375 Sep 01 18:43	10° m 50'28	1°41'41			•	
max. Earth dist.	4375 Sep 05 08:07	18° <b>m</b> 14'47	1.34453 AU	superior conj	4376 Aug 16 02:54		1°33'24
evening rise	4375 Sep 09 21:16	27° <b>m</b> 19'12		minimum elong	4376 Aug 16 01:00	25° <b>Ω</b> 31'07	1°33'13
	4375 Sep 11 06:45	0∘ <b>⊽</b>			4376 Aug 18 03:00	0° <b>™</b>	
desc. node	1255 0 21 22 05	220 0 22150		max. Earth dist.	4276 A 10 07.54	0° Mp 26′10	1.33223 AU
	4375 Sep 24 22:05	23° <b>≏</b> 32'50		max. Earth dist.	4376 Aug 18 07:54	0 11 <b>y</b> 20 10	1.55225 AU
	4375 Sep 24 22:05 4375 Sep 29 05:08	0° <b>M</b>		evening rise	4376 Aug 18 07:54 4376 Aug 23 13:50	11° Mp 20'04	1.33223 AU
evening max el	*		27°00'07		•		1.33223 AU

desc. node	4376 Sep 10 19:05	13° <b>£</b> 13'23			4377 Aug 09 16:54	0° <b>m</b>	
desc. node	4376 Sep 10 19.03 4376 Sep 23 20:30	0°M			•	0∘ <b>रु</b> ० औ	
ovening may al	4376 Sep 26 08:07	0 IIL 2°IL29'44	27°25'07	desc. node	4377 Aug 27 01:28 4377 Aug 28 16:06	0 <u>≈</u> 2° <b>Ω</b> 16'36	
evening max el retrograde	4376 Sep 26 08.07 4376 Oct 09 22:21	9°M47'38	27 23 07	evening max el	4377 Sep 08 16:35	2 <b>≗</b> 10 30 15° <b>£</b> 15'46	27°19'40
•	4376 Oct 09 22:21 4376 Oct 17 01:00	7°M09'04		-	-	22° <b>£</b> 30'23	27 1940
evening set min. Earth dist.	4376 Oct 17 01:00 4376 Oct 20 18:03	3°M50'51	0.63939 AU	retrograde evening set	4377 Sep 22 12:12	22 <b>≗</b> 30 23 20° <b>£</b> 05'45	
		1°M14'59		min. Earth dist.	4377 Sep 29 16:13		0.62115 AU
inferior conj	4376 Oct 23 06:18	1°M02'35		inferior conj	4377 Oct 03 06:56 4377 Oct 06 06:08	17° <b>£</b> 14'41 14° <b>£</b> 30'40	
minimum elong	4376 Oct 23 11:05		2-4/11	3		14° <b>£</b> 30'40 14° <b>£</b> 16'53	
	4376 Oct 24 11:39	30° <b>₹</b> Ω		minimum elong	4377 Oct 06 12:06		3°46'46
morning rise	4376 Oct 29 22:33	25° <b>Ω</b> 53'52		morning rise	4377 Oct 13 09:46	9° <b>£</b> 28'15	
asc. node	4376 Oct 31 22:58	25° <b>Ω</b> 24'07		direct	4377 Oct 15 18:20	9° <b>Ω</b> 03'57	
direct	4376 Nov 01 10:24	25° <b>Ω</b> 22'58	17050122	asc. node	4377 Oct 18 20:01	9° <b>Ω</b> 46'35	15050104
morning max el	4376 Nov 07 23:13	28° <b>Ω</b> 48'05	17°52'32	morning max el	4377 Oct 22 15:05	12° <b>Ω</b> 32'58	17°52'04
	4376 Nov 09 02:22	0°M			4377 Nov 03 09:28	0°M	
morning set	4376 Nov 24 18:09	24°M26'55		morning set	4377 Nov 07 12:45	7°M24'16	
	4376 Nov 28 00:04	0° <b>∡</b>				- co. Wa	
				superior conj	4377 Nov 18 11:11	26°M42'26	0°42'30
superior conj	4376 Dec 07 12:24	15° <b>₹</b> '51'36	0°01'45	minimum elong	4377 Nov 18 14:45	26°M57'40	0°42'00
minimum elong	4376 Dec 07 12:35	15° <b>₹</b> 52'23	0°01'43		4377 Nov 20 09:42	0° <b>∡</b>	
behind sun begin	4376 Dec 07 02:42	15° <b>∡</b> 12'05		desc. node	4377 Nov 24 15:23	7° <b>∡</b> °03′00	
behind sun end	4376 Dec 07 22:28	16° <b>∡</b> ³32'35		max. Earth dist.	4377 Nov 25 16:33	8° <b>∡</b> ¹45'48	1.43133 AU
desc. node	4376 Dec 07 18:24	16° <b>∡</b> 16′05		evening rise	4377 Dec 02 22:25	20° <b>х</b> 18′50	
max. Earth dist.	4376 Dec 13 02:04	24° <b>∡</b> ¹49'26	1.44487 AU		4377 Dec 09 05:42	0°ಕ	
	4376 Dec 16 08:41	0°₹			4377 Dec 30 15:22	0° <b>≈</b>	
evening rise	4376 Dec 23 09:58	10° <b>る</b> 57'20		evening max el	4378 Jan 03 07:18	4° <b>≈</b> 04'58	21°41'39
	4377 Jan 05 00:28	0° <b>≈</b>		retrograde	4378 Jan 12 09:08	9° <b>≈</b> 28'35	
evening max el	4377 Jan 20 10:21	20° <b>≈</b> 31′08	20°30'03	asc. node	4378 Jan 14 19:16	8° <b>≈</b> 56'58	
asc. node	4377 Jan 27 22:14	25° <b>≈</b> 13'57		evening set	4378 Jan 16 16:55	7° <b>≈</b> 45'47	
retrograde	4377 Jan 28 11:43	25° <b>≈</b> 15'40		inferior conj	4378 Jan 22 01:08	1° <b>≈</b> 28′16	2°15'04
evening set	4377 Feb 01 09:10	23° <b>≈</b> 48′10		minimum elong	4378 Jan 21 22:44	1° <b>≈</b> 36'35	2°14'18
inferior conj	4377 Feb 06 18:00	17° <b>≈</b> 40′19	2°50'26	min. Earth dist.	4378 Jan 22 04:28	1° <b>≈</b> 16'39	0.67944 AU
minimum elong	4377 Feb 06 15:35	17° <b>≈</b> 48'33	2°49'51		4378 Jan 23 02:42	30°R₹	
min. Earth dist.	4377 Feb 07 09:31	16° <b>≈</b> 47′21	0.67478 AU	morning rise	4378 Jan 27 04:22	25° <b>පි</b> 16'21	
morning rise	4377 Feb 11 21:49	11° <b>≈</b> 26′24		direct	4378 Feb 01 04:22	23° <b>る</b> 07'10	
direct	4377 Feb 17 12:26	8° <b>≈</b> 56'35		morning max el	4378 Feb 11 04:31	29° <b>පි</b> 03'04	22°55'46
morning max el	4377 Feb 28 19:04	15° <b>≈</b> 41'01	24°24'59		4378 Feb 12 02:35	0° <b>≈</b>	
desc. node	4377 Mar 05 17:34	21°≈10'32		desc. node	4378 Feb 20 14:36	10°≈17'30	
	4377 Mar 12 13:57	0° <b>)</b> €			4378 Mar 06 08:26	0° <b>)</b> €	
	4377 Apr 01 06:33	0° <b>Υ</b>		morning set	4378 Mar 17 16:17	17° <b>¥</b> 59'58	
morning set	4377 Apr 05 16:35	7° <b>Y</b> 33'17		max. Earth dist.	4378 Mar 22 03:30	25° <b>)</b> 32'43	1.39867 AU
max. Earth dist.	4377 Apr 09 08:25	14° <b>Y</b> 03'48	1.37681 AU		4378 Mar 24 17:02	$_0$ ° $\gamma$	
	1						
superior conj	4377 Apr 16 06:08	26° <b>Y</b> 58'33	-1°27'09	superior conj	4378 Mar 29 21:25	9° <b>Y</b> 17'51	-1°50'41
minimum elong	4377 Apr 16 10:39	27° <b>Y</b> ′20'21	1°26'31	minimum elong	4378 Mar 30 02:07	9° <b>Ƴ</b> 39'25	1°50'17
	4377 Apr 17 19:34	0°8		evening rise	4378 Apr 08 14:37	27° <b>Ƴ</b> 36'04	
evening rise	4377 Apr 24 22:57	14° <b>8</b> 07'55		•	4378 Apr 09 20:49	0°8	
asc. node	4377 Apr 25 21:34	15° <b>8</b> 59'44		asc. node	4378 Apr 12 18:36	5° <b>8</b> 28'01	
	4377 May 03 09:55	$\Pi^{\circ}0$		evening max el	4378 Apr 24 18:40	23° <b>8</b> 35'18	18°29'45
evening max el	4377 May 11 15:07	11° <b>Ⅱ</b> 10'44	19°09'56	retrograde	4378 May 02 09:12	27° <b>8</b> 20'30	
retrograde	4377 May 20 13:09	15° <b>Ⅲ</b> 31'40		evening set	4378 May 04 16:17	27° <b>8</b> 01'04	
evening set	4377 May 22 13:41	15° <b>Ⅲ</b> 19'12		inferior conj	4378 May 12 04:48	22° <b>8</b> 30'48	2°00'21
inferior conj	4377 May 30 22:06	11° <b>II</b> 08'11	0°31'06	minimum elong	4378 May 12 08:20	22° <b>8</b> 23'47	1°59'18
minimum elong	4377 May 30 23:22	11° <b>Ⅱ</b> 06′02	0°30'39	min. Earth dist.	4378 May 15 14:52	19° <b>8</b> 49'28	0.58173 AU
desc. node	4377 Jun 01 16:46	9° <b>∏</b> 55'40		morning rise	4378 May 19 21:13	17° <b>8</b> 05'58	
min. Earth dist.	4377 Jun 02 19:58	9° <b>Ⅱ</b> 10′27	0.56315 AU	desc. node	4378 May 19 13:48	17° <b>8</b> 15'26	
morning rise	4377 Jun 08 05:53	6° <b>Ⅱ</b> 16'27	***************************************	direct	4378 May 25 19:36	15° <b>8</b> 35'27	
direct	4377 Jun 13 05:45	5° <b>Ⅱ</b> 18′23		morning max el	4378 Jun 09 04:50	23° <b>8</b> 16'02	26°51'47
morning max el	4377 Jun 27 11:15	12° <b>∏</b> 35'44	25°31'30		4378 Jun 15 05:38	0°II	
	4377 Jul 10 23:57	0°95			4378 Jul 03 23:15	0. 0.	
asc. node	4377 Jul 22 20:50	21°950'10		morning set	4378 Jul 09 00:41	10°515'20	
morning set	4377 Jul 22 20:30 4377 Jul 24 14:47	25°\$29'42		asc. node	4378 Jul 09 00:41 4378 Jul 09 17:53	10 <b>3</b> 1320	
morning set	4377 Jul 26 17:15	0°Ω		abe. Houe	15/0 541 07 17.55	11 -10 14	
	-1311 Jul 20 11.13	· 06		superior conj	4378 Jul 16 01:08	25° <b>©</b> 30'19	1°01'49
simerior com	4377 Jul 31 13-21	10°Ω35'22	1°19'52	minimum elong	4378 Jul 15 22:55	250001811/1	1°01'26
superior conj	4377 Jul 31 13:21	10° <b>Ω</b> 35'22 10° <b>Ω</b> 22'42		minimum elong	4378 Jul 15 22:55	25°©18'04 25°©33'57	
minimum elong	4377 Jul 31 11:03	10° <b>Ω</b> 22'42	1°19'32	minimum elong max. Earth dist.	4378 Jul 16 01:48	25° <b>©</b> 33'57	1°01'26 1.32033 AU
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•	•		`	,,		, 1	
	4378 Aug 01 23:22	0° <b>m</b> p		evening rise	4379 Jul 07 08:04	25°912'50	
desc. node	4378 Aug 15 13:07	20° m/27'00		0.00000	4379 Jul 09 14:52	0°N	
evening max el	4378 Aug 21 19:27	27° mp 19'12	26°40'53		4379 Jul 27 03:37	0° m)	
evening max or	4378 Aug 24 21:55	0° <del>0</del>	20 1033	desc. node	4379 Aug 02 10:09	7° m) 23'03	
retrograde	4378 Sep 04 17:57	ა <b>_</b> 4° <b>ჲ</b> 29'09		evening max el	4379 Aug 03 14:47	8° m) 33'43	25°30'59
evening set	4378 Sep 04 17:37 4378 Sep 11 13:33	2° <b>£</b> 31'09		retrograde	4379 Aug 03 14:47 4379 Aug 17 13:48	15° TD 39'05	23 30 39
evening set	•			-	Č	13 my 39 03 14° my 17'08	
i E d Ed	4378 Sep 15 06:42	30°R, Mp 200 m, 54151	0.60005.411	evening set	4379 Aug 23 12:11		0.50041 ATT
min. Earth dist.	4378 Sep 15 09:22		0.60085 AU	min. Earth dist.	4379 Aug 28 02:41	11° m) 38'14	0.58041 AU
inferior conj	4378 Sep 18 15:09	27° m 18'05		inferior conj	4379 Aug 31 05:52	9° m 26'59	
minimum elong	4378 Sep 18 20:43	27° Mp 06'49	4°37'58	minimum elong	4379 Aug 31 08:10	9° m/22'55	5°09'35
morning rise	4378 Sep 26 05:54	22° m/37'12		morning rise	4379 Sep 08 06:25	5° m 09'16	
direct	4378 Sep 28 14:26	22°M) 16'33		direct	4379 Sep 10 18:23	4° <b>TD</b> 49'58	
asc. node	4378 Oct 05 17:05	25° Mp 34'43		morning max el	4379 Sep 19 07:23	8° <b>m</b> 53'25	18°50'29
morning max el	4378 Oct 06 02:55	25° <b>m</b> 57'54	18°10'54	asc. node	4379 Sep 22 14:10	12° <b>m</b> 33'38	
	4378 Oct 09 14:21	0。 <b>ಹ</b>			4379 Oct 03 01:58	0∘ <b>⊽</b>	
morning set	4378 Oct 21 22:37	21° <b>≏</b> 05'05		morning set	4379 Oct 05 19:02	5° <b>≙</b> 15'51	
	4378 Oct 26 16:28	0° <b>M</b>					
				superior conj	4379 Oct 14 07:12	21° <b>₽</b> 49'30	1°32'09
superior conj	4378 Oct 31 11:10	8°M46'37	1°12'44	minimum elong	4379 Oct 14 10:02	22° <b>ഫ</b> 02'55	1°31'56
minimum elong	4378 Oct 31 15:10	9° <b>™</b> 04'38	1°12'16		4379 Oct 18 16:29	0° <b>M</b>	
max. Earth dist.	4378 Nov 08 02:22	22°M07'06	1.41307 AU	max. Earth dist.	4379 Oct 21 08:03	4°M46'06	1.39236 AU
desc. node	4378 Nov 11 12:26	27°M49'12		evening rise	4379 Oct 25 06:12	11°M35'52	
	4378 Nov 12 20:26	0° <b>×</b> 7		desc. node	4379 Oct 29 09:27	18° <b>™</b> 30'29	
evening rise	4378 Nov 13 02:57	0° <b>⊀</b> ¹26'26		dose. Hode	4379 Nov 05 16:03	0° <b>₹</b>	
e vening rise	4378 Dec 02 17:41	0°중			4379 Nov 28 05:10	0°ਰ	
evening max el	4378 Dec 16 23:41	್ರ 17° <b>ठ</b> 41'42	23°00'10	evening max el	4379 Nov 29 13:04	1°る21'24	24910146
•		17 34142 23° <b>る</b> 43'59	23 00 10	retrograde	4379 Dec 10 19:29	7°る57'23	24 1940
retrograde	4378 Dec 27 04:06					7 <b>3</b> 37 23 5° <b>3</b> 42'45	
evening set	4378 Dec 31 23:56	21°₹45'09		evening set	4379 Dec 16 04:37		
asc. node	4379 Jan 01 16:19	21°る08'35	1022100	asc. node	4379 Dec 19 13:22	2°る04'22	0.65560.433
inferior conj	4379 Jan 06 09:04	15°₹21'34	1°32'09	min. Earth dist.	4379 Dec 20 21:13	0°る20'08	0.67762 AU
minimum elong	4379 Jan 06 07:09	15° <b>පි</b> 28'12	1°31'26		4379 Dec 21 03:14	30°R. <b>✓</b>	
min. Earth dist.	4379 Jan 06 01:10	15° <b>₹</b> 48'52	0.68033 AU	inferior conj	4379 Dec 21 16:00	29° <b>∡</b> 17'04	0°42'43
morning rise	4379 Jan 11 14:15	9° <b>る</b> 13'27		minimum elong	4379 Dec 21 15:00	29° <b>∡</b> 20′27	0°42'18
direct	4379 Jan 15 23:47	7° <b>る</b> 27'10		morning rise	4379 Dec 27 01:27	23° <b>∡</b> 14'40	
morning max el	4379 Jan 24 18:30	12° <b>る</b> 33'55	21°30'30	direct	4379 Dec 30 21:30	21° <b>∡</b> 50′42	
desc. node	4379 Feb 07 11:39	29° <b>る</b> 57'55		morning max el	4380 Jan 07 15:54	26° <b>∡</b> 16′12	20°15'27
	4379 Feb 07 12:14	0° <b>≈</b>			4380 Jan 11 00:26	0° <b>ප</b>	
morning set	4379 Feb 25 11:13	27° <b>≈</b> 05'28		desc. node	4380 Jan 25 08:41	20° <b>පි</b> 01'59	
	4379 Feb 27 07:01	0° <b>)</b> €			4380 Jan 31 22:46	0° <b>≈</b>	
max. Earth dist.	4379 Mar 04 04:00	7° <b>)</b> 55'40	1.41967 AU	morning set	4380 Feb 04 09:29	5° <b>≈</b> 18′00	
				max. Earth dist.	4380 Feb 14 12:15	21° <b>≈</b> 12'48	1.43694 AU
superior conj	4379 Mar 11 16:25	20° <b>)</b> 38′53	-2°05'34		4380 Feb 19 22:07	0° <b>₩</b>	
minimum elong	4379 Mar 11 18:59	20° <b>)</b> 50′00					
Č	4379 Mar 16 23:39	$_{0}^{\circ}\Upsilon$		superior conj	4380 Feb 20 10:29	0° <b>¥</b> 50'55	-2°06'22
evening rise	4379 Mar 22 17:33	10° <b>Y</b> 25′01		minimum elong	4380 Feb 20 07:51	0° <b>)</b> 40′02	
asc. node	4379 Mar 30 15:38	24° <b>Y</b> 33'19		evening rise	4380 Mar 04 03:20	22° <b>¥</b> 25'04	2 00 10
use. Houe	4379 Apr 03 01:15	0° <b>8</b>		evening rise	4380 Mar 08 12:10	0° <b>Υ</b>	
evening max el	4379 Apr 08 04:24	6° <b>8</b> 28'01	18°09'29	asc. node	4380 Mar 16 12:40	13° <b>Υ</b> '07'47	
retrograde	4379 Apr 14 23:26	9° <b>8</b> 54'17	10 0727	evening max el	4380 Mar 21 16:53	19° <b>Υ</b> 39'27	18°08'41
•	•			•		23° <b>Υ</b> 02'14	10 0041
evening set	4379 Apr 17 13:11	9° <b>8</b> 25'13	2057146	retrograde	4380 Mar 28 03:39		
inferior conj	4379 Apr 24 08:18	4° <b>8</b> 33'56		evening set	4380 Mar 30 23:23	22°\bar{\gamma}22'05	2027122
minimum elong	4379 Apr 24 11:25	4° <b>8</b> 26'44		inferior conj	4380 Apr 06 05:06	17° <b>Y</b> 10'48	3°27'23
min. Earth dist.	4379 Apr 27 15:47	1° <b>8</b> 31'58	0.60342 AU	minimum elong	4380 Apr 06 06:38	17° <b>Y</b> ′06'46	3°27'14
	4379 Apr 29 12:27	30° <b>₹</b> Υ		min. Earth dist.	4380 Apr 09 01:13	14° <b>Y</b> °12'34	0.62486 AU
morning rise	4379 May 01 07:22	28° <b>Ƴ</b> 45'06		morning rise	4380 Apr 12 12:31	11° <b>Y</b> ′07'33	
desc. node	4379 May 06 10:51	26° <b>Y</b> 46′02		direct	4380 Apr 19 09:14	8° <b>Y</b> 34'46	
direct	4379 May 07 21:32	26° <b>Ƴ</b> 40'06		desc. node	4380 Apr 22 07:52	9° <b>Y</b> ′00′14	
	4379 May 16 20:00	$9^{\circ}$ 8		morning max el	4380 May 03 10:41	16° <b>Ƴ</b> 33'58	27°51'30
morning max el	4379 May 22 04:47	4° <b>8</b> 33'33	27°40'21		4380 May 14 12:43	$0^{\circ}$ 8	
	4379 Jun 10 00:59	$\Pi^{\circ}0$			4380 Jun 01 17:30	$\Pi$ $^{\circ}0$	
morning set	4379 Jun 23 07:10	24° <b>Ⅱ</b> 48′34		morning set	4380 Jun 06 08:12	9° <b>Ⅱ</b> 03'09	
	4379 Jun 25 18:21	0ಂತ		max. Earth dist.	4380 Jun 11 20:44	20° <b>Ⅲ</b> 35′58	1.32486 AU
asc. node	4379 Jun 26 14:56	1° <b>©</b> 50'15		asc. node	4380 Jun 12 11:59	21° <b>II</b> 58'00	
max. Earth dist.	4379 Jun 29 13:04	8°911'50	1.32052 AU				
				superior conj	4380 Jun 13 21:42	25° <b>Ⅱ</b> 00'35	0°14'40
superior conj	4379 Jun 30 12:30	10°520'34	0°39'53	minimum elong	4380 Jun 13 21:01	24° <b>Ⅱ</b> 56'50	
minimum elong	4379 Jun 30 10:50	10°511'23		behind sun begin	4380 Jun 13 18:52	24° <b>∏</b> 45'11	
	.5,, , , , , , , , , , , , , , , , , , ,	1123	J J, J2	ouma sun oegin	.500 0411 15 10.52	11	

behind sun end	4380 Jun 13 23:10	25° <b>Ⅱ</b> 08'30		max. Earth dist.	4381 May 25 20:33	2° <b>Ⅱ</b> 32'59	1.33365 AU
avaning risa	4380 Jun 16 04:39 4380 Jun 20 19:51	0°ഇ 10° <b>ഇ</b> 01'40		superior conj	4381 May 29 02:46	9° <b>∏</b> 23'42	0°13'06
evening rise	4380 Jul	10 <b>3</b> 01 40		minimum elong	4381 May 29 02:46 4381 May 29 03:26	9° <b>П</b> 23'42	
evening max el	4380 Jul 15 04:12	19° <b>Ω</b> 08'46	23°50'50	behind sun begin	4381 May 29 00:13	9° <b>Ⅱ</b> 10'11	0 12 36
desc. node	4380 Jul 19 07:09	22°Ω35'50	23 37 30	behind sun end	4381 May 29 06:39	9°∏44'20	
retrograde	4380 Jul 28 22:16	26°Ω04'08		asc. node	4381 May 30 08:59	12° <b>∏</b> 04'47	
evening set	4380 Aug 02 11:05	25° <b>Ω</b> 18'41		evening rise	4381 Jun 05 07:13	24° <b>∏</b> 44'38	
min. Earth dist.	4380 Aug 08 14:34		0.56267 AU		4381 Jun 07 19:54	0°50	
inferior conj	4380 Aug 11 00:21	20°Ω50'37		evening max el	4381 Jun 26 18:22	29° <b>©</b> 31'52	22°22'44
minimum elong	4380 Aug 10 20:41	20° <b>Ω</b> 56'15	5°05'06	<i>5</i>	4381 Jun 27 06:08	$0^{\circ}\Omega$	
morning rise	4380 Aug 19 08:53	16° <b>Ω</b> 52'44		desc. node	4381 Jul 06 04:10	5° <b>Ω</b> 29'41	
direct	4380 Aug 22 02:49	16° <b>Ω</b> 33'16		retrograde	4381 Jul 09 18:37	5° <b>Ω</b> 59'41	
morning max el	4380 Sep 01 01:34	21° <b>Ω</b> 10'50	19°51'48	evening set	4381 Jul 12 19:44	5° <b>Ω</b> 39'10	
asc. node	4380 Sep 08 11:13	0°m/28'34		min. Earth dist.	4381 Jul 21 01:06	2° <b>Ω</b> 05'14	0.55109 AU
	4380 Sep 08 03:49	0° <b>m</b>		inferior conj	4381 Jul 22 01:11	1° <b>Ω</b> 31′08	-4°12'06
morning set	4380 Sep 18 22:39	19° <b>™</b> 47'27		minimum elong	4381 Jul 21 16:51	1° <b>Ω</b> 42'58	4°10'09
	4380 Sep 23 23:05	0∘ <b>⊽</b>			4381 Jul 24 19:17	30° <b>₹</b> 5	
				morning rise	4381 Jul 30 15:54	27° <b>©</b> 40'50	
superior conj	4380 Sep 26 18:02	5° <b>£</b> 36'32	1°42'01	direct	4381 Aug 02 18:02	27° <b>©</b> 19'15	
minimum elong	4380 Sep 26 19:13	5° <b>≏</b> 42'26	1°41'59		4381 Aug 10 21:46	$0^{\circ}\Omega$	
max. Earth dist.	4380 Oct 02 13:08	16° <b>≏</b> 50′23	1.37174 AU	morning max el	4381 Aug 14 07:46	2° <b>Ω</b> 42'44	21°14'01
evening rise	4380 Oct 06 07:48	23° <b>≏</b> 47'14		asc. node	4381 Aug 26 08:14	19° <b>Ω</b> 05'40	
	4380 Oct 09 20:27	$0^{\circ}$ M			4381 Sep 01 01:47	0° <b>m</b>	
desc. node	4380 Oct 15 06:28	9° <b>M</b> 03'01		morning set	4381 Sep 03 06:53	4° <b>m</b> 31'45	
	4380 Oct 29 08:58	0°⊀					
evening max el	4380 Nov 11 01:24	15° <b>₹</b> 03'42	25°33'30	superior conj	4381 Sep 10 15:15	19° <b>m</b> 53'44	1°43'50
retrograde	4380 Nov 23 06:28	22° <b>₹</b> 04'23		minimum elong	4381 Sep 10 14:55	19° <b>m</b> 52'01	1°43'49
evening set	4380 Nov 29 05:20	19° <b>∡</b> ³35'54		max. Earth dist.	4381 Sep 14 23:04	28° Mp 41'18	1.35345 AU
min. Earth dist.	4380 Dec 03 14:24	14° <b>∡</b> °47'54	0.67143 AU		4381 Sep 15 14:58	0∘ <b>⊽</b>	
inferior conj	4380 Dec 04 20:10	13° <b>≯</b> 12'35		evening rise	4381 Sep 19 03:53	6° <b>♀</b> 50'12	
minimum elong	4380 Dec 04 20:28	13° <b>∡</b> 11'35		desc. node	4381 Oct 02 03:30	29° <b>Ω</b> 20'59	
transit middle	4380 Dec 04 20:28	13° <b>∡</b> 11'35	0°12'03		4381 Oct 02 13:23	0° <b>™</b>	
transit begin	4380 Dec 04 18:36	13° <b>∡</b> 17'35		evening max el	4381 Oct 24 13:55	28°M44'10	26°34'08
transit end	4380 Dec 04 22:21	13°×705'36			4381 Oct 25 22:26	0° ⊀ <sup>7</sup>	
asc. node	4380 Dec 05 10:25	12° 🗷 27'08		retrograde	4381 Nov 06 12:21	5° ₹ 58'31	
morning rise	4380 Dec 10 11:58	7° ₹ 18'02		evening set	4381 Nov 13 00:10	3° <b>∡</b> 720′28	
direct	4380 Dec 13 20:10	6° <b>₹</b> 13'45	10014122	· P. d. II.	4381 Nov 16 08:27	30°₹M	0.66171 ATT
morning max el greatest brilliancy	4380 Dec 20 21:13 4381 Jan 03 12:30	10° <b>₹</b> 09'18 28° <b>₹</b> 32'10	19°14'23	min. Earth dist.	4381 Nov 17 02:25 4381 Nov 18 19:35	29°11L07'30 27°11L04'30	0.66171 AU
greatest brilliancy	4381 Jan 04 11:38	28 x・32 10	-U. /III	inferior conj minimum elong	4381 Nov 18 21:33	26°M58'36	
desc. node	4381 Jan 11 05:42	0 3 10°る23'22		asc. node	4381 Nov 18 21:33 4381 Nov 22 07:26	23°M13'25	1 10 33
morning set	4381 Jan 13 10:11	10 <b>3</b> 23 22		morning rise	4381 Nov 24 19:39	21°M20'19	
morning set	4381 Jan 23 19:57	0°≈		direct	4381 Nov 27 18:04	20°M32'01	
max. Earth dist.	4381 Jan 27 02:42	5°≈09'31	1.44839 AU	morning max el	4381 Dec 04 08:55		18°29'14
man. Baran andi.	1301 0411 27 02.12	5 10 10 2 1	1.1.055110	morning man vi	4381 Dec 09 05:22	0° <b>⊼</b>	10 27 11
superior conj	4381 Jan 30 03:39	9° <b>≈</b> 58'04	-1°48'22	morning set	4381 Dec 24 10:57	23° <b>х</b> 31′52	
minimum elong	4381 Jan 29 19:22	9° <b>≈</b> 25'10			4381 Dec 28 12:22	0°ප	
	4381 Feb 11 13:07	0° <b>)</b> €		desc. node	4381 Dec 29 02:45	0° <b>る</b> 57'09	
evening rise	4381 Feb 13 15:49	3° <b>)</b> €29'03					
Č	4381 Mar 02 13:35	0°Υ		superior conj	4382 Jan 09 06:43	18° <b>る</b> 33'30	-1°11'49
asc. node	4381 Mar 03 09:42	1° <b>Y</b> 01'55		minimum elong	4382 Jan 08 22:14	18° <b>පි</b> 00'16	1°10'49
evening max el	4381 Mar 05 05:15	3° <b>Y</b> 02'23	18°26'38	max. Earth dist.	4382 Jan 09 20:50	19° <b>පි</b> 28'51	1.45283 AU
retrograde	4381 Mar 11 17:09	6° <b>Y</b> 34'43			4382 Jan 16 13:48	0° <b>≈</b>	
evening set	4381 Mar 14 18:53	5° <b>Ƴ</b> 42'32		evening rise	4382 Jan 25 05:00	13° <b>≈</b> 36′33	
inferior conj	4381 Mar 20 15:02	0° <b>Υ</b> 12'57	3°35'29	greatest brilliancy	4382 Feb 03 17:45	28° <b>≈</b> 39'51	-0.8m
minimum elong	4381 Mar 20 14:54	0° <b>Υ</b> 13'22	3°35'29		4382 Feb 04 14:21	0° <b>∀</b>	
	4381 Mar 20 19:27	30° <b>₹</b>		evening max el	4382 Feb 16 15:08	16° <b>)</b> 31′45	19°02'19
min. Earth dist.	4381 Mar 22 20:09	27° <b>)</b> € 38′06	0.64386 AU	asc. node	4382 Feb 18 06:42	18° <b>) (</b> 04′00	
morning rise	4381 Mar 26 10:10	24° <b>)</b> €02′20		retrograde	4382 Feb 23 12:13	20° <b>)</b> €24'52	
direct	4381 Apr 02 05:12	21° <b>)</b> 14′10		evening set	4382 Feb 26 20:38	19° <b>∺</b> 19'44	
desc. node	4381 Apr 09 04:53	23° <b>)</b> 37′50		inferior conj	4382 Mar 04 10:25	13° <b>¥</b> 33'37	
morning max el	4381 Apr 15 20:00	29° <b>)</b> 10′01	27°26'18	minimum elong	4382 Mar 04 08:59		3°27'15
	4381 Apr 16 15:32	0° <b>Υ</b>		min. Earth dist.	4382 Mar 06 00:04	11° <b>)</b> (34'37	0.65919 AU
	4381 May 08 09:45	0° <b>8</b>		morning rise	4382 Mar 09 20:59	7° <b>)</b> € 20'03	
morning set	4381 May 21 01:03	22° <b>8</b> 50'11		direct	4382 Mar 16 07:59	4° <b>¥</b> 30′16	
	4381 May 24 14:49	0°Щ		desc. node	4382 Mar 27 01:54	10° <b>米</b> 04'46	

morning max el	4382 Mar 29 05:53 4382 Apr 12 13:03	12°¥09'31 0° <b>Y</b>	26°30'59	desc. node	4383 Mar 13 22:57 4383 Mar 15 20:20	27°≈50'24 0°¥	
	4382 May 01 00:36	0° <b>8</b>			4383 Apr 06 01:20	0°Υ 10° <b>Ω</b> 17124	
morning set	4382 May 04 06:20	5° <b>8</b> 59'34	1 24712 411	morning set	4383 Apr 16 19:22	18° <b>Υ</b> 17'24 25° <b>Υ</b> '00'22	1 26502 ATT
max. Earth dist.	4382 May 08 09:24	13°03/40	1.34712 AU	max. Earth dist.	4383 Apr 20 11:15 4383 Apr 23 02:31	0° <b>8</b>	1.36503 AU
superior conj	4382 May 13 01:28	23° <b>8</b> 23'31	-0°42'18		4363 Apr 23 02.31	0.0	
minimum elong	4382 May 13 01:28	23° <b>8</b> 35'13		superior conj	4383 Apr 26 14:56	6° <b>8</b> 51'35	-1°11'23
g	4382 May 16 05:47	0°II	0 1102	minimum elong	4383 Apr 26 18:47	7° <b>8</b> 10'36	
asc. node	4382 May 17 06:01	2° <b>∏</b> 06′50		asc. node	4383 May 04 03:02	21° <b>8</b> 59'24	
evening rise	4382 May 20 16:13	9° <b>Ⅱ</b> 15'56		evening rise	4383 May 04 20:39	23° <b>8</b> 28'25	
<i>y</i>	4382 May 31 17:43	0ಂತಾ		8	4383 May 08 03:20	0°II	
evening max el	4382 Jun 08 17:16	10°ഇ16'17	20°54'03	evening max el	4383 May 22 04:21	21° <b>∏</b> 39'17	19°42'12
retrograde	4382 Jun 20 07:14	15° <b>©</b> 56'47		retrograde	4383 Jun 01 00:31	26° <b>Ⅲ</b> 27'01	
evening set	4382 Jun 22 10:32	15° <b>©</b> 45'57		evening set	4383 Jun 02 23:15	26° <b>Ⅱ</b> 16'35	
desc. node	4382 Jun 23 01:08	15° <b>©</b> 39'03		desc. node	4383 Jun 09 22:09	23° <b>Ⅱ</b> 21'44	
inferior conj	4382 Jul 01 18:25	11° <b>©</b> 48'41	-2°32'14	inferior conj	4383 Jun 11 18:32	22° <b>Ⅱ</b> 13'51	-0°32'57
minimum elong	4382 Jul 01 11:28	11° <b>©</b> 58'32	2°29'52	minimum elong	4383 Jun 11 17:02	22° <b>Ⅱ</b> 16′11	0°32'23
min. Earth dist.	4382 Jul 02 12:29	11° <b>©</b> 23'03	0.54841 AU	min. Earth dist.	4383 Jun 14 01:33	20° <b>Ⅱ</b> 48′23	0.55532 AU
morning rise	4382 Jul 10 12:13	7° <b>5</b> 47'00		morning rise	4383 Jun 20 08:30	17° <b>Ⅱ</b> 43'21	
direct	4382 Jul 14 03:22	7° <b>©</b> 18'36		direct	4383 Jun 24 19:13	16° <b>Ⅱ</b> 59'30	
morning max el	4382 Jul 27 03:24		22°52'10	morning max el	4383 Jul 08 17:28	23° <b>Ⅱ</b> 56′23	24°35'42
	4382 Aug 08 15:22	$0^{\circ}\Omega$			4383 Jul 14 05:47	0	
asc. node	4382 Aug 13 05:16	8° <b>Ω</b> 14'47		asc. node	4383 Jul 31 02:20	27° <b>©</b> 47'39	
morning set	4382 Aug 18 17:43	19° <b>Ω</b> 23'14			4383 Aug 01 04:17	$0$ $\circ$ $\Omega$	
	4382 Aug 23 16:55	0° <b>m</b>		morning set	4383 Aug 03 05:30	4° <b>Ω</b> 17'05	
superior conj	4382 Aug 25 19:32	4° mp 31'10	1°38'53	superior conj	4383 Aug 10 04:21	19° <b>Ω</b> 21'04	1°28'15
minimum elong	4382 Aug 25 18:04	4° m 23'20	1°38'47	minimum elong	4383 Aug 10 04:21 4383 Aug 10 02:12	19° <b>Ω</b> 09'25	1°28'00
max. Earth dist.	4382 Aug 28 17:47	10° Mp 42'14	1.33886 AU	max. Earth dist.	4383 Aug 11 21:13	23°Ω02'52	1.32837 AU
evening rise	4382 Sep 02 14:08	20° m/33'17	1.55000 AC	max. Lartii dist.	4383 Aug 15 03:28	0° mp	1.32637 AC
evening rise	4382 Sep 07 13:10	20 ಗ್ಗು33 17 0° <b>೧</b>		evening rise	4383 Aug 17 10:44	4° Mp 45'56	
desc. node	4382 Sep 19 00:30	19° <b>≏</b> 17'34		evening rise	4383 Aug 31 05:07	0∘ <b>⊽</b>	
	4382 Sep 26 12:08	0°M		desc. node	4383 Sep 05 21:30	8° <b>£</b> 44'00	
evening max el	4382 Oct 07 02:28	12°M14'02	27°14'10	evening max el	4383 Sep 19 13:18	25° <b>Ω</b> 20'46	27°26'48
retrograde	4382 Oct 20 12:23	19°M31'58		Č	4383 Sep 25 09:54	$0^{\circ}$ M	
evening set	4382 Oct 27 10:46	16°M51'16		retrograde	4383 Oct 03 05:54	2°M36'34	
min. Earth dist.	4382 Oct 31 06:54	13°M13'44	0.64851 AU	evening set	4383 Oct 10 10:11	0°M02'41	
inferior conj	4382 Nov 02 12:02	10° <b>M</b> 47′50	-2°13'12		4383 Oct 10 11:41	30° <b>₹</b> Ω	
minimum elong	4382 Nov 02 15:50	10°M37'24	2°11'42	min. Earth dist.	4383 Oct 14 01:50	26° <b>≏</b> 57'00	0.63200 AU
morning rise	4382 Nov 08 22:00	5°M17'04		inferior conj	4383 Oct 16 18:54	24° <b>≏</b> 16'30	-3°14'47
asc. node	4382 Nov 09 04:28	5° <b>™</b> 10'04		minimum elong	4383 Oct 17 00:18	24° <b>≙</b> 03'07	3°12'59
direct	4382 Nov 11 13:00	4° <b>™</b> 40'48		morning rise	4383 Oct 23 15:55	19° <b>≙</b> 02'41	
morning max el	4382 Nov 18 00:32	8°M07'40	18°00'53	direct	4383 Oct 26 02:07	18° <b>≏</b> 34'50	
	4382 Dec 02 20:55	0° <b>∡</b> ¹		asc. node	4383 Oct 27 01:32	18° <b>≏</b> 39'27	
morning set	4382 Dec 05 17:21	4° <b>∡</b> °45′22		morning max el	4383 Nov 01 17:15	22° <b>Ω</b> 00'26	17°50'04
desc. node	4382 Dec 15 23:47	21° <b>₹</b> 38'55			4383 Nov 07 20:54	0°M	
	4202 D 10 15.42	279.722104	0925106	morning set	4383 Nov 18 00:43	17°M11'25	
superior conj minimum elong	4382 Dec 19 15:43 4382 Dec 19 12:38	27° <b>х</b> 32′04 27° <b>х</b> 19′45			4383 Nov 25 10:12	0° <b>∡</b>	
minimum eiong	4382 Dec 19 12.38 4382 Dec 21 04:53	27 <b>メ</b> ・1943	0 24 40	superior conj	4383 Nov 29 23:10	7° <b>∡</b> ³38'26	0°20'11
max. Earth dist.	4382 Dec 21 04.33 4382 Dec 23 16:11	0 S 3° <b>ਤ</b> 54'42	1.44987 AU	minimum elong	4383 Nov 30 01:12	7° <b>×</b> 46'53	0°19'53
evening rise	4383 Jan 04 22:33	23°る00'39	1.44987 AU	desc. node	4383 Dec 02 20:50	12° <b>₹</b> 25'24	0 1933
evening rise	4383 Jan 09 11:37	0°≈		max. Earth dist.	4383 Dec 02 20:30 4383 Dec 06 09:49	18° × 29'29	1.43987 AU
greatest brilliancy	4383 Jan 18 23:05	14°≈20'32	-0.6m	max. Earth dist.	4383 Dec 13 22:03	0°る	1.43707 110
o. caroot orinitaticy	4383 Jan 30 19:13	0° <b>\</b>	0.022	evening rise	4383 Dec 15 22:03 4383 Dec 15 08:22	00 2°る12'41	
evening max el	4383 Jan 30 20:41	0° <b>)</b> €03'46	19°54'03	evening rise	4384 Jan 03 01:24	0°≈	
asc. node	4383 Feb 05 03:44	3° <b>¥</b> 59'42		evening max el	4384 Jan 13 20:50	13° <b>≈</b> 37'16	20°59'17
retrograde	4383 Feb 07 09:51	4° <b>)</b> €27'00		retrograde	4384 Jan 22 07:55	18° <b>≈</b> 37'39	
evening set	4383 Feb 11 02:12	3° <b>)</b> €07'52		asc. node	4384 Jan 23 00:46	18° <b>≈</b> 34'59	
-	4383 Feb 14 06:37	30° <b>R</b> ≈		evening set	4384 Jan 26 09:41	17° <b>≈</b> 03'32	
inferior conj	4383 Feb 16 12:13	27° <b>≈</b> 07'20	3°06'51	inferior conj	4384 Jan 31 18:03	10° <b>≈</b> 51'09	2°36'26
minimum elong	4383 Feb 16 10:01	27° <b>≈</b> 14'40	3°06'26	minimum elong	4384 Jan 31 15:35	10° <b>≈</b> 59'39	2°35'44
min. Earth dist.	4383 Feb 17 11:23	25° <b>≈</b> 49'57	0.67035 AU	min. Earth dist.	4384 Feb 01 04:10	10° <b>≈</b> 16′17	0.67732 AU
morning rise	4383 Feb 21 17:38	20° <b>≈</b> 53'14		morning rise	4384 Feb 05 21:19	4° <b>≈</b> 38'10	
direct	4383 Feb 27 16:26	18° <b>≈</b> 13'43		direct	4384 Feb 11 05:47	2° <b>≈</b> 16'48	
morning max el	4383 Mar 11 14:47	25° <b>≈</b> 21'19	25°14'30	morning max el	4384 Feb 21 23:28	8° <b>≈</b> 40'33	23°47'04

desc. node	4384 Feb 28 20:02	16° <b>≈</b> 32'41		morning max el	4385 Feb 03 10:36	22° <b>ට</b> 06'41	22°18'34
	4384 Mar 09 17:15	0° <b>∀</b>			4385 Feb 10 05:59	0° <b>≈</b>	
morning set	4384 Mar 28 10:24	29° <b>)</b> €28'50		desc. node	4385 Feb 14 17:06	5°≈55'17	
morning set	4384 Mar 28 17:41	0°Υ		dese. Hode		0° <b>\</b>	
m at the			1.20610.477		4385 Mar 03 01:01		
max. Earth dist.	4384 Apr 01 07:02	6° <b>Ƴ</b> 11'30	1.38610 AU	morning set	4385 Mar 08 21:55	9° <b>∺</b> 20'59	
				max. Earth dist.	4385 Mar 14 03:58	18° <b>)</b> €02'38	1.40786 AU
superior conj	4384 Apr 08 15:35	19° <b>Ƴ</b> 38'55	-1°37'54		4385 Mar 21 01:35	$0$ ° $\mathbf{\Upsilon}$	
minimum elong	4384 Apr 08 20:23	20° <b>Ƴ</b> 01'35	1°37'20				
•	4384 Apr 14 00:50	0°8		superior conj	4385 Mar 21 22:51	1° <b>Ƴ</b> 34'50	-1°58'22
evening rise	4384 Apr 17 17:54	7° <b>8</b> 15'17		minimum elong	4385 Mar 22 03:01	1°Υ53'28	
•	1	_		2		20°Υ28'25	1 36 03
asc. node	4384 Apr 20 00:04	11° <b>8</b> 38'05		evening rise	4385 Apr 01 04:42		
	4384 Apr 30 20:57	$\Pi$ $\circ 0$			4385 Apr 06 08:14	$_{0\circ}$ 8	
evening max el	4384 May 04 02:39	3° <b>Ⅱ</b> 42'42	18°50'17	asc. node	4385 Apr 06 21:07	0° <b>8</b> 57'49	
retrograde	4384 May 12 09:53	7° <b>Ⅱ</b> 46'44		evening max el	4385 Apr 17 09:13	16° <b>8</b> 20'27	18°18'42
evening set	4384 May 14 13:01	7° <b>Ⅱ</b> 31'41		retrograde	4385 Apr 24 14:15	19° <b>8</b> 56'02	
inferior conj	4384 May 22 12:48	3° <b>I</b> 12'30	1°12'53	evening set	4385 Apr 27 00:04	19° <b>8</b> 32'53	
•				•	•		2020120
minimum elong	4384 May 22 15:27	3° <b>Ⅱ</b> 07'43	1°11'59	inferior conj	4385 May 04 04:44	14° <b>8</b> 53'42	
min. Earth dist.	4384 May 25 17:45	0° <b>Ⅱ</b> 54'09	0.57042 AU	minimum elong	4385 May 04 08:20	14° <b>8</b> 46'04	
desc. node	4384 May 26 19:12	0° <b>Ⅱ</b> 11′23		min. Earth dist.	4385 May 07 15:10	12° <b>8</b> 00'18	0.59070 AU
	4384 May 27 02:15	30° <b>₹</b> 8		morning rise	4385 May 11 13:41	9° <b>8</b> 16'59	
morning rise	4384 May 30 14:37	28° <b>8</b> 05'57		desc. node	4385 May 13 16:15	8° <b>8</b> 18'04	
direct	4384 Jun 05 00:21	26° <b>8</b> 55'18		direct	4385 May 17 19:37	7° <b>8</b> 31'33	
311001	4384 Jun 13 23:32	0° <b>I</b>		morning max el	4385 Jun 01 05:00	15° <b>8</b> 19'28	27016150
			•	morning max er			27 1038
morning max el	4384 Jun 19 08:32	4° <b>Ⅱ</b> 23'31	26°09'06		4385 Jun 13 02:21	$\Pi^{\circ}0$	
	4384 Jul 07 21:05	0			4385 Jun 30 04:56	$0$ $\circ$ $60$	
asc. node	4384 Jul 16 23:22	17° <b>©</b> 36'58		morning set	4385 Jul 02 01:16	3° <b>5</b> 49'06	
morning set	4384 Jul 17 16:34	19° <b>©</b> 07'27		asc. node	4385 Jul 03 20:25	7° <b>©</b> 37'21	
S	4384 Jul 22 17:06	$0^{\circ}\Omega$		max. Earth dist.	4385 Jul 08 17:58	18° <b>©</b> 18'06	1.31982 AU
	1501341 22 17.00	o 00		max. Earth dist.	1505 541 00 17.50	10 -10 00	1.51702710
	4204 I1 24 15.22	4° <b>Ω</b> 15'57	1012142		4205 I1 00 02.22	19°510'02	0°52'58
superior conj	4384 Jul 24 15:33			superior conj	4385 Jul 09 03:23		
minimum elong	4384 Jul 24 13:14		1°12'22	minimum elong	4385 Jul 09 01:21	18° <b>©</b> 58'46	0°52'35
max. Earth dist.	4384 Jul 25 06:27	5° <b>Ω</b> 37'57	1.32203 AU		4385 Jul 14 01:51	$0 { m ^{\circ}} \Omega$	
evening rise	4384 Jul 31 14:33	19° <b>Ω</b> 18′07		evening rise	4385 Jul 15 23:06	4° <b>Ω</b> 02'21	
	4384 Aug 05 22:21	0° <b>m</b> ⊅			4385 Jul 29 18:05	0° <b>m</b>	
desc. node	4384 Aug 22 18:31	27° m) 27'13		desc. node	4385 Aug 09 15:31	15° m 09'25	
4000. 11040	4384 Aug 24 17:47	0∘ <b>ʊ</b>		evening max el	4385 Aug 13 19:07	19° <b>m</b> 31'53	26°14'33
avanina may al	4384 Aug 31 19:36	о <b>—</b> 7° <b>Ω</b> 49'46	27907!15	•	4385 Aug 27 18:26	-	20 1433
evening max el	Č		2/ 0/13	retrograde	Č	26° m/40'59	
retrograde	4384 Sep 14 16:17	15° <b>≙</b> 02'13		evening set	4385 Sep 03 06:40	24° <b>m</b> 57'13	
evening set	4384 Sep 21 18:25	12° <b>≏</b> 47'08		min. Earth dist.	4385 Sep 07 08:08		0.59201 AU
min. Earth dist.	4384 Sep 25 09:58	10° <b>≏</b> 04'35	0.61272 AU	inferior conj	4385 Sep 10 14:28	19° <b>m</b> 53'37	-4°55'18
inferior conj	4384 Sep 28 12:53	7° <b>£</b> 21'28	-4°11'31	minimum elong	4385 Sep 10 19:04	19° <b>m</b> 44'52	4°54'40
minimum elong	4384 Sep 28 18:58	7° <b>ഫ</b> 08'12		morning rise	4385 Sep 18 09:40	15° <b>m</b> 22'57	
morning rise	4384 Oct 05 21:22	2° <b>£</b> 28'07		direct	4385 Sep 20 19:09	15° m 03'14	
=					1		10025107
direct	4384 Oct 08 05:37	2° <b>£</b> 05'37		morning max el	4385 Sep 28 17:03	18° m 52'38	18°25'07
asc. node	4384 Oct 12 22:36	3° <b>≏</b> 40'17		asc. node	4385 Sep 29 19:40	20° Mp 00'38	
morning max el	4384 Oct 15 07:51	5° <b>≏</b> 38'20	17°57'40		4385 Oct 06 21:09	0∘ <b>ত</b>	
	4384 Oct 30 20:06	$0^{\circ}$ M.		morning set	4385 Oct 14 17:16	14° <b>£</b> 24'04	
morning set	4384 Oct 31 02:28	0°M29'16			4385 Oct 22 22:11	0°M	
-							
superior conj	4384 Nov 10 09:14	19° <b>M</b> 02'24	0°56'40	superior conj	4385 Oct 23 18:27	1°M33'52	1°22'13
minimum elong	4384 Nov 10 13:16	19°M20'01	0°56'09	minimum elong	4385 Oct 23 22:04	1°M50'32	
mmmum ciong		0° <b>√</b>	5 50 07	max. Earth dist.			
	4384 Nov 16 19:18				4385 Oct 31 05:56		1.40441 AU
max. Earth dist.	4384 Nov 17 22:37	1° <b>≯</b> 53'21	1.42404 AU	evening rise	4385 Nov 04 16:04	22°M23'15	
desc. node	4384 Nov 18 17:51	3° <b>҂</b> 12'33		desc. node	4385 Nov 05 14:51	23°M57'11	
evening rise	4384 Nov 24 02:13	11° <b>₹</b> ′50′10			4385 Nov 09 08:43	0° <b>∡</b> ¹	
•	4384 Dec 05 23:38	0°రె			4385 Nov 30 00:19	0°ರ	
evening max el	4384 Dec 26 15:34	27° <b>ට</b> 11'41	22°14'25	evening max el	4385 Dec 09 06:17	10° <b>る</b> 49'10	23°34'15
Cronnig mux of			17	•			25 57 15
	4384 Dec 29 17:19	0°≈		retrograde	4385 Dec 19 22:19	17° <b>る</b> 07'23	
retrograde	4385 Jan 05 04:34	2°≈52'21		evening set	4385 Dec 24 23:34	15° <b>පි</b> 01'46	
asc. node	4385 Jan 08 21:50	1° <b>≈</b> 38'57		asc. node	4385 Dec 26 18:54	13° <b>る</b> 14'57	
evening set	4385 Jan 09 17:21	1° <b>≈</b> 02'33		inferior conj	4385 Dec 30 09:30	8° <b>ප</b> 36'30	1°11'55
	4385 Jan 10 20:36	30° <b>Ŗ</b> ⋜		minimum elong	4385 Dec 30 07:55	8° <b>ප්</b> 41'55	1°11'17
inferior conj	4385 Jan 15 01:45	24° <b>る</b> 41'45	1°57'43	min. Earth dist.	4385 Dec 29 20:56	9° <b>ට</b> 19'28	0.67959 AU
minimum elong	4385 Jan 14 23:31	24° <b>る</b> 49'34	1°56'56	morning rise	4386 Jan 04 16:13	2° <b>ප</b> 30'21	
_				•			
min. Earth dist.	4385 Jan 15 00:09	24°₹47′21	0.68028 AU	direct	4386 Jan 08 19:45	0°る53'51	2005
morning rise	4385 Jan 20 05:32	18° <b>る</b> 31'17		morning max el	4386 Jan 17 03:32	5° <b>る</b> 42'21	20°56'55
direct	4385 Jan 24 23:11	16° <b>る</b> 32'03		desc. node	4386 Feb 01 14:07	25° <b>る</b> 46'44	

						_	
	4386 Feb 04 11:06	0° <b>≈</b>		direct	4386 Dec 23 18:11	15° <b>≯</b> 18'12	
morning set	4386 Feb 16 06:02	17° <b>≈</b> 57'36		morning max el	4386 Dec 31 04:16	19° <b>∡</b> ¹29'38	19°47'32
	4386 Feb 23 19:27	0° <b>∀</b>			4387 Jan 08 15:07	o°る	
max. Earth dist.	4386 Feb 24 07:08	0° <b>)</b> 47′29	1.42756 AU	greatest brilliancy	4387 Jan 13 10:29	6° <b>ප</b> 56'31	-0.6m
				desc. node	4387 Jan 19 11:08	15° <b>る</b> 59'19	
superior conj	4386 Mar 03 07:38	12° <b>)</b> 27'11	-2°07'57	morning set	4387 Jan 26 02:04	26° <b>る</b> 07'49	
minimum elong	4386 Mar 03 08:20	12° <b>)</b> (2711		morning set	4387 Jan 28 14:06	0°≈	
minimum clong		0° <b>Υ</b>	2 07 37	Fauth diet			1 440C5 ATT
	4386 Mar 13 09:07			max. Earth dist.	4387 Feb 06 18:07	14***23*17	1.44265 AU
evening rise	4386 Mar 15 00:52	2° <b>Y</b> 57'32					
asc. node	4386 Mar 24 18:09	19° <b>Y</b> 51'16		superior conj	4387 Feb 11 14:43	22°≈10'48	-2°01'12
evening max el	4386 Mar 31 20:31	29° <b>Y</b> 22′26	18°06'52	minimum elong	4387 Feb 11 09:23	21° <b>≈</b> 49′15	2°00'57
	4386 Apr 01 12:26	$9^{\circ}$ 8			4387 Feb 16 09:34	0° <b>∀</b>	
retrograde	4386 Apr 07 10:50	2° <b>8</b> 45'25		evening rise	4387 Feb 25 02:02	14° <b>) (</b> 34′28	
evening set	4386 Apr 10 03:08	2° <b>8</b> 11'52			4387 Mar 06 05:50	$0^{\circ}\Upsilon$	
Ç	4386 Apr 13 14:51	30° <b>₹</b> Υ		asc. node	4387 Mar 11 15:11	8° <b>Ƴ</b> 10'14	
inferior conj	4386 Apr 16 16:06	27° <b>Υ</b> 12'16	3°13'20	evening max el	4387 Mar 15 09:22	12° <b>Υ</b> 40'14	18°14'06
•	*	27°Υ06'08	3°12'55	•		16° <b>Υ</b> 05'10	10 1400
minimum elong	4386 Apr 16 18:36			retrograde	4387 Mar 21 19:23		
min. Earth dist.	4386 Apr 19 19:39	24° <b>Y</b> ′08'44	0.61270 AU	evening set	4387 Mar 24 17:44	15° <b>Y</b> 19'54	
morning rise	4386 Apr 23 08:08	21° <b>Y</b> 16'12		inferior conj	4387 Mar 30 18:57	10° <b>Y</b> 00'45	
direct	4386 Apr 30 02:19	18° <b>Ƴ</b> 57'43		minimum elong	4387 Mar 30 19:45	9° <b>Ƴ</b> 58'33	3°33'01
desc. node	4386 Apr 30 13:17	18° <b>Ƴ</b> 58'19		min. Earth dist.	4387 Apr 02 08:57	7° <b>Ƴ</b> 10′32	0.63342 AU
morning max el	4386 May 14 07:36	26° <b>Y</b> 55′19	27°49'41	morning rise	4387 Apr 05 20:44	3° <b>Y</b> 53′59	
	4386 May 17 05:24	0°8		direct	4387 Apr 12 17:51	1° <b>Y</b> 12'51	
	4386 Jun 06 17:11	0°II		desc. node	4387 Apr 17 10:19	2° <b>Υ</b> 17'40	
morning set	4386 Jun 16 05:40	18° <b>Ⅱ</b> 15'05		morning max el	4387 Apr 26 15:01	9° <b>Υ</b> 11'16	27°44'50
•				morning max ci	•		27 44 30
asc. node	4386 Jun 20 17:26	27° <b>Ⅱ</b> 43'25			4387 May 12 18:58	0° <b>8</b>	
	4386 Jun 21 18:40	0°€			4387 May 29 23:36	$\Pi$ $^{\circ}0$	
max. Earth dist.	4386 Jun 22 03:56	0°950'21	1.32179 AU	morning set	4387 May 31 03:31	2° <b>Ⅱ</b> 18'34	
				max. Earth dist.	4387 Jun 05 08:34	13° <b>Ⅱ</b> 03'25	1.32808 AU
superior conj	4386 Jun 23 14:02	3° <b>©</b> 56'39	0°29'34				
minimum elong	4386 Jun 23 12:43	3°5549'30	0°29'16	superior conj	4387 Jun 07 21:42	18° <b>Ⅲ</b> 30′09	0°03'10
evening rise	4386 Jun 30 10:14	18° <b>©</b> 50'59		minimum elong	4387 Jun 07 21:33	18° <b>Ⅱ</b> 29'20	0°03'07
8 21	4386 Jul 05 20:57	$0^{\circ}\Omega$		behind sun begin	4387 Jun 07 16:20	18° <b>Ⅱ</b> 01'18	
	4386 Jul 26 00:12	0° <b>m</b> )		behind sun end	4387 Jun 08 02:45	18° <b>Ⅱ</b> 57'24	
			24°54'03			18 <b>II</b> 57 24 17° <b>II</b> 51'11	
evening max el	4386 Jul 26 11:26	0° Tp 27'16	24-54-03	asc. node	4387 Jun 07 14:27		
desc. node	4386 Jul 27 12:32	1° Tp 25'29			4387 Jun 13 05:14	0.20	
retrograde	4386 Aug 09 09:51	7° <b>™</b> 29'55		evening rise	4387 Jun 14 22:02	3° <b>©</b> 38'00	
evening set	4386 Aug 14 18:49	6° Mp 24′27			4387 Jun 29 04:54	$0 {\circ} \Omega$	
min. Earth dist.	4386 Aug 19 22:57	3° Mp38′27	0.57229 AU	evening max el	4387 Jul 08 00:17	10° <b>Ω</b> 53'19	23°18'18
inferior conj	4386 Aug 22 20:34	1° Mp 43'36	-5°13'14	desc. node	4387 Jul 14 09:32	15° <b>Ω</b> 43'26	
minimum elong	4386 Aug 22 20:33	1° Mp 43'39	5°13'14	retrograde	4387 Jul 21 12:29	17° <b>Ω</b> 38'42	
Č	4386 Aug 25 13:26	30°R€		evening set	4387 Jul 25 09:27	17° <b>Ω</b> 05'55	
morning rise	4386 Aug 31 00:42	27° <b>Ω</b> 34'54		min. Earth dist.	4387 Aug 01 09:46	13° <b>Ω</b> 53′26	0.55683 AU
direct	4386 Sep 02 14:44	27° <b>Ω</b> 15'49		inferior conj	4387 Aug 03 06:46	13° <b>Ω</b> 47'24	
direct	•			·	_		4°48'17
	4386 Sep 09 21:42	0° m/y	10010150	minimum elong	4387 Aug 03 00:35	12° <b>Ω</b> 56'30	4-48-17
morning max el	4386 Sep 11 17:24	1° <b>™</b> 32'49	19°13'53	morning rise	4387 Aug 11 18:05	8° <b>Ω</b> 54'30	
asc. node	4386 Sep 16 16:42	7° <b>™</b> 24'54		direct	4387 Aug 14 15:27	8° <b>Ω</b> 34'16	
morning set	4386 Sep 28 17:06	28° Mp 44'36		morning max el	4387 Aug 25 06:21	13° <b>Ω</b> 30′19	20°24'25
	4386 Sep 29 08:15	0∘ <b>⊽</b>		asc. node	4387 Sep 03 13:43	25° <b>Ω</b> 39'00	
					4387 Sep 06 02:06	0° Mp	
superior conj	4386 Oct 06 21:20	14° <b>£</b> 57'06	1°37'25	morning set	4387 Sep 12 22:56	13° <b>m</b> 22'19	
minimum elong	4386 Oct 06 23:29	15° <b>≏</b> 07'30	1°37'17	•	•		
max. Earth dist.	4386 Oct 13 10:27		1.38343 AU	superior conj	4387 Sep 20 12:59	28° <b>m</b> 57'54	1°43'41
Titali. Darui dibi.	4386 Oct 14 22:46	0°M	1.505 .5 110	minimum elong	4387 Sep 20 13:29	29° Mp 00'27	
evening rise	4386 Oct 14 22.46 4386 Oct 17 05:11	4°M00'24		mmmum Ciong	4387 Sep 20 13.29 4387 Sep 21 01:16	0° <b>ʊ</b>	1 7340
-				D 4 11 4	_		1.26250 411
desc. node	4386 Oct 23 11:51	14°M35'34		max. Earth dist.	4387 Sep 25 17:14		1.36358 AU
	4386 Nov 02 10:58	0° <b>∡</b> ¹		evening rise	4387 Sep 29 15:09	16° <b>Ω</b> 34'54	
evening max el	4386 Nov 21 19:08	24° <b>≯</b> 31'13	24°52'20		4387 Oct 07 06:53	$0^{\circ}$ M	
	4386 Nov 28 19:28	0°ರ		desc. node	4387 Oct 10 08:51	5°M02'43	
retrograde	4386 Dec 03 11:55	1° <b>る</b> 18'59			4387 Oct 27 21:19	0° <b>∡</b> ¹	
	4386 Dec 07 17:43	30°R. <b>✓</b>		evening max el	4387 Nov 04 07:41	8° <b>⊀</b> 14'26	26°01'26
evening set	4386 Dec 09 02:46	28° <b>₹</b> 58'26		retrograde	4387 Nov 16 20:37	15° <b>≯</b> 21'28	
min. Earth dist.	4386 Dec 13 16:10	23° <b>₹</b> 50'09	0.67540 AU	evening set	4387 Nov 23 01:12	12° <b>₹</b> 48'26	
asc. node	4386 Dec 13 15:55	23° 🖈 50'58	3.07340 210	min. Earth dist.	4387 Nov 27 07:23	8° <b>₹</b> 15'27	0.66774 AU
			0.50.05				
inferior conj	4386 Dec 14 15:30	22° 🗷 33'11	0°20'03	inferior conj	4387 Nov 28 17:53	6° ₹27'55	
minimum elong	4386 Dec 14 15:00	22° <b>х</b> 34'49	0°19'51	minimum elong	4387 Nov 28 18:51	6° ₹24'52	0~36'24
morning rise	4386 Dec 20 03:22	16° <b>∡</b> ³33'32		asc. node	4387 Nov 30 12:57	4° <b>≯</b> 17'02	

morning rise	4387 Dec 04 12:58	0° <b>≯</b> 37'23		direct	4388 Nov 20 13:46	13°M55'39	
	4387 Dec 05 20:10	30°RM₊		morning max el	4388 Nov 27 02:17	17°M26'38	18°15'09
direct	4387 Dec 07 16:51	29°M40'11			4388 Dec 06 09:57	0° <b>∡</b> 7	
	4387 Dec 09 14:33	0° <b>∡</b> ¹		morning set	4388 Dec 16 00:52	15° <b>∡</b> ¹29'18	
morning max el	4387 Dec 14 12:31	3° <b>҂</b> ¹26′03	18°53'12	desc. node	4388 Dec 23 05:10	27° <b>₹</b> '04'40	
	4388 Jan 02 05:20	0°ਰ			4388 Dec 25 01:04	0°ਰ	
morning set	4388 Jan 05 11:21	5° <b>そ</b> 05'22			4500 DCC 25 01.04	٠ <b>٠</b>	
•		6° <b>る</b> 26'46			4200 D 21 02-40	00=227105	0052122
desc. node	4388 Jan 06 08:08		1 45107 411	superior conj	4388 Dec 31 02:48	9°₹37'05	
max. Earth dist.	4388 Jan 20 11:06	28° <b>る</b> 34'22	1.45127 AU	minimum elong	4388 Dec 30 20:16	9° <b>る</b> 11'20	
	4388 Jan 21 08:53	0° <b>≈</b>		max. Earth dist.	4389 Jan 02 06:28	13° <b>⋜</b> 00'06	1.45251 AU
					4389 Jan 13 03:24	0° <b>≈</b>	
superior conj	4388 Jan 21 23:50	0° <b>≈</b> 58'46	-1°34'49	evening rise	4389 Jan 16 08:37	5° <b>≈</b> 01'26	
minimum elong	4388 Jan 21 14:33	0° <b>≈</b> 22'14	1°33'55	greatest brilliancy	4389 Jan 27 23:30	23° <b>≈</b> 03′02	-0.7m
evening rise	4388 Feb 06 04:37	25°≈14'20			4389 Feb 01 15:41	0° <b>∀</b>	
•	4388 Feb 09 03:04	0° <b>∀</b>		evening max el	4389 Feb 09 05:08	9° <b>升</b> 37'25	19°22'23
asc. node	4388 Feb 26 12:13	25° <b>)</b> 44′03		asc. node	4389 Feb 12 09:15	12° <b>¥</b> 20′00	
evening max el	4388 Feb 26 20:59	26° <b>)</b> (06'43	18°39'40	retrograde	4389 Feb 16 08:19	13° <b>)</b> (42′36	
retrograde	4388 Mar 04 11:42	29°\(\frac{1}{46}\)23	10 37 40	•	4389 Feb 19 19:55	13° <del>X</del> 42'30	
Č				evening set			2020102
evening set	4388 Mar 07 16:15	28° <b>)</b> 48'36		inferior conj	4389 Feb 25 07:48	6° <b>)</b> 38'44	
inferior conj	4388 Mar 13 09:19	23° <b>∺</b> 11'32		minimum elong	4389 Feb 25 05:59	6° <b>)</b> 44′39	
minimum elong	4388 Mar 13 08:35	23° <b>∺</b> 13'47	3°33'43	min. Earth dist.	4389 Feb 26 15:02	4° <b>∺</b> 57'15	0.66445 AU
min. Earth dist.	4388 Mar 15 07:41	20° <b>∺</b> 51'11	0.65094 AU	morning rise	4389 Mar 02 15:46	0° <b>)</b> 24'33	
morning rise	4388 Mar 19 00:24	16° <b>¥</b> 59'26			4389 Mar 03 03:05	30°R <b>≈</b>	
direct	4388 Mar 25 16:37	14° <b>₩</b> 09'18		direct	4389 Mar 08 21:48	27°≈38'10	
desc. node	4388 Apr 03 07:21	17° <b>)</b> 46′07			4389 Mar 15 10:59	0° <b>∀</b>	
morning max el	4388 Apr 08 00:54	21° <b>)</b> 58'58	27°05'58	desc. node	4389 Mar 21 04:23	4° <b>)</b> 50′05	
morning max or	4388 Apr 15 01:21	0°Υ	27 03 30	morning max el	4389 Mar 21 10:44	5° <b>₩</b> 06'02	26°00'27
	•	0°8		morning max ci		0°Υ	20 0027
	4388 May 04 23:59				4389 Apr 09 13:26		
morning set	4388 May 13 15:56	15° <b>8</b> 51'05		morning set	4389 Apr 26 14:59	28° <b>Y</b> 40'40	
max. Earth dist.	4388 May 18 04:16	24° <b>8</b> 48'10	1.33885 AU		4389 Apr 27 08:04	0° <b>8</b>	
	4388 May 20 16:54	$\Pi^{\circ}0$		max. Earth dist.	4389 Apr 30 12:27	6° <b>8</b> 02'22	1.35424 AU
superior conj	4388 May 22 00:22	2° <b>Ⅱ</b> 44'27	-0°25'23	superior conj	4389 May 05 19:32	16° <b>8</b> 31'46	-0°54'47
minimum elong	4388 May 22 01:42	2° <b>Ⅱ</b> 51'27	0°25'07	minimum elong	4389 May 05 22:30	16° <b>8</b> 46'49	0°54'14
asc. node	4388 May 24 11:30	7° <b>Ⅱ</b> 56'49		asc. node	4389 May 11 08:32	27° <b>8</b> 55'29	
evening rise	4388 May 29 08:40	18° <b>Ⅱ</b> 17'21			4389 May 12 08:37	$\Pi^{\circ}0$	
Ç	4388 Jun 04 04:19	0ം <b>ഉ</b>		evening rise	4389 May 13 16:03	2° <b>Ⅱ</b> 41'48	
evening max el	4388 Jun 18 17:21	21° <b>©</b> 22'13	210/3117	evening rise	4389 May 29 16:21	0°9	
Č	4388 Jun 30 06:33	27° <b>5</b> 29'55	21 4317	avanina may al	,	2° <b>5</b> 21'37	20021107
desc. node				evening max el	4389 May 31 21:11		20 21 07
retrograde	4388 Jul 01 04:26	27°931'51		retrograde	4389 Jun 11 17:52	7°540'04	
evening set	4388 Jul 03 18:16	27° <b>©</b> 16'52		evening set	4389 Jun 13 17:16	7° <b>9</b> 30'16	
inferior conj	4388 Jul 13 02:45	23°©15'00		desc. node	4389 Jun 17 03:35	6° <b>©</b> 31'01	
minimum elong	4388 Jul 12 18:11	23° <b>©</b> 26'59	3°31'50	inferior conj	4389 Jun 22 21:11	3° <b>©</b> 32'13	-1°41'53
min. Earth dist.	4388 Jul 12 20:07	23° <b>©</b> 24'17	0.54876 AU	minimum elong	4389 Jun 22 16:24	3° <b>5</b> 39'14	1°40'07
morning rise	4388 Jul 21 19:26	19° <b>©</b> 22'53		min. Earth dist.	4389 Jun 24 08:13	2° <b>5</b> 40'58	0.55014 AU
direct	4388 Jul 25 02:29	18° <b>©</b> 59'11			4389 Jun 29 14:58	30°RⅡ	
morning max el	4388 Aug 06 07:40	24°5643'23	21°54'25	morning rise	4389 Jul 01 14:22	29° <b>Ⅱ</b> 19'52	
<i>5</i>	4388 Aug 11 03:08	0°N		direct	4389 Jul 05 12:42	28° <b>∏</b> 46′28	
asc. node	4388 Aug 20 10:45	14° <b>Ω</b> 31'21			4389 Jul 11 06:28	0°95	
morning set	4388 Aug 27 08:32	28° <b>Ω</b> 11'11		morning max el	4389 Jul 19 00:22	5°920'02	22026121
morning set	-			morning max ci			23 30 31
	4388 Aug 28 05:19	0° <b>m</b>			4389 Aug 05 07:35	0° <b>Ω</b>	
				asc. node	4389 Aug 07 07:47	3° <b>Ω</b> 51'30	
superior conj	4388 Sep 03 13:35	13° Mp 25'26	1°42'29	morning set	4389 Aug 11 19:59	13° <b>Ω</b> 04'28	
minimum elong	4388 Sep 03 12:43	13° <b>m</b> 20'53	1°42'27				
max. Earth dist.	4388 Sep 07 07:00	21° <b>m</b> )07'51	1.34672 AU	superior conj	4389 Aug 18 20:07	28° <b>Ω</b> 09'24	1°35'01
evening rise	4388 Sep 11 17:47	29° <b>m</b> 56'41		minimum elong	4389 Aug 18 18:18	27° <b>Ω</b> 59'39	1°34'52
	4388 Sep 11 18:28	0∘ <del>⊽</del>		_	4389 Aug 19 16:41	0° <b>m</b> )	
desc. node	4388 Sep 26 05:53	25° <b>≙</b> 13'05		max. Earth dist.	4389 Aug 21 05:26	3° m) 16'05	1.33382 AU
	4388 Sep 29 09:05	0°M₁		evening rise	4389 Aug 26 08:51	13° <b>m</b> 53'27	
evening max el	4388 Oct 16 20:17	21°M51'49	26°54'02	C , Olling 1150	4389 Sep 03 22:20	0° <b>⊡</b>	
•			20 34 02	daga 4-	•		
retrograde	4388 Oct 29 23:56	29°M08'25		desc. node	4389 Sep 13 02:54	14° <b>£</b> 58'17	
evening set	4388 Nov 05 16:52	26°M28'01		_	4389 Sep 24 09:33	0° <b>M</b> ₅	
min. Earth dist.	4388 Nov 09 16:20	22°M30'47	0.65656 AU	evening max el	4389 Sep 29 08:06	5°M12'31	27°23'09
inferior conj	4388 Nov 11 14:38	20°M16'59	-1°37'23	retrograde	4389 Oct 12 21:28	12°M30'52	
minimum elong	4388 Nov 11 17:22	20°ML09'04	1°36'15	evening set	4389 Oct 19 23:08	9°M51'22	
asc. node	4388 Nov 16 09:58	15°M29'05		min. Earth dist.	4389 Oct 23 16:54	6°ML28'17	0.64185 AU
morning rise	4388 Nov 17 18:45	14°MJ38'22		inferior conj	4389 Oct 26 03:20	3°M54'37	-2°39'33
<i>5</i>				J			

minimum elong	4389 Oct 26 07:52	3°M42'40	2°37'53	retrograde	4390 Sep 25 12:20	25° <b>≙</b> 19'33	
C	4389 Oct 30 06:33	30° <b>ŖΩ</b>		evening set	4390 Oct 02 16:38	22° <b>≙</b> 52'15	
morning rise	4389 Nov 01 17:56	28° <b>♀</b> 30'56		min. Earth dist.	4390 Oct 06 07:28	19° <b>≏</b> 57'36	0.62402 AU
asc. node	4389 Nov 03 07:01	28° <b>≏</b> 03'41		inferior conj	4390 Oct 09 05:07	17° <b>£</b> 14'07	-3°39'53
direct	4389 Nov 04 06:28	27° <b>≏</b> 58'48		minimum elong	4390 Oct 09 10:59	17° <b>≏</b> 00'19	3°38'08
	4389 Nov 09 05:08	0° <b>M</b> .		morning rise	4390 Oct 16 07:02	12° <b>≏</b> 08'32	
morning max el	4389 Nov 10 18:48	1° <b>M</b> 24'14	17°54'07	direct	4390 Oct 18 15:53	11° <b>≏</b> 43'26	
morning set	4389 Nov 27 18:38	27° <b>M</b> 15'43		asc. node	4390 Oct 21 04:05	12° <b>≙</b> 12'26	
	4389 Nov 29 09:16	0° <b>∡</b> 7		morning max el	4390 Oct 25 10:58	15° <b>≙</b> 11'26	17°50'55
desc. node	4389 Dec 10 02:13	17° <b>∡</b> ¹48'59			4390 Nov 04 17:32	0°M	
				morning set	4390 Nov 10 10:33	10°M05'42	
superior conj	4389 Dec 10 20:06	19° <b>∡</b> ′01'32	-0°05'11				
minimum elong	4389 Dec 10 19:30	18° <b>₹</b> 59'07	0°05'06	superior conj	4390 Nov 21 14:53	29°M40'46	0°36'57
behind sun begin	4389 Dec 10 09:51	18° <b>∤</b> 19'59		minimum elong	4390 Nov 21 18:09	29°M54'37	0°36'30
behind sun end	4389 Dec 11 05:09	19° <b>∡</b> ³38'11			4390 Nov 21 19:25	0° <b>∡</b> ¹	
max. Earth dist.	4389 Dec 16 00:56	27° <b>∡</b> ¹21'37	1.44636 AU	desc. node	4390 Nov 26 23:14	8° <b>₰</b> 36'00	
	4389 Dec 17 16:59	0°₹		max. Earth dist.	4390 Nov 28 16:16	11° <b>∡</b> ²23′21	1.43370 AU
evening rise	4389 Dec 26 20:58	14° <b>る</b> 15'31		evening rise	4390 Dec 06 08:12	23° <b>҂</b> ³33′22	
	4390 Jan 06 05:41	0° <b>≈</b>			4390 Dec 10 12:38	0°ප	
evening max el	4390 Jan 23 08:24	23° <b>≈</b> 10'17	20°20'20		4390 Dec 31 11:10	0° <b>≈</b>	
asc. node	4390 Jan 30 06:17	27° <b>≈</b> 43'40		evening max el	4391 Jan 06 06:13	6° <b>≈</b> 44'16	21°30'26
retrograde	4390 Jan 31 06:30	27° <b>≈</b> 49'11		retrograde	4391 Jan 15 04:06	12° <b>≈</b> 01'42	
evening set	4390 Feb 04 02:33	26° <b>≈</b> 23'58		asc. node	4391 Jan 17 03:20	11° <b>≈</b> 40'46	
inferior conj	4390 Feb 09 11:37	20° <b>≈</b> 18′00	2°55'05	evening set	4391 Jan 19 10:17	10° <b>≈</b> 21'12	
minimum elong	4390 Feb 09 09:15	20° <b>≈</b> 26′02	2°54'32	inferior conj	4391 Jan 24 18:29	4° <b>≈</b> 05'01	2°20'57
min. Earth dist.	4390 Feb 10 05:07	19° <b>≈</b> 18'34	0.67376 AU	minimum elong	4391 Jan 24 16:03	4° <b>≈</b> 13'27	2°20'12
morning rise	4390 Feb 14 15:45	14° <b>≈</b> 03'54		min. Earth dist.	4391 Jan 24 23:34	3° <b>≈</b> 47′23	0.67902 AU
direct	4390 Feb 20 08:33	11° <b>≈</b> 31'15			4391 Jan 27 20:46	30°Rる	
morning max el	4390 Mar 03 19:26	18° <b>≈</b> 22'15	24°38'02	morning rise	4391 Jan 29 21:38	27°る52'50	
desc. node	4390 Mar 08 01:27	23° <b>≈</b> 02'41		direct	4391 Feb 03 23:53	25° <b>る</b> 40'18	
	4390 Mar 13 14:28	0° <b>ℋ</b>			4391 Feb 12 09:17	0° <b>≈</b>	
	4390 Apr 02 15:10	$0$ ° $\mathbf{\gamma}$		morning max el	4391 Feb 14 04:30	1° <b>≈</b> 43′24	23°09'00
morning set	4390 Apr 08 19:32	10° <b>Ƴ</b> 33'29		desc. node	4391 Feb 22 22:29	12° <b>≈</b> 03'39	
max. Earth dist.	4390 Apr 12 10:40	17° <b>Ƴ</b> 03'56	1.37368 AU		4391 Mar 07 14:26	0° <b>∀</b>	
				morning set	4391 Mar 20 23:22	21° <b>升</b> 12′15	
superior conj	4390 Apr 19 04:06	29° <b>Ƴ</b> 44'28		max. Earth dist.	4391 Mar 25 05:41	28° <b>∺</b> 27'28	1.39545 AU
minimum elong	4390 Apr 19 08:28	0° <b>8</b> 05'41	1°22'28		4391 Mar 26 02:58	$0^{\circ}\mathbf{\Upsilon}$	
	4390 Apr 19 07:18	$0^{\circ}S$					
evening rise	4390 Apr 27 17:52	16° <b>8</b> 44'54		superior conj	4391 Apr 01 21:58	12° <b>Y</b> 11'44	-1°47'35
asc. node	4390 Apr 28 05:36	17° <b>8</b> 43'17		minimum elong	4391 Apr 02 02:46	12° <b>Ƴ</b> 33'53	1°47'06
	4390 May 04 15:59	$\Pi^{\circ}0$		evening rise	4391 Apr 11 11:04	0° <b>8</b> 18'21	
evening max el	4390 May 14 13:26	14° <b>Ⅱ</b> 03'11	19°17'39		4391 Apr 11 07:15	0° <b>8</b>	
retrograde	4390 May 23 16:56	18° <b>Ⅲ</b> 30'31		asc. node	4391 Apr 15 02:38	7° <b>8</b> 14'43	
evening set	4390 May 25 16:48	18° <b>Ⅱ</b> 18'43		evening max el	4391 Apr 27 15:46	26° <b>8</b> 22'48	18°34'23
inferior conj	4390 Jun 03 04:11	14° <b>Ⅱ</b> 10'16			4391 May 03 14:55	$\Pi^{\circ}0$	
minimum elong	4390 Jun 03 04:49	14° <b>Ⅱ</b> 09'13	0°14'46	retrograde	4391 May 05 10:09	0° <b>Ⅱ</b> 12'12	
transit middle	4390 Jun 03 04:49	14° <b>Ⅱ</b> 09'13	0°14'46		4391 May 07 06:14	30° <b>₹</b> 8	
transit begin	4390 Jun 03 03:20	14° <b>Ⅱ</b> 11'41		evening set	4391 May 07 16:15	29° <b>8</b> 53'57	
transit end	4390 Jun 03 06:18	14° <b>Ⅱ</b> 06'45		inferior conj	4391 May 15 07:37	25° <b>8</b> 26'35	1°48'54
desc. node	4390 Jun 04 00:37	13° <b>II</b> 36'18	0.50000 477	minimum elong	4391 May 15 11:01	25° <b>8</b> 19'59	1°47'51
min. Earth dist.	4390 Jun 05 22:50	12° <b>Ⅱ</b> 20′28	0.56089 AU	min. Earth dist.	4391 May 18 16:52	22° <b>8</b> 50'35	0.57871 AU
morning rise	4390 Jun 11 13:48	9° <b>Ⅱ</b> 24'03		desc. node	4391 May 21 21:40	20° <b>8</b> 44'11	
direct	4390 Jun 16 10:18	8° <b>Ⅱ</b> 29'56	0.501.510.0	morning rise	4391 May 23 02:35	20° <b>8</b> 06'20	
morning max el	4390 Jun 30 14:14	15° <b>Ⅱ</b> 42'34	25~17/32	direct	4391 May 28 21:58	18° <b>8</b> 41'06	26041142
	4390 Jul 12 02:11	0°95		morning max el	4391 Jun 12 06:59	26° <b>8</b> 18'33	26°41'42
asc. node	4390 Jul 25 04:51	23°932'05			4391 Jun 15 18:43	0° <b>Ⅱ</b>	
morning set	4390 Jul 27 07:39	27°957'19			4391 Jul 05 09:36	0°छ	
	4390 Jul 28 06:41	$0$ ° $\Omega$		morning set	4391 Jul 11 17:55	12°5944'31	
superior core	4300 Aug 02 06:12	13° <b>Ω</b> 02'22	1022112	asc. node	4391 Jul 12 01:55	13° <b>©</b> 26'44	
superior conj	4390 Aug 03 06:12			superior con-	1201 Inl 10 17.54	2706257142	100/150
minimum elong	4390 Aug 03 03:56			superior conj	4391 Jul 18 17:54	27°557'42	1°04'50
max. Earth dist.	4390 Aug 04 11:30	15° <b>Ω</b> 42'34	1.32515 AU	minimum elong	4391 Jul 18 15:38	27°545'12	1°04'27
evening rise	4390 Aug 10 08:52	28° <b>Ω</b> 15'33		max. Earth dist.	4391 Jul 18 22:10	28° <b>5</b> 21'19	1.32062 AU
	4200 A 11 05 15	Oo m			4201 I1 10 16 04	00()	
	4390 Aug 11 05:15	0° <b>₽</b>		avaning rise	4391 Jul 19 16:04	0° <b>Ω</b> 12° <b>Ω</b> 54'06	
dasa nada	4390 Aug 28 03:37	0° <b>⊽</b>		evening rise	4391 Jul 25 15:00	12° <b>Ω</b> 54'06	
desc. node	-		27°22'38	evening rise  desc. node			

	4391 Aug 24 14:41	0∘ <b>⊽</b>			4392 Jul 27 00:27	0° <b>m</b> )	
evening max el	4391 Aug 24 21:16		26°48'51	desc. node	4392 Aug 03 17:57	9° <b>m</b> 37'15	
retrograde	4391 Sep 07 19:16	7° <b>£</b> 26'01		evening max el	4392 Aug 05 17:37	11° mp 37'08	25°43'06
evening set	4391 Sep 14 17:00	5° <b>£</b> 23'17		retrograde	4392 Aug 19 16:44	18° <b>m</b> ) 43'37	
min. Earth dist.	4391 Sep 18 11:21	2° <b>Ω</b> 45'55	0.60395 AU	evening set	4392 Aug 25 19:15	17° m) 15'46	
inferior conj	4391 Sep 21 16:38	0° <b>ჲ</b> 07'01		min. Earth dist.	4392 Aug 30 05:41	14° m) 38'39	0.58335 AU
minimum elong	4391 Sep 21 22:24	29° m 55'05		inferior conj	4392 Sep 02 10:12	12° <b>m</b> ) 22'14	
· ·	4391 Sep 21 20:01	30°R <b>™</b>		minimum elong	4392 Sep 02 13:13	12° <b>m</b> ) 16'49	
morning rise	4391 Sep 29 05:46	25° m 22'46		morning rise	4392 Sep 10 09:27	8° mp 01'20	
direct	4391 Oct 01 14:11	25° m 01'40		direct	4392 Sep 12 20:42	7° mp 41'58	
asc. node	4391 Oct 08 01:08	27° mp 49'01		morning max el	4392 Sep 21 05:26	11° Mp 41'15	18°43'14
morning max el	4391 Oct 08 23:38	28° Mp 40'25	18°06'48	asc. node	4392 Sep 23 22:10	14° <b>m</b> 38'19	
	4391 Oct 10 06:07	0∘ <b>⊽</b>			4392 Oct 03 11:51	0∘ <b>⊽</b>	
morning set	4391 Oct 24 18:29	23° <b>≏</b> 41'36		morning set	4392 Oct 07 13:34	7° <b>≙</b> 48'44	
	4391 Oct 28 03:26	0°M					
				superior conj	4392 Oct 16 04:51	24° <b>≏</b> 30'56	1°29'51
superior conj	4391 Nov 03 11:26	11°M35'23	1°08'51	minimum elong	4392 Oct 16 07:54	24° <b>≏</b> 45′20	1°29'35
minimum elong	4391 Nov 03 15:30	11°M53'34	1°08'21		4392 Oct 19 03:32	$0^{\circ}$ M	
max. Earth dist.	4391 Nov 11 03:05	24°M51'57	1.41604 AU	max. Earth dist.	4392 Oct 23 09:10	7° <b>M</b> 37'14	1.39551 AU
desc. node	4391 Nov 13 20:14	29°M22'45		evening rise	4392 Oct 27 09:29	14°M33'02	
	4391 Nov 14 05:19	0° <b>∡</b> 7		desc. node	4392 Oct 30 17:14	20°M05'07	
evening rise	4391 Nov 16 09:44	3° <b>∡</b> ³32'59			4392 Nov 05 22:47	0° <b>∡</b> ¹	
	4391 Dec 03 21:04	0°ರ			4392 Nov 27 19:22	ರ°0	
evening max el	4391 Dec 19 23:10	20° <b>る</b> 20'33	22°48'12	evening max el	4392 Dec 01 12:47	3° <b>る</b> 59'36	24°08'01
retrograde	4391 Dec 29 23:30	26° <b>る</b> 17'10		retrograde	4392 Dec 12 15:32	10° <b>る</b> 31'17	
evening set	4392 Jan 03 17:30	24° <b>る</b> 20'35		evening set	4392 Dec 17 22:37	8° <b>ප</b> 18'51	
asc. node	4392 Jan 04 00:23	24° <b>る</b> 05'51		asc. node	4392 Dec 20 21:25	5° <b>る</b> 11'09	
inferior conj	4392 Jan 09 02:25	17° <b>る</b> 57'39	1°39'06	min. Earth dist.	4392 Dec 22 16:23	2°る51'09	0.67828 AU
minimum elong	4392 Jan 09 00:23	18° <b>る</b> 04'38	1°38'21	inferior conj	4392 Dec 23 09:36	1° <b>る</b> 53'03	0°50'35
min. Earth dist.	4392 Jan 08 20:06	18° <b>る</b> 19'29	0.68048 AU	minimum elong	4392 Dec 23 08:25	1° <b>る</b> 57'01	0°50'07
morning rise	4392 Jan 14 07:10	11° <b>る</b> 48'58			4392 Dec 24 19:36	30°₽ <b>⋌</b> 7	
direct	4392 Jan 18 18:47	9° <b>る</b> 59'20		morning rise	4392 Dec 28 18:16	25° <b>√</b> 49'41	
morning max el	4392 Jan 27 17:37	15° <b>る</b> 12'52	21°42'38	direct	4393 Jan 01 16:11	24° <b>∡</b> ¹22'37	
	4392 Feb 08 15:05	0° <b>≈</b>		morning max el	4393 Jan 09 13:52	28° <b>∡</b> 53'43	20°25'45
desc. node	4392 Feb 09 19:30	1° <b>≈</b> 39'36			4393 Jan 10 15:24	8°0	
morning set	4392 Feb 28 22:24	0° <b>∺</b> 28'59		desc. node	4393 Jan 26 16:31	21° <b>る</b> 40'34	
	4392 Feb 28 15:08	0° <b>∀</b>			4393 Feb 01 05:26	0° <b>≈</b>	
max. Earth dist.	4392 Mar 06 05:14	10° <b>)</b> 42′20	1.41674 AU	morning set	4393 Feb 06 22:34	8° <b>≈</b> 45'59	
				max. Earth dist.	4393 Feb 16 12:12	23° <b>≈</b> 51'43	1.43465 AU
superior conj	4392 Mar 13 20:15	23° <b>)</b> (41'53	-2°04'04		4393 Feb 20 06:54	0° <b>)</b>	
minimum elong	4392 Mar 13 23:21	23° <b>)</b> 55′24	2°03'58				
	4392 Mar 17 09:44	$0^{\circ}\Upsilon$		superior conj	4393 Feb 22 18:11	4° <b>)</b> €04'30	-2°07'23
evening rise	4392 Mar 24 16:08	13° <b>Y</b> 13'44		minimum elong	4393 Feb 22 16:29	3° <b>¥</b> 57′24	2°07'21
asc. node	4392 Mar 31 23:40	26° <b>Y</b> 24′02		evening rise	4393 Mar 07 04:45	25° <b>∺</b> 21'52	
	4392 Apr 03 03:27	$_{0\circ}$ 8			4393 Mar 09 20:18	$0^{\circ}$ Y	
evening max el	4392 Apr 10 00:43	9° <b>8</b> 11'44	18°11'13	asc. node	4393 Mar 18 20:41	15° <b>Y</b> ′04'04	
retrograde	4392 Apr 16 22:00	12° <b>8</b> 40'02		evening max el	4393 Mar 24 12:59	22° <b>Y</b> 21'12	18°07'37
evening set	4392 Apr 19 10:44	12° <b>8</b> 12'32		retrograde	4393 Mar 31 00:26	25° <b>Y</b> 43'44	
inferior conj	4392 Apr 26 08:12	7° <b>8</b> 24'15		evening set	4393 Apr 02 19:14	25° <b>Y</b> 05′24	
minimum elong	4392 Apr 26 11:29	7° <b>8</b> 16'48	2°50'15	inferior conj	4393 Apr 09 02:42	19° <b>Y</b> 57'07	
min. Earth dist.	4392 Apr 29 16:43	4° <b>8</b> 23'46	0.60010 AU	minimum elong	4393 Apr 09 04:30	19° <b>Y</b> 52′28	3°24'10
morning rise	4392 May 03 09:47	1° <b>8</b> 38'12		min. Earth dist.	4393 Apr 12 00:53	16° <b>Y</b> 56'45	0.62173 AU
	4392 May 07 03:22	30°₹ <b>Υ</b>		morning rise	4393 Apr 15 12:14	13° <b>Y</b> 55′21	
desc. node	4392 May 07 18:42	29° <b>Y</b> 51′06		direct	4393 Apr 22 08:31	11° <b>Y</b> 25'55	
direct	4392 May 09 22:01	29° <b>Y</b> 38'14		desc. node	4393 Apr 24 15:44	11° <b>Υ</b> 41'28	
	4392 May 12 18:19	0° <b>8</b>	27025:22	morning max el	4393 May 06 11:14	19° <b>Y</b> 25'18	27°52'14
morning max el	4392 May 24 06:01	7° <b>8</b> 30'21	21~35'32		4393 May 15 11:01	0° <b>∀</b>	
	4392 Jun 10 06:22	0° <b>П</b>			4393 Jun 03 03:48	0°П	
morning set	4392 Jun 25 01:01	27° <b>Ⅱ</b> 20'13		morning set	4393 Jun 09 02:58	11° <b>Ⅱ</b> 38′21	
1	4392 Jun 26 07:30	30e30100 00e		asc. node	4393 Jun 14 19:57	23° <b>∏</b> 37'41	1 22202 477
asc. node	4392 Jun 27 22:55	3°530'00	1 22010 433	max. Earth dist.	4393 Jun 14 18:04	23° <b>Ⅱ</b> 27'36	1.32393 AU
max. Earth dist.	4392 Jul 01 09:41	11° <b>©</b> 00'36	1.32019 AU		4202 I 16 15 05	070T2	0010143
	4202 1 1 02 07 2:	1000 4010 5	0042127	superior conj	4393 Jun 16 15:01	27° <b>Ⅲ</b> 31'15	0°18'42
superior conj	4392 Jul 02 05:24	12°539'06	0°43'27	minimum elong	4393 Jun 16 14:09	27° <b>Ⅱ</b> 26'33	0°18'30
minimum elong	4392 Jul 02 03:37	12°539'16	0°43'05		4393 Jun 17 18:17	0°©	
evening rise	4392 Jul 09 00:54	27° <b>©</b> 41'07		evening rise	4393 Jun 23 12:34	12° <b>©</b> 30'15	
	4392 Jul 10 03:12	$0$ ° $\Omega$			4393 Jul 02 08:32	$0$ ° $\Omega$	

evening max el	4393 Jul 18 07:29	22°Ω16'20	24°14'10	behind sun begin	4394 May 31 16:41	11° <b>Д</b> 35'11	
desc. node	4393 Jul 21 14:58	25° <b>Ω</b> 07'43		behind sun end	4394 Jun 01 01:50	12° <b>Ⅲ</b> 24'00	
retrograde	4393 Aug 01 03:09	29° <b>Ω</b> 14'16		asc. node	4394 Jun 01 16:58	13° <b>∏</b> 44'54	
evening set	4393 Aug 05 21:20	28° <b>£</b> 23'53	0.56501.ATT	evening rise	4394 Jun 08 00:04	27° <b>Ⅱ</b> 14'19	
min. Earth dist.	4393 Aug 11 18:11	25° <b>Ω</b> 28'17			4394 Jun 09 07:40	0ం <b>V</b> 0ంత	
inferior conj	4393 Aug 14 07:36	23° <b>Ω</b> 52'24 23° <b>Ω</b> 56'38		avanina may al	4394 Jun 27 08:47 4394 Jun 29 21:04	0°87 2° <b>Ω</b> 39'12	22026150
minimum elong morning rise	4393 Aug 14 04:54 4393 Aug 22 15:03	23 <b>∂</b> €30 38 19° <b>Ω</b> 52'04	3 08 31	evening max el desc. node	4394 Jul 08 11:59	8°Ω24'42	22 30 38
direct	4393 Aug 25 07:51	19° <b>Ω</b> 32'48		retrograde	4394 Jul 13 01:02	9°Ω12'10	
morning max el	4393 Sep 04 01:16	24° <b>Ω</b> 04'41	19°41'18	evening set	4394 Jul 16 06:53	8° <b>Ω</b> 49'03	
morning max ci	4393 Sep 09 03:11	0°m	17 41 10	min. Earth dist.	4394 Jul 24 04:50	5° <b>Ω</b> 21'02	0.55233 AU
asc. node	4393 Sep 10 19:12	2° <b>m</b> )25'22		inferior conj	4394 Jul 25 10:37	4°Ω38'34	
morning set	4393 Sep 21 16:15	22° <b>m</b> 17'19		minimum elong	4394 Jul 25 02:39	4°Ω49'56	
	4393 Sep 25 11:37	0∘ <b>⊽</b>		morning rise	4394 Aug 03 00:30	0° <b>Ω</b> 48'00	
				direct	4394 Aug 06 01:17	0° <b>Ω</b> 26'51	
superior conj	4393 Sep 29 13:45	8° <b>ჲ</b> 12'00	1°41'04	morning max el	4394 Aug 17 09:12	5° <b>Ω</b> 43'11	21°00'34
minimum elong	4393 Sep 29 15:11	8° <b>≏</b> 19'06	1°41'00	asc. node	4394 Aug 28 16:13	20° <b>Ω</b> 56'43	
max. Earth dist.	4393 Oct 05 13:41	19° <b>≏</b> 44'05	1.37471 AU		4394 Sep 02 12:56	0° <b>m</b>	
evening rise	4393 Oct 09 07:55	26° <b>≏</b> 35'31		morning set	4394 Sep 05 23:55	7° <b>m</b> 00'01	
	4393 Oct 11 06:17	0°M			•		
desc. node	4393 Oct 17 14:15	10°M39'08		superior conj	4394 Sep 13 09:37	22° <b>m</b> 25'12	1°44'00
	4393 Oct 30 10:49	0° <b>∡</b> ¹		minimum elong	4394 Sep 13 09:30	22° <b>m</b> 24'34	1°44'00
evening max el	4393 Nov 14 01:07	17° <b>∡</b> ′41'34	25°23'11		4394 Sep 17 03:21	0∘ <b>ত</b>	
retrograde	4393 Nov 26 03:16	24° <b>₹</b> 39'34		max. Earth dist.	4394 Sep 17 22:35	1° <b>≏</b> 35'19	1.35597 AU
evening set	4393 Dec 02 00:02	22° <b>҂</b> 13'01		evening rise	4394 Sep 22 01:32	9° <b>≏</b> 31'36	
min. Earth dist.	4393 Dec 06 10:11	17° <b>∡</b> 19'39	0.67256 AU		4394 Oct 03 20:18	$0^{\circ}$ M	
inferior conj	4393 Dec 07 14:16	15° <b>∡</b> ⁴48'56	-0°03'34	desc. node	4394 Oct 04 11:17	0°M59'48	
minimum elong	4393 Dec 07 14:21	15° <b>∡</b> ⁴48'39	0°03'30		4394 Oct 26 04:10	0° <b>∡</b>	
transit middle	4393 Dec 07 14:21	15° <b>≯</b> 48'39	0°03'30	evening max el	4394 Oct 27 13:43	1° <b>≯</b> 23'27	26°26'19
transit begin	4393 Dec 07 11:38	15° <b>₹</b> 57'28		retrograde	4394 Nov 09 09:58	8° <b>∡</b> ³36'15	
transit end	4393 Dec 07 17:05	15° <b>₹</b> 39'50		evening set	4394 Nov 15 19:54	5° <b>₹</b> 59'28	
asc. node	4393 Dec 07 18:26	15° <b>₹</b> 35'27		min. Earth dist.	4394 Nov 19 23:10	1° <b>∡</b> ¹41'27	0.66335 AU
morning rise	4393 Dec 13 04:59	9° <b>₹</b> 52'55			4394 Nov 21 08:41	30°₽M	
direct	4393 Dec 16 14:48	8° 🗷 45'56	10000107	inferior conj	4394 Nov 21 14:34	29°M42'07	
morning max el	4393 Dec 23 18:02	12° <b>₹</b> 45'24	19°22'27	minimum elong	4394 Nov 21 16:16	29°M36'58	1°01'27
1 '11'	4394 Jan 05 16:46	0°る	0.7	asc. node	4394 Nov 24 15:28	26°M15'09	
greatest brilliancy	4394 Jan 06 01:26	0°る32'29	-0.7m	morning rise	4394 Nov 27 13:16	23°M56'06	
desc. node	4394 Jan 13 13:31	11°る59'40 17°る07'30		direct	4394 Nov 30 13:03	23°M05'35	10024155
morning set	4394 Jan 16 21:13	0°≈		morning max el	4394 Dec 07 04:55	26°M44'17 0°⊀	18-34-33
max. Earth dist.	4394 Jan 25 03:51 4394 Jan 30 01:37		1.44710 AU	morning set	4394 Dec 10 02:06 4394 Dec 27 17:47	0 <b>x</b> . 26° <b>x</b> 40'03	
max. Earth dist.	4394 Jan 30 01.37	/ 24241	1.44/10 AU	morning set	4394 Dec 27 17.47 4394 Dec 29 20:10	20 x 4003	
superior conj	4394 Feb 02 14:43	13° <b>≈</b> 20'18	-1°52'24	desc. node	4394 Dec 31 10:33	2°る32'03	
minimum elong	4394 Feb 02 07:03	12° <b>≈</b> 49'47		dese. Hode	45)4 <b>DCC</b> 51 10.55	2 032 03	
minimum ciong	4394 Feb 12 21:26	0° <b>∀</b>	1 3131	superior conj	4395 Jan 12 18:49	21° <b>る</b> 57'46	-1°18'17
evening rise	4394 Feb 16 20:36	6° <b>)</b> 34'16		minimum elong	4395 Jan 12 09:54	21° <b>る</b> 22'48	
	4394 Mar 03 10:06	0°Υ		max. Earth dist.	4395 Jan 12 19:35	22° <b>る</b> 00'46	1.45268 AU
asc. node	4394 Mar 05 17:43	3° <b>Y</b> 05'02			4395 Jan 17 21:42	0° <b>≈</b>	
evening max el	4394 Mar 08 01:33	5° <b>Y</b> 42′50	18°22'51	evening rise	4395 Jan 28 13:14	16° <b>≈</b> 50'07	
retrograde	4394 Mar 14 12:44	9° <b>Y</b> 12'54			4395 Feb 05 19:52	0° <b>)</b>	
evening set	4394 Mar 17 13:33	8° <b>Y</b> 22'35		greatest brilliancy	4395 Feb 06 05:58	0° <b>)</b> 39'49	-0.8m
inferior conj	4394 Mar 23 10:55	2° <b>Y</b> 55'46	3°35'22	evening max el	4395 Feb 19 12:00	19° <b>∺</b> 11'50	18°55'54
minimum elong	4394 Mar 23 11:00	2° <b>Y</b> 55'29	3°35'22	asc. node	4395 Feb 20 14:46	20° <b>∺</b> 16′01	
min. Earth dist.	4394 Mar 25 18:25	0° <b>Ƴ</b> 16′21	0.64124 AU	retrograde	4395 Feb 26 07:08	23° <b>₭</b> 00'56	
	4394 Mar 26 00:18	30° <b>₹</b> ₩		evening set	4395 Mar 01 14:33	21° <b>¥</b> 57'42	
morning rise	4394 Mar 29 07:39	26° <b>)</b> 45′59		inferior conj	4395 Mar 07 05:07	16° <b>)</b> 13′57	3°29'28
direct	4394 Apr 05 03:27	23° <b>¥</b> 59′03		minimum elong	4395 Mar 07 03:51	16° <b>¥</b> 17'54	
desc. node	4394 Apr 11 12:45	25° <b>¥</b> 59′25		min. Earth dist.	4395 Mar 08 21:01	14° <b>₩</b> 09'10	0.65723 AU
	4394 Apr 16 19:37	0° <b>Υ</b>		morning rise	4395 Mar 12 16:45	10° <b>米</b> 00'45	
morning max el	4394 Apr 18 20:06	1° <b>Y</b> 56'13	27°32'07	direct	4395 Mar 19 05:19	7° <b> ★</b> 10'26	
	4394 May 09 16:23	0° <b>8</b>		desc. node	4395 Mar 29 09:48	12° <b>)</b> 11′54	
morning set	4394 May 23 21:13	25° <b>8</b> 29'53		morning max el	4395 Apr 01 05:59	14° <b>)</b> € 52'36	26°40'43
- ·	4394 May 26 03:15	0°П	1.00001 :==		4395 Apr 13 14:49	0° <b>Υ</b>	
max. Earth dist.	4394 May 28 19:09	5° <b>Ⅱ</b> 28′28	1.33204 AU		4395 May 02 10:37	0°8	
	4204 M 21 20 40	11017 57112	0000147	morning set	4395 May 07 04:28	8° <b>8</b> 45'08	1 24404 + 11
superior conj	4394 May 31 20:49	11° <b>П</b> 57'13 11° <b>П</b> 59'35		max. Earth dist.	4395 May 11 09:44	16° <b>8</b> 57'26	1.34484 AU
minimum elong	4394 May 31 21:16	11 ДЗУЗЗ	0 0041				

superior conj	4395 May 15 20:38	26° <b>8</b> 00'41	0°37'51	superior conj	4396 Apr 28 11:44	9° <b>8</b> 34'10	1007'05
minimum elong	4395 May 15 22:40	26° <b>8</b> 11'10		minimum elong	4396 Apr 28 15:21	9° <b>8</b> 52'14	1°06'27
minimum ciong	•	0° <b>I</b>	0 3/2/	asc. node	4396 May 05 11:06	23° <b>8</b> 42'20	1 0027
1-	4395 May 17 18:36	0 <u>П</u> 3° <b>П</b> 47'48			,		
asc. node	4395 May 19 14:01			evening rise	4396 May 06 14:53	26° <b>8</b> 03'34	
evening rise	4395 May 23 09:33	11° <b>Ⅱ</b> 47'31			4396 May 08 13:53	0°П	10051120
	4395 Jun 01 21:09	0.20	21000110	evening max el	4396 May 24 03:33	24° <b>∏</b> 35'26	19°51'39
evening max el	4395 Jun 11 18:20	13°5518'41	21°06'19	retrograde	4396 Jun 03 05:59	29° <b>Ⅲ</b> 31'02	
retrograde	4395 Jun 23 14:00	19° <b>©</b> 06'52		evening set	4396 Jun 05 04:33	29° <b>Ⅱ</b> 20'55	
desc. node	4395 Jun 25 09:02	18° <b>©</b> 59'20		desc. node	4396 Jun 11 06:03	27° <b>∏</b> 00′25	
evening set	4395 Jun 25 19:30	18° <b>©</b> 55'16		inferior conj	4396 Jun 14 02:20	25° <b>∏</b> 19'42	
inferior conj	4395 Jul 05 04:05	14°957'27		minimum elong	4396 Jun 13 23:59	25° <b>Ⅲ</b> 23'17	0°49'54
minimum elong	4395 Jul 04 20:31	15° <b>©</b> 08'05	2°46'58	min. Earth dist.	4396 Jun 16 04:32	24° <b>∏</b> 03'04	0.55366 AU
min. Earth dist.	4395 Jul 05 15:50	14° <b>©</b> 40'55	0.54819 AU	morning rise	4396 Jun 22 17:25	20° <b>∏</b> 54'22	
morning rise	4395 Jul 13 21:46	10°ഇ58'58		direct	4396 Jun 27 00:45	20° <b>Ⅱ</b> 13'39	
direct	4395 Jul 17 10:44	10° <b>©</b> 31'56		morning max el	4396 Jul 10 20:41	27° <b>Ⅱ</b> 04'41	24°20'39
morning max el	4395 Jul 30 06:06	16° <b>©</b> 37'57	22°36'57		4396 Jul 13 16:59	0	
	4395 Aug 09 19:20	$0^{\circ}\Omega$		asc. node	4396 Aug 01 10:20	29° <b>©</b> 31'40	
asc. node	4395 Aug 15 13:16	10° <b>Ω</b> 01'43			4396 Aug 01 15:58	$0 {\circ} \Omega$	
morning set	4395 Aug 21 10:30	21° <b>Ω</b> 50'58		morning set	4396 Aug 04 22:18	6° <b>Ω</b> 45'12	
	4395 Aug 25 06:26	O° Mp					
				superior conj	4396 Aug 11 21:21	21° <b>Ω</b> 49'01	1°30'12
superior conj	4395 Aug 28 13:02	7° Mp 00'12	1°40'00	minimum elong	4396 Aug 11 19:17	21° <b>Ω</b> 37'47	1°29'59
minimum elong	4395 Aug 28 11:42	6° M 53′10	1°39'56	max. Earth dist.	4396 Aug 13 18:28	25° <b>Ω</b> 53'03	1.32963 AU
max. Earth dist.	4395 Aug 31 16:09	13° <b>m</b> 34'59	1.34077 AU		4396 Aug 15 16:44	0° <b>m</b> y	
evening rise	4395 Sep 05 09:56	23°M 09'27		evening rise	4396 Aug 19 05:14	7° Mp 18′28	
•	4395 Sep 08 23:48	0∘ <b>ত</b>		•	4396 Aug 31 11:43	0∘ <b>ರ</b>	
desc. node	4395 Sep 21 08:19	21° <b>ഫ</b> 00'19		desc. node	4396 Sep 07 05:21	10° <b>≏</b> 32'18	
	4395 Sep 27 12:07	0°M₊		evening max el	4396 Sep 21 13:33	28° <b>≏</b> 06'34	27°26'48
evening max el	4395 Oct 10 02:26	14°M55'54	27°09'49	<i>8</i>	4396 Sep 23 16:08	0°M₊	
retrograde	4395 Oct 23 10:47	22°M13'24		retrograde	4396 Oct 05 05:18	5°M23'01	
evening set	4395 Oct 30 07:54	19°M32'34		evening set	4396 Oct 12 09:12	2°M47'14	
min. Earth dist.	4395 Nov 03 04:55	15°M50'00	0.65070 AU	evening sec	4396 Oct 15 15:53	30°R <b>Ω</b>	
inferior conj	4395 Nov 05 08:15	13°M27'07		min. Earth dist.	4396 Oct 16 01:16	29° <b>₽</b> 37'22	0.63470 AU
minimum elong	4395 Nov 05 11:46	13°ML17'19	2°02'20	inferior conj	4396 Oct 18 16:43	26° <b>⊆</b> 58'14	
morning rise	4395 Nov 11 16:38	7°M54'09	2 02 20	minimum elong	4396 Oct 18 10:45 4396 Oct 18 21:55	26° <b>£</b> 45'09	3°03'50
asc. node	4395 Nov 11 10:38 4395 Nov 11 12:31	7°M59'07		_	4396 Oct 18 21:33 4396 Oct 25 12:03	20 <b>⊆</b> 43 09 21° <b>⊆</b> 41'50	3 03 30
				morning rise			
direct	4395 Nov 14 08:38	7°M16'17	10004102	direct	4396 Oct 27 22:48	21° <b>£</b> 12'58	
morning max el	4395 Nov 20 20:09	10°M43'52	18°04'02	asc. node	4396 Oct 28 09:33	21° <b>Ω</b> 13'57	17050120
	4395 Dec 04 04:27	0° ⊀ <b>7</b>		morning max el	4396 Nov 03 12:54	24° <b>£</b> 38'04	17°50'30
morning set	4395 Dec 08 19:56	7°×741'13			4396 Nov 07 22:07	0°M	
desc. node	4395 Dec 18 07:35	23°×12'50		morning set	4396 Nov 19 23:56	19° <b>M</b> 57'13	
	4395 Dec 22 13:14	0°ප			4396 Nov 25 19:41	0° <b>∡</b> 7	
	4205 D 22 01 20	00740110	0022121		4206 D 02 05 00	100 7 42150	0012146
superior conj	4395 Dec 23 01:38	0° <b>る</b> 49'18		superior conj	4396 Dec 02 05:09	10° 🗷 43'50	0°13'46
minimum elong	4395 Dec 22 21:37	0°る33'19		minimum elong	4396 Dec 02 06:35	10° <b>₹</b> 49'48	0°13'35
max. Earth dist.	4395 Dec 26 15:16	6° <b>る</b> 27'59	1.45081 AU	behind sun begin	4396 Dec 02 01:23	10° <b>₹</b> 28'18	
evening rise	4396 Jan 08 09:14	26° <b>ප</b> 19'34		behind sun end	4396 Dec 02 11:48	11° <b>√</b> 11'16	
	4396 Jan 10 18:20	0°≈	0.7	desc. node	4396 Dec 04 04:37	13° 🗷 58'37	1 44170 411
greatest brilliancy	4396 Jan 21 20:21	16°≈53'53	-0./m	max. Earth dist.	4396 Dec 08 09:11	20° <b>∡</b> ¹44'43	1.44178 AU
	4396 Jan 31 07:47	0° <b>)</b> (			4396 Dec 14 05:52	0°る	
evening max el	4396 Feb 02 18:19	2° <b>)</b> (43'45	19°45'20	evening rise	4396 Dec 17 19:07	5° <b>පි</b> 30'18	
asc. node	4396 Feb 07 11:49	6° <b>∺</b> 22'56			4397 Jan 03 04:13	0° <b>≈</b>	
retrograde	4396 Feb 10 04:37	7° <b>米</b> 01'55		evening max el	4397 Jan 15 19:13	16° <b>≈</b> 16'34	20°48'50
evening set	4396 Feb 13 19:44	5° <b>)</b> 44′50		retrograde	4397 Jan 24 02:49	21° <b>≈</b> 11'24	
inferior conj	4396 Feb 19 06:10	29° <b>≈</b> 46′09	3°10'39	asc. node	4397 Jan 24 08:51	21° <b>≈</b> 11′03	
minimum elong	4396 Feb 19 04:03	29° <b>≈</b> 53'10	3°10'15	evening set	4397 Jan 28 03:03	19° <b>≈</b> 39'33	
	4396 Feb 19 01:59	30° <b>R</b> ≈		inferior conj	4397 Feb 02 11:31	13° <b>≈</b> 28′38	2°41'35
min. Earth dist.	4396 Feb 20 07:20	28° <b>≈</b> 22'36	0.66900 AU	minimum elong	4397 Feb 02 09:04	13° <b>≈</b> 37′03	2°40'56
morning rise	4396 Feb 24 12:09	23° <b>≈</b> 32′03		min. Earth dist.	4397 Feb 02 23:29	12° <b>≈</b> 47'31	0.67652 AU
direct	4396 Mar 01 12:55	20° <b>≈</b> 50′33		morning rise	4397 Feb 07 14:55	7° <b>≈</b> 15'16	
morning max el	4396 Mar 13 15:10	28° <b>≈</b> 03'33	25°26'48	direct	4397 Feb 13 01:31	4° <b>≈</b> 50'57	
desc. node	4396 Mar 15 06:50	29° <b>≈</b> 47′22		morning max el	4397 Feb 23 23:50	11° <b>≈</b> 22′05	24°00'22
	4396 Mar 15 11:29	0° <b>∀</b>		desc. node	4397 Mar 02 03:52	18° <b>≈</b> 22'09	
	4396 Apr 06 08:20	$0^{\circ}\mathbf{\Upsilon}$			4397 Mar 10 20:45	0° <b>)</b> €	
morning set	4396 Apr 18 20:18	21° <b>Y</b> 11'43			4397 Mar 30 02:56	$0^{\circ}\Upsilon$	
max. Earth dist.	4396 Apr 22 13:14	28° <b>Y</b> 02'49	1.36214 AU	morning set	4397 Mar 31 15:03	2° <b>Y</b> 34'27	
	4396 Apr 23 13:58	$9^{\circ}$ 8		max. Earth dist.	4397 Apr 04 09:32	9° <b>Y</b> 10'51	1.38283 AU
	•				•		

superior conj	4397 Apr 11 14:34	22° <b>Ƴ</b> 28'17	-1°34'11	superior conj	4398 Mar 25 00:43	4° <b>Ƴ</b> 32'38	-1°55'50
minimum elong	4397 Apr 11 19:18	22° <b>Y</b> 50'49	1°33'35	minimum elong	4398 Mar 25 05:08	4° <b>Ƴ</b> 52'34	1°55'31
	4397 Apr 15 12:16	$B_{\circ 0}$		evening rise	4398 Apr 04 02:00	23° <b>Ƴ</b> 13'33	
evening rise	4397 Apr 20 13:26	9° <b>8</b> 54'57			4398 Apr 07 16:48	$8^{\circ}$ 0	
asc. node	4397 Apr 22 08:09	13° <b>8</b> 23'36		asc. node	4398 Apr 09 05:11	2° <b>8</b> 46'36	
	4397 May 01 17:42	0°П		evening max el	4398 Apr 20 05:56	19° <b>8</b> 06'28	18°22'07
evening max el	4397 May 07 00:20	6° <b>∏</b> 33'05	18°56'42	retrograde	4398 Apr 27 14:02	22° <b>8</b> 45'02	10 22 07
retrograde	4397 May 15 12:35	10° <b>∏</b> 42'51	10 30 42	evening set	4398 Apr 29 22:53	22° <b>8</b> 23'16	
	•	10 <b>∏</b> 4231 10° <b>∏</b> 28'49		-	•		2°19'02
evening set	4397 May 17 14:42		0050125	inferior conj	4398 May 07 06:15	17° <b>8</b> 47'17	
inferior conj	4397 May 25 17:31	6° <b>Ⅱ</b> 12'33	0°58'37	minimum elong	4398 May 07 09:52	17° <b>8</b> 39'47	2°18'04
minimum elong	4397 May 25 19:44	6° <b>Ⅱ</b> 08'37	0°57'50	min. Earth dist.	4398 May 10 16:51	14° <b>8</b> 57'31	0.58753 AU
min. Earth dist.	4397 May 28 20:20	4° <b>Ⅱ</b> 01'02	0.56773 AU	morning rise	4398 May 14 17:49	12° <b>8</b> 14'25	
desc. node	4397 May 29 03:05	3° <b>Ⅱ</b> 49'39		desc. node	4398 May 16 00:06	11° <b>8</b> 37'44	
morning rise	4397 Jun 02 21:30	1° <b>Ⅱ</b> 11'01		direct	4398 May 20 21:18	10° <b>8</b> 34'07	
direct	4397 Jun 08 03:45	0° <b>Ⅱ</b> 04'59		morning max el	4398 Jun 04 06:45	18° <b>8</b> 19'50	27°08'52
morning max el	4397 Jun 22 11:20	7° <b>Ⅱ</b> 29'47	25°56'31		4398 Jun 14 01:21	$\Pi^{\circ}0$	
	4397 Jul 09 03:48	0°€			4398 Jul 01 16:49	0ം <b>ഇ</b>	
asc. node	4397 Jul 19 07:23	19° <b>©</b> 18'41		morning set	4398 Jul 04 18:40	6°©18'53	
morning set	4397 Jul 20 09:34	21° <b>©</b> 36'11		asc. node	4398 Jul 06 04:25	9°9517'25	
	4397 Jul 24 06:57	$0^{\circ}\Omega$					
	43)/ Jul 24 00.3/	0 00		superior conj	4398 Jul 11 20:08	21° <b>©</b> 37'33	0°56'14
	4207 I-1 27 00.10	CO O 42125	1015122				
superior conj	4397 Jul 27 08:19	6° <b>Ω</b> 43'25		minimum elong	4398 Jul 11 18:01	21°525'53	0°55'49
minimum elong	4397 Jul 27 06:00	6° <b>Ω</b> 30'37		max. Earth dist.	4398 Jul 11 14:11	21° <b>©</b> 04'43	1.31989 AU
max. Earth dist.	4397 Jul 28 02:54	8° <b>Ω</b> 25'37	1.32266 AU		4398 Jul 15 15:29	$0$ $\circ$ $\Omega$	
evening rise	4397 Aug 03 08:07	21° <b>Ω</b> 47'56		evening rise	4398 Jul 18 16:05	6° <b>Ω</b> 30'23	
	4397 Aug 07 09:24	0° <b>m</b>			4398 Jul 30 23:24	0° <b>m</b> )	
desc. node	4397 Aug 25 02:22	29° Mp 22'54		desc. node	4398 Aug 11 23:23	17° <b>m</b> ) 15'21	
	4397 Aug 25 13:25	0∘ <b>⊽</b>		evening max el	4398 Aug 16 21:15	22° <b>m</b> 30'37	26°24'25
evening max el	4397 Sep 03 20:36	10° <b>≏</b> 41'26	27°12'17	retrograde	4398 Aug 30 20:26	29° <b>m</b> 40'10	
retrograde	4397 Sep 17 16:57	17° <b>£</b> 54'47		evening set	4398 Sep 06 11:29	27° m 51'16	
evening set	4397 Sep 24 19:59	15° <b>≏</b> 36'00		min. Earth dist.	4398 Sep 10 10:39	25° m/16'10	0.59505 AU
min. Earth dist.	4397 Sep 28 11:01	12° <b>£</b> 50'50	0.61571 AU	inferior conj	4398 Sep 13 17:00	22° m/ 44'18	
inferior conj	4397 Oct 01 12:47	10° <b>Ω</b> 06'59		minimum elong	4398 Sep 13 22:00	22° m/34'33	4°49'17
minimum elong	4397 Oct 01 18:52	9° <b>£</b> 53'26		morning rise	4398 Sep 21 10:41	18° <b>m</b> ) 10'03	1 15 17
		5° <b>£</b> 10′28	4 01 39	direct	*		
morning rise	4397 Oct 08 19:36				4398 Sep 23 19:42	17° Mp 50'06	10010144
direct	4397 Oct 11 03:52	4° <b>£</b> 47'26		morning max el	4398 Oct 01 14:12	21° My 36'35	18°19'44
asc. node	4397 Oct 15 06:35	6° <b>Ω</b> 01'11		asc. node	4398 Oct 02 03:37	22° m, 09'59	
morning max el	4397 Oct 18 04:02	8° <b>≙</b> 18'40	17°55'18		4398 Oct 08 01:40	0∘ <b>⊽</b>	
	4397 Nov 01 05:58	0° <b>M</b> ₊		morning set	4398 Oct 17 12:27	16° <b>≏</b> 58'13	
morning set	4397 Nov 02 23:18	3°M08'15			4398 Oct 24 09:27	0°M₊	
superior conj	4397 Nov 13 11:21	21°M56'36	0°51'50	superior conj	4398 Oct 26 17:25	4° <b>ጤ</b> 18'38	1°19'03
minimum elong	4397 Nov 13 15:16	22°M13'34	0°51'18	minimum elong	4398 Oct 26 21:11	4°M35'54	1°18'38
	4397 Nov 18 04:44	0° <b>∡</b> ¹		max. Earth dist.	4398 Nov 03 06:35	17° <b>M</b> .41'15	1.40746 AU
max. Earth dist.	4397 Nov 20 22:34	4° <b>∡</b> ³33'13	1.42668 AU	evening rise	4398 Nov 07 21:16	25°M25'26	
desc. node	4397 Nov 21 01:39	4° <b>∡</b> ¹45'52		desc. node	4398 Nov 07 22:39	25°MJ31'05	
evening rise	4397 Nov 27 10:48	15° <b>∡</b> *01'33			4398 Nov 10 16:54	0° <b>∡</b> ¹	
	4397 Dec 07 05:25	0°る			4398 Dec 01 00:30	0°ಕ	
evening max el	4397 Dec 07 03:23 4397 Dec 29 14:40	00 29° <b>る</b> 50'42	22°02'50	evening max el	4398 Dec 12 05:53	13° <b>る</b> 27'47	23°22'22
evening max er	4397 Dec 29 18:21	0°≈	22 02 30	•	4398 Dec 22 17:57	19°る40'37	23 22 22
				retrograde			
retrograde	4398 Jan 07 23:47	5°≈25'36		evening set	4398 Dec 27 17:16	17°る37'26	
asc. node	4398 Jan 11 05:52	4° <b>≈</b> 29'04		asc. node	4398 Dec 29 02:53	16° <b>ට</b> 17'12	
evening set	4398 Jan 12 10:46	3° <b>≈</b> 38'16		min. Earth dist.	4399 Jan 01 15:58	11° <b>ろ</b> 50'09	0.67993 AU
	4398 Jan 15 19:31	30°Ŗる		inferior conj	4399 Jan 02 02:53	11° <b>る</b> 12'40	1°19'16
inferior conj	4398 Jan 17 19:04	27° <b>る</b> 18'28	2°04'04	minimum elong	4399 Jan 02 01:11	11° <b>る</b> 18'33	1°18'37
minimum elong	4398 Jan 17 16:45	27° <b>る</b> 26'30	2°03'17	morning rise	4399 Jan 07 09:01	5° <b>る</b> 05'44	
min. Earth dist.	4398 Jan 17 19:10	27° <b>る</b> 18'08	0.68005 AU	direct	4399 Jan 11 14:38	3° <b>ප</b> 25'47	
morning rise	4398 Jan 22 22:36	21° <b>る</b> 07'25		morning max el	4399 Jan 20 02:06	8° <b>る</b> 20'29	21°08'22
direct	4398 Jan 27 18:26	19° <b>ට</b> 04'41		desc. node	4399 Feb 03 21:53	27° <b>පි</b> 26'49	
morning max el	4398 Feb 06 10:20	24° <b>⋜</b> 46'54	22°31'27		4399 Feb 05 16:03	0° <b>≈</b>	
<i>S</i> -	4398 Feb 11 02:25	0° <b>≈</b>		morning set	4399 Feb 19 18:28	21° <b>≈</b> 24'20	
desc. node	4398 Feb 17 00:53	7° <b>≈</b> 39'24			4399 Feb 25 03:58	0° <b>∀</b>	
	4398 Mar 04 08:04	0° <b>)</b> €		max. Earth dist.	4399 Feb 27 07:38	3° <b>∺</b> 29'58	1.42491 AU
morning set	4398 Mar 12 06:54	12° <b>)</b> 38′56		max. Latui uist.	1577100 21 01.30	J N 49 30	1.72 <b>7</b> /1 AU
•			1 40467 411	aumoriar cari	4200 Mar 06 12:06	150¥24150	2007127
max. Earth dist.	4398 Mar 17 05:38	20° <b>¥</b> 53'38 0° <b>Ƴ</b>	1.40467 AU	superior conj	4399 Mar 06 13:06	15° <b>)</b> 34'50	
	4398 Mar 22 11:42	O.A.		minimum elong	4399 Mar 06 14:31	15° <b>)</b> 40′55	2-07-25
					4399 Mar 14 18:46	0° <b>Ƴ</b>	

evening rise	4399 Mar 18 00:34	5° <b>Ƴ</b> 49'19			4400 Feb 17 18:22	0° <b>)</b> €	
asc. node	4399 Mar 27 02:12	21° <b>Υ</b> 44'12		evening rise	4400 Feb 28 04:49	17° <b>)</b> 34'20	
use. Houe	4399 Apr 01 19:06	0°8		evening rise	4400 Mar 06 11:46	0°Υ	
evening max el	4399 Apr 03 16:44	2° <b>8</b> 05'16	18°07'24	asc. node	4400 Mar 12 23:13	10° <b>Y</b> 08'40	
retrograde	4399 Apr 10 08:27	5° <b>8</b> 28'59		evening max el	4400 Mar 17 05:31	15° <b>Y</b> 20'51	18°11'50
evening set	4399 Apr 12 23:54	4° <b>8</b> 57'01		retrograde	4400 Mar 23 15:33	18° <b>Y</b> 44'43	
inferior conj	4399 Apr 19 14:55	0° <b>8</b> 00'21	3°08'14	evening set	4400 Mar 26 13:02	18° <b>Ƴ</b> 01'12	
minimum elong	4399 Apr 19 17:40	29° <b>Y</b> 53'46	3°07'46	inferior conj	4400 Apr 01 15:45	12° <b>Ƴ</b> 44'44	3°31'24
	4399 Apr 19 15:04	30° <b>₹</b> Υ		minimum elong	4400 Apr 01 16:48	12° <b>Y</b> 41'51	3°31'19
min. Earth dist.	4399 Apr 22 20:02	26° <b>Y</b> 56'51	0.60949 AU	min. Earth dist.	4400 Apr 04 07:55	9° <b>Ƴ</b> 51'24	0.63050 AU
morning rise	4399 Apr 26 09:23	24° <b>Y</b> 06'41		morning rise	4400 Apr 07 19:26	6° <b>Ƴ</b> 39'05	
desc. node	4399 May 02 21:07	21° <b>Y</b> 52'49		direct	4400 Apr 14 16:33	4° <b>Ƴ</b> 00'42	
direct	4399 May 03 02:25	21° <b>Y</b> 52'41		desc. node	4400 Apr 18 18:08	4° <b>Ƴ</b> 49'26	
morning max el	4399 May 17 08:21	29° <b>Y</b> 48'51	27°47'11	morning max el	4400 Apr 28 15:17	11° <b>Y</b> 59'23	27°47'53
	4399 May 17 12:49	$9^{\circ}$ 8			4400 May 12 22:02	$9^{\circ}$ 8	
	4399 Jun 08 01:16	$\Pi$ °0			4400 May 30 11:10	$\Pi$ $^{\circ}0$	
morning set	4399 Jun 18 23:49	20° <b>∏</b> 47′23		morning set	4400 Jun 01 22:49	4° <b>∏</b> 54'47	
asc. node	4399 Jun 23 01:28	29° <b>Ⅱ</b> 22'55		max. Earth dist.	4400 Jun 07 06:30	15° <b>Ⅱ</b> 56′29	1.32687 AU
	4399 Jun 23 08:20	0°€		asc. node	4400 Jun 08 22:30	19° <b>∏</b> 30'44	
max. Earth dist.	4399 Jun 25 00:40	3° <b>©</b> 39'04	1.32124 AU				
				superior conj	4400 Jun 09 15:18	21° <b>Ⅱ</b> 01'22	
superior conj	4399 Jun 26 07:03	6° <b>©</b> 25'32	0°33'20	minimum elong	4400 Jun 09 14:57	20° <b>Ⅲ</b> 59'27	0°07'15
minimum elong	4399 Jun 26 05:37	6°5517'36	0°33'01	behind sun begin	4400 Jun 09 10:14	20° <b>Ⅲ</b> 33'59	
evening rise	4399 Jul 03 02:57	21° <b>©</b> 18'50		behind sun end	4400 Jun 09 19:40	21° <b>Ⅱ</b> 24'56	
	4399 Jul 07 07:45	0° <b>N</b>			4400 Jun 13 18:33	0°99	
	4399 Jul 26 05:33	0°Mp 3°M>33145	25907127	evening rise	4400 Jun 16 14:48	6°≌06'37 0° <b>Ω</b>	
evening max el desc. node	4399 Jul 29 14:39 4399 Jul 29 20:23	3° Mp 32'45	25°07'26	avanina may al	4400 Jun 29 06:16 4400 Jul 10 03:33	0°37 14° <b>Ω</b> 01'10	22922152
retrograde	4399 Jul 29 20:23 4399 Aug 12 13:27	3° m/46'23 10° m/36'23		evening max el desc. node	4400 Jul 10 03:33 4400 Jul 15 17:25	14° <b>∂</b> 201′10 18° <b>Ω</b> 24'31	23-32-33
evening set	4399 Aug 12 13.27 4399 Aug 18 03:20	9° Mp 25'15		retrograde	4400 Jul 23 18:00	20°Ω50'20	
min. Earth dist.	4399 Aug 18 03:20 4399 Aug 23 02:19	6° Mp 42'05	0.57502 AU	evening set	4400 Jul 27 20:34	20° <b>Ω</b> 13'21	
inferior conj	4399 Aug 26 02:10	4° Mp 41'14		min. Earth dist.	4400 Aug 03 13:21		0.55873 AU
minimum elong	4399 Aug 26 03:01	4°M)39'47		inferior conj	4400 Aug 05 15:10	15° <b>Ω</b> 51'37	
morning rise	4399 Sep 03 05:04	0° Mp 29′24	3 12 32	minimum elong	4400 Aug 05 09:50	15° <b>Ω</b> 59'37	
direct	4399 Sep 05 18:21	0° Mp 10'15		morning rise	4400 Aug 14 01:32	11° <b>Ω</b> 57'19	1 33 27
morning max el	4399 Sep 14 16:03	4° m) 22'22	19°05'15	direct	4400 Aug 16 21:43	11° <b>Ω</b> 37'21	
asc. node	4399 Sep 19 00:40	9° m/25'32		morning max el	4400 Aug 27 06:49	16°Ω26'35	20°12'37
	4399 Sep 30 19:50	0∘ <u>⊽</u>		asc. node	4400 Sep 04 21:43	27° <b>Ω</b> 32'50	
morning set	4399 Oct 01 11:11	1° <b>Ω</b> 15'46			4400 Sep 06 09:01	0° <b>m</b> y	
•				morning set	4400 Sep 14 16:18	15° <b>m</b> 51'20	
superior conj	4399 Oct 09 18:02	17° <b>≏</b> 35'12	1°35'43		4400 Sep 21 14:02	0∘ <b>⊽</b>	
minimum elong	4399 Oct 09 20:26	17° <b>≏</b> 46'43	1°35'33				
	4399 Oct 16 09:32	$0^{\circ}$ M		superior conj	4400 Sep 22 08:05	1° <b>ഫ</b> 31'11	1°43'14
max. Earth dist.	4399 Oct 16 11:31	0°M08'55	1.38654 AU	minimum elong	4400 Sep 22 08:50	1° <b>≏</b> 34'56	1°43'13
evening rise	4399 Oct 20 07:03	6°M53'19		max. Earth dist.	4400 Sep 27 17:42	12° <b>≏</b> 07'56	1.36637 AU
desc. node	4399 Oct 25 19:41	16° <b>™</b> 10'46		evening rise	4400 Oct 01 14:10	19° <b>ഫ</b> 19'39	
	4399 Nov 03 16:16	0°⊀			4400 Oct 07 15:51	0°M	
evening max el	4399 Nov 24 18:59	27° <b>₹</b> 09'26	24°41'04	desc. node	4400 Oct 11 16:43	6° <b>™</b> 39'49	
_	4399 Nov 27 22:17	0°る			4400 Oct 27 18:58	0° <b>∡</b>	
retrograde	4399 Dec 06 08:10	3° <b>る</b> 53'04		evening max el	4400 Nov 06 07:27	10° <b>₹</b> 52'17	25°51'57
evening set	4399 Dec 11 21:01	1° <b>る</b> 34'35		retrograde	4400 Nov 18 17:40	17° 🖈 57'13	
ī	4399 Dec 13 12:05	30°₹ <b>⋌</b> 7		evening set	4400 Nov 24 20:18	15° ₹25'38	0.66012.441
asc. node	4399 Dec 15 23:53	26° ₹ 59'31	0.67620 ATT	min. Earth dist.	4400 Nov 29 03:29	10° <b>₹</b> 47'27	0.66912 AU
min. Earth dist.	4399 Dec 16 11:32	26° ₹21'17	0.67630 AU	inferior conj	4400 Nov 30 12:19	9° <b>×</b> 704'05	
inferior conj minimum elong	4399 Dec 17 09:16 4399 Dec 17 08:34	25° ₹ 09'08 25° ₹ 11'25	0°28'18 0°28'01	minimum elong asc. node	4400 Nov 30 13:03 4400 Dec 01 20:56	9° <b>尽</b> 01'46 7° <b>尽</b> 23'04	0°27'35
morning rise	4399 Dec 17 08.34 4399 Dec 22 20:14	23 <b>x</b> ·11 23 19° <b>x</b> <sup>7</sup> 08′28	0 2801	morning rise	4400 Dec 01 20.36 4400 Dec 06 06:13	3° <b>₹</b> 12'09	
direct	4399 Dec 22 20.14 4399 Dec 26 12:53	19 <b>x</b> ·08 28		direct	4400 Dec 00 00.13	3 <b>x</b> ·12 09 2° <b>x</b> 12'32	
morning max el	4400 Jan 03 01:40	22° <b>₹</b> 06'05	19°56'58	morning max el	4400 Dec 09 11:30 4400 Dec 16 08:58	6° <b>₹</b> 01'28	19°00'19
morning max or	4400 Jan 09 15:41	22 x 00 03	1, 5050	morning max or	4401 Jan 02 12:10	0×0128 0°る	17 00 17
desc. node	4400 Jan 21 18:55	17° <b>る</b> 36'33		morning set	4401 Jan 07 20:44	8° <b>පි</b> 20'36	
morning set	4400 Jan 29 14:44	29° <b>ට</b> 33'45		desc. node	4401 Jan 07 15:58	8° <b>ろ</b> 02'00	
	4400 Jan 29 21:32	0°≈			4401 Jan 21 17:05	0°≈	
max. Earth dist.	4400 Feb 09 17:50	17° <b>≈</b> 00'03	1.44083 AU	max. Earth dist.	4401 Jan 22 10:09	1°≈07'05	1.45041 AU
						,	
superior conj	4400 Feb 15 00:00	25° <b>≈</b> 28'12	-2°03'28	superior conj	4401 Jan 24 11:44	4° <b>≈</b> 22'23	-1°40'01
minimum elong	4400 Feb 14 19:37	25°≈10'21		minimum elong	4401 Jan 24 02:39		1°39'12
				-			

avanina rica	4401 Feb 08 10:58	28° <b>≈</b> 23'05		superior conj	4402 Jan 03 14:17	12° <b>る</b> 58'13	0°50'22
evening rise	4401 Feb 08 10:38 4401 Feb 09 10:44	20 <b>≈</b> 23 03		minimum elong	4402 Jan 03 06:57	12 <b>33</b> 13	0°58'38
asc. node	4401 Feb 09 10:44 4401 Feb 27 20:14	27° <b>¥</b> 50′08		max. Earth dist.	4402 Jan 05 05:03		1.45273 AU
evening max el	4401 Feb 27 20.14 4401 Feb 28 17:28	28°\(\frac{1}{46}\)'26	18°34'43	max. Earth dist.	4402 Jan 14 11:15	13 <b>⊘</b> 30 20 0°≈	1.43273 AU
evening max er		28 <b>Λ</b> 4020	10 3443	avanina risa	4402 Jan 19 18:04	0 ∞ 8°≈16'45	
	4401 Mar 02 00:52	0° γ 2° <b>Υ</b> 23'22		evening rise			-0.8m
retrograde	4401 Mar 07 07:03	1° <b>Υ</b> 27'34		greatest brilliancy	4402 Jan 30 16:20	25°≈20'05 0°¥	-0.8m
evening set	4401 Mar 10 10:36	1° <b>1</b> 2 / 34 30° R <b>)</b> €			4402 Feb 02 18:14	12° <del>X</del> 16'35	19°15'01
	4401 Mar 12 09:37	*	2024141	evening max el	4402 Feb 12 02:16		19-1501
inferior conj	4401 Mar 16 04:40	25° <b>)</b> €53'00	3°34'41	asc. node	4402 Feb 14 17:17	14° <b>)</b> (35'39	
minimum elong	4401 Mar 16 04:08	25° <b>)</b> 54'36	3°34'39	retrograde	4402 Feb 19 03:13	16° <b>)</b> 17′27	
min. Earth dist.	4401 Mar 18 05:22	23° <b>)</b> (27'24	0.64853 AU	evening set	4402 Feb 22 13:39	15° <b>)</b> €08'33	
morning rise	4401 Mar 21 21:06	19° <b>)</b> (41'18		inferior conj	4402 Feb 28 02:08	9° <b>)</b> 18′02	
direct	4401 Mar 28 14:23	16° <b>米</b> 51′39		minimum elong	4402 Feb 28 00:27	9° <b>∺</b> 23′28	3°22'40
desc. node	4401 Apr 05 15:11	20° <b>)</b> € 00'48		min. Earth dist.	4402 Mar 01 11:37	7° <b>∺</b> 30'15	0.66268 AU
morning max el	4401 Apr 11 01:09	24° <b>)</b> (43'48	27°13'42	morning rise	4402 Mar 05 10:57	3° <b>米</b> 03′55	
	4401 Apr 15 19:50	0° <b>Υ</b>		direct	4402 Mar 11 18:46	0° <b>∺</b> 16'06	
	4401 May 06 08:24	0° <b>8</b>		desc. node	4402 Mar 23 12:14	6° <b>¥</b> 52'01	
morning set	4401 May 16 12:55	18° <b>8</b> 32'53		morning max el	4402 Mar 24 11:04	7° <b>)</b> 48′29	26°11'31
max. Earth dist.	4401 May 21 03:48	27° <b>8</b> 46'06	1.33695 AU		4402 Apr 10 18:10	$0$ ° $\Upsilon$	
	4401 May 22 05:50	$\Pi$ $\circ 0$			4402 Apr 28 18:55	0°8	
				morning set	4402 Apr 29 14:16	1° <b>8</b> 29'40	
superior conj	4401 May 24 18:54	5° <b>Ⅱ</b> 19'02	-0°20'58	max. Earth dist.	4402 May 03 13:36	9° <b>8</b> 03'30	1.35166 AU
minimum elong	4401 May 24 19:59	5° <b>Ⅱ</b> 24'47	0°20'44				
asc. node	4401 May 26 19:33	9° <b>Ⅱ</b> 36'56		superior conj	4402 May 08 15:22	19° <b>8</b> 10'44	-0°50'21
evening rise	4401 Jun 01 01:46	20° <b>Ⅱ</b> 47'35		minimum elong	4402 May 08 18:05	19° <b>8</b> 24'37	0°49'49
	4401 Jun 05 14:04	$0$ $\circ$ $\odot$		asc. node	4402 May 13 16:35	29° <b>8</b> 36'45	
evening max el	4401 Jun 21 19:25	24° <b>©</b> 27'12	21°56'48		4402 May 13 21:04	$\Pi$ $^{\circ}0$	
	4401 Jun 30 04:00	$0^{\circ}\Omega$		evening rise	4402 May 16 09:46	5° <b>Ⅱ</b> 14'21	
desc. node	4401 Jul 02 14:26	0° <b>Ω</b> 35'31		-	4402 May 30 07:29	0°€	
retrograde	4401 Jul 04 11:26	0° <b>Ω</b> 43'43		evening max el	4402 Jun 03 21:28	5°\$20'56	20°32'15
evening set	4401 Jul 07 04:53	0° <b>Ω</b> 27'03		retrograde	4402 Jun 15 00:23	10°5947'12	
	4401 Jul 08 22:49	30°Rூ		evening set	4402 Jun 17 00:44	10° <b>©</b> 37'14	
min. Earth dist.	4401 Jul 15 23:43	26°5941'17	0.54941 AU	desc. node	4402 Jun 19 11:28	10° <b>©</b> 00'12	
inferior conj	4401 Jul 16 12:38	26° <b>©</b> 23'11	-3°48'45	inferior conj	4402 Jun 26 06:20	6° <b>©</b> 39'50	-2°00'02
minimum elong	4401 Jul 16 03:59	26° <b>©</b> 35'18	3°46'24	minimum elong	4402 Jun 26 00:43		1°58'02
morning rise	4401 Jul 25 04:41	22° <b>©</b> 32'10		min. Earth dist.	4402 Jun 27 11:38	5° <b>©</b> 57'30	0.54933 AU
direct	4401 Jul 28 09:54	22° <b>©</b> 09'20		morning rise	4402 Jul 04 23:53	2° <b>©</b> 31'30	
morning max el	4401 Aug 09 09:51	27°5946'08	21°39'59	direct	4402 Jul 08 19:33	2°900'02	
morning man er	4401 Aug 11 14:58	0° <b>Ω</b>	21 37 57	morning max el	4402 Jul 22 03:30	8°\$26'58	23°20'57
asc. node	4401 Aug 22 18:47	16° <b>Ω</b> 19'54		morning max or	4402 Aug 06 16:17	0° <b>Ω</b>	23 2037
use. Houe	4401 Aug 29 18:04	0°m/		asc. node	4402 Aug 09 15:51	5° <b>Ω</b> 36'17	
morning set	4401 Aug 30 01:27	0°Mp38'25		morning set	4402 Aug 14 12:44	15° <b>Ω</b> 31'09	
morning set	4401 Mug 30 01.27	0 11/3025		morning set	4402 Aug 21 06:30	0°m	
superior conj	4401 Sep 06 07:35	15° <b>m</b> 55'04	1°43'04		4402 Aug 21 00.30	VIII	
minimum elong	4401 Sep 06 06:54	15° mp 51'29	1°43'04	superior conj	4402 Aug 21 13:23	0° Mp 36'58	1°36'30
max. Earth dist.	4401 Sep 10 05:59	24° Mp 00'20	1.34900 AU	minimum elong	4402 Aug 21 13:23	0° الله 27'51	1°36'22
max. Earm dist.	4401 Sep 10 05:39 4401 Sep 13 06:32	ე° <b>ჲ</b>	1.54900 AU	max. Earth dist.	4402 Aug 24 03:05	6° Mp 05'44	1.33548 AU
evening rise	4401 Sep 13 00:32	0 <b>=</b> 2° <b>£</b> 34'38		evening rise	4402 Aug 29 04:02	16° Mp 26'54	1.33346 AU
desc. node	4401 Sep 14 14:33 4401 Sep 28 13:44	2 <b>=</b> 34 38 26° <b>⊆</b> 52'40		evening rise	4402 Sep 05 07:56	0° <b>©</b>	
desc. node	-	20 = 32 40 0°M		desc. node	4402 Sep 15 10:46	0 <b>=</b> 16° <b>£</b> 42'12	
avanina may al	4401 Sep 30 14:09 4401 Oct 19 19:58	24°M30'18	26047122	desc. Hode	•	0°M	
evening max el		24 11€30 18 0° <b>√</b>	20 47 33	avanina may al	4402 Sep 25 03:01 4402 Oct 02 08:06	7°M54'39	27920120
ratra ara da	4401 Oct 26 22:06	0 <b>x</b> . 1° <b>x</b> 46'30		evening max el			27 20 39
retrograde	4401 Nov 01 21:55			retrograde	4402 Oct 15 20:27	15°M13'09	
. ,	4401 Nov 07 08:18	30°RM		evening set	4402 Oct 22 21:02	12°M33'02	0.64421.411
evening set	4401 Nov 08 13:08	29°M06'41	0.65041.411	min. Earth dist.	4402 Oct 26 15:34	9°M04'56	0.64421 AU
min. Earth dist.	4401 Nov 12 13:32	25°M04'09	0.65841 AU	inferior conj	4402 Oct 29 00:10	6°M33'45	
inferior conj	4401 Nov 14 10:03	22°M53'47		minimum elong	4402 Oct 29 04:27	6°M22'18	2-28-54
minimum elong	4401 Nov 14 12:31		1°27'02	morning rise	4402 Nov 04 13:06	1°M07'31	
asc. node	4401 Nov 18 17:59	18°M24'27		asc. node	4402 Nov 05 15:03	0°M45'17	
morning rise	4401 Nov 20 12:43	17°M13'15		direct	4402 Nov 07 02:25	0°M34'03	1,505,510.5
direct	4401 Nov 23 08:52	16°M28'41	1001011	morning max el	4402 Nov 13 14:22	3°M59'56	17°56'06
morning max el	4401 Nov 29 22:05	20°M01'26	18°19'45	morning set	4402 Nov 30 19:38	0° <b>₹</b> 05'50	
	4401 Dec 07 14:09	0° <b>∡</b> 7			4402 Nov 30 18:15	0° <b>∡</b> 7	
morning set	4401 Dec 19 05:44	18° <b>∡</b> ³30′30		desc. node	4402 Dec 12 10:01	19° <b>∡</b> ²21'41	
desc. node	4401 Dec 25 13:00	28° <b>∡</b> 38'14					
	4401 Dec 26 09:30	0°る		superior conj	4402 Dec 14 04:24	22° <b>₹</b> 12'58	
				minimum elong	4402 Dec 14 02:57	22° <b>₹</b> 07'08	0°11'59

behind sun begin	4402 Dec 13 19:59	21° <b>₹</b> 39'04		morning set	4403 Nov 13 08:40	12° <b>M</b> 47'43	
behind sun end	4402 Dec 14 09:55	22° <b>渘</b> ³35′11			4403 Nov 23 05:15	0° <b>∡</b> 7	
max. Earth dist.	4402 Dec 18 23:48	29° <b>∡</b> ¹53'34	1.44770 AU				
	4402 Dec 19 01:26	8°0		superior conj	4403 Nov 24 19:08	2° <b>∡</b> ¹40'17	0°31'10
evening rise	4402 Dec 30 07:56	17° <b>る</b> 33'35		minimum elong	4403 Nov 24 22:01	2° <b>∡</b> 52′27	0°30'46
<b>3</b>	4403 Jan 07 11:33	0° <b>≈</b>		desc. node	4403 Nov 29 07:02	10° <b>х</b> 08′25	
greatest brilliancy	4403 Jan 14 00:04	9° <b>≈</b> 44'03	-0.6m	max. Earth dist.	4403 Dec 01 15:57	13° × 59'55	1.43599 AU
		25°≈49'21	20°10'53			26° <b>×</b> 48'19	1.43377 AU
evening max el	4403 Jan 26 06:23		20 10 33	evening rise	4403 Dec 09 18:18		
	4403 Jan 31 23:48	0° <b>)</b> (1111			4403 Dec 11 19:59	್ರಂ	
asc. node	4403 Feb 01 14:19	0° <b>)</b> 11′10			4404 Jan 01 09:57	0° <b>≈</b>	
retrograde	4403 Feb 03 01:16	0° <b>)</b> 22′37		evening max el	4404 Jan 09 04:59	9° <b>≈</b> 22'55	21°19'23
	4403 Feb 05 00:53	30°R≈		retrograde	4404 Jan 17 22:59	14° <b>≈</b> 34'14	
evening set	4403 Feb 06 19:58	28° <b>≈</b> 59'35		asc. node	4404 Jan 19 11:21	14° <b>≈</b> 21'47	
inferior conj	4403 Feb 12 05:20	22° <b>≈</b> 55'30	2°59'28	evening set	4404 Jan 22 03:37	12° <b>≈</b> 55'56	
minimum elong	4403 Feb 12 03:01	23° <b>≈</b> 03′20	2°58'58	inferior conj	4404 Jan 27 11:50	6° <b>≈</b> 41'07	2°26'37
min. Earth dist.	4403 Feb 13 00:48	21° <b>≈</b> 49'44	0.67266 AU	minimum elong	4404 Jan 27 09:23	6° <b>≈</b> 49'35	2°25'54
morning rise	4403 Feb 17 09:50	16° <b>≈</b> 41'22		min. Earth dist.	4404 Jan 27 18:40	6°≈17'28	0.67853 AU
direct	4403 Feb 23 04:49	14°≈06'04		morning rise	4404 Feb 01 14:58	0° <b>≈</b> 28'39	
morning max el	4403 Mar 06 19:46	21°≈03'12	24°50'57	morning 1130	4404 Feb 02 04:38	0 ≈2037 30°Rる	
-			24 30 37	direct	4404 Feb 06 19:25	28°る12'56	
desc. node	4403 Mar 10 09:15	24°≈55'20		direct			
	4403 Mar 14 13:22	0° <b>)</b> €			4404 Feb 11 23:26	0° <b>≈</b>	
	4403 Apr 03 23:31	0° <b>Υ</b>		morning max el	4404 Feb 17 04:33	4° <b>≈</b> 23'09	23°22'17
morning set	4403 Apr 11 21:55	13° <b>Ƴ</b> 31'34		desc. node	4404 Feb 25 06:15	13° <b>≈</b> 49'35	
max. Earth dist.	4403 Apr 15 12:50	20° <b>Ƴ</b> 04'14	1.37062 AU		4404 Mar 07 20:02	0° <b>)</b> €	
	4403 Apr 20 19:04	$9^{\circ}$ 8		morning set	4404 Mar 23 05:45	24° <b>)</b> €21'56	
					4404 Mar 26 12:54	$0^{\circ}\mathbf{\Upsilon}$	
superior conj	4403 Apr 22 01:44	2° <b>8</b> 29'03	-1°18'59	max. Earth dist.	4404 Mar 27 07:57	1° <b>Y</b> 22'45	1.39216 AU
minimum elong	4403 Apr 22 05:56	2° <b>8</b> 49'34	1°18'21				
evening rise	4403 Apr 30 12:33	19° <b>8</b> 20'50		superior conj	4404 Apr 03 22:04	15° <b>Ƴ</b> 03'40	-1°44'16
asc. node	4403 Apr 30 13:37	19° <b>8</b> 26'15		minimum elong	4404 Apr 04 02:54	15° <b>Y</b> 26'13	
use. Hode	4403 May 05 23:53	0°II		minimum ciong	4404 Apr 11 18:10	0°8	1 43 40
avanina may al	•	16° <b>∏</b> 56'06	19°25'47	arranina rica	•	2° <b>8</b> 59'15	
evening max el	4403 May 17 11:58	21° <b>II</b> 30'10	19 23 47	evening rise	4404 Apr 13 07:14		
retrograde	4403 May 26 21:06			asc. node	4404 Apr 16 10:40	9° <b>8</b> 00'32	10020122
evening set	4403 May 28 20:26	21° <b>Ⅱ</b> 18'57		evening max el	4404 Apr 29 12:58	29° <b>8</b> 10'29	18°39'32
inferior conj	4403 Jun 06 10:42	17° <b>Ⅱ</b> 12'45			4404 Apr 30 10:26	0°Щ	
minimum elong	4403 Jun 06 10:38	17° <b>Ⅱ</b> 12'52	0°01'37	retrograde	4404 May 07 11:33	3° <b>Ⅱ</b> 04'39	
transit middle	4403 Jun 06 10:38	17° <b>Ⅱ</b> 12'52	0°01'37	evening set	4404 May 09 16:37	2° <b>∏</b> 47'34	
transit begin	4403 Jun 06 06:46	17° <b>Ⅱ</b> 19'07			4404 May 15 05:54	30°₽ <b>႘</b>	
transit end	4403 Jun 06 14:29	17° <b>Ⅱ</b> 06'36		inferior conj	4404 May 17 10:54	28° <b>8</b> 23'03	1°36'40
desc. node	4403 Jun 06 08:30	17° <b>Ⅱ</b> 16'19		minimum elong	4404 May 17 14:05	28° <b>8</b> 17'01	1°35'39
min. Earth dist.	4403 Jun 09 01:40	15° <b>Ⅲ</b> 31'14	0.55880 AU	min. Earth dist.	4404 May 20 18:57	25° <b>8</b> 52'53	0.57571 AU
morning rise	4403 Jun 14 22:00	12° <b>Ⅲ</b> 32'07		desc. node	4404 May 23 05:29	24° <b>8</b> 15'30	
direct	4403 Jun 19 15:06	11° <b>∏</b> 41'45		morning rise	4404 May 25 08:20	23° <b>8</b> 07'32	
morning max el	4403 Jul 03 17:13	18° <b>∏</b> 49'10	25°03'12	direct	4404 May 31 00:28	21° <b>8</b> 47'34	
moning man vi	4403 Jul 13 01:54	0°95	20 03 12	morning max el	4404 Jun 14 09:16		26°30'56
asc. node	4403 Jul 27 12:53	25°514'08		morning max or	4404 Jun 15 00:45	0°Ⅱ	20 30 30
asc. node	4403 Jul 29 19:51	23 <b>3</b> 1408				0°©	
					4404 Jul 05 19:11		
morning set	4403 Jul 30 00:27	0° <b>Ω</b> 24'22		morning set	4404 Jul 13 11:02	15°5513'08	
		0		asc. node	4404 Jul 13 09:55	15° <b>©</b> 07'13	
superior conj	4403 Aug 05 23:03		1°24'29			_	
minimum elong	4403 Aug 05 20:49		1°24'11	superior conj	4404 Jul 20 10:37	0° <b>Ω</b> 24'34	
max. Earth dist.	4403 Aug 07 08:17	18° <b>Ω</b> 30'18	1.32619 AU	minimum elong	4404 Jul 20 08:19	0° <b>Ω</b> 11'54	1°07'22
	4403 Aug 12 18:00	0° <b>m</b> p			4404 Jul 20 06:10	$0^{\circ}\Omega$	
evening rise	4403 Aug 13 02:55	0° Mp45′56		max. Earth dist.	4404 Jul 20 18:36	1° <b>Ω</b> 08'38	1.32104 AU
	4403 Aug 29 07:26	0∘ <b>ত</b>		evening rise	4404 Jul 27 08:18	15° <b>Ω</b> 22'48	
desc. node	4403 Sep 02 07:48	5° <b>£</b> 58'15		Č	4404 Aug 03 17:07	0° m/y	
evening max el	4403 Sep 14 17:58	20° <b>≏</b> 52'18	27°24'49	desc. node	4404 Aug 19 04:48	24° <b>m</b> 27'07	
retrograde	4403 Sep 28 12:12	28° <b>≏</b> 07'27	2, 2,	dese. node	4404 Aug 23 20:20	0° <b>⊽</b>	
•	4403 Sep 28 12.12 4403 Oct 05 16:39	28 <b>2</b> 07 27 25° <b>2</b> 37'41		avaning mey al	-	ა <del></del>	26055156
evening set			0.62606 411	evening max el	4404 Aug 26 22:49		20 33 30
min. Earth dist.	4403 Oct 09 07:43	22° <b>Ω</b> 39'20	0.62686 AU	retrograde	4404 Sep 09 20:17	10° <b>Ω</b> 20'57	
inferior conj	4403 Oct 12 03:47	19° <b>£</b> 56'40		evening set	4404 Sep 16 19:51	8° <b>Ω</b> 13'41	
minimum elong	4403 Oct 12 09:31	19° <b>≏</b> 42'57	3°29'19	min. Earth dist.	4404 Sep 20 13:00	5° <b>≏</b> 34'52	
morning rise	4403 Oct 19 03:58	14° <b>≏</b> 48'03		inferior conj	4404 Sep 23 17:36	2° <b>£</b> 54'10	
direct	4403 Oct 21 13:13	14° <b>≏</b> 22'04		minimum elong	4404 Sep 23 23:33	2° <b>≏</b> 41'39	4°23'59
asc. node	4403 Oct 23 12:06	14° <b>≏</b> 39'59			4404 Sep 27 10:57	30°₽,₩)	
morning max el	4403 Oct 28 06:46	17° <b>≏</b> 49'04	17°50'11	morning rise	4404 Oct 01 05:09	28°M 06'39	
	4403 Nov 06 00:32	0°M		direct	4404 Oct 03 13:28	27° m/45'05	

asc. node	4404 Oct 09 09:08	0° <b>≙</b> 04'08			4405 Oct 04 20:58	0° <b>⊽</b>	
morning max el	4404 Oct 09 07:01 4404 Oct 10 20:10	0° <b>ჲ</b> 1° <b>ჲ</b> 21'27	18°03'09	morning set	4405 Oct 10 08:13	10° <b>£</b> 20'52	
morning set	4404 Oct 26 14:33	1 <b>=</b> 21 27 26° <b>£</b> 17'47	18 03 09	superior conj	4405 Oct 19 02:48	27° <b>£</b> 12'15	1°27'19
	4404 Oct 28 14:22	0°M		minimum elong	4405 Oct 19 06:04	27° <b>£</b> 27'32	1°27'00
				Č	4405 Oct 20 14:53	0°M	
superior conj	4404 Nov 05 12:07	14°M24'34	1°04'43	max. Earth dist.	4405 Oct 26 10:04	10°M25'43	1.39865 AU
minimum elong	4404 Nov 05 16:13	14°M42'43	1°04'12	evening rise	4405 Oct 30 13:14	17° <b>™</b> 30′29	
max. Earth dist.	4404 Nov 13 03:36	27°M34'36	1.41896 AU	desc. node	4405 Nov 02 01:07	21°M38'58	
desc. node	4404 Nov 14 14:37 4404 Nov 15 04:05	0° <b>҂</b> 0° <b>҂</b> 55'27			4405 Nov 07 06:16 4405 Nov 28 13:53	0°♂ 0°♂	
evening rise	4404 Nov 18 16:57	6° <b>₹</b> 39'45		evening max el	4405 Nov 28 13:35 4405 Dec 04 12:25	6° <b>る</b> 36'51	23°56'15
evening rise	4404 Dec 04 01:29	0°る		retrograde	4405 Dec 15 11:30	13° <b>る</b> 04'11	25 50 15
evening max el	4404 Dec 21 22:29	22° <b>る</b> 58'15	22°36'18	evening set	4405 Dec 20 16:32	10°る54'04	
retrograde	4404 Dec 31 18:48	28° <b>ප්</b> 49'16		asc. node	4405 Dec 23 05:23	8° <b>ප</b> 16'24	
evening set	4405 Jan 05 10:59	26° <b>る</b> 54'59		min. Earth dist.	4405 Dec 25 11:31	5° <b>る</b> 21'16	0.67881 AU
asc. node	4405 Jan 05 08:23	27° <b>る</b> 00'19		inferior conj	4405 Dec 26 03:07	4° <b>පි</b> 28'18	0°58'22
inferior conj	4405 Jan 10 19:41	20° <b>る</b> 32'41	1°45'52	minimum elong	4405 Dec 26 01:47	4° <b>る</b> 32'48	0°57'49
minimum elong	4405 Jan 10 17:35	20°る40'00	1°45'07		4405 Dec 29 16:58	30°Ŗ <b>⋌</b> ¹	
min. Earth dist.	4405 Jan 10 14:59 4405 Jan 16 00:04	20°පි48'59 14°පි23'26	0.68051 AU	morning rise	4405 Dec 31 11:04 4406 Jan 04 10:53	28° 🗷 23'55	
morning rise direct	4405 Jan 16 00:04 4405 Jan 20 13:46	14° <b>6</b> 23′26		direct	4406 Jan 04 10:33 4406 Jan 10 21:18	26°♂53'39 0°る	
morning max el	4405 Jan 29 16:54	12 <b>3</b> 5028	21°55'00	morning max el	4406 Jan 12 12:02	0 3 1° <b>る</b> 30'41	20°36'22
morning max er	4405 Feb 08 17:00	0°≈	21 33 00	desc. node	4406 Jan 29 00:19	23° <b>る</b> 18'36	20 30 22
desc. node	4405 Feb 11 03:17	3° <b>≈</b> 20′38			4406 Feb 02 11:57	0° <b>≈</b>	
	4405 Feb 28 23:11	0° <b>)</b> €		morning set	4406 Feb 10 11:38	12° <b>≈</b> 13'17	
morning set	4405 Mar 03 09:03	3° <b>¥</b> 50′25		max. Earth dist.	4406 Feb 19 12:13	26° <b>≈</b> 30′23	1.43227 AU
max. Earth dist.	4405 Mar 09 06:37	13° <b>¥</b> 29′28	1.41366 AU		4406 Feb 21 15:50	0° <b>)</b> €	
superior conj	4405 Mar 16 23:32	26° <b>)</b> 42'39	-2°02'19	superior conj	4406 Feb 26 01:18	7° <b>)</b> 15'43	-2°07'59
minimum elong	4405 Mar 17 03:04	26° <b>)</b> 58′15	2°02'08	minimum elong	4406 Feb 26 00:30	7° <b>)</b> 12'21	2°07'58
	4405 Mar 18 20:01	$0^{\circ}\Upsilon$		evening rise	4406 Mar 10 05:43	28° <b>∺</b> 16′29	
evening rise	4405 Mar 27 14:21	16° <b>Y</b> 00'48			4406 Mar 11 05:11	0° <b>Υ</b>	
asc. node	4405 Apr 03 07:41	28° <b>Y</b> 13'37		asc. node	4406 Mar 21 04:43	16° <b>Y</b> 58'36	
	4405 Apr 04 08:23	0°8	18°13'28	evening max el	4406 Mar 27 09:06	25° <b>Υ</b> 02'19 28° <b>Υ</b> 24'49	18°07'00
evening max el retrograde	4405 Apr 12 21:08 4405 Apr 19 20:55	11° <b>8</b> 55'26 15° <b>8</b> 26'05	18°13'28	retrograde evening set	4406 Apr 02 21:25 4406 Apr 05 15:19	28°γ'24'49 27° <b>Υ</b> '48'13	
evening set	4405 Apr 22 08:37	15° <b>8</b> 00'10		inferior conj	4406 Apr 12 00:37	$27^{\circ}$ $48^{\circ}$ $48^{\circ}$ $48^{\circ}$ $48^{\circ}$ $48^{\circ}$ $48^{\circ}$ $48^{\circ}$	3°20'52
inferior conj	4405 Apr 29 08:31	10° <b>8</b> 15'00	2°43'31	minimum elong	4406 Apr 12 00:37	22° <b>Y</b> 37'47	
minimum elong	4405 Apr 29 11:56	10° <b>8</b> 07'24		min. Earth dist.	4406 Apr 15 00:48	19° <b>Y</b> 40'59	0.61857 AU
min. Earth dist.	4405 May 02 17:52	7° <b>8</b> 16'31	0.59674 AU	morning rise	4406 Apr 18 12:22	16° <b>Ƴ</b> 42'58	
morning rise	4405 May 06 12:39	4° <b>8</b> 31'58		direct	4406 Apr 25 08:04	14° <b>Y</b> 17'06	
desc. node	4405 May 10 02:30	2° <b>8</b> 59'36		desc. node	4406 Apr 26 23:31	14° <b>Y</b> 25′01	
direct	4405 May 12 22:47	2° <b>8</b> 37'05	25020152	morning max el	4406 May 09 11:50	22° <b>Y</b> 16′18	27°52'09
morning max el	4405 May 27 07:27	10° <b>8</b> 27'57	27°29'52		4406 May 16 07:01	0° <b>Β</b>	
morning set	4405 Jun 11 10:31 4405 Jun 27 18:44	0°Ⅱ 29°Ⅱ51'05		morning set	4406 Jun 04 13:47 4406 Jun 11 21:35	0° <b>П</b> 14° <b>П</b> 11'58	
morning set	4405 Jun 27 20:26	29 <b>H</b> 31 03		asc. node	4406 Jun 17 04:00	25° <b>I</b> 16'50	
asc. node	4405 Jun 30 06:56	5° <b>5</b> 09'36		max. Earth dist.	4406 Jun 17 15:11		1.32306 AU
cuperior coni	4405 Jul 04 22:15	15° <b>©</b> 16'56	0°46'57	superior conj	4406 Jun 19 08:16	0° <b>©</b> 00'39	0°22'39
superior conj minimum elong	4405 Jul 04 22:13	15°506'32	0°46'34	minimum elong	4406 Jun 19 07:14	0 ₩0039 29° <b>II</b> 55'01	
max. Earth dist.	4405 Jul 04 06:14	13°5548'38	1.31998 AU	minimum ciong	4406 Jun 19 08:09	0°95	0 22 23
evening rise	4405 Jul 11 17:45	0° <b>Ω</b> 08'53		evening rise	4406 Jun 26 05:16	14°957'44	
Č	4405 Jul 11 16:05	$0^{\circ}\Omega$		Ü	4406 Jul 03 16:54	$0^{\circ}\Omega$	
	4405 Jul 28 00:32	0° m/		evening max el	4406 Jul 21 10:48	25° <b>Ω</b> 22'47	24°28'23
desc. node	4405 Aug 06 01:49	11° Mp 48'33		desc. node	4406 Jul 23 22:50	27° <b>Ω</b> 35'52	
evening max el	4405 Aug 08 20:13	14° mp 38'31	25°54'36		4406 Jul 27 09:07	0° <b>m</b>	
retrograde	4405 Aug 22 19:24	21° Mp 46'01		retrograde	4406 Aug 04 07:43	2° Mp 22'48	
evening set	4405 Aug 29 01:40	20° Mp 12'22	0.59627 ATT	evening set	4406 Aug 09 07:14	1°Mp27'17	
min. Earth dist. inferior conj	4405 Sep 02 08:33 4405 Sep 05 14:01	1 /° llp 36'2 / 15° llp 15'21	0.58637 AU -5°03'28	min. Earth dist.	4406 Aug 12 11:49 4406 Aug 14 21:51	30°RN 28°N35'18	0.56745 AU
minimum elong	4405 Sep 05 17:40		-5 03 28 5°03'07	inferior conj	4406 Aug 14 21.31 4406 Aug 17 14:28	26° <b>Ω</b> 52'27	
morning rise	4405 Sep 13 11:54	10° mp 51'07	J	minimum elong	4406 Aug 17 12:44	26° <b>Ω</b> 55'13	
direct	4405 Sep 15 22:27	10° mp 31'41		morning rise	4406 Aug 25 20:48	22° <b>Ω</b> 49'22	
morning max el	4405 Sep 24 03:13	14° <b>m</b> 27'11	18°36'28	direct	4406 Aug 28 12:33	22° <b>Ω</b> 30'14	
asc. node	4405 Sep 26 06:09	16° Mp 43'18		morning max el	4406 Sep 07 00:42	26° <b>Ω</b> 56'44	19°31'15

asc. node morning set	4406 Sep 09 21:06 4406 Sep 13 03:12 4406 Sep 24 09:57	0° m) 4° m) 22'32 24° m) 46'42		min. Earth dist. inferior conj minimum elong	4407 Jul 27 08:35 4407 Jul 28 19:56 4407 Jul 28 12:29	8° N 35'53 7° N 45'03 7° N 55'47 3° N 53'59	
	4406 Sep 27 00:09	0∘ <b>⊽</b>		morning rise direct	4407 Aug 06 08:55 4407 Aug 09 08:29	3° <b>Ω</b> 33'10	
superior conj	4406 Oct 02 09:41	10° <b>≙</b> 47'19	1°39'55	morning max el	4407 Aug 20 10:26	8° <b>Ω</b> 42'24	20°47'31
minimum elong	4406 Oct 02 11:23	10° <b>ჲ</b> 55'36	1°39'50	asc. node	4407 Aug 31 00:17	22° <b>Ω</b> 48'32	
max. Earth dist.	4406 Oct 08 14:20	22° <b>£</b> 36'36	1.37772 AU	. ,	4407 Sep 03 23:18	0° m/20110	
evening rise	4406 Oct 12 08:29 4406 Oct 12 16:34	29° <b>≙</b> 24'17 0° <b>I</b> L		morning set	4407 Sep 08 17:05	9° <b>m</b> 28'19	
desc. node	4406 Oct 19 22:10	12°M14'45		superior conj	4407 Sep 16 04:12	24° m 56'54	1°44'01
	4406 Oct 31 14:03	0° <b>₹</b>		minimum elong	4407 Sep 16 04:18	24° m 57'23	1°44'01
evening max el	4406 Nov 17 00:55	20° <b>∡</b> 19'04	25°12'37		4407 Sep 18 15:59	0∘ <b>ত</b>	
retrograde	4406 Nov 28 24:00	27° 🖈 13'54		max. Earth dist.	4407 Sep 20 22:31	4° <b>£</b> 30'06	1.35858 AU
evening set min. Earth dist.	4406 Dec 04 18:38 4406 Dec 09 05:55	24° <b>₹</b> 49'26 19° <b>₹</b> 50'47	0.67362 AU	evening rise	4407 Sep 24 23:35 4407 Oct 05 03:58	12° <b>≙</b> 13'42 0° <b>I</b> L	
inferior conj	4406 Dec 10 08:20	18° <b>₹</b> 24'46	0°05'02	desc. node	4407 Oct 06 19:11	2°M38'09	
minimum elong	4406 Dec 10 08:12	18° <b>≯</b> 25'11	0°04'58		4407 Oct 26 16:52	0° <b>∡</b> ″	
transit middle	4406 Dec 10 08:12	18° <b>≯</b> 25'11	0°04'58	evening max el	4407 Oct 30 13:36	4° <b>≯</b> 02′10	26°17'57
transit begin	4406 Dec 10 05:33	18° <b>₹</b> 33'49		retrograde	4407 Nov 12 07:24	11°× 13'00	
transit end asc. node	4406 Dec 10 10:51 4406 Dec 10 02:26	18° <b>尽</b> 16'34 18° <b>尽</b> 44'00		evening set min. Earth dist.	4407 Nov 18 15:28 4407 Nov 22 19:47	8° <b>尽</b> 37'32 4° <b>尽</b> 14'11	0.66499 AU
morning rise	4406 Dec 15 02:20 4406 Dec 15 22:00	18 <b>x</b> 44 00		inferior conj	4407 Nov 24 19:47 4407 Nov 24 09:26	2°×1411	
direct	4406 Dec 19 09:31	11° <b>√</b> 17'34		minimum elong	4407 Nov 24 10:52	2° <b>√</b> 14'34	
morning max el	4406 Dec 26 15:01	15° <b>∡</b> ²21′05	19°30'53	_	4407 Nov 26 08:11	30°RM	
	4407 Jan 06 21:11	0° <b>ප</b>		asc. node	4407 Nov 26 23:28	29°M18'01	
greatest brilliancy	4407 Jan 08 18:23	2°る47'22	-0.7m	morning rise	4407 Nov 30 06:49	26°M31'13	
desc. node	4407 Jan 15 21:22	13°る35'43 20°る29'24		direct	4407 Dec 03 08:00	25°M38'25	10040156
morning set	4407 Jan 20 08:49 4407 Jan 26 11:50	20° <b>⊘</b> 29′24 0° <b>≈</b>		morning max el	4407 Dec 10 01:02 4407 Dec 10 16:47	29°M19′23 0°⊀	18°40'56
max. Earth dist.	4407 Feb 02 00:43	0 <b>~</b> 10° <b>≈</b> 16'04	1.44571 AU	morning set	4407 Dec 31 01:15	29° <b>х</b> 49'29	
					4407 Dec 31 03:55	8°0	
superior conj	4407 Feb 06 01:27	16° <b>≈</b> 41′06	-1°55'57	desc. node	4408 Jan 02 18:26	4° <b>පි</b> 06'45	
minimum elong	4407 Feb 05 18:32		1°55'31			_	
	4407 Feb 14 06:05	0° <b>)</b> (25/2€		superior conj	4408 Jan 16 06:58	25°₹21'32	
evening rise	4407 Feb 20 00:54 4407 Mar 04 10:54	9° <b>)</b> 37′36 0° <b>Υ</b>		minimum elong max. Earth dist.	4408 Jan 15 21:46 4408 Jan 15 18:30	24°る45'24 24°る32'36	1°23'29 1.45239 AU
asc. node	4407 Mar 08 01:45	5° <b>Υ</b> 06'12		max. Earth dist.	4408 Jan 19 05:53	24 <b>O</b> 32 30 0° <b>≈</b>	1.43239 AU
evening max el	4407 Mar 10 21:51	8° <b>Υ</b> 22'45	18°19'25	evening rise	4408 Jan 31 21:03	20°≈01'59	
retrograde	4407 Mar 17 08:27	11° <b>Y</b> 50'43		C	4408 Feb 07 02:20	0° <b>)</b> €	
evening set	4407 Mar 20 08:24	11° <b>Y</b> 02'11		greatest brilliancy	4408 Feb 08 15:21	2° <b>)</b> €27'34	-0.9m
inferior conj	4407 Mar 26 07:02	5°Υ38'06	3°34'51	evening max el	4408 Feb 22 08:47	21° <b>米</b> 51'15	18°49'50
minimum elong min. Earth dist.	4407 Mar 26 07:23 4407 Mar 28 16:53	5° <b>Υ</b> 37'08 2° <b>Υ</b> 54'30	3°34'50 0.63860 AU	asc. node	4408 Feb 22 22:47 4408 Feb 29 02:10	22°\(\frac{1}{25}\)'45 25°\(\frac{1}{36}\)'40	
iiiii. Eartii tist.	4407 Mar 31 14:50	2 1 34 30 30° <b>₹</b>	0.03800 AU	retrograde evening set	4408 Mar 03 08:35	23 \(\)3040 24°\(\)35'20	
morning rise	4407 Apr 01 05:28	29° <b>H</b> 29'17		inferior conj	4408 Mar 08 23:58	18° <b>)</b> 53'54	3°31'13
direct	4407 Apr 08 01:55	26° <b>){</b> 44′00		minimum elong	4408 Mar 08 22:53	18° <b>¥</b> 57'15	3°31'08
desc. node	4407 Apr 13 20:33	28° <b>)</b> €22'35		min. Earth dist.	4408 Mar 10 18:07	16° <b>)</b> 43′32	0.65517 AU
	4407 Apr 16 10:29	0° <b>Υ</b>		morning rise	4408 Mar 14 12:45	12° <b>)</b> (41′03	
morning max el	4407 Apr 21 20:13	4° <b>Υ</b> 41'55 0° <b>႘</b>	27°37'13	direct desc. node	4408 Mar 21 02:43 4408 Mar 30 17:37	9° <b>¥</b> 50'34 14° <b>¥</b> 20'09	
morning set	4407 May 10 22:28 4407 May 26 17:10	28° <b>8</b> 07'47		morning max el	4408 Mai 30 17.37 4408 Apr 03 06:07	14 <b>X</b> 2009 17° <b>X</b> 35'27	26°50'01
morning sec	4407 May 27 15:41	0°Ⅱ		morning max er	4408 Apr 13 15:21	0°Υ	20 30 01
max. Earth dist.	4407 May 31 17:31	8° <b>Ⅱ</b> 22'10	1.33051 AU		4408 May 02 20:24	0°8	
				morning set	4408 May 09 02:18	11° <b>8</b> 29'08	
superior conj	4407 Jun 03 14:47	14° <b>Ⅱ</b> 29′23		max. Earth dist.	4408 May 13 09:54	19° <b>8</b> 56'21	1.34265 AU
minimum elong	4407 Jun 03 15:01	14° <b>Ⅱ</b> 30'34	0°04'25		4400 ) 4 17 17 40	200 42 614 6	0022122
behind sun begin behind sun end	4407 Jun 03 09:50 4407 Jun 03 20:11	14° <b>Ⅲ</b> 02'51 14° <b>Ⅲ</b> 58'19		superior conj minimum elong	4408 May 17 15:40 4408 May 17 17:26	28° <b>8</b> 36'46 28° <b>8</b> 45'59	
asc. node	4407 Jun 04 01:03	14 <b>Ⅲ</b> 3819 15° <b>Ⅲ</b> 24'25		mmmum ciong	4408 May 17 17.26 4408 May 18 07:38	28 <b>O</b> 43 39 0° <b>Ⅱ</b>	0 55 02
evening rise	4407 Jun 10 16:55	29° <b>II</b> 42'56		asc. node	4408 May 20 22:06	5° <b>Ⅱ</b> 28'16	
-	4407 Jun 10 20:09	0°9		evening rise	4408 May 25 02:52	14° <b>Ⅱ</b> 18′22	
	4407 Jun 27 21:57	$0^{\circ}\Omega$			4408 Jun 02 03:06	0° <b>©</b>	
evening max el	4407 Jul 03 00:03	5° <b>Ω</b> 46'32	22°51'28	evening max el	4408 Jun 13 19:43	16°521'29	21°18'57
desc. node	4407 Jul 10 19:49	11°Ω15'35 12°Ω24'15		retrograde desc. node	4408 Jun 25 20:57	22°©17'23	
retrograde evening set	4407 Jul 16 07:20 4407 Jul 19 18:14	$12^{\circ} 0.24^{\circ} 15$ $11^{\circ} \Omega 58'08$		desc. node evening set	4408 Jun 26 16:50 4408 Jun 28 05:01	22°©15'46 22°©04'48	
Svennig set	1707 Jul 17 10.14	11 063000		evening set	1700 Juli 20 03.01	22 304 40	

inforior coni	4408 Jul 07 13:55	18° <b>©</b> 05'58	2006107	daga mada	4409 Jun 13 13:51	0°937'06	
inferior conj				desc. node			
minimum elong	4408 Jul 07 05:51	18°9517'15	3°03'35		4409 Jun 14 17:55	30°RⅡ	1000153
min. Earth dist.	4408 Jul 07 19:14	17° <b>©</b> 58'31	0.54815 AU	inferior conj	4409 Jun 17 10:30	28° <b>Ⅲ</b> 25'51	
morning rise	4408 Jul 16 07:20	14° <b>©</b> 10'15		minimum elong	4409 Jun 17 07:18	28° <b>Ⅱ</b> 30'41	1°07'41
direct	4408 Jul 19 18:09	13° <b>©</b> 44'31		min. Earth dist.	4409 Jun 19 07:38	27° <b>Ⅱ</b> 18′04	0.55225 AU
morning max el	4408 Aug 01 08:43	19° <b>©</b> 42'51	22°21'56	morning rise	4409 Jun 26 02:30	24° <b>Ⅱ</b> 05'21	
	4408 Aug 09 20:45	$0 {\circ} \Omega$		direct	4409 Jun 30 06:32	23° <b>Ⅱ</b> 27'29	
asc. node	4408 Aug 16 21:21	11° <b>Ω</b> 49'16			4409 Jul 13 18:33	$0$ $\circ$ $\infty$	
morning set	4408 Aug 23 03:22	24° <b>Ω</b> 18'42		morning max el	4409 Jul 13 23:55	0°©12'33	24°05'21
	4408 Aug 25 19:51	0° <b>m</b> y			4409 Aug 03 03:05	$0^{\circ}\Omega$	
				asc. node	4409 Aug 03 18:24	1° <b>Ω</b> 15'49	
superior conj	4408 Aug 30 06:41	9° mp 29'23	1°41'01	morning set	4409 Aug 07 15:03	9° <b>Ω</b> 12'32	
minimum elong	4408 Aug 30 05:31	9° <b>m</b> )23'11	1°40'57	Č	S		
max. Earth dist.	4408 Sep 02 14:48	16° mp 28'13	1.34275 AU	superior conj	4409 Aug 14 14:23	24°Ω16'25	1°32'02
evening rise	4408 Sep 07 06:01	25° m 46'05	1.0 .2 / 0 110	minimum elong	4409 Aug 14 12:24	24°Ω05'40	1°31'50
evening rise	4408 Sep 09 10:55	0° <u>م</u>		max. Earth dist.	4409 Aug 16 15:44	28°Ω42'25	1.33098 AU
desc. node	4408 Sep 22 16:11	0 <b>=</b> 22° <b>£</b> 42'21		max. Earth dist.	4409 Aug 17 06:16	0° m)	1.33098 AU
desc. node	•				•		
	4408 Sep 27 13:52	0°M	2700440	evening rise	4409 Aug 21 23:51	9° m 50'39	
evening max el	4408 Oct 12 02:18	17°M36'41	27°04'48		4409 Sep 01 19:22	0∘ <b>⊽</b>	
retrograde	4408 Oct 25 09:02	24°M53'49		desc. node	4409 Sep 09 13:11	12° <b>≏</b> 19'04	
evening set	4408 Nov 01 04:48	22°M12'58			4409 Sep 23 16:40	0°M	
min. Earth dist.	4408 Nov 05 02:40	18° <b>™</b> 25′20	0.65287 AU	evening max el	4409 Sep 24 13:39	0° <b>™</b> 50'49	27°26'10
inferior conj	4408 Nov 07 04:14	16°M05'32	-1°54'18	retrograde	4409 Oct 08 04:35	8°M08'02	
minimum elong	4408 Nov 07 07:28	15° <b>™</b> 56′22	1°52'58	evening set	4409 Oct 15 07:53	5° <b>™</b> 30'38	
asc. node	4408 Nov 12 20:32	10° <b>™</b> 49'52		min. Earth dist.	4409 Oct 19 00:26	2°M16'23	0.63727 AU
morning rise	4408 Nov 13 11:06	10°M30'31			4409 Oct 21 05:58	30° <b>₽</b> Ω	
direct	4408 Nov 16 04:08	9° <b>™</b> 50'59		inferior conj	4409 Oct 21 14:12	29° <b>≏</b> 38'51	-2°56'26
morning max el	4408 Nov 22 15:48	13° <b>™</b> 19'27	18°07'32	minimum elong	4409 Oct 21 19:11	29° <b>≏</b> 26'07	
morning man vi	4408 Dec 04 11:28	0° <b>√</b>	10 0, 52	morning rise	4409 Oct 28 07:53	24° <b>Ω</b> 19'56	20.00
morning set	4408 Dec 10 23:02	10° <b>∡</b> ³37'51		direct	4409 Oct 30 19:12	23° <b>♀</b> 50'00	
desc. node	4408 Dec 10 25:02 4408 Dec 19 15:28	24° <b>x</b> 46'39		asc. node	4409 Oct 30 17:35	23° <b>⊆</b> 50'01	
desc. node							17051100
	4408 Dec 22 21:44	0°₹		morning max el	4409 Nov 06 08:31	27° <b>Ω</b> 14'58	17°51'22
					4409 Nov 08 18:57	0° <b>™</b>	
superior conj	4408 Dec 25 11:58	4° <b>ろ</b> 07'09		morning set	4409 Nov 22 23:32	22°M43'47	
minimum elong	4408 Dec 25 07:01	3° <b>る</b> 47'34			4409 Nov 27 05:06	0° <b>∡</b>	
max. Earth dist.	4408 Dec 28 14:11	8° <b>る</b> 59'55	1.45158 AU				
evening rise	4409 Jan 10 19:38	29° <b>る</b> 37'11		superior conj	4409 Dec 05 11:41	13° <b>∡</b> ′50′38	0°07'12
	4409 Jan 11 01:31	0° <b>≈</b>		minimum elong	4409 Dec 05 12:28	13° <b>∡</b> 53′51	0°07'05
greatest brilliancy	4409 Jan 23 16:11	19° <b>≈</b> 21'41	-0.7m	behind sun begin	4409 Dec 05 03:37	13° <b>∡</b> 17'34	
	4409 Jan 31 02:58	0° <b>)</b> €		behind sun end	4409 Dec 05 21:19	14° <b>∡</b> ³30′03	
evening max el	4409 Feb 04 15:46	5° <b>)</b> €23'03	19°36'59	desc. node	4409 Dec 06 12:28	15° <b>∡</b> ³31'54	
asc. node	4409 Feb 08 19:48	8° <b>)</b> 43'40		max. Earth dist.	4409 Dec 11 08:21	23° <b>∡</b> 18'47	1.44351 AU
retrograde	4409 Feb 11 23:26	9° <b>)</b> €36'32					
evening set		9 77 10 1/				0° <del>ठ</del>	
•	4409 Feb. 15, 13:18			evening rise	4409 Dec 15 13:54	0°궁 8°중48'01	
	4409 Feb 15 13:18	8° <b>¥</b> 21'31	3014'12	evening rise	4409 Dec 15 13:54 4409 Dec 21 05:57	8° <b>ප්</b> 48'01	
inferior conj	4409 Feb 21 00:10	8° <b>∺</b> 21'31 2° <b>∺</b> 24'47	3°14'12	-	4409 Dec 15 13:54 4409 Dec 21 05:57 4410 Jan 04 08:04	8° <b>る</b> 48'01 0°≈	200220120
minimum elong	4409 Feb 21 00:10 4409 Feb 20 22:10	8°¥21'31 2°¥24'47 2°¥31'26	3°13'51	evening max el	4409 Dec 15 13:54 4409 Dec 21 05:57 4410 Jan 04 08:04 4410 Jan 18 17:26	8° <b>♂</b> 48'01 0° <b>≈</b> 18° <b>≈</b> 55'37	20°38'38
·	4409 Feb 21 00:10 4409 Feb 20 22:10 4409 Feb 22 03:25	8°¥21'31 2°¥24'47 2°¥31'26 0°¥54'59		evening max el retrograde	4409 Dec 15 13:54 4409 Dec 21 05:57 4410 Jan 04 08:04 4410 Jan 18 17:26 4410 Jan 26 21:39	8°₹48'01 0°≈ 18°≈55'37 23°≈44'55	20°38'38
minimum elong min. Earth dist.	4409 Feb 21 00:10 4409 Feb 20 22:10 4409 Feb 22 03:25 4409 Feb 22 20:26	8° ¥21'31 2° ¥24'47 2° ¥31'26 0° ¥54'59 30° R≈	3°13'51	evening max el retrograde asc. node	4409 Dec 15 13:54 4409 Dec 21 05:57 4410 Jan 04 08:04 4410 Jan 18 17:26 4410 Jan 26 21:39 4410 Jan 26 16:49	8° <b>ठ</b> 48'01 0°≈ 18°≈55'37 23°≈44'55 23°≈44'41	20°38'38
minimum elong min. Earth dist. morning rise	4409 Feb 21 00:10 4409 Feb 20 22:10 4409 Feb 22 03:25 4409 Feb 22 20:26 4409 Feb 26 06:48	8° ★21'31 2° ★24'47 2° ★31'26 0° ★54'59 30° R≈ 26°≈10'39	3°13'51	evening max el retrograde asc. node evening set	4409 Dec 15 13:54 4409 Dec 21 05:57 4410 Jan 04 08:04 4410 Jan 18 17:26 4410 Jan 26 21:39 4410 Jan 26 16:49 4410 Jan 30 20:23	8° <b>5</b> 48'01 0°≈ 18°≈55'37 23°≈44'55 23°≈44'41 22°≈15'24	
minimum elong min. Earth dist.	4409 Feb 21 00:10 4409 Feb 20 22:10 4409 Feb 22 03:25 4409 Feb 22 20:26 4409 Feb 26 06:48 4409 Mar 04 09:26	8° ★21'31 2° ★24'47 2° ★31'26 0° ★54'59 30° R≈ 26°≈10'39 23°≈27'20	3°13'51	evening max el retrograde asc. node evening set inferior conj	4409 Dec 15 13:54 4409 Dec 21 05:57 4410 Jan 04 08:04 4410 Jan 18 17:26 4410 Jan 26 21:39 4410 Jan 26 16:49 4410 Jan 30 20:23 4410 Feb 05 05:01	8°♂48'01 0°≈ 18°≈55'37 23°≈44'55 23°≈44'41 22°≈15'24 16°≈06'04	2°46'35
minimum elong min. Earth dist. morning rise	4409 Feb 21 00:10 4409 Feb 20 22:10 4409 Feb 22 03:25 4409 Feb 22 20:26 4409 Feb 26 06:48	8° ★21'31 2° ★24'47 2° ★31'26 0° ★54'59 30° R≈ 26°≈10'39	3°13'51	evening max el retrograde asc. node evening set	4409 Dec 15 13:54 4409 Dec 21 05:57 4410 Jan 04 08:04 4410 Jan 18 17:26 4410 Jan 26 21:39 4410 Jan 26 16:49 4410 Jan 30 20:23	8°♂48'01 0°≈ 18°≈55'37 23°≈44'55 23°≈44'41 22°≈15'24 16°≈06'04 16°≈14'24	2°46'35 2°45'58
minimum elong min. Earth dist. morning rise	4409 Feb 21 00:10 4409 Feb 20 22:10 4409 Feb 22 03:25 4409 Feb 22 20:26 4409 Feb 26 06:48 4409 Mar 04 09:26	8° ★21'31 2° ★24'47 2° ★31'26 0° ★54'59 30° R≈ 26°≈10'39 23°≈27'20	3°13'51 0.66750 AU	evening max el retrograde asc. node evening set inferior conj	4409 Dec 15 13:54 4409 Dec 21 05:57 4410 Jan 04 08:04 4410 Jan 18 17:26 4410 Jan 26 21:39 4410 Jan 26 16:49 4410 Jan 30 20:23 4410 Feb 05 05:01	8°♂48'01 0°≈ 18°≈55'37 23°≈44'55 23°≈44'41 22°≈15'24 16°≈06'04 16°≈14'24	2°46'35
minimum elong min. Earth dist. morning rise direct	4409 Feb 21 00:10 4409 Feb 20 22:10 4409 Feb 22 03:25 4409 Feb 22 20:26 4409 Feb 26 06:48 4409 Mar 04 09:26 4409 Mar 15 21:09	8° ★21'31 2° ★24'47 2° ★31'26 0° ★54'59 30° R≈ 26° ≈10'39 23° ≈27'20 0° ★	3°13'51 0.66750 AU	evening max el retrograde asc. node evening set inferior conj minimum elong	4409 Dec 15 13:54 4409 Dec 21 05:57 4410 Jan 04 08:04 4410 Jan 18 17:26 4410 Jan 26 21:39 4410 Jan 26 16:49 4410 Jan 30 20:23 4410 Feb 05 05:01 4410 Feb 05 02:35	8°♂48'01 0°≈ 18°≈55'37 23°≈44'55 23°≈44'41 22°≈15'24 16°≈06'04 16°≈14'24	2°46'35 2°45'58
minimum elong min. Earth dist. morning rise direct morning max el	4409 Feb 21 00:10 4409 Feb 20 22:10 4409 Feb 22 03:25 4409 Feb 22 20:26 4409 Feb 26 06:48 4409 Mar 04 09:26 4409 Mar 15 21:09 4409 Mar 16 15:34	8° ★21'31 2° ★24'47 2° ★31'26 0° ★54'59 30° ₹≈ 26° ≈10'39 23° ≈27'20 0° ₩ 0° ★45'44	3°13'51 0.66750 AU	evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	4409 Dec 15 13:54 4409 Dec 21 05:57 4410 Jan 04 08:04 4410 Jan 18 17:26 4410 Jan 26 21:39 4410 Jan 26 16:49 4410 Jan 30 20:23 4410 Feb 05 05:01 4410 Feb 05 02:35 4410 Feb 05 18:52	8°♂48'01 0°≈ 18°≈55'37 23°≈44'55 23°≈44'41 22°≈15'24 16°≈06'04 16°≈14'24 15°≈18'37	2°46'35 2°45'58
minimum elong min. Earth dist. morning rise direct morning max el	4409 Feb 21 00:10 4409 Feb 20 22:10 4409 Feb 22 03:25 4409 Feb 22 20:26 4409 Feb 26 06:48 4409 Mar 04 09:26 4409 Mar 15 21:09 4409 Mar 16 15:34 4409 Mar 17 14:40	8° ★21'31 2° ★24'47 2° ★31'26 0° ★54'59 30° ₹≈ 26°≈10'39 23°≈27'20 0° ₩ 0° ★45'44 1° ★45'19	3°13'51 0.66750 AU	evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	4409 Dec 15 13:54 4409 Dec 21 05:57 4410 Jan 04 08:04 4410 Jan 18 17:26 4410 Jan 26 21:39 4410 Jan 26 16:49 4410 Jan 30 20:23 4410 Feb 05 05:01 4410 Feb 05 02:35 4410 Feb 05 18:52 4410 Feb 10 08:36	8°548'01 0°≈ 18°≈55'37 23°≈44'55 23°≈44'41 22°≈15'24 16°≈06'04 16°≈14'24 15°≈18'37 9°≈52'23	2°46'35 2°45'58
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minimum elong min. Earth dist.  morning rise direct  morning max el desc. node  morning set  max. Earth dist.  superior conj minimum elong asc. node	4409 Feb 21 00:10 4409 Feb 20 22:10 4409 Feb 20 22:10 4409 Feb 22 20:26 4409 Feb 26 06:48 4409 Mar 04 09:26 4409 Mar 15 21:09 4409 Mar 16 15:34 4409 Mar 17 14:40 4409 Apr 07 14:49 4409 Apr 21 20:48 4409 Apr 25 01:20 4409 May 01 08:16 4409 May 01 08:16 4409 May 07 19:07 4409 May 09 08:59 4409 May 10 01:08 4409 May 27 02:59	8° ★21'31 2° ★24'47 2° ★31'26 0° ★54'59 30° ₹≈ 26° ≈10'39 23° ≈27'20 0° ★ 0° ★45'44 1° ★45'19 0° ♀ 24° ♀04'38 0° ௧ 1° ௧ 32'44 25° ௧ 24'34 28° ௧ 38'03 0° Ⅲ 27° Ⅲ 32'02	3°13'51 0.66750 AU 25°38'54 1.35932 AU -1°02'42	evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist. superior conj minimum elong	4409 Dec 15 13:54 4409 Dec 21 05:57 4410 Jan 04 08:04 4410 Jan 18 17:26 4410 Jan 26 21:39 4410 Jan 30 20:23 4410 Feb 05 05:01 4410 Feb 05 02:35 4410 Feb 10 08:36 4410 Feb 15 21:21 4410 Feb 27 00:13 4410 Mar 04 11:41 4410 Mar 11 23:17 4410 Mar 31 11:53 4410 Apr 03 19:04 4410 Apr 07 11:58  4410 Apr 14 13:08 4410 Apr 14 17:45 4410 Apr 16 23:49	8°₹48'01 0°≈ 18°≈55'37 23°≈44'55 23°≈44'41 22°≈15'24 16°≈06'04 16°≈14'24 15°≈18'37 9°≈52'23 7°≈25'06 14°≈03'33 20°≈12'28 0°¥ 0°Y 5°Y38'08 12°Y10'43 25°Y16'21 25°Y38'33 0°♥	2°46'35 2°45'58 0.67562 AU 24°13'38 1.37959 AU -1°30'20
minimum elong min. Earth dist.  morning rise direct  morning max el desc. node  morning set  max. Earth dist.  superior conj minimum elong asc. node evening rise	4409 Feb 21 00:10 4409 Feb 20 22:10 4409 Feb 20 22:10 4409 Feb 22 03:25 4409 Feb 26 06:48 4409 Mar 04 09:26 4409 Mar 15 21:09 4409 Mar 16 15:34 4409 Mar 17 14:40 4409 Apr 07 14:49 4409 Apr 21 20:48 4409 Apr 25 01:20 4409 Apr 25 15:10  4409 May 01 08:16 4409 May 07 19:07 4409 May 09 08:59 4409 May 10 01:08	8° ★21'31 2° ★24'47 2° ★31'26 0° ★54'59 30° ₹≈ 26° ≈10'39 23° ≈27'20 0° ★ 0° ★45'44 1° ★45'19 0° ♀ 24° ♀04'38 0° ₴ 1° ₴05'35  12° ₴32'44 25° ₴24'34 28° ₴38'03 0° 耳	3°13'51 0.66750 AU 25°38'54 1.35932 AU -1°02'42 1°02'07	evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	4409 Dec 15 13:54 4409 Dec 21 05:57 4410 Jan 04 08:04 4410 Jan 18 17:26 4410 Jan 26 21:39 4410 Jan 30 20:23 4410 Feb 05 05:01 4410 Feb 05 02:35 4410 Feb 10 08:36 4410 Feb 15 21:21 4410 Feb 15 21:21 4410 Feb 27 00:13 4410 Mar 04 11:41 4410 Mar 11 23:17 4410 Mar 31 11:53 4410 Apr 03 19:04 4410 Apr 07 11:58  4410 Apr 14 13:08 4410 Apr 14 17:45 4410 Apr 16 23:49 4410 Apr 23 08:42	8°548'01 0°≈ 18°≈55'37 23°≈44'55 23°≈44'41 22°≈15'24 16°≈06'04 16°≈14'24 15°≈18'37 9°≈52'23 7°≈25'06 14°≈03'33 20°≈12'28 0°¥ 0°Y 5°Y38'08 12°Y10'43 25°Y16'21 25°Y38'33 0°8 12°833'38	2°46'35 2°45'58 0.67562 AU 24°13'38 1.37959 AU -1°30'20
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minimum elong min. Earth dist.  morning rise direct  morning max el desc. node  morning set  max. Earth dist.  superior conj minimum elong asc. node evening rise  evening max el	4409 Feb 21 00:10 4409 Feb 20 22:10 4409 Feb 20 03:25 4409 Feb 22 20:26 4409 Feb 26 06:48 4409 Mar 04 09:26 4409 Mar 15 21:09 4409 Mar 16 15:34 4409 Mar 17 14:40 4409 Apr 07 14:49 4409 Apr 21 20:48 4409 Apr 25 01:20 4409 Apr 25 15:10  4409 May 01 08:16 4409 May 01 08:16 4409 May 07 19:07 4409 May 09 08:59 4409 May 10 01:08 4409 May 27 02:59 4409 May 30 01:20	8°\£21'31 2°\£24'47 2°\£31'26 0°\£54'59 30°\£\$ 26°\£10'39 23°\£27'20 0°\£ 0°\£45'44 1°\£45'19 0°\Y 24°\Y04'38 0°\\$ 1°\\$05'35  12°\\$15'41 12°\\$32'44 25°\\$24'34 28°\\$38'03 0°\\$\\$1 27°\\$\\$132'02 0°\\$\$	3°13'51 0.66750 AU 25°38'54 1.35932 AU -1°02'42 1°02'07	evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist. superior conj minimum elong evening rise	4409 Dec 15 13:54 4409 Dec 21 05:57 4410 Jan 04 08:04 4410 Jan 18 17:26 4410 Jan 26 21:39 4410 Jan 30 20:23 4410 Feb 05 05:01 4410 Feb 05 02:35 4410 Feb 10 08:36 4410 Feb 15 21:21 4410 Feb 15 21:21 4410 Feb 27 00:13 4410 Mar 04 11:41 4410 Mar 11 23:17 4410 Mar 31 11:53 4410 Apr 03 19:04 4410 Apr 07 11:58  4410 Apr 14 13:08 4410 Apr 14 17:45 4410 Apr 16 23:49 4410 Apr 23 08:42	8°548'01 0°≈ 18°≈55'37 23°≈44'55 23°≈44'41 22°≈15'24 16°≈06'04 16°≈14'24 15°≈18'37 9°≈52'23 7°≈25'06 14°≈03'33 20°≈12'28 0°¥ 0°Y 5°Y38'08 12°Y10'43 25°Y16'21 25°Y38'33 0°8 12°833'38	2°46'35 2°45'58 0.67562 AU 24°13'38 1.37959 AU -1°30'20

evening max el	4410.14 00 00 10	00 110 4110	10000125		4411 4 20 14 11	250 42 456	
	4410 May 09 22:13	9° <b>∏</b> 24'12	19*03*35	retrograde	4411 Apr 30 14:11	25° <b>8</b> 34'56	
retrograde	4410 May 18 15:40	13° <b>Ⅲ</b> 39'51		evening set	4411 May 02 22:04	25° <b>8</b> 14'27	
evening set	4410 May 20 16:51	13° <b>Ⅱ</b> 26'43		inferior conj	4411 May 10 08:11	20° <b>8</b> 41'34	2°08'56
inferior conj	4410 May 28 22:42	9° <b>Ⅱ</b> 13'19	0°43'37	minimum elong	4411 May 10 11:47	20° <b>8</b> 34'17	2°07'54
minimum elong	4410 May 29 00:26	9° <b>Ⅱ</b> 10′21	0°43'00	min. Earth dist.	4411 May 13 18:39	17° <b>8</b> 56'06	0.58441 AU
desc. node	4410 May 31 10:53	7° <b>Ⅱ</b> 29'24		morning rise	4411 May 17 22:22	15° <b>8</b> 12'55	
min. Earth dist.	4410 May 31 23:01	7° <b>Ⅱ</b> 09'04	0.56522 AU	desc. node	4411 May 18 07:54	15° <b>8</b> 00'59	
morning rise	4410 Jun 06 04:46	4° <b>Ⅱ</b> 17′00		direct	4411 May 23 23:12	13° <b>8</b> 37'50	
direct	4410 Jun 11 07:37	3° <b>Ⅱ</b> 15′20		morning max el	4411 Jun 07 08:34	21° <b>8</b> 20'55	27°00'01
morning max el	4410 Jun 25 14:12	10° <b>Ⅱ</b> 36'19	25°43'19		4411 Jun 14 21:24	$\Pi^{\circ}$	
	4410 Jul 10 09:08	0°€			4411 Jul 03 04:10	0°€	
asc. node	4410 Jul 21 15:25	21° <b>©</b> 00'32		morning set	4411 Jul 07 11:59	8°5548'29	
morning set	4410 Jul 23 02:27	24° <b>©</b> 04'08		asc. node	4411 Jul 08 12:27	10° <b>©</b> 57'50	
. 8	4410 Jul 25 20:42	$0^{\circ}\Omega$					
	1110 Jul 23 20:12	o 00		superior conj	4411 Jul 14 12:53	24° <b>©</b> 05'09	0°59'23
superior conj	4410 Jul 30 01:04	9° <b>Ω</b> 10'24	1°17'55	minimum elong	4411 Jul 14 10:42	23°953'08	0°59'00
minimum elong	4410 Jul 29 22:45	8° <b>Ω</b> 57'40	1°17'35	max. Earth dist.	4411 Jul 14 10:42	23° <b>9</b> 51'36	1.32006 AU
max. Earth dist.	4410 Jul 30 23:20			max. Earm dist.			1.32000 AU
		11°Ω12'36	1.32343 AU		4411 Jul 17 05:16	0° <b>U</b>	
evening rise	4410 Aug 06 01:46	24° <b>Ω</b> 17'35		evening rise	4411 Jul 21 09:09	8° <b>Ω</b> 58'55	
	4410 Aug 08 21:03	0° m/			4411 Aug 01 06:03	0° <b>m</b>	
	4410 Aug 26 12:03	0∘ <b>⊽</b>		desc. node	4411 Aug 14 07:13	19° <b>m</b> 19'34	
desc. node	4410 Aug 27 10:12	1° <b>≏</b> 16'51		evening max el	4411 Aug 19 23:19	25° Mp 28'50	26°33'38
evening max el	4410 Sep 06 21:27	13° <b>≏</b> 31'50	27°16'39		4411 Aug 25 17:00	0∘ <b>⊽</b>	
retrograde	4410 Sep 20 17:28	20° <b>≏</b> 46′02		retrograde	4411 Sep 02 22:11	2° <b>≏</b> 38'40	
evening set	4410 Sep 27 21:07	18° <b>≏</b> 23'57		evening set	4411 Sep 09 15:48	0° <b>ჲ</b> 44'49	
min. Earth dist.	4410 Oct 01 11:53	15° <b>≙</b> 35'45	0.61861 AU		4411 Sep 10 22:02	30°₽,₩)	
inferior conj	4410 Oct 04 12:20	12° <b>≏</b> 51'39	-3°55'24	min. Earth dist.	4411 Sep 13 13:02	28° Mp 09'13	0.59812 AU
minimum elong	4410 Oct 04 18:22	12° <b>≏</b> 37'55	3°53'43	inferior conj	4411 Sep 16 19:09	25° mp 34'34	-4°44'16
morning rise	4410 Oct 11 17:27	7° <b>≏</b> 51'58		minimum elong	4411 Sep 17 00:29	25° m 23'56	
direct	4410 Oct 14 01:48	7° <b>Ω</b> 28'19		morning rise	4411 Sep 24 11:16	20° m 56'44	
asc. node	4410 Oct 17 14:37	8° <b>ഫ</b> 23'52		direct	4411 Sep 26 19:59	20° m/36'27	
morning max el	4410 Oct 21 00:06	10° <b>⊆</b> 58'20	17°53'24	asc. node	4411 Oct 04 11:40	24° Mp 21'21	
morning max ci	4410 Nov 02 15:16	0°M	17 33 24	morning max el	4411 Oct 04 11:11	24° Mp 20'10	18°14'49
				morning max er			10 1449
morning set	4410 Nov 05 20:27	5° <b>M</b> 48′12		. ,	4411 Oct 09 02:58	0∘ <b>⊽</b>	
	441037 16 14 01	2 40M 5212 4	004644	morning set	4411 Oct 20 07:54	19° <b>Ω</b> 33'32	
superior conj	4410 Nov 16 14:01	24°M52'24	0°46'43		4411 Oct 25 20:38	0°M₊	
minimum elong	4410 Nov 16 17:45	25°M08'30	0°46'13				
	4410 Nov 19 14:14	0° <b>∡</b>		superior conj	4411 Oct 29 16:52		1°15'36
desc. node	4410 Nov 23 09:29	6° <b>∡</b> 19'26		minimum elong	4411 Oct 29 20:46	7° <b>M</b> ₊22'48	1°15'10
				2	4411 Oct 29 20.40		
max. Earth dist.	4410 Nov 23 22:22	7° <b>∡</b> 12'13	1.42922 AU	max. Earth dist.	4411 Nov 06 07:18	20°M27'21	1.41051 AU
max. Earth dist. evening rise			1.42922 AU	2			1.41051 AU
	4410 Nov 23 22:22	7° <b>∡</b> 12'13	1.42922 AU	max. Earth dist.	4411 Nov 06 07:18	20°M27'21	1.41051 AU
	4410 Nov 23 22:22 4410 Nov 30 19:51	7° <b>х¹</b> 12'13 18° <b>х¹</b> 14'23	1.42922 AU	max. Earth dist. desc. node	4411 Nov 06 07:18 4411 Nov 10 06:31	20°M27'21 27°M05'21	1.41051 AU
	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40	7°፟፟҂12'13 18°҆҂14'23 0°ठ	1.42922 AU 21°51'21	max. Earth dist. desc. node	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06	20°M27'21 27°M05'21 28°M29'37	1.41051 AU
evening rise	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08	7° <b>҂</b> 12'13 18° <b>҂</b> 14'23 0°る 0°≈		max. Earth dist. desc. node	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20	20°M27'21 27°M05'21 28°M29'37 0°✓	1.41051 AU 23°10'23
evening rise evening max el retrograde	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 01 13:41 4411 Jan 10 18:53	7° ₹12'13 18° ₹14'23 0° ₹ 0° ≈ 2° ≈29'55 7° ≈58'49		max. Earth dist. desc. node evening rise	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°उ06'59	
evening rise  evening max el retrograde asc. node	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 01 13:41 4411 Jan 10 18:53 4411 Jan 13 13:51	7° 🗗 12'13 18° 🗗 14'23 0° 古 0° ミ 2° ミ29'55 7° ミ58'49 7° ミ17'02		max. Earth dist. desc. node evening rise evening max el retrograde	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 25 13:29	20°M27'21 27°M05'21 28°M29'37 0°メ 0°उ 16°उ06'59 22°उ14'07	
evening rise evening max el retrograde	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 01 13:41 4411 Jan 10 18:53 4411 Jan 13 13:51 4411 Jan 15 04:07	7° 🗷 12'13 18° 🗷 14'23 0° 云 0° ≈ 2° ≈ 29'55 7° ≈ 58'49 7° ≈ 17'02 6° ≈ 13'55		max. Earth dist. desc. node evening rise  evening max el retrograde evening set	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 25 13:29 4411 Dec 30 10:55	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°उ06'59 22°उ14'07 20°उ13'19	
evening rise  evening max el retrograde asc. node evening set	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 01 13:41 4411 Jan 10 18:53 4411 Jan 13 13:51 4411 Jan 15 04:07 4411 Jan 20 11:00	7° 🖈 12'13 18° 🖈 14'23 0° 云 0° 会 2° ≈ 29'55 7° ≈ 58'49 7° ≈ 17'02 6° ≈ 13'55 30° R 云	21°51'21	max. Earth dist. desc. node evening rise  evening max el retrograde evening set asc. node	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 25 13:29 4411 Dec 30 10:55 4411 Dec 31 10:53	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°づ 16°づ06'59 22°づ14'07 20°づ13'19 19°づ18'08	23°10'23
evening rise  evening max el retrograde asc. node evening set  inferior conj	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 01 13:41 4411 Jan 10 18:53 4411 Jan 13 13:51 4411 Jan 15 04:07 4411 Jan 20 11:00 4411 Jan 20 12:22	7° 🖈 12'13 18° 🖈 14'23 0° 云 0° ≈ 2° ≈ 29'55 7° ≈ 58'49 7° ≈ 17'02 6° ≈ 13'55 30° R 云 29° 云 55'18	21°51'21 2°10'16	max. Earth dist. desc. node evening rise  evening max el retrograde evening set asc. node inferior conj	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 25 13:29 4411 Dec 30 10:55 4411 Dec 31 10:53 4412 Jan 04 20:17	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°उ06'59 22°उ14'07 20°उ13'19 19°उ18'08 13°उ49'09	23°10'23 1°26'32
evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 01 13:41 4411 Jan 10 18:53 4411 Jan 13 13:51 4411 Jan 15 04:07 4411 Jan 20 11:00 4411 Jan 20 12:22 4411 Jan 20 10:00	7° ₹12'13 18° ₹14'23 0° ₹ 0° ≈ 2° ≈29'55 7° ≈58'49 7° ≈17'02 6° ≈13'55 30° ₹₹ 29° ₹55'18 0° ≈03'30	21°51'21 2°10'16 2°09'30	max. Earth dist. desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 25 13:29 4411 Dec 30 10:55 4411 Dec 31 10:53 4412 Jan 04 20:17 4412 Jan 04 18:27	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°उ06'59 22°उ14'07 20°उ13'19 19°उ18'08 13°उ49'09 13°उ55'28	23°10'23 1°26'32 1°25'50
evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist.	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 01 13:41 4411 Jan 10 18:53 4411 Jan 13 13:51 4411 Jan 15 04:07 4411 Jan 20 11:00 4411 Jan 20 10:00 4411 Jan 20 10:00 4411 Jan 20 14:12	7° ₹12'13 18° ₹14'23 0° ₹ 0° ≈ 2° ≈29'55 7° ≈58'49 7° ≈17'02 6° ≈13'55 30° ₹₹ 29° ₹55'18 0° ≈03'30 29° ₹48'54	21°51'21 2°10'16	max. Earth dist. desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 25 13:29 4411 Dec 30 10:55 4411 Dec 31 10:53 4412 Jan 04 20:17 4412 Jan 04 18:27 4412 Jan 04 10:59	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°ठ06'59 22°उ14'07 20°उ13'19 19°उ18'08 13°उ49'09 13°उ5'55'28 14°उ21'10	23°10'23 1°26'32
evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 10 18:53 4411 Jan 13 13:51 4411 Jan 15 04:07 4411 Jan 20 11:00 4411 Jan 20 10:00 4411 Jan 20 14:12 4411 Jan 20 15:42	7° 🖈 12'13 18° 🖈 14'23 0° 云 0° 会 2° 会29'55 7° 会58'49 7° 会17'02 6° 会13'55 30° R 云 29° 云55'18 0° 会03'30 29° 云48'54 23° 云43'44	21°51'21 2°10'16 2°09'30	max. Earth dist. desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 25 13:29 4411 Dec 30 10:55 4411 Dec 31 10:53 4412 Jan 04 20:17 4412 Jan 04 18:27 4412 Jan 04 10:59 4412 Jan 10 01:52	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°उ06'59 22°उ14'07 20°उ13'19 19°उ18'08 13°उ49'09 13°उ5'5'28 14°उ21'10 7°उ41'32	23°10'23 1°26'32 1°25'50
evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 10 18:53 4411 Jan 13 13:51 4411 Jan 15 04:07 4411 Jan 20 11:00 4411 Jan 20 10:00 4411 Jan 20 14:12 4411 Jan 25 15:42 4411 Jan 30 13:47	7° 🖈 12'13 18° 🖈 14'23 0° 云 0° 云 2° ≈ 29'55 7° ≈ 58'49 7° ≈ 17'02 6° ≈ 13'55 30° R云 29° 云 55'18 0° ≈ 03'30 29° 云 48'54 23° 云 43'44 21° 云 37'28	21°51'21 2°10'16 2°09'30 0.67979 AU	max. Earth dist. desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 30 10:55 4411 Dec 31 10:53 4412 Jan 04 20:17 4412 Jan 04 18:27 4412 Jan 04 10:59 4412 Jan 10 01:52 4412 Jan 14 09:36	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°उ06'59 22°उ13'19 19°318'08 13°349'09 13°35'5'28 14°321'10 7°341'32 5°35'8'09	23°10'23 1°26'32 1°25'50 0.68023 AU
evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 10 18:53 4411 Jan 13 13:51 4411 Jan 15 04:07 4411 Jan 20 11:00 4411 Jan 20 10:00 4411 Jan 20 14:12 4411 Jan 25 15:42 4411 Jan 30 13:47 4411 Feb 09 10:07	7° \$\frac{7}{12'13} 18° \$\frac{7}{14'23} 0° \$\frac{7}{0}\$ 0° \$\infty\$ 2° \$\infty\$29'55 7° \$\infty\$58'49 7° \$\infty\$17'02 6° \$\infty\$13'55 30° \$\frac{7}{55'18} 0° \$\infty\$03'30 29° \$\frac{7}{548'54} 23° \$\frac{7}{543'44} 21° \$\frac{7}{537'28} 27° \$\frac{7}{527'06}	21°51'21 2°10'16 2°09'30	max. Earth dist. desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 25 13:29 4411 Dec 30 10:55 4411 Dec 31 10:53 4412 Jan 04 20:17 4412 Jan 04 18:27 4412 Jan 04 10:59 4412 Jan 10 01:52 4412 Jan 14 09:36 4412 Jan 23 00:53	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°उ06'59 22°उ13'19 19°उ18'08 13°उ49'09 13°उ55'28 14°उ21'10 7°उ41'32 5°उ58'09 10°उ59'08	23°10'23 1°26'32 1°25'50
evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct morning max el	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 01 13:41 4411 Jan 10 18:53 4411 Jan 13 13:51 4411 Jan 15 04:07 4411 Jan 20 11:00 4411 Jan 20 12:22 4411 Jan 20 14:12 4411 Jan 20 14:12 4411 Jan 30 13:47 4411 Feb 09 10:07 4411 Feb 11 19:24	7° \$\times 12'13 18° \$\times 14'23 0° \$\times 0° \$\times 2° \$\times 29'55 7° \$\times 58'49 7° \$\times 17'02 6° \$\times 13'55 30° \$\times 29° \$\times 55'18 0° \$\times 03'30 29° \$\times 48'54 23° \$\times 43'44 21° \$\times 37'28 27° \$\times 27'06 0° \$\times 12'106	21°51'21 2°10'16 2°09'30 0.67979 AU	max. Earth dist. desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 30 10:55 4411 Dec 31 10:53 4412 Jan 04 20:17 4412 Jan 04 10:59 4412 Jan 10 01:52 4412 Jan 14 09:36 4412 Jan 23 00:53 4412 Jan 23 00:53 4412 Feb 06 05:45	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°उ06'59 22°उ13'19 19°उ18'08 13°उ49'09 13°उ55'28 14°उ21'10 7°उ41'32 5°उ58'09 10°उ59'08 29°उ07'55	23°10'23 1°26'32 1°25'50 0.68023 AU
evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 01 13:41 4411 Jan 10 18:53 4411 Jan 15 04:07 4411 Jan 20 11:00 4411 Jan 20 12:22 4411 Jan 20 14:12 4411 Jan 20 14:12 4411 Jan 20 13:47 4411 Jan 30 13:47 4411 Feb 09 10:07 4411 Feb 11 19:24 4411 Feb 19 08:42	7° \$\frac{7}{12'13} 18° \$\frac{7}{14'23} 0° \$\frac{7}{0} \color \frac{7}{0} \color \frac	21°51'21 2°10'16 2°09'30 0.67979 AU	max. Earth dist. desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 30 10:55 4411 Dec 31 10:53 4412 Jan 04 20:17 4412 Jan 04 10:59 4412 Jan 10 01:52 4412 Jan 14 09:36 4412 Jan 23 00:53 4412 Feb 06 05:45 4412 Feb 06 20:15	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°उ06'59 22°उ14'07 20°उ13'19 19°उ18'08 13°उ55'28 14°321'10 7°उ41'32 5°उ58'09 10°उ59'08 29°उ07'55 0°≈	23°10'23 1°26'32 1°25'50 0.68023 AU
evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct morning max el	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 01 13:41 4411 Jan 10 18:53 4411 Jan 13 13:51 4411 Jan 15 04:07 4411 Jan 20 11:00 4411 Jan 20 12:22 4411 Jan 20 14:12 4411 Jan 20 14:12 4411 Jan 30 13:47 4411 Feb 09 10:07 4411 Feb 11 19:24	7° \$\times 12'13 18° \$\times 14'23 0° \$\times 0° \$\times 2° \$\times 29'55 7° \$\times 58'49 7° \$\times 17'02 6° \$\times 13'55 30° \$\times 29° \$\times 55'18 0° \$\times 03'30 29° \$\times 43'44 21° \$\times 37'28 27° \$\times 27'06 0° \$\times 9° \$\times 24'16 0° \$\times 1	21°51'21 2°10'16 2°09'30 0.67979 AU	max. Earth dist. desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 30 10:55 4411 Dec 31 10:53 4412 Jan 04 20:17 4412 Jan 04 10:59 4412 Jan 10 01:52 4412 Jan 14 09:36 4412 Jan 23 00:53 4412 Feb 06 05:45 4412 Feb 06 20:15 4412 Feb 23 06:33	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°उ06'59 22°उ14'07 20°उ13'19 19°उ18'08 13°उ55'28 14°321'10 7°उ41'32 5°उ58'09 10°उ59'08 29°उ07'55 0°≈ 24°≈50'27	23°10'23 1°26'32 1°25'50 0.68023 AU
evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct morning max el	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 01 13:41 4411 Jan 10 18:53 4411 Jan 15 04:07 4411 Jan 20 11:00 4411 Jan 20 12:22 4411 Jan 20 14:12 4411 Jan 20 14:12 4411 Jan 20 13:47 4411 Jan 30 13:47 4411 Feb 09 10:07 4411 Feb 11 19:24 4411 Feb 19 08:42	7° \$\frac{7}{12'13} 18° \$\frac{7}{14'23} 0° \$\frac{7}{0} \color \frac{7}{0} \color \frac	21°51'21 2°10'16 2°09'30 0.67979 AU	max. Earth dist. desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 30 10:55 4411 Dec 31 10:53 4412 Jan 04 20:17 4412 Jan 04 10:59 4412 Jan 10 01:52 4412 Jan 14 09:36 4412 Jan 23 00:53 4412 Feb 06 05:45 4412 Feb 06 20:15	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°उ06'59 22°उ14'07 20°उ13'19 19°उ18'08 13°उ55'28 14°321'10 7°उ41'32 5°उ58'09 10°उ59'08 29°उ07'55 0°≈	23°10'23 1°26'32 1°25'50 0.68023 AU
evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 01 13:41 4411 Jan 10 18:53 4411 Jan 15 04:07 4411 Jan 20 11:00 4411 Jan 20 12:22 4411 Jan 20 10:00 4411 Jan 20 14:12 4411 Jan 30 13:47 4411 Feb 09 10:07 4411 Feb 11 19:24 4411 Feb 19 08:42 4411 Mar 05 14:46	7° \$\times 12'13 18° \$\times 14'23 0° \$\times 0° \$\times 2° \$\times 29'55 7° \$\times 58'49 7° \$\times 17'02 6° \$\times 13'55 30° \$\times 29° \$\times 55'18 0° \$\times 03'30 29° \$\times 43'44 21° \$\times 37'28 27° \$\times 27'06 0° \$\times 9° \$\times 24'16 0° \$\times 1	21°51'21 2°10'16 2°09'30 0.67979 AU	max. Earth dist. desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 30 10:55 4411 Dec 31 10:53 4412 Jan 04 20:17 4412 Jan 04 10:59 4412 Jan 10 01:52 4412 Jan 14 09:36 4412 Jan 23 00:53 4412 Feb 06 05:45 4412 Feb 06 20:15 4412 Feb 23 06:33	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°उ06'59 22°उ14'07 20°उ13'19 19°उ18'08 13°उ55'28 14°321'10 7°341'32 5°358'09 10°359'08 29°307'55 0°≈ 24°≈50'27 0°长	23°10'23 1°26'32 1°25'50 0.68023 AU
evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 01 13:41 4411 Jan 10 18:53 4411 Jan 15 04:07 4411 Jan 20 11:00 4411 Jan 20 12:22 4411 Jan 20 10:00 4411 Jan 20 14:12 4411 Jan 30 13:47 4411 Feb 09 10:07 4411 Feb 11 19:24 4411 Feb 19 08:42 4411 Mar 05 14:46 4411 Mar 15 15:07	7° 🖈 12'13 18° 🖈 14'23 0° ♂ 0° ≈ 2° ≈ 29'55 7° ≈ 58'49 7° ≈ 17'02 6° ≈ 13'55 30° R♂ 29° ♂ 555'18 0° ≈ 03'30 29° ♂ 48'54 23° ♂ 43'44 21° ♂ 37'28 27° ♂ 27'06 0° ≈ 9° ≈ 24'16 0° 升 15° 升 54'37	21°51'21 2°10'16 2°09'30 0.67979 AU 22°44'25	max. Earth dist. desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 25 13:29 4411 Dec 30 10:55 4411 Dec 31 10:53 4412 Jan 04 20:17 4412 Jan 04 18:27 4412 Jan 10 01:52 4412 Jan 10 01:52 4412 Jan 10 01:52 4412 Jan 10 01:52 4412 Jan 23 00:53 4412 Feb 06 05:45 4412 Feb 06 20:15 4412 Feb 23 06:33 4412 Feb 26 12:18	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°उ06'59 22°उ14'07 20°उ13'19 19°उ18'08 13°उ55'28 14°321'10 7°341'32 5°358'09 10°359'08 29°307'55 0°≈ 24°≈50'27 0°长	23°10'23 1°26'32 1°25'50 0.68023 AU 21°20'05
evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 01 13:41 4411 Jan 10 18:53 4411 Jan 13 13:51 4411 Jan 15 04:07 4411 Jan 20 11:00 4411 Jan 20 12:22 4411 Jan 20 10:00 4411 Jan 20 14:12 4411 Jan 30 13:47 4411 Feb 09 10:07 4411 Feb 11 19:24 4411 Mar 05 14:46 4411 Mar 15 15:07 4411 Mar 20 07:18	7° \$\times 12'13 18° \$\times 14'23 0° \$\times 0° \$\times 2° \$\times 29'55 7° \$\times 58'49 7° \$\times 17'02 6° \$\times 13'55 30° \$\times 29° \$\times 55'18 0° \$\times 03'30 29° \$\times 48'54 23° \$\times 43'44 21° \$\times 37'28 27° \$\times 27'06 0° \$\times 9° \$\times 24'16 0° \$\times 15° \$\times 54'37 23° \$\times 45'20	21°51'21 2°10'16 2°09'30 0.67979 AU 22°44'25	max. Earth dist. desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 25 13:29 4411 Dec 30 10:55 4411 Dec 31 10:53 4412 Jan 04 20:17 4412 Jan 04 18:27 4412 Jan 10 01:52 4412 Jan 10 01:52 4412 Jan 10 01:52 4412 Jan 10 01:52 4412 Jan 23 00:53 4412 Feb 06 05:45 4412 Feb 06 20:15 4412 Feb 23 06:33 4412 Feb 26 12:18	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°उ06'59 22°उ14'07 20°उ13'19 19°उ18'08 13°उ55'28 14°321'10 7°341'32 5°358'09 10°359'08 29°307'55 0°≈ 24°≈50'27 0°长	23°10'23 1°26'32 1°25'50 0.68023 AU 21°20'05
evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 01 13:41 4411 Jan 10 18:53 4411 Jan 13 13:51 4411 Jan 15 04:07 4411 Jan 20 11:00 4411 Jan 20 12:22 4411 Jan 20 10:00 4411 Jan 20 14:12 4411 Jan 30 13:47 4411 Feb 09 10:07 4411 Feb 11 19:24 4411 Mar 05 14:46 4411 Mar 15 15:07 4411 Mar 20 07:18	7° \$\times 12'13 18° \$\times 14'23 0° \$\times 0° \$\times 2° \$\times 29'55 7° \$\times 58'49 7° \$\times 17'02 6° \$\times 13'55 30° \$\times 29° \$\times 55'18 0° \$\times 03'30 29° \$\times 48'54 23° \$\times 43'44 21° \$\times 37'28 27° \$\times 27'06 0° \$\times 9° \$\times 24'16 0° \$\times 15° \$\times 54'37 23° \$\times 45'20	21°51'21 2°10'16 2°09'30 0.67979 AU 22°44'25	max. Earth dist.  desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set  max. Earth dist.	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 25 13:29 4411 Dec 30 10:55 4411 Dec 31 10:53 4412 Jan 04 20:17 4412 Jan 04 18:27 4412 Jan 04 10:59 4412 Jan 10 01:52 4412 Jan 10 01:52 4412 Jan 10 01:52 4412 Jan 23 00:53 4412 Feb 06 05:45 4412 Feb 06 20:15 4412 Feb 23 06:33 4412 Feb 26 12:18 4412 Mar 01 08:25	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°उ06'59 22°उ14'07 20°उ13'19 19°उ18'08 13°उ49'09 13°उ55'28 14°उ21'10 7°उ41'32 5°उ58'09 10°उ59'08 29°उ07'55 0°≈ 24°≈50'27 0° 升 6°升14'13	23°10'23 1°26'32 1°25'50 0.68023 AU 21°20'05 1.42215 AU -2°06'34
evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 10 13:41 4411 Jan 10 18:53 4411 Jan 15 04:07 4411 Jan 20 11:00 4411 Jan 20 12:22 4411 Jan 20 10:00 4411 Jan 20 14:12 4411 Jan 20 14:12 4411 Jan 30 13:47 4411 Feb 09 10:07 4411 Feb 11 19:24 4411 Mar 05 14:46 4411 Mar 15 15:07 4411 Mar 20 07:18 4411 Mar 23 21:43	7° \$\times 12'13 18° \$\times 14'23 0° \$\times 0° \$\times 0° \$\times 2° \$\in 29'55 7° \$\in 58'49 7° \$\in 17'02 6° \$\in 13'55 30° \$\times 29° \$\times 55'18 0° \$\in 03'30 29° \$\times 48'54 23° \$\times 43'44 21° \$\times 37'28 27° \$\times 27'06 0° \$\times 9° \$\in 24'16 0° \$\times 15° \$\times 54'37 23° \$\times 45'20 0° \$\times 15'\$	21°51'21 2°10'16 2°09'30 0.67979 AU 22°44'25 1.40148 AU -1°53'07	max. Earth dist. desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set  max. Earth dist. superior conj	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 25 13:29 4411 Dec 30 10:55 4411 Dec 31 10:53 4412 Jan 04 20:17 4412 Jan 04 18:27 4412 Jan 04 10:59 4412 Jan 10 01:52 4412 Jan 10 01:52 4412 Jan 10 01:52 4412 Jan 10 01:52 4412 Jan 23 00:53 4412 Feb 06 05:45 4412 Feb 06 20:15 4412 Feb 23 06:33 4412 Feb 26 12:18 4412 Mar 08 18:01 4412 Mar 08 18:01 4412 Mar 08 20:06	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°उ06'59 22°उ14'07 20°उ13'19 19°उ18'08 13°उ49'09 13°उ55'28 14°उ21'10 7°उ41'32 5°उ58'09 10°उ59'08 29°उ07'55 0°≈ 24°≈50'27 0°¥ 6°¥14'13	23°10'23 1°26'32 1°25'50 0.68023 AU 21°20'05 1.42215 AU -2°06'34
evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 10 18:53 4411 Jan 10 18:53 4411 Jan 15 04:07 4411 Jan 20 11:00 4411 Jan 20 12:22 4411 Jan 20 10:00 4411 Jan 20 14:12 4411 Jan 20 14:12 4411 Jan 30 13:47 4411 Feb 09 10:07 4411 Feb 11 19:24 4411 Feb 19 08:42 4411 Mar 05 14:46 4411 Mar 15 15:07 4411 Mar 20 07:18 4411 Mar 28 02:03 4411 Mar 28 02:03	7° \$\times 12'13 18° \$\times 14'23 0° \$\times 0° \times 0° \times 2° \times 29'55 7° \times 58'49 7° \times 17'02 6° \times 13'55 30° \times 29° \$\times 55'18 0° \times 03'30 29° \$\times 48'54 23° \$\times 43'44 21° \$\times 37'28 27° \$\times 27'06 0° \times 9° \times 24'16 0° \times 15° \times 54'37 23° \$\times 45'20 0° \$\times 10'\$ 7° \$\times 28'47 7° \$\times 49'44	21°51'21 2°10'16 2°09'30 0.67979 AU 22°44'25 1.40148 AU -1°53'07	max. Earth dist. desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set  max. Earth dist.  superior conj minimum elong	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 25 13:29 4411 Dec 30 10:55 4411 Dec 31 10:53 4412 Jan 04 20:17 4412 Jan 04 18:27 4412 Jan 04 10:59 4412 Jan 10 01:52 4412 Jan 10 01:52 4412 Jan 10 01:52 4412 Jan 23 00:53 4412 Feb 06 05:45 4412 Feb 06 20:15 4412 Feb 23 06:33 4412 Feb 26 12:18 4412 Mar 01 08:25  4412 Mar 08 18:01 4412 Mar 08 20:06 4412 Mar 15 04:34	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°उ06'59 22°उ14'07 20°उ13'19 19°उ18'08 13°उ49'09 13°उ55'28 14°उ21'10 7°उ41'32 5°उ58'09 10°उ59'08 29°उ07'55 0°≈ 24°≈50'27 0°¥ 6°¥14'13	23°10'23 1°26'32 1°25'50 0.68023 AU 21°20'05 1.42215 AU -2°06'34
evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 10 13:41 4411 Jan 10 18:53 4411 Jan 15 04:07 4411 Jan 20 11:00 4411 Jan 20 12:22 4411 Jan 20 10:00 4411 Jan 20 14:12 4411 Jan 30 13:47 4411 Jan 30 13:47 4411 Feb 19 10:07 4411 Feb 11 19:24 4411 Mar 05 14:46 4411 Mar 15 15:07 4411 Mar 20 07:18 4411 Mar 28 02:03 4411 Mar 28 06:39 4411 Mar 28 06:39 4411 Apr 06 22:56	7° \$\times 12'13 18° \$\times 14'23 0° \$\times 0° \times 0° \times 2° \times 29'55 7° \times 58'49 7° \times 17'02 6° \times 13'55 30° \$\times 29° \$\times 55'18 0° \times 03'30 29° \$\times 48'54 23° \$\times 43'44 21° \$\times 37'28 27° \$\times 27'06 0° \times 9° \times 24'16 0° \$\times 15° \$\times 54'37 23° \$\times 45'20 0° \$\times 10'\$ 7° \$\times 28'47 7° \$\times 49'44 25° \$\times 57'57'24	21°51'21 2°10'16 2°09'30 0.67979 AU 22°44'25 1.40148 AU -1°53'07	max. Earth dist. desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set  max. Earth dist. superior conj minimum elong evening rise	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 25 13:29 4411 Dec 30 10:55 4411 Dec 31 10:53 4412 Jan 04 20:17 4412 Jan 04 18:27 4412 Jan 04 10:59 4412 Jan 10 01:52 4412 Jan 10 01:52 4412 Jan 10 01:52 4412 Jan 23 00:53 4412 Feb 06 05:45 4412 Feb 06 20:15 4412 Feb 23 06:33 4412 Feb 26 12:18 4412 Mar 01 08:25  4412 Mar 08 18:01 4412 Mar 08 20:06 4412 Mar 15 04:34 4412 Mar 19 23:52	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°उ06'59 22°उ13'19 19°उ18'08 13°उ55'28 14°उ21'10 7°उ41'32 5°उ58'09 10°उ59'08 29°उ07'55 0°≈ 24°≈50'27 0° \tau 6°\tau'13 18°\tau'11 18°\tau'11 18°\tau'11 0°\tau	23°10'23 1°26'32 1°25'50 0.68023 AU 21°20'05 1.42215 AU -2°06'34
evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.  superior conj minimum elong evening rise	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 10 18:53 4411 Jan 13 13:51 4411 Jan 15 04:07 4411 Jan 20 11:00 4411 Jan 20 10:00 4411 Jan 20 14:12 4411 Jan 20 14:12 4411 Jan 30 13:47 4411 Jan 30 13:47 4411 Feb 19 10:07 4411 Feb 11 19:24 4411 Mar 05 14:46 4411 Mar 15 15:07 4411 Mar 20 07:18 4411 Mar 28 02:03 4411 Mar 28 06:39 4411 Mar 06 22:56 4411 Apr 09 02:13	7° \$\times 12'13 18° \$\times 14'23 0° \$\times 0° \times 2° \times 29'55 7° \times 58'49 7° \times 17'02 6° \times 13'55 30° \$\times 29° \$\times 55'18 0° \times 03'30 29° \$\times 48'54 23° \$\times 43'44 21° \$\times 37'28 27° \$\times 27'06 0° \times 9° \times 24'16 0° \$\times 15° \$\times 54'37 23° \$\times 45'20 0° \$\times 15' \$\times 54'47 7° \$\times 28'47 7° \$\times 57'57'24 0° \$\times 8'	21°51'21 2°10'16 2°09'30 0.67979 AU 22°44'25 1.40148 AU -1°53'07	max. Earth dist. desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set  max. Earth dist.  superior conj minimum elong	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 25 13:29 4411 Dec 30 10:55 4411 Dec 31 10:53 4412 Jan 04 20:17 4412 Jan 04 18:27 4412 Jan 10 01:52 4412 Jan 10 01:52 4412 Jan 14 09:36 4412 Jan 19:36 4412 Jan 23 00:53 4412 Feb 06 05:45 4412 Feb 06 20:15 4412 Feb 23 06:33 4412 Feb 26 12:18 4412 Mar 01 08:25  4412 Mar 08 18:01 4412 Mar 08 20:06 4412 Mar 15 04:34 4412 Mar 19 23:52 4412 Mar 28 10:11	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°उ06'59 22°उ14'07 20°उ13'19 19°उ18'08 13°उ55'28 14°उ21'10 7°उ41'32 5°उ58'09 10°उ59'08 29°उ07'55 0°≈ 24°≈50'27 0°¥ 6°¥14'13 18°¥41'11 18°¥50'10 0°°Y 8°°Y40'15 23°°Y36'17	23°10'23 1°26'32 1°25'50 0.68023 AU 21°20'05 1.42215 AU -2°06'34
evening rise  evening max el retrograde asc. node evening set  inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.	4410 Nov 23 22:22 4410 Nov 30 19:51 4410 Dec 08 11:40 4410 Dec 30 06:08 4411 Jan 10 13:41 4411 Jan 10 18:53 4411 Jan 15 04:07 4411 Jan 20 11:00 4411 Jan 20 12:22 4411 Jan 20 10:00 4411 Jan 20 14:12 4411 Jan 30 13:47 4411 Jan 30 13:47 4411 Feb 19 10:07 4411 Feb 11 19:24 4411 Mar 05 14:46 4411 Mar 15 15:07 4411 Mar 20 07:18 4411 Mar 28 02:03 4411 Mar 28 06:39 4411 Mar 28 06:39 4411 Apr 06 22:56	7° \$\times 12'13 18° \$\times 14'23 0° \$\times 0° \times 0° \times 2° \times 29'55 7° \times 58'49 7° \times 17'02 6° \times 13'55 30° \$\times 29° \$\times 55'18 0° \times 03'30 29° \$\times 48'54 23° \$\times 43'44 21° \$\times 37'28 27° \$\times 27'06 0° \times 9° \times 24'16 0° \$\times 15° \$\times 54'37 23° \$\times 45'20 0° \$\times 10'\$ 7° \$\times 28'47 7° \$\times 49'44 25° \$\times 57'57'24	21°51'21  2°10'16 2°09'30 0.67979 AU  22°44'25  1.40148 AU  -1°53'07 1°52'43	max. Earth dist. desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set  max. Earth dist. superior conj minimum elong evening rise	4411 Nov 06 07:18 4411 Nov 10 06:31 4411 Nov 11 03:06 4411 Nov 12 01:20 4411 Dec 02 02:04 4411 Dec 15 05:32 4411 Dec 25 13:29 4411 Dec 30 10:55 4411 Dec 31 10:53 4412 Jan 04 20:17 4412 Jan 04 18:27 4412 Jan 04 10:59 4412 Jan 10 01:52 4412 Jan 10 01:52 4412 Jan 10 01:52 4412 Jan 23 00:53 4412 Feb 06 05:45 4412 Feb 06 20:15 4412 Feb 23 06:33 4412 Feb 26 12:18 4412 Mar 01 08:25  4412 Mar 08 18:01 4412 Mar 08 20:06 4412 Mar 15 04:34 4412 Mar 19 23:52	20°M27'21 27°M05'21 28°M29'37 0°ズ 0°उ 16°उ06'59 22°उ13'19 19°उ18'08 13°उ55'28 14°उ21'10 7°उ41'32 5°उ58'09 10°उ59'08 29°उ07'55 0°≈ 24°≈50'27 0° \tau 6°\tau'13 18°\tau'11 18°\tau'11 18°\tau'11 0°\tau	23°10'23 1°26'32 1°25'50 0.68023 AU 21°20'05 1.42215 AU -2°06'34 2°06'31

retrograde	4412 Apr 12 06:23	8° <b>8</b> 13'42		evening max el	4413 Mar 20 01:41	18° <b>Ƴ</b> 02'20	18°09'58
evening set	4412 Apr 14 20:56	7° <b>8</b> 43'18		retrograde	4413 Mar 26 12:00	21° <b>Y</b> 25'28	10 07 30
inferior conj	4412 Apr 21 14:08	_	3°02'36	evening set	4413 Mar 29 08:33	20° <b>Υ</b> 43'46	
minimum elong	4412 Apr 21 17:05	2° <b>8</b> 42'35	3°02'02	inferior conj	4413 Apr 04 12:50	15° <b>Υ</b> 30'02	3°29'16
minimum crong	4412 Apr 24 14:38	30°RY	3 02 02	minimum elong	4413 Apr 04 14:09	15° <b>Υ</b> 26'30	3°29'10
min. Earth dist.	4412 Apr 24 20:36	29° <b>Y</b> 46'38	0.60619 AU	min. Earth dist.	4413 Apr 07 07:08	12° <b>Υ</b> 33'55	0.62747 AU
morning rise	4412 Apr 28 11:04	26°Υ58'26	0.00017710	morning rise	4413 Apr 10 18:30	9° <b>Υ</b> 25'36	0.02747 710
desc. node	4412 May 04 04:55	24° <b>Υ</b> 51'34		direct	4413 Apr 17 15:28	6°Υ50'11	
direct	4412 May 05 02:37	24° <b>Υ</b> 49'14		desc. node	4413 Apr 21 01:58	7° <b>Υ</b> 25'00	
ancet	4412 May 16 09:44	0°8		morning max el	4413 May 01 15:43	14° <b>Υ</b> 49'14	27°50'13
morning max el	4412 May 19 09:17	2° <b>8</b> 44'00	27°43'56	morning max er	4413 May 13 23:30	0°8	27 30 13
morning max ci	4412 Jun 08 08:19	0°Ⅱ	27 43 30		4413 May 31 22:13	0°II	
morning set	4412 Jun 20 17:54	23° <b>I</b> I20'08		morning set	4413 Jun 04 17:59	7° <b>П</b> 31'18	
morning set	4412 Jun 23 21:46	0° <b>9</b>		max. Earth dist.	4413 Jun 10 04:18	18° <b>∏</b> 49'52	1.32573 AU
asc. node	4412 Jun 24 09:29	1° <b>©</b> 02'58		asc. node	4413 Jun 11 06:31	21° <b>Ⅱ</b> 10'40	1.32373 AU
max. Earth dist.	4412 Jun 26 21:27	6°928'50	1.32079 AU	asc. Houe	4413 Juli 11 00.31	21 11040	
max. Earth dist.	4412 Juli 20 21.27	0 3020 30	1.32079 AU	superior conj	4413 Jun 12 08:50	23° <b>Ⅲ</b> 32'55	0°11'27
avmariar aani	4412 Jun 28 00:05	000551150	0027102		4413 Jun 12 08:17	23° <b>II</b> 29'58	
superior conj		8°954'58	0°37'02	minimum elong			0°11'20
minimum elong	4412 Jun 27 22:30	8°546'18	0°36'42	behind sun begin	4413 Jun 12 04:36	23° <b>I</b> 109'56	
evening rise	4412 Jul 04 19:45	23° <b>©</b> 47'35		behind sun end	4413 Jun 12 11:59	23° <b>Ⅱ</b> 50'01	
	4412 Jul 07 19:08	$0$ ° $\Omega$			4413 Jun 15 07:59	0°€	
	4412 Jul 25 18:42	0° <b>m</b>		evening rise	4413 Jun 19 07:34	8° <b>©</b> 35'50	
desc. node	4412 Jul 31 04:13	6° Mp 05′10			4413 Jun 30 09:59	$0$ $\circ$ $\Omega$	
evening max el	4412 Jul 31 17:49	6°Mp38'11	25°20'20	evening max el	4413 Jul 13 06:52	17° <b>Ω</b> 09'34	23°47'26
retrograde	4412 Aug 14 16:46	13°Mp42'41		desc. node	4413 Jul 18 01:15	21° <b>Ω</b> 02'43	
evening set	4412 Aug 20 11:22	12° Mp 25'43		retrograde	4413 Jul 26 23:21	24° <b>Ω</b> 02'13	
min. Earth dist.	4412 Aug 25 05:35	9° <b>№</b> 45'02	0.57791 AU	evening set	4413 Jul 31 07:31	23° <b>Ω</b> 20'44	
inferior conj	4412 Aug 28 07:21	7° Mp38′28	-5°11'37	min. Earth dist.	4413 Aug 06 16:59	20° <b>Ω</b> 17'39	0.56082 AU
minimum elong	4412 Aug 28 09:03	7° <b>m</b> ∕35'33	5°11'33	inferior conj	4413 Aug 08 23:15	18° <b>Ω</b> 55'39	-5°01'52
morning rise	4412 Sep 05 09:01	3° Mp 23′27		minimum elong	4413 Aug 08 18:49	19° <b>Ω</b> 02'24	5°01'24
direct	4412 Sep 07 21:34	3° <b>m</b> 04'13		morning rise	4413 Aug 17 08:39	14° <b>Ω</b> 59'33	
morning max el	4412 Sep 16 14:29	7° <b>m</b> ) 11'35	18°57'05	direct	4413 Aug 20 03:37	14° <b>Ω</b> 39'53	
asc. node	4412 Sep 20 08:43	11° <b>m</b> )28'01		morning max el	4413 Aug 30 07:05	19° <b>Ω</b> 22'38	20°01'12
	4412 Oct 01 06:52	0∘ <b>ত</b>		asc. node	4413 Sep 07 05:47	29° <b>Ω</b> 28'21	
morning set	4412 Oct 03 05:26	3° <b>£</b> 47'45			4413 Sep 07 13:43	0° <b>m</b> )	
C				morning set	4413 Sep 17 09:44	18° <b>m</b> 20'58	
superior conj	4412 Oct 11 15:05	20° <b>£</b> 14'36	1°33'48	5 5 5 5	4413 Sep 23 02:42	0∘ <u>⊽</u>	
minimum elong	4412 Oct 11 17:43	20° <b>£</b> 27'12			<b>.</b>		
mmmum viong	4412 Oct 16 20:28	0°M	1 33 30	superior conj	4413 Sep 25 03:24	4° <b>£</b> 05'33	1°42'37
max. Earth dist.	4412 Oct 18 12:41	3°M01'28	1.38970 AU	minimum elong	4413 Sep 25 04:24	4° <b>£</b> 10'30	
evening rise	4412 Oct 22 09:25	9°M47'50	1.50770710	max. Earth dist.	4413 Sep 30 18:11	15° <b>≏</b> 02'42	1.36925 AU
desc. node	4412 Oct 27 03:34	17°M46'06		evening rise	4413 Oct 04 13:33	22° <b>£</b> 05'50	1.50725710
desc. Hode	4412 Nov 03 22:11	0° <b>₹</b>		evening rise	4413 Oct 09 01:10	0°M	
	4412 Nov 26 23:46	0°る		desc. node	4413 Oct 14 00:35	8°M16'56	
evening max el	4412 Nov 26 18:48	0 ℃ 29° <b>√</b> 47'48	24°29'37	desc. node	4413 Oct 28 18:27	0° <b>⊼</b> ¹	
•			24 29 37				25942111
retrograde	4412 Dec 08 04:21	6°る27'17		evening max el	4413 Nov 09 07:10	13° <b>₹</b> 30'18	25-42-11
evening set	4412 Dec 13 15:12	4°る10'50 0°る07'37		retrograde	4413 Nov 21 14:40	20° 🗷 33'09	
asc. node	4412 Dec 17 07:56			evening set	4413 Nov 27 15:18	18° <b>∡</b> 03'11	0.67029 AII
min D. d. V.	4412 Dec 17 10:18	30°₹ <i>⊼</i> 7	0.67700 411	min. Earth dist.	4413 Dec 01 23:28	13°×719'45	0.67038 AU
min. Earth dist.	4412 Dec 18 06:50	28° 🖈 52'33	0.67708 AU	inferior conj	4413 Dec 03 06:40	11° <b>х</b> 40'37	
inferior conj	4412 Dec 19 02:59	27° <b>₹</b> 45'15	0°36'25	minimum elong	4413 Dec 03 07:10	11° <b>∡</b> ³39'03	0°18'53
minimum elong	4412 Dec 19 02:07	27° <b>∡</b> ¹48'09	0°36'03	asc. node	4413 Dec 04 04:59	10° <b>∡</b> ′30′18	
morning rise	4412 Dec 24 13:07	21° <b>х</b> 43'39		morning rise	4413 Dec 08 23:25	5° <b>∡</b> ¹47'19 −	
direct	4412 Dec 28 07:36	20° <b>≯</b> 22'15		direct	4413 Dec 12 06:17	4° <b>₹</b> 145′14	
morning max el	4413 Jan 04 23:18	24° <b>∡</b> °43′09	20°06'44	morning max el	4413 Dec 19 05:34	8° <b>∡</b> ³37'35	19°07'45
	4413 Jan 09 13:42	0°る			4414 Jan 03 18:23	0°る	
desc. node	4413 Jan 23 02:48	19° <b>る</b> 14'44		desc. node	4414 Jan 09 23:51	9° <b>ප</b> 38'15	
	4413 Jan 30 04:39	0° <b>≈</b>		morning set	4414 Jan 11 06:44	11° <b>る</b> 38'19	
morning set	4413 Feb 01 03:42	3° <b>≈</b> 01′09			4414 Jan 23 01:04	0° <b>≈</b>	
max. Earth dist.	4413 Feb 11 17:45	19° <b>≈</b> 38'15	1.43881 AU	max. Earth dist.	4414 Jan 25 09:10	3° <b>≈</b> 40′26	1.44939 AU
superior conj	4413 Feb 17 08:48	28° <b>≈</b> 44'49	-2°05'16	superior conj	4414 Jan 27 23:26	7° <b>≈</b> 46′13	-1°44'50
minimum elong	4413 Feb 17 05:23	28° <b>≈</b> 30'46	2°05'10	minimum elong	4414 Jan 27 14:43	7° <b>≈</b> 11'44	1°44'06
	4413 Feb 18 03:07	0° <b>∀</b>			4414 Feb 10 18:35	0° <b>∀</b>	
evening rise							
	4413 Mar 02 07:10	20° <b>)</b> 33′41		evening rise	4414 Feb 11 16:49	1° <b>∺</b> 31'14	
	4413 Mar 02 07:10 4413 Mar 07 18:39	20° <b>)</b> 33'41 0° <b>γ</b>		evening rise asc. node	4414 Feb 11 16:49 4414 Mar 02 04:16	1° <b>米</b> 31'14 29° <b>米</b> 55'31	
asc. node				•			

evening max el	4414 Mar 03 13:54	1° <b>Y</b> 26'51	18°30'09	evening rise	4415 Jan 23 03:08	11° <b>≈</b> 32'04	
retrograde	4414 Mar 10 02:31	5°Υ01'13	10 30 05	greatest brilliancy	4415 Feb 02 07:56	27° <b>≈</b> 33'18	-0.8m
evening set	4414 Mar 13 05:04	4° <b>Υ</b> '07'23		8	4415 Feb 03 22:02	0° <b>)</b> €	
<i>3</i>	4414 Mar 17 19:11	30° <b>₹</b>		evening max el	4415 Feb 14 23:18	14° <b>)</b> € 56'35	19°07'59
inferior conj	4414 Mar 19 00:13	28° <b>)</b> 35'27	3°35'10	asc. node	4415 Feb 17 01:18	16° <b>)</b> 50′24	
minimum elong	4414 Mar 18 23:54	28° <b>)</b> ₹36′23	3°35'10	retrograde	4415 Feb 21 22:06	18° <b>¥</b> 53′10	
min. Earth dist.	4414 Mar 21 03:18	26° <b>)</b> €04'43	0.64607 AU	evening set	4415 Feb 25 07:26	17° <b>) (</b> 46′19	
morning rise	4414 Mar 24 18:04	22° <b>)</b> 24'13		inferior conj	4415 Mar 02 20:35	11° <b>)</b> 58′10	3°25'26
direct	4414 Mar 31 12:19	19° <b>¥</b> 35′16		minimum elong	4415 Mar 02 19:03	12° <b>¥</b> 03′06	3°25'16
desc. node	4414 Apr 07 23:01	22° <b>ℋ</b> 18'12		min. Earth dist.	4415 Mar 04 08:19	10° <b>)</b> 04'14	0.66087 AU
morning max el	4414 Apr 14 01:21	27° <b>)</b> €29'33	27°20'44	morning rise	4415 Mar 08 06:19	5° <b>)</b> 44'16	
	4414 Apr 16 10:19	$0^{\circ}$ Y		direct	4415 Mar 14 15:53	2° <b>¥</b> 55′16	
	4414 May 07 16:09	$9^{\circ}$ 8		desc. node	4415 Mar 25 20:03	8° <b>¥</b> 56′09	
morning set	4414 May 19 09:36	21° <b>8</b> 14'11		morning max el	4415 Mar 27 11:17	10° <b>)</b> 31'34	26°22'07
	4414 May 23 18:33	0° <b>Π</b>			4415 Apr 11 21:47	0° <b>Υ</b>	
max. Earth dist.	4414 May 24 02:58	0° <b>Ⅱ</b> 43′20	1.33513 AU		4415 Apr 30 05:22	0° <b>8</b>	
		_		morning set	4415 May 02 13:07	4° <b>8</b> 17'47	
superior conj	4414 May 27 13:14	7° <b>Ⅲ</b> 53'24		max. Earth dist.	4415 May 06 14:21	12° <b>8</b> 04'07	1.34919 AU
minimum elong	4414 May 27 14:05	7° <b>I</b> I57'55	0°16'24				
asc. node	4414 May 29 03:33	11° <b>I</b> I17'09		superior conj	4415 May 11 10:56	21° <b>8</b> 49'27	
evening rise	4414 Jun 03 18:45	23° <b>Ⅱ</b> 17'45		minimum elong	4415 May 11 13:25	_	0°45'24
	4414 Jun 07 00:41	0°95	22010120		4415 May 15 09:37	0°II	
evening max el	4414 Jun 24 21:41	27° <b>©</b> 33'17 0° <b>Ω</b>	22°10′39	asc. node	4415 May 16 00:35	1°Ⅲ18'07 7°Ⅲ46'52	
desc. node	4414 Jun 27 16:41 4414 Jul 04 22:15	3° <b>Ω</b> 37'29		evening rise	4415 May 19 03:19 4415 May 31 04:51	7°Щ46′32 0°©	
retrograde	4414 Jul 07 18:18	3° <b>Ω</b> 56'09		evening max el	4415 Jun 06 22:00	8° <b>©</b> 21'46	20°43'47
evening set	4414 Jul 10 15:45	3° <b>Ω</b> 37'34		retrograde	4415 Jun 18 06:58	13°955'44	20 43 47
min. Earth dist.	4414 Jul 19 03:23	29° <b>©</b> 58'17	0.55022 AU	evening set	4415 Jun 20 08:41	13°535'44 13°545'24	
iiiii. Lattii tiist.	4414 Jul 19 02:09	30°R95	0.55022 AC	desc. node	4415 Jun 21 19:14	13° <b>9</b> °26'41	
inferior conj	4414 Jul 19 22:23	29° <b>©</b> 31'32	-4°02'08	inferior conj	4415 Jun 29 15:40	9°548'18	-2°18'01
minimum elong	4414 Jul 19 13:50	29°5643'34	3°59'59	minimum elong	4415 Jun 29 09:16	9°957'25	2°15'46
morning rise	4414 Jul 28 13:43	25°5641'07	3 37 37	min. Earth dist.	4415 Jun 30 15:00	9° <b>©</b> 14'55	0.54870 AU
direct	4414 Jul 31 17:15	25°519'00		morning rise	4415 Jul 08 09:22	5°9543'45	
	4414 Aug 11 14:00	$0^{\circ}\Omega$		direct	4415 Jul 12 02:35	5°9513'58	
morning max el	4414 Aug 12 11:47	0° <b>Ω</b> 48'37	21°25'53	morning max el	4415 Jul 25 06:26	11° <b>©</b> 33'57	23°05'31
asc. node	4414 Aug 25 02:49	18° <b>Ω</b> 09'49		Ü	4415 Aug 07 23:20	$0^{\circ}\Omega$	
	4414 Aug 31 06:12	0° <b>m</b>		asc. node	4415 Aug 11 23:52	7° <b>Ω</b> 22'24	
morning set	4414 Sep 01 18:24	3° Mp 06'28		morning set	4415 Aug 17 05:28	17° <b>Ω</b> 58'53	
					4415 Aug 22 20:06	0° <b>™</b>	
superior conj	4414 Sep 09 01:41	18°M 25'50	1°43'33				
minimum elong	4414 Sep 09 01:11	18° <b>m</b> 23'17	1°43'32	superior conj	4415 Aug 24 06:42	3° <b>m</b> 05'45	1°37'52
max. Earth dist.	4414 Sep 13 05:07	26° Mp 53'51	1.35134 AU	minimum elong	4415 Aug 24 05:08	2° m 57'20	1°37'46
	4414 Sep 14 18:38	0∘ <b>⊽</b>		max. Earth dist.	4415 Aug 27 00:59	8° <b>m</b> 57'20	1.33722 AU
evening rise	4414 Sep 17 11:39	5° <b>≙</b> 14'17		evening rise	4415 Aug 31 23:25	19° <b>m</b> 02'07	
desc. node	4414 Sep 30 21:36	28° <b>ჲ</b> 32'34			4415 Sep 06 17:47	0∘ <b>⊽</b>	
	4414 Oct 01 19:54	0°M₊		desc. node	4415 Sep 17 18:35	18° <b>≏</b> 26′16	
evening max el	4414 Oct 22 19:40	27° <b>M</b> 09'37	26°40'35		4415 Sep 25 23:17	0° <b>™</b>	
	4414 Oct 26 00:34	0° ⊀ <sup>7</sup>		evening max el	4415 Oct 05 08:04	10°M37'24	27°17'27
retrograde	4414 Nov 04 19:51	4° <b>₹</b> 25'03		retrograde	4415 Oct 18 19:11	17°M55'42	
evening set	4414 Nov 11 09:13	1° <b>∡</b> 746′06		evening set	4415 Oct 25 18:36	15°M15'13	0.64656.411
min Forth dist	4414 Nov 13 07:10	30°Rጤ 27°ጤ38'11	0.66019 AU	min. Earth dist.	4415 Oct 29 14:00	11°M42'01 9°M13'36	0.64656 AU
min. Earth dist. inferior conj	4414 Nov 15 10:35	25°M31'28		inferior conj minimum elong	4415 Oct 31 20:44 4415 Nov 01 00:45	9°M02'42	
minimum elong	4414 Nov 17 05:20 4414 Nov 17 07:31	25°M24'59		morning rise	4415 Nov 07 08:04	3°M44'52	2 1912
asc. node	4414 Nov 21 02:03	21°M22'40	1 1/31	asc. node	4415 Nov 07 08:04 4415 Nov 07 23:05	3°M30'08	
morning rise	4414 Nov 23 06:34	19°M48'58		direct	4415 Nov 09 22:15	3°M09'57	
direct	4414 Nov 26 03:54	19°M02'27		morning max el	4415 Nov 16 09:55	6°M36'17	17°58'28
morning max el	4414 Dec 02 17:57	22°M37'11	18°24'41		4415 Dec 02 02:38	0° <b>⊼</b> ¹	1, 2020
morning max or	4414 Dec 08 16:08	22 اللي 7 11 0° الم	10 21 11	morning set	4415 Dec 03 21:08	2° <b>×</b> 758'20	
morning set	4414 Dec 22 11:14	21° <b>х</b> 34'34		desc. node	4415 Dec 14 17:53	20° × 55'31	
desc. node	4414 Dec 27 20:52	0°る13'01			. = 1. 11.00		
	4414 Dec 27 17:36	0°ප		superior conj	4415 Dec 17 13:14	25° <b>∡</b> ¹26'46	-0°19'19
				minimum elong	4415 Dec 17 10:54	25° <b>∡</b> 17'24	
superior conj	4415 Jan 07 02:02	16° <b>පි</b> 21'11	-1°06'26	-	4415 Dec 20 09:46	ರ∘ರ	
minimum elong	4415 Jan 06 18:01	15° <b>る</b> 49'45	1°05'26	max. Earth dist.	4415 Dec 21 22:39	2° <b>පි</b> 26'01	1.44897 AU
max. Earth dist.	4415 Jan 08 03:38	18° <b>ප</b> 01'36	1.45285 AU	evening rise	4416 Jan 02 18:49	20°る52'20	
	4415 Jan 15 19:01	0° <b>≈</b>			4416 Jan 08 17:44	0° <b>≈</b>	

greatest brilliancy	4416 Jan 17 04:55	12° <b>≈</b> 44′08	-0.6m	evening rise	4416 Dec 12 04:39	0° <b>ප</b> 04'46	
evening max el	4416 Jan 29 04:11	28°≈28'53	20°01'41		4416 Dec 12 03:25	0°ಕ	
,	4416 Jan 30 18:19	0° <b>)</b> (37112			4417 Jan 01 10:33	0° <b>≈</b>	21000122
asc. node	4416 Feb 03 22:20 4416 Feb 05 19:56	2°\(\mathbf{H}\) 37'12 2°\(\mathbf{H}\) 56'38		evening max el	4417 Jan 11 03:36 4417 Jan 19 17:50	12°≈02'09	21°08'32
retrograde evening set	4416 Feb 03 19:36 4416 Feb 09 13:22	1° <del>)(</del> 35'43		retrograde asc. node	4417 Jan 19 17:30 4417 Jan 20 19:22	17°≈07'32 17°≈01'23	
evening set	4416 Feb 11 08:34	1 \(\chi_3543\)		evening set	4417 Jan 23 20:56	17 ≈01 23 15°≈31'27	
inferior conj	4416 Feb 14 23:03	25°≈33'32	3°03'39	inferior conj	4417 Jan 29 05:12	9°≈17'57	2°32'10
minimum elong	4416 Feb 14 20:48	25°≈41'06	3°03'10	minimum elong	4417 Jan 29 02:45	9° <b>≈</b> 26'27	2°31'27
min. Earth dist.	4416 Feb 15 20:30	24° <b>≈</b> 21′29	0.67149 AU	min. Earth dist.	4417 Jan 29 13:48	8° <b>≈</b> 48'17	0.67791 AU
morning rise	4416 Feb 20 04:01	19° <b>≈</b> 19′25		morning rise	4417 Feb 03 08:23	3° <b>≈</b> 05'13	
direct	4416 Feb 26 01:06	16° <b>≈</b> 41'44		direct	4417 Feb 08 15:00	0° <b>≈</b> 46′26	
morning max el	4416 Mar 08 20:03	23° <b>≈</b> 44'35	25°03'40	morning max el	4417 Feb 19 04:44	7° <b>≈</b> 03'56	23°35'39
desc. node	4416 Mar 11 17:06	26° <b>≈</b> 49'46		desc. node	4417 Feb 26 14:08	15° <b>≈</b> 37'21	
	4416 Mar 14 09:54	0° <b>)</b> €			4417 Mar 09 00:48	0° <b>∀</b>	
	4416 Apr 04 07:17	0°Υ		morning set	4417 Mar 26 11:31	27° <b>)</b> € 30'37	
morning set	4416 Apr 13 23:43	16° <b>Υ</b> 28'31	1 26750 AII	Earth dist	4417 Mar 27 22:30	0°Υ 4° <b>Υ</b> 20140	1 2000C ATT
max. Earth dist.	4416 Apr 17 14:54 4416 Apr 21 06:38	23° <b>Y</b> 05'35 0° <b>႘</b>	1.36759 AU	max. Earth dist.	4417 Mar 30 10:28	4° <b>Y</b> 20'40	1.38886 AU
	4410 Apr 21 00.38	0.0		superior conj	4417 Apr 06 21:44	17° <b>Y</b> 55'08	-1°40'49
superior conj	4416 Apr 23 23:01	5° <b>8</b> 13'15	-1°14'48	minimum elong	4417 Apr 07 02:35	18° <b>Y</b> 17'51	
minimum elong	4416 Apr 24 03:02	5° <b>8</b> 32'59			4417 Apr 13 05:13	0°8	
asc. node	4416 May 01 21:37	21° <b>8</b> 09'25		evening rise	4417 Apr 16 03:10	5° <b>8</b> 40'12	
evening rise	4416 May 02 07:02	21° <b>8</b> 56'49		asc. node	4417 Apr 18 18:39	10° <b>8</b> 46'28	
	4416 May 06 08:56	$\Pi^{\circ}0$			4417 Apr 30 13:54	$\Pi^{\circ}0$	
evening max el	4416 May 19 10:42	19° <b>Ⅱ</b> 50′34	19°34'24	evening max el	4417 May 02 10:21	1° <b>Ⅱ</b> 59'35	18°45'09
retrograde	4416 May 29 01:41	24° <b>Ⅲ</b> 31′50		retrograde	4417 May 10 13:28	5° <b>Ⅱ</b> 58'59	
evening set	4416 May 31 00:37	24° <b>Ⅱ</b> 21'05		evening set	4417 May 12 17:29	5° <b>Ⅱ</b> 43'01	
desc. node	4416 Jun 07 16:16	20° <b>Ⅲ</b> 56'44		inferior conj	4417 May 20 14:44		1°23'42
inferior conj	4416 Jun 08 17:39	20° <b>Ⅱ</b> 16'51		minimum elong	4417 May 20 17:39		1°22'44
minimum elong	4416 Jun 08 16:48	20° <b>Ⅱ</b> 18'11	0°18'29	' E d E d	4417 May 22 10:35	30°R8	0.57301 ATT
min. Earth dist. morning rise	4416 Jun 11 04:31 4416 Jun 17 06:26	18° <b>Ⅱ</b> 43'53 15° <b>Ⅱ</b> 41'46	0.55684 AU	min. Earth dist. desc. node	4417 May 23 21:13 4417 May 25 13:19	28° <b>8</b> 57'27 27° <b>8</b> 50'12	0.57281 AU
direct	4416 Jun 21 20:08	13 <b>H</b> 41 40		morning rise	4417 May 28 14:33	26° <b>8</b> 10'37	
morning max el	4416 Jul 05 20:14	21° <b>I</b> I56'47	24°48'36	direct	4417 Jun 03 03:16	24° <b>8</b> 55'47	
morning man er	4416 Jul 12 21:56	0°9	2030		4417 Jun 14 18:16	0°II	
asc. node	4416 Jul 28 20:53	26° <b>©</b> 57'20		morning max el	4417 Jun 17 11:48	2° <b>Ⅱ</b> 26'44	26°19'24
	4416 Jul 30 08:25	$0^{\circ}\Omega$			4417 Jul 07 03:43	0ಂತಾ	
morning set	4416 Jul 31 17:14	2° <b>Ω</b> 52′18		asc. node	4417 Jul 15 17:55	16° <b>5</b> 48'23	
				morning set	4417 Jul 16 04:06	17° <b>5</b> 42'00	
superior conj	4416 Aug 07 15:55	17° <b>Ω</b> 56'30	1°26'37		4417 Jul 21 20:11	$0^{\circ}\Omega$	
minimum elong	4416 Aug 07 13:44	17° <b>Ω</b> 44'34	1°26'22				
max. Earth dist.	4416 Aug 09 05:13	21° <b>Ω</b> 19'29	1.32730 AU	superior conj	4417 Jul 23 03:20	2° <b>Ω</b> 51'44	
arranina riaa	4416 Aug 13 06:52	0°Mp 2°m⊳17!26		minimum elong	4417 Jul 23 01:01	2° <b>Ω</b> 38'57	
evening rise	4416 Aug 14 21:05 4416 Aug 29 12:20	3°№17'36 0° <u>മ</u>		max. Earth dist. evening rise	4417 Jul 23 15:03 4417 Jul 30 01:41	3° <b>Ω</b> 56'18 17° <b>Ω</b> 51'59	1.32156 AU
desc. node	4416 Sep 03 15:35	0 <b>==</b> 7° <b>£</b> 48'01		evening rise	4417 Aug 05 03:11	0° m)	
evening max el	4416 Sep 16 18:28	23° <b>₽</b> 39'55	27°26'13	desc. node	4417 Aug 21 12:35	26° Mp 24'40	
	4416 Sep 25 22:25	0°M			4417 Aug 24 09:06	0ಂ <b>ರ</b>	
retrograde	4416 Sep 30 11:51	0°M55'20		evening max el	4417 Aug 30 00:09	6° <b>ჲ</b> 03'35	27°02'18
-	4416 Oct 04 20:04	30° <b>₹</b> Ω		retrograde	4417 Sep 12 21:07	13° <b>≏</b> 15′06	
evening set	4416 Oct 07 16:16	28° <b>≏</b> 23'18		evening set	4417 Sep 19 22:12	11° <b>≏</b> 03'29	
min. Earth dist.	4416 Oct 11 07:37	25° <b>≏</b> 21'04	0.62967 AU	min. Earth dist.	4417 Sep 23 14:24	8° <b>ഫ</b> 22'49	0.61014 AU
inferior conj	4416 Oct 14 02:06	22° <b>₽</b> 39'27		inferior conj	4417 Sep 26 18:10	5° <b>≏</b> 40'42	
minimum elong	4416 Oct 14 07:39	22° <b>£</b> 25'53	3°20'20	minimum elong	4417 Sep 27 00:12	5° <b>£</b> 27'43	4°16'27
morning rise	4416 Oct 21 00:35	17° <b>£</b> 27'58		morning rise	4417 Oct 04 04:05	0° <b>£</b> 50'01	
direct	4416 Oct 23 10:19	17° <b>Ω</b> 01'00		direct	4417 Oct 06 12:20	0° <b>£</b> 27'58	
asc. node morning max el	4416 Oct 24 20:07 4416 Oct 30 02:28	17° <b>£</b> 10′28 20° <b>£</b> 27′08	17°49'53	asc. node morning max el	4417 Oct 11 17:10 4417 Oct 13 16:32	2° <b>£</b> 21'28 4° <b>£</b> 02'15	18°00'01
morning max er	4416 Oct 30 02:28 4416 Nov 06 05:47	0°M	1 / 47 33	morning max ei	4417 Oct 13 16:32 4417 Oct 29 10:52	28° <b>£</b> 55'06	10 00 01
morning set	4416 Nov 15 07:09	15°M31'36		morning set	4417 Oct 30 00:55	0°M	
	4416 Nov 23 14:52	0° <b>⊼</b>			, 500 50 00.55	V IIV	
		•		superior conj	4417 Nov 08 13:18	17° <b>M</b> 15'45	1°00'20
superior conj	4416 Nov 26 23:58	5° <b>∡</b> '42'20	0°25'10	minimum elong	4417 Nov 08 17:22	17° <b>M</b> 33'40	0°59'49
minimum elong	4416 Nov 27 02:25	5° <b>₹</b> 52'33	0°24'49	,	4417 Nov 15 23:56	0° <b>∡</b> 7	
desc. node	4416 Nov 30 14:54	11° <b>∡</b> 741'46		max. Earth dist.	4417 Nov 16 03:58	0° <b>≯</b> 16'45	1.42174 AU
max. Earth dist.	4416 Dec 03 15:34	16° <b>∡</b> ³36′40	1.43817 AU	desc. node	4417 Nov 17 11:55	2° <b>≯</b> 28'42	

arranina riaa	4417 Nov 22 00:40	9° <b>∡</b> 148'28			4418 Nov 08 14:02	0° <b>∡</b> 7	
evening rise	4417 Nov 22 00:40 4417 Dec 05 06:23	9° <b>X'</b> 48'28			4418 Nov 08 14:02 4418 Nov 29 11:00	0° <b>ਨ</b>	
evening max el	4417 Dec 03 06.23 4417 Dec 24 21:44	0 3 25° <b>る</b> 36'50	22024121	ovening may al	4418 Dec 07 12:04	0 3 9° <b>る</b> 14'59	22011/25
evening max ei	4417 Dec 24 21.44 4417 Dec 30 05:39	23 <b>⊘</b> 36 30 0	22 24 31	evening max el retrograde	4418 Dec 17 12.04 4418 Dec 18 07:25	9 <b>3</b> 1439	23 44 23
ratra ara da	4417 Dec 30 03:39 4418 Jan 03 14:07	0 ∞ 1°≈22'20		-	4418 Dec 23 10:25	13° <b>る</b> 37'37	
retrograde asc. node	4418 Jan 07 16:25	1 ≈22 20 29° <b>云</b> 53'53		evening set asc. node	4418 Dec 25 10:25 4418 Dec 25 13:27	13 <b>3</b> 2934	
asc. node	4418 Jan 07 13:01	29 033 33 30°Rる				7° <b>る</b> 04'18	1°05'59
avanina aat	4418 Jan 08 04:28	30 KO 29° <b>ろ</b> 30'25		inferior conj	4418 Dec 28 20:38	7°る0418	1°05'24
evening set		29 <b>3</b> 3023	1°52'32	minimum elong min. Earth dist.	4418 Dec 28 19:09	7° <b>る</b> 51'58	0.67928 AU
inferior conj	4418 Jan 13 13:00	23°る0831 23°る16'27			4418 Dec 28 06:39		0.67928 AU
minimum elong	4418 Jan 13 10:48		1°51'46	morning rise	4419 Jan 03 03:53	0°る58'56	
min. Earth dist.	4418 Jan 13 09:56	23° <b>る</b> 19'29	0.68043 AU	1.	4419 Jan 04 17:48	30°₹ <b>⋌</b> 7	
morning rise	4418 Jan 18 17:02	16°る58'58		direct	4419 Jan 07 05:41	29° <b>₹</b> 25'21	
direct	4418 Jan 23 08:51	15° <b>そ</b> 02'38	22005125		4419 Jan 09 20:55	0°る	20045115
morning max el	4418 Feb 01 16:24	20° <b>පි</b> 30'47	22°07'35	morning max el	4419 Jan 15 10:22	4°る08'27	20°47'17
	4418 Feb 09 17:09	0° <b>≈</b>		desc. node	4419 Jan 31 08:14	24° <b>る</b> 57'59	
desc. node	4418 Feb 13 11:11	5°≈03'31			4419 Feb 03 17:55	0° <b>≈</b>	
	4418 Mar 02 06:47	0° <b>∀</b>		morning set	4419 Feb 14 00:35	15° <b>≈</b> 40'57	
morning set	4418 Mar 06 19:11	7° <b>∺</b> 11'12		max. Earth dist.	4419 Feb 22 12:20	29° <b>≈</b> 10′19	1.42982 AU
max. Earth dist.	4418 Mar 12 08:08	16° <b>)</b> 18′25	1.41055 AU		4419 Feb 23 00:35	0° <b>)</b> €	
superior conj	4418 Mar 20 02:19	29° <b>){</b> 42'41	2°00'16	superior conj	4419 Mar 01 07:54	10° <b>¥</b> 25'59	2008108
minimum elong	4418 Mar 20 06:14	0°Υ00'06		minimum elong	4419 Mar 01 07:57	10° <del>X</del> 26'10	
minimum clong	4418 Mar 20 06:13	0°Υ	2 00 02	minimum ciong	4419 Mar 12 14:26	0° <b>Υ</b>	2 00 0)
evening rise	4418 Mar 30 12:16	18° <b>Ƴ</b> 47'34		evening rise	4419 Mar 13 06:16	1° <b>Υ</b> 10'17	
asc. node		0° <b>8</b> 03'00		asc. node	4419 Mar 23 12:44	18° <b>Υ</b> 52'29	
asc. node	4418 Apr 05 15:42	0.8 0.902.00				18 <b>γ</b> 32 29 27° <b>Υ</b> 44'00	10006144
	4418 Apr 05 15:01	14° <b>8</b> 40'12	1001707	evening max el	4419 Mar 30 05:16	0° <b>8</b>	18°06'44
evening max el	4418 Apr 15 17:39	_	18°16'07	. 1	4419 Apr 02 01:35		
retrograde	4418 Apr 22 20:11	18° <b>8</b> 13'25		retrograde	4419 Apr 05 18:34	1°806'38	
evening set	4418 Apr 25 06:51	17° <b>8</b> 49'02	2025122	evening set	4419 Apr 08 11:36	0° <b>8</b> 31'42	
inferior conj	4418 May 02 09:17	13° <b>8</b> 07'05			4419 Apr 09 13:09	30°RƳ	2016145
minimum elong	4418 May 02 12:49	12° <b>8</b> 59'25	2°34'29	inferior conj	4419 Apr 14 22:51	25° <b>Y</b> 29'32	
min. Earth dist.	4418 May 05 19:17	10° <b>8</b> 11'08	0.59346 AU	minimum elong	4419 Apr 15 01:09	25° <b>Y</b> 23'47	
morning rise	4418 May 09 16:01	7° <b>8</b> 27'18		min. Earth dist.	4419 Apr 18 00:55	22° <b>Y</b> 26'24	0.61543 AU
desc. node	4418 May 12 10:21	6° <b>8</b> 12'27		morning rise	4419 Apr 21 12:52	19° <b>Ƴ</b> 31'31	
direct	4418 May 15 23:56	5° <b>8</b> 37'31		direct	4419 Apr 28 07:49	17° <b>Y</b> ′09'29	
morning max el	4418 May 30 09:04	13° <b>8</b> 26'56	27°23'16	desc. node	4419 Apr 29 07:25	17° <b>Y</b> 12'18	
	4418 Jun 12 13:01	$\Pi$ °0		morning max el	4419 May 12 12:28	25° <b>Y</b> ′08′00	27°51'12
	4418 Jun 29 09:01	0			4419 May 16 23:32	$9^{\circ}$ 8	
morning set	4418 Jun 30 12:21	2° <b>©</b> 21'42			4419 Jun 05 23:10	$\Pi$ °0	
asc. node	4418 Jul 02 14:58	6° <b>ॐ</b> 49'25		morning set	4419 Jun 14 16:04	16° <b>∏</b> 45′08	
max. Earth dist.	4418 Jul 07 02:38	16° <b>©</b> 36'06	1.31987 AU	asc. node	4419 Jun 19 12:01	26° <b>Ⅱ</b> 55'50	
				max. Earth dist.	4419 Jun 20 12:09	29° <b>Ⅱ</b> 06′26	1.32229 AU
superior conj	4418 Jul 07 15:05	17° <b>5</b> 544'48	0°50'21		4419 Jun 20 22:00	0	
minimum elong	4418 Jul 07 13:07	17° <b>©</b> 33'54	0°49'58				
	4418 Jul 13 05:20	$0 {\circ} \Omega$		superior conj	4419 Jun 22 01:28	2° <b>5</b> 29'54	0°26'33
evening rise	4418 Jul 14 10:40	2° <b>Ω</b> 36'48		minimum elong	4419 Jun 22 00:17	2° <b>5</b> 23'24	0°26'17
	4418 Jul 29 02:58	o° mp		evening rise	4419 Jun 28 21:59	17° <b>©</b> 25'21	
desc. node	4418 Aug 08 09:37	13° <b>m</b> ∕57'41			4419 Jul 05 02:22	$0^{\circ}\Omega$	
evening max el	4418 Aug 11 22:39	17° <b>m</b> 39'01	26°05'34	evening max el	4419 Jul 24 14:09	28° <b>Ω</b> 29'12	24°42'23
retrograde	4418 Aug 25 21:55	24° Mp 47'27		desc. node	4419 Jul 26 06:38	0° Mp 01′20	
evening set	4418 Sep 01 07:34	23°M 08'15			4419 Jul 26 06:01	0° <b>m</b>	
min. Earth dist.	4418 Sep 05 11:21	20° m 33'00	0.58938 AU	retrograde	4419 Aug 07 12:02	5° <b>m</b> 30'48	
inferior conj	4418 Sep 08 17:24	18° <b>₯</b> 07'42	-4°59'22	evening set	4419 Aug 12 16:43	4° <b>™</b> 29'59	
minimum elong	4418 Sep 08 21:36		4°58'51	min. Earth dist.	4419 Aug 18 01:28	1° Mp 41'23	0.56999 AU
morning rise	4418 Sep 16 13:52	13° Mp 40'03		inferior conj	4419 Aug 20 20:56	29° <b>Ω</b> 51'55	-5°13'03
direct	4418 Sep 18 23:48	13° m/20'31		minimum elong	4419 Aug 20 20:10	29° <b>£</b> 53'11	
morning max el	4418 Sep 27 00:48	17° <b>m</b> ) 12'38	18°30'12	Č	4419 Aug 20 16:00	30°RΩ	
asc. node	4418 Sep 28 14:12	18° <b>m</b> 50'11		morning rise	4419 Aug 29 02:06	25° <b>Ω</b> 45'52	
	4418 Oct 06 04:43	0∘ <b>⊽</b>		direct	4419 Aug 31 16:53	25° <b>Ω</b> 26'47	
morning set	4418 Oct 13 03:04	12° <b>≏</b> 53'53		morning max el	4419 Sep 09 23:54	29° <b>Ω</b> 48'09	19°21'41
	500 15 05.01				4419 Sep 10 04:54	0° m	
superior conj	4418 Oct 22 01:08	29° <b>£</b> 55'01	1°24'33	asc. node	4419 Sep 15 11:16	6° Mp 21'17	
minimum elong	4418 Oct 22 04:36	0°M11'06	1°24'13	morning set	4419 Sep 27 03:49	27° Mp 16'53	
viong	4418 Oct 22 02:12	0°M	. =		4419 Sep 28 12:24	0° <b>ي</b> دوده	
max. Earth dist.	4418 Oct 29 10:51	13°M13'28	1.40173 AU		эер 20 12.24	~ <del>-</del>	
evening rise	4418 Nov 02 17:31	20°M29'54	1	superior conj	4419 Oct 05 05:54	13° <b>≏</b> 23'43	1°38'35
desc. node	4418 Nov 04 08:56	20 IIC29 54 23°M12'54		minimum elong	4419 Oct 05 05:54 4419 Oct 05 07:51	13° <b>⊆</b> 23'43	
dose. Hode	11101101 07 00.30	20 IIV12 JT		iiiiiiiiiiiii Ciong	1117 000 00 07.01	15 - 33 12	1 30 20

max. Earth dist.	4419 Oct 11 15:10 4419 Oct 14 03:03	25° <b>≏</b> 29'30 0° <b>™</b>	1.38078 AU	morning set	4420 Sep 04 08:36 4420 Sep 10 10:17	0° <b>ዀ</b> 11 <b>°ዀ</b> 56'42	
evening rise	4419 Oct 15 09:31	2°M14'41					
desc. node	4419 Oct 22 05:57	13°M49'56		superior conj	4420 Sep 17 22:56	27° <b>m</b> 28'51	1°43'53
	4419 Nov 01 18:13	0°⊀		minimum elong	4420 Sep 17 23:15	27° <b>m</b> 30'30	1°43'52
evening max el	4419 Nov 20 00:46	22° <b>≯</b> 56'58	25°01'47		4420 Sep 19 04:45	0₀ <b>ʊ</b>	
retrograde	4419 Dec 01 20:33	29° <b>҂</b> 48'07		max. Earth dist.	4420 Sep 22 22:39	7° <b>≏</b> 24'59	1.36129 AU
evening set	4419 Dec 07 13:07	27° <b>₹</b> 25'47		evening rise	4420 Sep 26 21:55	14° <b>≏</b> 56'25	
min. Earth dist.	4419 Dec 12 01:32	22° <b>≯</b> 21'55	0.67463 AU		4420 Oct 05 12:13	0°M₊	
asc. node	4419 Dec 12 10:30	21° <b>≯</b> 52'35		desc. node	4420 Oct 08 02:57	4°M15'27	
inferior conj	4419 Dec 13 02:17	21° <b>∡</b> 00′43	0°13'27		4420 Oct 26 10:03	0° <b>∡</b>	
minimum elong	4419 Dec 13 01:57	21° <b>∡</b> *01'49	0°13'19	evening max el	4420 Nov 01 13:24	6° <b>₰</b> 740'08	26°09'10
transit middle	4419 Dec 13 01:57	21° <b>х</b> 01'49	0°13'19	retrograde	4420 Nov 14 04:37	13° <b>×</b> 48'53	
transit begin	4419 Dec 13 00:22	21°×706'59		evening set	4420 Nov 20 10:50	11° 🗷 14'43	
transit end	4419 Dec 13 03:31	20° 🖈 56'39		min. Earth dist.	4420 Nov 24 16:10	6°×746'09	0.66655 AU
morning rise	4419 Dec 18 14:57	15°× <b>7</b> 02'04		inferior conj	4420 Nov 26 04:06	4° 🖈 55'03	
direct	4419 Dec 22 04:15	13° <b>х</b> 49'17	10020110	minimum elong	4420 Nov 26 05:17	4° <b>₹</b> 51'24	0°43'27
morning max el	4419 Dec 29 12:08	17° <b>₹</b> 56'58	19°39'40	asc. node	4420 Nov 28 07:32	2° <b>∡</b> 721′26	
	4420 Jan 08 00:25	0°る	0.7		4420 Nov 30 17:17	30°RM.	
greatest brilliancy	4420 Jan 11 14:31	5°る14'08	-0.7m	morning rise	4420 Dec 02 00:13	29°M05'44	
desc. node	4420 Jan 18 05:15	15°る12'24		direct	4420 Dec 05 02:51	28°M10'35	
morning set	4420 Jan 23 20:53	23° <b>る</b> 53'00			4420 Dec 09 17:19	0° ⊀ <sup>7</sup>	10047110
E d Ed	4420 Jan 27 19:39	0°≈	1 44416 ATT	morning max el	4420 Dec 11 21:11	1° <b>₹</b> 53'59	18°47'18
max. Earth dist.	4420 Feb 05 00:03	12° <b>≈</b> 50'43	1.44416 AU		4420 Dec 31 11:26	0°る	
	4420 F 1 00 11 44	20000150	1050104	morning set	4421 Jan 02 09:18	3°る00'14	
superior conj	4420 Feb 09 11:44	20°≈00'59		desc. node	4421 Jan 04 02:15	5°る41'09 27°る04'09	1 45107 ATT
minimum elong	4420 Feb 09 05:40 4420 Feb 15 14:49	19° <b>≈</b> 36'33 0° <b>)</b> €	1 38 43	max. Earth dist.	4421 Jan 17 17:23	27-00409	1.45187 AU
evening rise	4420 Feb 13 14.49 4420 Feb 23 04:41	0 <del>X</del> 12° <b>¥</b> 39'48		superior conj	4421 Jan 18 18:59	28° <b>る</b> 44'40	1920/20
evening rise	4420 Feb 23 04.41 4420 Mar 04 14:14	12 <b>π</b> 3948			4421 Jan 18 09:39	28°る44'40 28°る08'02	
asc. node	4420 Mar 09 09:46	7° <b>Υ</b> 06'25		minimum elong	4421 Jan 19 14:09	28 <b>3</b> 08 02 0° <b>≈</b>	1 29 23
evening max el	4420 Mar 12 18:06	11° <b>Υ</b> 03'05	18°16'23	evening rise	4421 Feb 03 04:15	0 ∞ 23°≈12'13	
retrograde	4420 Mar 19 04:17	11 <b>γ</b> 03 03	18 10 23	evening rise	4421 Feb 07 09:22	0° <b>)</b> €	
evening set	4420 Mar 22 03:23	13° <b>Υ</b> 42'26		greatest brilliancy	4421 Feb 09 15:58	3° <b>)</b> (39'48	-0.9m
inferior conj	4420 Mar 28 03:22	8° <b>Υ</b> 21'02	3°33'56	evening max el	4421 Feb 24 05:25	24° <b>H</b> 30'29	18°44'12
minimum elong	4420 Mar 28 03:58	8° <b>Υ</b> 19'23	3°33'55	asc. node	4421 Feb 24 06:48	24° <del>X</del> 33'59	10 44 12
min. Earth dist.	4420 Mar 30 15:29	5° <b>Υ</b> 33'40	0.63585 AU	retrograde	4421 Mar 02 21:16	28° <b>)</b> 12'40	
morning rise	4420 Apr 03 03:35	2° <b>Υ</b> 13'15	0.03303710	evening set	4421 Mar 06 02:42	27° <b>)</b> 13'13	
morning rise	4420 Apr 07 00:59	30° <b>₹</b>		inferior conj	4421 Mar 11 18:56	21° <b>H</b> 34'05	3°32'42
direct	4420 Apr 10 00:29	29° <b>)</b> € 30'05		minimum elong	4421 Mar 11 18:03	21° <b>H</b> 36'50	3°32'38
	4420 Apr 13 03:25	0°Υ		min. Earth dist.	4421 Mar 13 15:21	19° <b>)</b> 18'19	0.65293 AU
desc. node	4420 Apr 15 04:27	0° <b>Υ</b> 48'55		morning rise	4421 Mar 17 08:56	15° <b>∺</b> 21'38	
morning max el	4420 Apr 23 20:22	7° <b>Y</b> 28′26	27°41'41	direct	4421 Mar 24 00:10	12° <b>)</b> (31'15	
	4420 May 11 03:30	0°8		desc. node	4421 Apr 02 01:29	16° <b>)</b> € 30'38	
	4420 May 28 03:49	0° <b>I</b> I		morning max el	4421 Apr 06 06:13	20° <b>)</b> 18'45	26°58'52
morning set	4420 May 28 12:55	0° <b>Ⅱ</b> 45'15		C	4421 Apr 14 14:01	$0^{\circ}\mathbf{\Upsilon}$	
max. Earth dist.	4420 Jun 02 15:45	11° <b>Ⅱ</b> 15'50	1.32910 AU		4421 May 04 05:41	0°8	
				morning set	4421 May 11 23:48	14° <b>8</b> 12'19	
superior conj	4420 Jun 05 08:39	17° <b>Ⅲ</b> 01′26	-0°00'11	max. Earth dist.	4421 May 16 09:55	22° <b>8</b> 55'21	1.34056 AU
minimum elong	4420 Jun 05 08:39	17° <b>Ⅱ</b> 01'29	0°00'12		4421 May 19 20:38	$\Pi$ $^{\circ}0$	
behind sun begin	4420 Jun 05 03:21	16° <b>Ⅲ</b> 33′00					
behind sun end	4420 Jun 05 13:57	17° <b>Ⅱ</b> 30′00		superior conj	4421 May 20 10:29	1°Ⅱ12′13	-0°28'55
asc. node	4420 Jun 05 09:03	17° <b>Ⅱ</b> 03'39		minimum elong	4421 May 20 12:00	1° <b>Ⅱ</b> 20′12	0°28'37
	4420 Jun 11 09:00	0ංම		asc. node	4421 May 23 06:04	7° <b>Ⅱ</b> 08'12	
evening rise	4420 Jun 12 09:45	2° <b>©</b> 11'44		evening rise	4421 May 27 20:04	16° <b>Ⅱ</b> 49'00	
	4420 Jun 27 17:14	$0 {\circ} \Omega$			4421 Jun 03 10:48	0∘ <b>ௐ</b>	
evening max el	4420 Jul 05 03:11	8° <b>Ω</b> 54'18	23°05'59	evening max el	4421 Jun 16 21:18	19° <b>5</b> 24'56	21°31'54
desc. node	4420 Jul 12 03:40	14° <b>Ω</b> 02'58		retrograde	4421 Jun 29 03:55	25° <b>©</b> 28'23	
retrograde	4420 Jul 18 13:17	15° <b>Ω</b> 36'19		desc. node	4421 Jun 29 00:42	25° <b>©</b> 28'20	
evening set	4420 Jul 22 05:35	15° <b>Ω</b> 06'44		evening set	4421 Jul 01 14:57	25° <b>©</b> 14'36	
min. Earth dist.	4420 Jul 29 12:17		0.55529 AU	inferior conj	4421 Jul 10 23:47	21° <b>©</b> 14'18	
inferior conj	4420 Jul 31 04:58	10° <b>Ω</b> 50'51		minimum elong	4421 Jul 10 15:23	21°526'02	
minimum elong	4420 Jul 30 22:10	11° <b>Ω</b> 00'46	4°41'50	min. Earth dist.	4421 Jul 10 22:39	21° <b>©</b> 15'53	0.54838 AU
morning rise	4420 Aug 08 17:03	6° <b>Ω</b> 58'57		morning rise	4421 Jul 19 16:49	17° <b>©</b> 20'47	
direct	4420 Aug 11 15:25	6° <b>Ω</b> 38'28		direct	4421 Jul 23 01:36	16°956'11	
morning max el	4420 Aug 22 11:24	11° <b>Ω</b> 40'30	20°34'50	morning max el	4421 Aug 04 11:11		22°07'02
asc. node	4420 Sep 01 08:18	24° <b>Ω</b> 40'57			4421 Aug 10 18:38	$0$ $^{\circ}\Omega$	

asc. node	4421 Aug 19 05:20	13° <b>Ω</b> 36'33			4422 Jul 13 01:00	0°99	
morning set	4421 Aug 25 20:12	26° <b>Ω</b> 45'52		morning max el	4422 Jul 17 03:06		23°49'57
morning set	4421 Aug 27 09:06	0° M)		morning max ci	4422 Aug 04 13:30	0°Ω	23 4931
	4421 Aug 27 07.00	Ų ių		asc. node	4422 Aug 06 02:22	2° <b>Ω</b> 59'16	
superior conj	4421 Sep 02 00:24	11° <b>m</b> 58'16	1°41'52	morning set	4422 Aug 10 07:46	11° <b>Ω</b> 39'07	
minimum elong	4421 Sep 01 23:24	11° m 52'59	1°41'50	morning sec	1122 1145 10 07.10	11 0037 07	
max. Earth dist.	4421 Sep 05 13:31	19° <b>m</b> 20'42	1.34486 AU	superior conj	4422 Aug 17 07:29	26° <b>Ω</b> 43'27	1°33'44
evening rise	4421 Sep 10 02:18	28° <b>m</b> 22'40	1.5 1.00 110	minimum elong	4422 Aug 17 05:35	26° <b>Ω</b> 33'14	1°33'34
	4421 Sep 10 22:31	0∘ <b>ಹ</b>			4422 Aug 18 20:00	0° m)	
desc. node	4421 Sep 24 23:59	24° <b>£</b> 22'54		max. Earth dist.	4422 Aug 19 13:06	1° m/31'19	1.33244 AU
dese. node	4421 Sep 28 17:08	0°M		evening rise	4422 Aug 24 18:39	12° m) 22'48	1.55211110
evening max el	4421 Oct 15 02:03	20°M16'07	26°59'13	<i>5</i>	4422 Sep 03 03:57	0∘ <u>⊽</u>	
retrograde	4421 Oct 28 07:10	27°M32'58		desc. node	4422 Sep 11 21:00	14° <b>≏</b> 04'21	
evening set	4421 Nov 04 01:26	24°M52'17			4422 Sep 24 02:14	0°M	
min. Earth dist.	4421 Nov 08 00:09	20°M59'32	0.65491 AU	evening max el	4422 Sep 27 13:39	3°M33'48	27°24'52
inferior conj	4421 Nov 09 23:58	18° <b>M</b> 42'52	-1°44'53	retrograde	4422 Oct 11 03:47	10°M51'45	
minimum elong	4421 Nov 10 02:56	18°MJ34'23	1°43'40	evening set	4422 Oct 18 06:16	8°M13'05	
asc. node	4421 Nov 15 04:34	13°M41'52		min. Earth dist.	4422 Oct 21 23:26	4° <b>ጤ</b> 54'11	0.63975 AU
morning rise	4421 Nov 16 05:21	13°M05'56		inferior conj	4422 Oct 24 11:26	2°M18'35	-2°47'06
direct	4421 Nov 18 23:27	12°M24'42		minimum elong	4422 Oct 24 16:11	2°M06'16	2°45'23
morning max el	4421 Nov 25 11:27	15°M54'22	18°11'25	C	4422 Oct 26 18:57	30° <b>Ŗ</b> Ω	
C	4421 Dec 05 17:43	0° <b>∡</b> 7		morning rise	4422 Oct 31 03:28	26° <b>♀</b> 57'06	
morning set	4421 Dec 14 02:40	13° <b>∡</b> ³35'38		asc. node	4422 Nov 02 01:36	26° <b>₽</b> 27'43	
desc. node	4421 Dec 21 23:16	26° <b>х</b> 19′53		direct	4422 Nov 02 15:23	26° <b>≏</b> 26'03	
	4421 Dec 24 06:17	6°0		morning max el	4422 Nov 09 04:07	29° <b>₽</b> 51'12	17°52'41
				C	4422 Nov 09 07:38	0°M₊	
superior conj	4421 Dec 28 22:42	7° <b>る</b> 25'52	-0°46'45	morning set	4422 Nov 25 23:38	25°M31'22	
minimum elong	4421 Dec 28 16:51	7° <b>る</b> 02'47	0°45'59	Ü	4422 Nov 28 14:30	0° <b>∡</b> ¹	
max. Earth dist.	4421 Dec 31 13:01	11° <b>ප</b> 31'06	1.45214 AU				
	4422 Jan 12 09:02	0° <b>≈</b>		superior conj	4422 Dec 08 18:55	16° <b>₹</b> ′59'03	0°00'24
evening rise	4422 Jan 14 05:41	2°≈53'40		minimum elong	4422 Dec 08 18:58	16° <b>₹</b> '59'15	0°00'24
greatest brilliancy	4422 Jan 26 10:47	21° <b>≈</b> 44'53	-0.7m	behind sun begin	4422 Dec 08 09:03	16° <b>∡</b> 18'49	
	4422 Feb 01 02:00	0° <b>)</b> €		behind sun end	4422 Dec 09 04:53	17° <b>∡</b> ³39'36	
evening max el	4422 Feb 07 13:03	8° <b>ℋ</b> 01'46	19°28'59	desc. node	4422 Dec 08 20:16	17° <b>∡</b> ¹04'36	
asc. node	4422 Feb 11 03:50	11° <b>)</b> €02'09		max. Earth dist.	4422 Dec 14 07:24	25° <b>х</b> 51'43	1.44511 AU
retrograde	4422 Feb 14 18:14	12° <b>) (</b> 10′42			4422 Dec 16 22:12	0°ಕ	
evening set	4422 Feb 18 06:53	10° <b>) €</b> 57'49		evening rise	4422 Dec 24 16:57	12° <b>る</b> 05'50	
inferior conj	4422 Feb 23 18:15	5° <b>)</b> €03'08	3°17'31		4423 Jan 05 12:53	0°≈	
minimum elong	4422 Feb 23 16:21	5° <b>)</b> €09'22	3°17'12	evening max el	4423 Jan 21 15:33	21° <b>≈</b> 34'14	20°28'39
min. Earth dist.	4422 Feb 24 23:38	3° <b>)</b> €27'01	0.66590 AU	asc. node	4423 Jan 29 00:53	26°≈15'40	
	4422 Feb 27 20:40	30° <b>₹</b> ≈		retrograde	4423 Jan 29 16:28	26° <b>≈</b> 17'57	
morning rise	4422 Mar 01 01:34	28° <b>≈</b> 48'55		evening set	4423 Feb 02 13:44	24° <b>≈</b> 50'45	
direct	4422 Mar 07 06:02	26°≈03'55		inferior conj	4423 Feb 07 22:35	18° <b>≈</b> 43'11	2°51'22
	4422 Mar 15 21:19	0° <b>ℋ</b>		minimum elong	4423 Feb 07 20:11	18° <b>≈</b> 51'22	2°50'47
morning max el	4422 Mar 19 15:55	3° <b>∺</b> 27'33	25°50'39	min. Earth dist.	4423 Feb 08 14:22	17° <b>≈</b> 49'17	0.67468 AU
desc. node	4422 Mar 19 22:29	3° <b>)</b> 44'16		morning rise	4423 Feb 13 02:26	12° <b>≈</b> 29'13	
	4422 Apr 08 20:48	$0$ ° $\mathbf{\Upsilon}$		direct	4423 Feb 18 17:21	9° <b>≈</b> 58'59	
morning set	4422 Apr 24 20:47	26° <b>Ƴ</b> 55′27		morning max el	4423 Mar 02 00:36	16° <b>≈</b> 44'23	24°26'45
	4422 Apr 26 12:34	$0^{\circ}$ 8		desc. node	4423 Mar 06 19:31	22° <b>≈</b> 03'13	
max. Earth dist.	4422 Apr 28 16:48	4° <b>8</b> 07'26	1.35658 AU		4423 Mar 13 00:49	0° <b>∀</b>	
					4423 Apr 01 20:45	$0^{\circ}$ Y	
superior conj	4422 May 04 04:28	14° <b>8</b> 55'36		morning set	4423 Apr 06 22:27	8° <b>Ƴ</b> 39'11	
minimum elong	4422 May 04 07:38	15° <b>8</b> 11'34	0°57'45	max. Earth dist.	4423 Apr 10 14:11	15° <b>Y</b> ′09'35	1.37640 AU
asc. node	4422 May 10 03:07	27° <b>8</b> 05'52					
	4422 May 11 12:59	$\Pi^{\circ}0$		superior conj	4423 Apr 17 11:19	28° <b>Y</b> ′02'28	
evening rise	4422 May 12 02:53	1° <b>Ⅱ</b> 11'13		minimum elong	4423 Apr 17 15:49	28° <b>Y</b> ′24'11	1°25'45
	4422 May 29 15:03	0ಂತಾ			4423 Apr 18 11:36	0°8	
evening max el	4422 May 30 02:40	0°529'00	20°11'48	evening rise	4423 Apr 26 03:44	15° <b>8</b> 10'37	
retrograde	4422 Jun 09 17:51	5° <b>©</b> 40'38		asc. node	4423 Apr 27 00:09	16° <b>8</b> 51'43	
evening set	4422 Jun 11 16:44	5° <b>©</b> 30'51			4423 May 03 23:56	0°II	
desc. node	4422 Jun 15 21:42	4° <b>©</b> 10'51		evening max el	4423 May 12 20:18	12° <b>∐</b> 15′22	19°10'57
inferior conj	4422 Jun 20 19:01	1° <b>©</b> 32'01		retrograde	4423 May 21 19:06	16° <b>Ⅲ</b> 37'11	
minimum elong	4422 Jun 20 14:55	1°538'05	1°25'36	evening set	4423 May 23 19:29	16° <b>Ⅱ</b> 24'50	
min. Earth dist.	4422 Jun 22 10:48	0°533'06	0.55103 AU	inferior conj	4423 Jun 01 04:21	12° <b>Ⅱ</b> 14'11	0°28'02
	4422 Jun 23 09:41	30°RⅡ		minimum elong	4423 Jun 01 05:30	12° <b>Ⅱ</b> 12'14	0°27'36
morning rise	4422 Jun 29 11:42	27° <b>Ⅱ</b> 16'01		desc. node	4423 Jun 02 18:43	11° <b>Ⅱ</b> 09'09	
direct	4422 Jul 03 12:38	26° <b>Ⅱ</b> 40'39		min. Earth dist.	4423 Jun 04 01:48	10° <b>Ⅱ</b> 17'32	0.56281 AU

morning rise	4423 Jun 09 12:21	7° <b>Ⅱ</b> 23'15		direct	4424 May 26 01:22	16° <b>8</b> 42'07	
direct	4423 Jun 14 11:50	6° <b>I</b> I25'42		morning max el	4424 Jun 09 10:33	24° <b>8</b> 22'16	26050122
	4423 Jun 28 17:06	13° <b>I</b> I42′26	25°20'44	morning max er	4424 Jun 14 13:48	0°II	20 30 33
morning max el			25-29-44			0°9	
	4423 Jul 11 12:47	0°©			4424 Jul 03 15:00		
asc. node	4423 Jul 23 23:25	22°541'51		morning set	4424 Jul 09 05:15	11°517'29	
morning set	4423 Jul 25 19:20	26° <b>©</b> 31'35		asc. node	4424 Jul 09 20:27	12° <b>©</b> 37'47	
	4423 Jul 27 10:20	$0$ $^{\circ}$ $\Omega$			4404 7 1 4 6 0 5 0 0	260-20116	1000100
	4422 A 01 17 52	110 02700	1020122	superior conj	4424 Jul 16 05:38	26°532'16	1°02'29
superior conj	4423 Aug 01 17:53	11° <b>Ω</b> 37'09	1°20'22	minimum elong	4424 Jul 16 03:24	26°919'57	1°02'05
minimum elong	4423 Aug 01 15:35		1°20'03	max. Earth dist.	4424 Jul 16 06:47	26° <b>©</b> 38'37	1.32029 AU
max. Earth dist.	4423 Aug 02 19:53	13° <b>£</b> 59'35	1.32426 AU		4424 Jul 17 19:17	0° <b>Ω</b>	
evening rise	4423 Aug 08 19:35	26° <b>Ω</b> 47'24		evening rise	4424 Jul 23 02:18	11° <b>Ω</b> 27'19	
	4423 Aug 10 09:14	0° <b>т</b> р			4424 Aug 01 13:57	0° <b>m</b>	
	4423 Aug 27 13:05	0∘ <b>⊽</b>		desc. node	4424 Aug 15 15:03	21° m/21'37	0.00.404.4
desc. node	4423 Aug 29 18:01	3° <b>₾</b> 09'08	2702011.5	evening max el	4424 Aug 22 01:18	28° m/25'51	26°42'11
evening max el	4423 Sep 09 22:16		27°20'15		4424 Aug 23 19:06	0∘ <b>亚</b>	
retrograde	4423 Sep 23 17:49	23° <b>≙</b> 35'57		retrograde	4424 Sep 04 23:44	5° <b>Ω</b> 35'52	
evening set	4423 Sep 30 21:53	21° <b>≏</b> 10'58		evening set	4424 Sep 11 19:40	3° <b>≙</b> 37'10	
min. Earth dist.	4423 Oct 04 12:37	18° <b>≙</b> 19'23	0.62151 AU	min. Earth dist.	4424 Sep 15 15:14	1° <b>≏</b> 00'46	0.60125 AU
inferior conj	4423 Oct 07 11:36	15° <b>≏</b> 35'28			4424 Sep 16 21:48	30°R, Mp	
minimum elong	4423 Oct 07 17:34		3°45'12	inferior conj	4424 Sep 18 20:58	28° Mp 23'42	
morning rise	4423 Oct 14 15:00	10° <b>£</b> 32'36		minimum elong	4424 Sep 19 02:35	28° Mp 12'17	4°36'54
direct	4423 Oct 16 23:34	10° <b>ഫ</b> 08'13		morning rise	4424 Sep 26 11:30	23° Mp 42'20	
asc. node	4423 Oct 19 22:38	10° <b>≏</b> 47'59		direct	4424 Sep 28 19:59	23° <b>m</b> 21'38	
morning max el	4423 Oct 23 20:05	13° <b>≏</b> 37'07	17°51'54	asc. node	4424 Oct 05 19:41	26° Mp 33′42	
	4423 Nov 03 23:59	$0^{\circ}$ M		morning max el	4424 Oct 06 08:03	27° M 02'40	18°10'18
morning set	4423 Nov 08 18:00	8°M28'40			4424 Oct 08 23:31	0∘ <b>⊽</b>	
				morning set	4424 Oct 22 03:35	22° <b>≙</b> 08'53	
superior conj	4423 Nov 19 17:17	27°M49'16	0°41'22		4424 Oct 26 07:52	0°M	
minimum elong	4423 Nov 19 20:47	28°M04'12	0°40'53				
	4423 Nov 21 00:01	0° <b>∡</b> ¹		superior conj	4424 Oct 31 16:46	9°M52'08	1°11'55
desc. node	4423 Nov 25 17:19	7° <b>∡</b> ¹52'07		minimum elong	4424 Oct 31 20:46	10°MJ0'10	1°11'27
max. Earth dist.	4423 Nov 26 22:06	9° <b>∡</b> ¹49'47	1.43172 AU	max. Earth dist.	4424 Nov 08 08:05	23°M12'16	1.41354 AU
evening rise	4423 Dec 04 05:22	21° <b>渘</b> ¹27'52		desc. node	4424 Nov 11 14:21	28°M38'27	
	4423 Dec 09 18:30	0°ರ			4424 Nov 12 10:15	0° <b>∡</b> ¹	
	4423 Dec 30 23:47	0° <b>≈</b>		evening rise	4424 Nov 13 09:29	1° <b>∡</b> ³34'29	
evening max el	4424 Jan 04 12:40	5° <b>≈</b> 08'36	21°39'58		4424 Dec 02 05:02	8°0	
retrograde	4424 Jan 13 13:55	10° <b>≈</b> 31'17		evening max el	4424 Dec 17 05:08	18° <b>る</b> 45'27	22°58'25
asc. node	4424 Jan 15 21:54	10° <b>≈</b> 01'59		retrograde	4424 Dec 27 08:59	24° <b>る</b> 46'52	
evening set	4424 Jan 17 21:30	8° <b>≈</b> 48'47		evening set	4425 Jan 01 04:33	22° <b>る</b> 48'21	
inferior conj	4424 Jan 23 05:43	2° <b>≈</b> 31'27	2°16'17	asc. node	4425 Jan 01 18:57	22° <b>る</b> 16'29	
minimum elong	4424 Jan 23 03:18	2° <b>≈</b> 39'48	2°15'31	min. Earth dist.	4425 Jan 06 05:58	16° <b>る</b> 51'24	0.68043 AU
min. Earth dist.	4424 Jan 23 09:18	2°≈18'59	0.67948 AU	inferior conj	4425 Jan 06 13:40	16° <b>පි</b> 24'50	1°33'36
	4424 Jan 25 02:08	30°R₹		minimum elong	4425 Jan 06 11:43	16° <b>る</b> 31'32	1°32'53
morning rise	4424 Jan 28 08:56	26° <b>る</b> 19'30		morning rise	4425 Jan 11 18:47	10° <b>る</b> 16'39	
direct	4424 Feb 02 09:15	24° <b>る</b> 09'49		direct	4425 Jan 16 04:37	8° <b>る</b> 29'52	
	4424 Feb 12 07:22	0° <b>≈</b>		morning max el	4425 Jan 24 23:53	13° <b>る</b> 37'28	21°32'05
morning max el	4424 Feb 12 10:01	0° <b>≈</b> 06'37	22°57'30		4425 Feb 06 23:50	0° <b>≈</b>	
desc. node	4424 Feb 21 16:34	11° <b>≈</b> 09′10		desc. node	4425 Feb 07 13:37	0° <b>≈</b> 48'47	
	4424 Mar 05 21:16	0° <b>)</b> €		morning set	4425 Feb 25 18:16	28° <b>≈</b> 15′03	
morning set	4424 Mar 17 22:43	19° <b>)</b> €07'38			4425 Feb 26 20:38	0° <b>)</b> €	
max. Earth dist.	4424 Mar 22 09:11	26° <b>)</b> 37′35	1.39826 AU	max. Earth dist.	4425 Mar 04 09:37	8° <b>升</b> 59'53	1.41928 AU
	4424 Mar 24 07:51	$0$ ° $\Upsilon$					
				superior conj	4425 Mar 11 22:26	21° <b>)</b> 45′32	-2°05'21
superior conj	4424 Mar 30 02:57	10° <b>Y</b> 22'54	-1°50'09	minimum elong	4425 Mar 12 01:06	21° <b>)</b> 57'09	2°05'16
minimum elong	4424 Mar 30 07:42	10° <b>Ƴ</b> 44'39	1°49'43		4425 Mar 16 14:38	$0^{\circ}\Upsilon$	
evening rise	4424 Apr 08 19:36	28° <b>Y</b> 39'35		evening rise	4425 Mar 22 22:51	11° <b>Y</b> 29'46	
	4424 Apr 09 12:27	$9^{\circ}$ 8		asc. node	4425 Mar 30 18:15	25° <b>Y</b> 27'16	
asc. node	4424 Apr 12 21:12	6° <b>8</b> 20'47			4425 Apr 02 13:22	$9^{\circ}$ 8	
evening max el	4424 Apr 24 23:43	24° <b>8</b> 39'24	18°30'22	evening max el	4425 Apr 08 09:22	7° <b>8</b> 32'03	18°09'44
retrograde	4424 May 02 14:46	28° <b>8</b> 25'13		retrograde	4425 Apr 15 04:42	10° <b>8</b> 58'38	
evening set	4424 May 04 21:41	28° <b>8</b> 05'58		evening set	4425 Apr 17 18:18	10° <b>8</b> 29'48	
inferior conj	4424 May 12 10:37	23° <b>8</b> 36'05	1°58'04	inferior conj	4425 Apr 24 13:45	5° <b>8</b> 38'58	2°56'17
minimum elong	4424 May 12 14:07	23° <b>8</b> 29'09	1°57'01	minimum elong	4425 Apr 24 16:53	5° <b>8</b> 31'43	2°55'39
min. Earth dist.	4424 May 15 20:36	20° <b>8</b> 55'29	0.58128 AU	min. Earth dist.	4425 Apr 27 21:23	2° <b>8</b> 37'10	0.60290 AU
desc. node	4424 May 19 15:46	18° <b>8</b> 26'51			4425 May 01 07:11	30° <b>₹</b> Υ	
morning rise	4424 May 20 03:23	18° <b>8</b> 11'54		morning rise	4425 May 01 13:11	29° <b>Y</b> 50'30	

desc. node	4425 May 06 12:49	27° <b>Y</b> 53′29		direct	4426 Apr 20 14:35	9° <b>Ƴ</b> 39'55	
direct	4425 May 08 03:02	27° <b>Υ</b> 46'17		desc. node	4426 Apr 23 09:51	10° <b>Υ</b> 03'03	
direct	4425 May 15 08:27	0° <b>8</b>		morning max el	4426 May 04 16:14	10 <b>γ</b> 03 03	27051120
morning max el	4425 May 13 08.27 4425 May 22 10:26	5° <b>8</b> 39'38	27920140	morning max er	4426 May 14 23:23	0° <b>8</b>	27 31 39
morning max er	4425 May 22 10.26 4425 Jun 09 14:31	0°Ⅱ	27 39 49			0°II	
		0°П 25°П51'29			4426 Jun 02 08:58	10° <b>Ⅱ</b> 06'12	
morning set	4425 Jun 23 11:50			morning set	4426 Jun 07 12:56		1 22472 ATT
	4425 Jun 25 11:10	0°©		max. Earth dist.	4426 Jun 13 01:49	21° <b>II</b> 41'14	1.32472 AU
asc. node	4425 Jun 26 17:30	2°542'08	1 22044 ATT	asc. node	4426 Jun 13 14:32	22° <b>Ⅱ</b> 49'43	
max. Earth dist.	4425 Jun 29 18:08	9° <b>©</b> 17'18	1.32044 AU		4426 7 15 02 14	260T02102	001.512.1
	4425 I 20 17 01	110522106	0040140	superior conj	4426 Jun 15 02:14	26° <b>I</b> I03'02	0°15'31
superior conj	4425 Jun 30 17:01	11°523'06	0°40'40	minimum elong	4426 Jun 15 01:31	25° <b>II</b> 59'05	0°15'21
minimum elong	4425 Jun 30 15:20	11°513'45	0°40'19	behind sun begin	4426 Jun 15 00:08	25° <b>I</b> I51'36	
evening rise	4425 Jul 07 12:33	26°915'16		behind sun end	4426 Jun 15 02:53	26° <b>Ⅱ</b> 06'34	
	4425 Jul 09 07:17	$\Omega^{\circ}\Omega$			4426 Jun 16 21:43	0°95	
	4425 Jul 26 13:23	0°M)		evening rise	4426 Jun 22 00:17	11°503'44	
desc. node	4425 Aug 02 12:04	8° Mp 20'27	25022147		4426 Jul 01 15:54	0°N	24001152
evening max el	4425 Aug 03 20:46	9° m 41'29	25°32'47	evening max el	4426 Jul 16 10:07	20° <b>Ω</b> 16'25	24°01′52
retrograde	4425 Aug 17 19:45	16° Mp 46'56		desc. node	4426 Jul 20 09:05	23° <b>Ω</b> 36'23	
evening set	4425 Aug 23 18:49	15° Mp 24'02	0.50004.437	retrograde	4426 Jul 30 04:25	27° <b>Ω</b> 12'09	
min. Earth dist.	4425 Aug 28 08:41	•	0.58084 AU	evening set	4426 Aug 03 18:04	26° <b>Ω</b> 25'57	0.56200.433
inferior conj	4425 Aug 31 12:03	10° m 33'29		min. Earth dist.	4426 Aug 09 20:34	23° <b>Ω</b> 27'02	
minimum elong	4425 Aug 31 14:30	10° m 29'09	5°09'22	inferior conj	4426 Aug 12 06:50	21°Ω57'27	
morning rise	4425 Sep 08 12:26	6° Mp 15'17		minimum elong	4426 Aug 12 03:21	22° <b>Ω</b> 02'51	5°06'08
direct	4425 Sep 11 00:17	5° <b>m</b> 56'00		morning rise	4426 Aug 20 15:12	17° <b>Ω</b> 59'16	
morning max el	4425 Sep 19 12:40	9° <b>m</b> 58'51	18°49'25	direct	4426 Aug 23 09:00	17° <b>Ω</b> 39'49	
asc. node	4425 Sep 22 16:44	13° <b>m</b> 30'35		morning max el	4426 Sep 02 07:01	22° <b>Ω</b> 16'37	19°50'19
	4425 Oct 02 17:26	0∘ <b>⊽</b>			4426 Sep 08 15:40	0° <b>т</b> р	
morning set	4425 Oct 05 23:47	6° <b>≏</b> 19'05		asc. node	4426 Sep 09 13:46	1° <b>m</b> 23′39	
				morning set	4426 Sep 20 03:14	20° <b>m</b> 49'59	
superior conj	4425 Oct 14 12:24	22° <b>≙</b> 53'55	1°31'40		4426 Sep 24 15:25	0ಂ <b>ಹ</b>	
minimum elong	4425 Oct 14 15:16	23° <b>♀</b> 07'32	1°31'26				
	4425 Oct 18 07:42	0°M		superior conj	4426 Sep 27 22:54	6° <b>£</b> 39'48	1°41'48
max. Earth dist.	4425 Oct 21 13:47	5°M52'08	1.39283 AU	minimum elong	4426 Sep 28 00:08	6° <b>£</b> 45'57	
evening rise	4425 Oct 25 12:13	12°M42'35		max. Earth dist.	4426 Oct 03 18:40	17° <b>£</b> 56'16	1.37213 AU
desc. node	4425 Oct 29 11:22	19°M20'00		evening rise	4426 Oct 07 13:17	24° <b>£</b> 52'24	
	4425 Nov 05 04:52	0° <b>∡</b>			4426 Oct 10 10:57	0°M	
	4425 Nov 27 10:48	0°る	24040404	desc. node	4426 Oct 16 08:22	9°M52'48	
evening max el	4425 Nov 29 18:33	2° <b>පි</b> 25'15	24°18'04		4426 Oct 29 19:38	0° 🖍	25022107
retrograde	4425 Dec 11 00:28	9° <b>る</b> 00'40		evening max el	4426 Nov 12 06:52	16° <b>х</b> 07'43	25°32'07
evening set	4425 Dec 16 09:18	6° <b>る</b> 46'20		retrograde	4426 Nov 24 11:34	23° 🗷 08'12	
asc. node	4425 Dec 19 15:59	3°る14'25	0.65556.433	evening set	4426 Nov 30 10:07	20°× <b>7</b> 40'01	0.65156.477
min. Earth dist.	4425 Dec 21 02:04	1°る23'02	0.67776 AU	min. Earth dist.	4426 Dec 04 19:20	15° <b>₹</b> 51'17	
inferior conj	4425 Dec 21 20:38	0°る20'36	0°44'23	inferior conj	4426 Dec 06 00:52	14° <b>₹</b> 16'33	
minimum elong	4425 Dec 21 19:36	0°る24'07	0°43'58	minimum elong	4426 Dec 06 01:08	14° <b>₹</b> 15'42	
	4425 Dec 22 02:47	30°R 🖈		transit middle	4426 Dec 06 01:08	14° 🖈 15'42	0°10'15
morning rise	4425 Dec 27 05:57	24° 🖈 18'05		transit begin	4426 Dec 05 22:58	14° 🗷 22'40	
direct	4425 Dec 31 02:17	22° 🖈 53'40	20017150	transit end	4426 Dec 06 03:18	14° <b>₹</b> 08'44	
morning max el	4426 Jan 07 21:07	27° <b>₹</b> 19'53	20°16'50	asc. node	4426 Dec 06 13:00	13° <b>×</b> <sup>7</sup> 37'45	
	4426 Jan 10 08:10	0°る		morning rise	4426 Dec 11 16:30	8° ₹21'49	
desc. node	4426 Jan 25 10:38	20° <b>ප</b> 52'29		direct	4426 Dec 15 00:56	7° <b>∡</b> 17'09	10015100
	4426 Jan 31 11:38	0° <b>≈</b>		morning max el	4426 Dec 22 02:17	11°×13'13	19°15'32
morning set	4426 Feb 04 16:51	6°≈28'41	1 42665 411	greatest brilliancy	4427 Jan 04 15:32	29° <b>₹</b> 27'29	-0.7m
max. Earth dist.	4426 Feb 14 17:45	22°≈16'30	1.43665 AU		4427 Jan 05 00:07	0°る	
	4426 Feb 19 12:02	0° <b>ℋ</b>		desc. node	4427 Jan 12 07:38	11° <b>ට</b> 13'47	
	4426 E. 1. 20. 17.05	10)(50)20	2007/20	morning set	4427 Jan 14 17:19	14° <b>る</b> 57'12	
superior conj	4426 Feb 20 17:05	1° <b>H</b> 59'30		E 41 E 4	4427 Jan 24 09:08	0° <b>≈</b>	1 44000 ATT
minimum elong	4426 Feb 20 14:37	1° <b>¥</b> 49'18	2-00-33	max. Earth dist.	4427 Jan 28 08:08	6° <b>≈</b> 13'11	1.44823 AU
evening rise	4426 Mar 05 09:04	23° <b>)</b> €31'22			44 <b>97</b> I. 31 10 40	11000146	1040112
1	4426 Mar 09 02:29	0° <b>Υ</b>		superior conj	4427 Jan 31 10:49	11°≈08'46	
asc. node	4426 Mar 17 15:17	14° <b>Y</b> 03'04	10000120	minimum elong	4427 Jan 31 02:38	10°≈36'15	1-48.33
evening max el	4426 Mar 22 21:49	20° <b>Υ</b> 43'20	18°08'28		4427 Feb 12 02:51	0° <b>)</b> (	
retrograde	4426 Mar 29 08:39	24°Υ06'02		evening rise	4427 Feb 14 22:06	4° <b>)</b> €37'18	
evening set	4426 Apr 01 04:15	23° <b>Υ</b> 26'10	2027/20		4427 Mar 02 22:47	0° <b>Υ</b>	
inferior conj	4426 Apr 07 10:12	18° <b>Y</b> 15'18	3°26'39	asc. node	4427 Mar 04 12:19	1° <b>Y</b> 59'04	10025150
minimum elong	4426 Apr 07 11:47	18° <b>Y</b> 11'08	3°26'29	evening max el	4427 Mar 06 10:15	4° <b>Υ</b> 06'39	18°25'59
min. Earth dist.	4426 Apr 10 06:37	15° <b>Y</b> 16'43 12° <b>Y</b> 12'12	0.62443 AU	retrograde	4427 Mar 12 22:00	7° <b>Ƴ</b> 38'34 6° <b>Ƴ</b> 46'39	
morning rise	4426 Apr 13 17:56	12   1212		evening set	4427 Mar 15 23:37	0 1 40 39	

March   Marc	inferior conj	4427 Mar 21 19:56	1° <b>Υ</b> 17'28	3°35'22	greatest brilliancy	4428 Feb 04 21:48	29° <b>≈</b> 39'21	-0.8m
Man. End diss.   427 May 21   1925   259	minimum elong	4427 Mar 21 19:50	1° <b>Y</b> 17'44	3°35'21	· ·	4428 Feb 05 03:06	0° <b>)</b> €	
Denoming time   427 May 27 1519   25745745   February   427 Apr 37 10 625   27445745   February   427 Apr 37 10 635   2745745   February   427 Apr 37 10 63   2745745   February   427 Apr 37 10 73   February   427 Apr 37		4427 Mar 22 22:21	30° <b>₹</b>		evening max el	4428 Feb 17 20:13	17° <b>)</b> 36′04	19°01'21
Marcha   427 Apr 10 602   2974175   1972   1973	min. Earth dist.	4427 Mar 24 01:25	28° <b>)</b> 41′52	0.64355 AU	asc. node	4428 Feb 19 09:21	19° <b>)</b> €03'06	
Mathematical   Math	morning rise	4427 Mar 27 15:19	25° <b>)</b> €06'54		retrograde	4428 Feb 24 16:59	21° <b>)</b> €28'32	
Marriage   4427 Agr   10   19.22   0°P   minimum clong   4428 Mary 6   19.428   19.428   0.8898   19.4380   0.8898   19.4380   0.8898   19.4380   0.8898   19.4380	direct	4427 Apr 03 10:26	22° <b>)</b> 18′55		evening set	4428 Feb 28 01:17	20° <b>)</b> 23′39	
Montaing max   4427 May 02 1031   0*Pl 156   2*P2705   montaing max   4427 May 10 1034   0*Pl 156	desc. node	4427 Apr 10 06:53	24° <b>)</b> €37'15		inferior conj	4428 Mar 04 15:10	14° <b>)</b> €37'53	3°27'45
Mary Name		4427 Apr 16 19:32	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	4428 Mar 04 13:46	14° <b>) (</b> 42′16	3°27'36
Montring   4427 May   27 0600   29°453755   Minet   4428 Mary 10 353   11°40125   12°52720   120°5275   13°5473   14°5473	morning max el	4427 Apr 17 01:31	0° <b>Υ</b> 14'56	27°27'05	min. Earth dist.	4428 Mar 06 05:08	12° <b>)</b> 38′00	0.65895 AU
Max		4427 May 08 23:23	$8^{\circ}$ 0		morning rise	4428 Mar 10 01:53	8° <b>)</b> 24′19	
Max. Earth dist.	morning set	4427 May 22 06:00	23° <b>8</b> 53'55		direct	4428 Mar 16 13:07	5° <b>)</b> 34′28	
Mapperior conj		4427 May 25 07:13	$\Pi^{\circ}0$		desc. node	4428 Mar 27 03:53	11° <b>)</b> €01'25	
	max. Earth dist.	4427 May 27 01:48	3° <b>Ⅲ</b> 38'44	1.33343 AU	morning max el	4428 Mar 29 11:25	13° <b>) (</b> 14′11	26°32'20
Debith of the part						4428 Apr 12 00:24	$0^{\circ}\mathbf{\Upsilon}$	
Debind sun neg	superior conj	4427 May 30 07:25	10° <b>Ⅱ</b> 26'36	-0°12'13		4428 Apr 30 15:34	$9^{\circ}$ 8	
Section of the sec	minimum elong	4427 May 30 08:02	10° <b>Ⅲ</b> 29'55	0°12'05	morning set	4428 May 04 11:35	7° <b>8</b> 04'31	
Second   4427 May 31 11:34   12°E1643   12	behind sun begin	4427 May 30 04:27	10° <b>Ⅱ</b> 10'49		max. Earth dist.	4428 May 08 14:54	15° <b>8</b> 04'18	1.34679 AU
Persing fish   4427 Jun   08   11-40   08   25   14654   07   08   12-12   07   08   12-12   07   08   12-12   07   08   12-12   07   08   12-12   07   08   12-12   07   08   12-12   07   08   12-12   07   08   12-12   07   08   07   08   07   07   08   08	behind sun end	4427 May 30 11:38	10° <b>Ⅱ</b> 49'01					
Part	asc. node	4427 May 31 11:34	12° <b>Ⅱ</b> 56'43		superior conj	4428 May 13 06:19	24° <b>8</b> 27'22	-0°41'25
May 17 m of 8   12   12   0°5	evening rise	4427 Jun 06 11:40	25° <b>Ⅱ</b> 46'54		minimum elong	4428 May 13 08:32	24° <b>8</b> 38'49	0°40'58
cevening max el   4427 Jun   27 08.21   07.6   07.2   27.2442   07.6   07.2   07.5	•	4427 Jun 08 12:12	0°ಅ			4428 May 15 22:22	$\Pi^{\circ}0$	
Peculing max e   4427 Jun   28   00.11   07.3397.5   22°24245   evening rise   4428 May 20 0.674   07°111856   retrograde   4427 Jun   10 0.00   07°408700   evening max e   4428 Jun   08   22°341   10 0.00   20°545   retrograde   4428 Jun   08   22°341   10 0.00   20°545   retrograde   4428 Jun   08   22°341   10°62476   10°62		4427 Jun 27 08:21	$0^{\circ}\Omega$		asc. node	•		
Contact   Cont	evening max el			22°24'42		•		
Petrograde   4427 Jul   1 0.10   7.0	•	4427 Jul 07 06:07	6°Ω34'53		8	,		
evening set					evening max el		11°523'41	20°55'45
Min. Earth dist.   4427 Jul   22 07:04   3°Q1405   0.55123 AU   evening set   4428 Jun   23 07:05   6°049757   16°054925	•				•			_, _,
Minimum elong	-			0.55123 AU	-			
minimum elong   4427 Jul   22 34.09   29.05.05   49.1236   minimum elong   4428 Jul   01   18.11   13.950710   273314   moming rise   4427 Jul   31 22.31   28.9248733   moming max   4427 Aug   10 05.22   09.02   28.925070   32.925070   32.9331 AU   32.931   32.					-			
May 1   May 1   May 2   May 3   May 3   May 3   May 3   May 3   May 3   May 4   May 3   Ma	·							-2°35'39
morning rise   4427 Mug 10 1 22.31   28°9548′3   min. Earth dist.   4428 Jul 0 2 18:27   12°932′50   0.54833 AU direct   4427 Mug 10 0.5122   0°Ω   direct   4428 Jul 10 18:29   8°95604   8°95604   8°95704   4428 Jul 10 18:29   8°95605   8°95604   4428 Jul 10 18:29   8°95605   8°95604   4428 Jul 10 18:29   8°95605   8°95604   4428 Jul 27 09:17   14°9540′21   22°50′05   4427 Mug 27 10:48   19°Ω5950   0°№    asc. node   4428 Aug 13 07:50   0°Ω   0°Ω   0°Ω   4427 Sug 15 13:27   25°8034′12   morning set   4428 Aug 13 07:50   0°Ω   0°Ω   0°№    asc. node   4428 Aug 13 07:50   0°Ω   0°Ω   0°№    asc. node   4428 Aug 13 07:50   0°Ω   0°Ω   0°№    asc. node   4428 Aug 18 22:15   20°Ω26′22   20°Ω26′22   20°Ω26′22   4427 Sug 16 04:29   29°847′29   1.35376 AU   minimum elong   4428 Aug 25 02:41   5°8926′45   1°3901   4427 Sug 16 04:29   29°847′29   1.35376 AU   minimum elong   4428 Aug 25 22:41   5°8926′45   1°3901   4427 Sug 16 07:00   0°Ω   4428 Sug 25 22:41   5°893745   1°3901   4427 Sug 16 07:00   0°Ω   4428 Sug 25 22:41   5°893745   1°3901   4427 Sug 16 07:00   0°Ω   4428 Sug 25 22:41   5°893745   1°3901   4427 Sug 16 07:00   0°Ω   4428 Sug 18 10°25   2°204 Sug 19 00°25   2°204 Sug 19 00°	minimum ciong			1 12 30				
Marcet   4427 Aug 04 00.31   28°\$2700   morning rise   4428 Jul 10 18.59   8°\$25004   morning max el   4427 Aug 10 05.22   0°\$\mathcal{L}\$   0°\$\mathcal	morning rise							
March   Ma	•							0.54055710
morning max el   4427 Aug   15   13.27   3° Ω4933   21° 12′ 12′ 12′ 12′ 12′ 12′ 13′ 14′ 14′ 14′ 14′ 13′ 13′ 13′ 13′ 13′ 13′ 13′ 13′ 13′ 13	direct	-			•			
asc. node	morning may al	=		2101200				22°50'05
morning set 4427 Sep 01 17:50 0°™ asc. node 4428 Aug 13 07:50 9°£08'38   4427 Sep 04 11:22 5°™034'12   4428 Aug 18 22:15 20°£026'22   4428 Aug 18 22:15 20°£026'22   4428 Aug 23 09:43 0°™    superior conj 4427 Sep 11 19:54 20°™55'05 1°43'51   4428 Aug 23 09:43 0°™   4428 Aug 23 09:43 0°™    minimum elong 4427 Sep 11 19:37 20°™55'05 1°43'51   superior conj   4428 Aug 26 00:08 5°™34'25 1°39'07    max. Earth dist. 4427 Sep 16 07:00 0°£   max. Earth dist. 4428 Aug 25 22:41 5°™926'45 1°39'01    evening rise 4427 Sep 16 07:00 0°£   max. Earth dist. 4428 Aug 28 23:08 11°™49'11 1.339'10 AU    evening max el 4427 Cet 03 03:03 0°™   desc. node   4428 Sep 02 19:03 21°™37'36    evening max el 4427 Cet 25 19:24 29°™48'26 26°33'08   evening max el 4428 Sep 19 02:25 20°£00'90'0    evening set 4427 Nov 17 17:34 7°×30'239   evening max el 4428 Sep 19 02:25 20°£00'90'0    evening set 4427 Nov 18 07:35 4°%24'9   evening max el 4428 Sep 10 02:25 20°£00'90'0    evening set 4427 Nov 18 07:35 4°%24'9   evening max el 4428 Sep 10 2:25 20°£00'90'0    evening set 4427 Nov 18 07:28 0°×11'26 0.66192 AU   minimum elong 4428 Nov 12 17:14 120°™37'0    minimum elong 4427 Nov 20 00:24 28°™102'52 1°08'42   minimum elong 4428 Nov 09 02:48 6°™21'17    asc. node 4427 Nov 20 00:24 28°™102'52 1°08'42   morning rise 4428 Nov 10 17:57 5°™164'5    morning max el 4427 Nov 20 00:34 28°™102'52 1°08'42   morning max el 4428 Nov 10 17:57 5°™164'5    morning max el 4427 Nov 20 00:38 12°E0'25'108'42   morning max el 4428 Nov 10 17:57 5°™164'5    morning max el 4427 Nov 20 00:38 12°E0'25'108'42   morning max el 4428 Nov 10 17:57 5°™164'5    morning max el 4427 Nov 20 00:38 12°E0'25'108'42   morning max el 4428 Nov 10 17:57 5°™164'5    morning max el 4427 Nov 20 00:38 12°E0'47'10   direct 4428 Nov 10 17:57 5°™164'5    morning max el 4427 Nov 20 00:38 12°E0'47'10   direct 4428 Nov 10 17:57 5°™164'5    morning set 4427 Nov 20 00:38 12°E0'47'10   direct 4428 Nov 10 17:57 5°™164'5    morning set 4428 Nov 20 00:38 12°E0'47'10   direct 4428 Nov 10 17:57 5°™164'5    m	•	_		21 12 09	morning max ci			22 30 03
moming set 4427 Sep 04 11:22 5° №34'12 moming set 4428 Aug 18 22:15 20° №26'22 4428 Aug 23 09:43 0° № superior conj 4427 Sep 11 19:37 20° №5'05 1° 43'50 superior conj 4428 Aug 23 09:43 0° № superior conj 4427 Sep 16 04:29 29° №47'29 1.35376 AU minimum elong 4428 Aug 26 00:08 5° №34'25 1°39'01 4428 Aug 26 00:08 5° №34'25 1°39'01 4428 Aug 28 20:08 1° № №6'45 1° 39'01 4428 Aug 28 20:08 1° 30' № №6'**  retrograde 4427 Nov 18 10:28 0° № № № № № № № № № № № № № № № № № №	asc. node	•			asc node	•		
Superior conj   M427 Sep   11   19:54   20° \$\mathbb{n}\$ 505   1°43'50   1°42'5   19:370   1.39'07   1.3	morning set	-				=		
## superior conj   4427 Sep   11   19:54   20° ₱ 5635   1°43′50   superior conj minimum elong   4427 Sep   11   19:37   20° ₱ 5705   1°43′51   superior conj   4428 Aug   26   00:08   5° ₱ 34′25   1°39′07      max. Earth dist.	morning set	4427 Sep 04 11.22	J 11473412		morning set	•		
minimum elong max. Earth dist.  4427 Sep 16 04:29  29° M4729  1.35376 AU  minimum elong max. Earth dist.  4428 Aug 25 22:41  5° M26'45  13901  1.3901	superior coni	4427 Sep. 11 19:54	20°m 56'35	1°43'50		1420 Aug 25 07.45	עווי ∨	
max. Earth dist.         4427 Sep 16 07:00   0°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°					superior coni	4428 Aug 26 00:08	5° m 34'25	1°39'07
Max. Earth dist.   4428 Aug. 28 23:08   11° m/49°11   1.33910 AU evening rise   4427 Sep. 20 09:00   7° £ 5429	-					•	-	
evening rise	max. Earth dist.	-		1.55576710	_		•	
desc. node   4427 Oct 03 05:23   0°IL1124   desc. node   4428 Sep 07 04:13   0°\(\overline{\Omega}\)   O°\(\overline{\Omega}\)   O°\(\O	evening rise	1						1.55710710
evening max el 4427 Oct 25 19:24 29°R.48'26 26°33'08 evening max el 4428 Sep 19 02:25 22:10 0°R.  retrograde 4427 Nov 07 17:34 7°\$\sigma*02'39 retrograde evening max el 4428 Oct 20 17:41 20°R.3700 evening set 4427 Nov 18 11:20 30°R. minimum elong 4427 Nov 18 11:20 30°R. line inferior conj 4427 Nov 20 02:4 28°R.02'52 1°08'42 morning rise 4427 Nov 21 00:24 28°R.02'52 1°08'42 morning max el 4428 Nov 09 07:04 6°R.16'45 morning max el 4427 Nov 28 22:53 21°R.35'34 morning max el 4428 Nov 09 07:04 6°R.16'45 morning max el 4427 Nov 28 22:53 21°R.35'34 morning max el 4427 Dec 09 15:25 0°\$\sigma* morning set 4427 Dec 29 01:41 0°\$\sigma* morning set 4428 Nov 09 01:41 10°\$\sigma* morning set 4427 Dec 29 01:41 0°\$\sigma* morning set 4428 Nov 09 13:55 10°\$\sigma* morning set 4427 Dec 29 01:41 0°\$\sigma* morning set 4428 Nov 09 01:41 10°\$\sigma* morning set 4428 Nov 09 01:42 10°\sigma* morning set 4428 Nov 09 01:42 10°\sigma* morning set 4428 Nov 09 01:42 10°\sigma* morning max el 4427 Dec 29 01:41 0°\$\sigma* morning max el 4428 Nov 09 01:42 10°\sigma* morning set 4427 Dec 29 01:41 0°\$\sigma* morning max el 4428 Nov 09 01:41 0°\$\sigma* morning set 4428 Nov 09 01:42 10°\sigma* morning set 4428 Nov 09 01:41 0°\$\sigma* morning set 4428 Nov 09 01:42 10°\sigma* morning max el 4428 Nov 09 01:42 10°\sigma* 10	•	1			evening rise	•		
evening max el 4427 Oct 25 19:24 29° M-48'26 26°33'08 evening max el 4428 Sep 25 22:10 0° M- 4427 Oct 26 00:13 0° X evening max el 4428 Oct 20 17:41 20° M-37'00 evening set 4427 Nov 14 05:05 4° X-24'49 evening set 4428 Oct 20 17:41 20° M-37'00 4427 Nov 18 11:20 30° RM evening set 4428 Oct 21 15:54 17° M-56'20 4427 Nov 18 07:28 0° X 11'26 0.66192 AU inferior conj 4428 Nov 02 17:04 11° M-52'33 -2°11'18 inferior conj 4427 Nov 20 00:24 28° M-08'37 -1°09'31 minimum elong 4428 Nov 02 20:48 11° M-24'14 2°09'50 minimum elong 4427 Nov 20 00:24 28° M-02'52 1°08'42 morning rise 4428 Nov 09 07:04 6° M-16'45 asc. node 4427 Nov 28 20:53 21° M-35'34 morning max el 4427 Nov 28 22:53 21° M-35'34 morning max el 4427 Nov 28 22:53 21° M-35'34 morning max el 4427 Dec 09 15:25 5° M-12'23 18°30'00 4428 Nov 09 07:04 5° X-35'15 1 morning set 4427 Dec 29 01:41 0° S desc. node 4428 Dec 19 19:19 22:34 28° X-41'35 -0°26'30 minimum elong 4428 Jan 10 13:56 19° S 10'34 1°12'05 max. Earth dist. 4428 Dec 19 19:19 28° X-28'35 1.4500 Ku max. Earth dist. 4428 Jan 11 02:12 20° S 2'16 1.4528 AU evening rise 4429 Jan 09 00:23 0° ≈	dese. Hode				desc node	•		
evening set 4427 Nov 07 17:34 7° ₹02'39 retrograde 4428 Nov 07 17:34 7° ₹02'39 retrograde 4428 Nov 07 17:34 7° ₹02'39 retrograde 4428 Nov 02 17:41 20° € € € € € € € € € € € € € € € € € € €	evening may el			26°33'08	desc. node	*		
retrograde	evening max er			20 33 00	evening may el	•		27°13'34
evening set 4427 Nov 14 05:05 4°\$\times 24'49\$   evening set 4428 Oct 27 15:54 17°\$\times 56'20\$   evening set 4427 Nov 18 11:20 30°\$\times \times \	retrograde				•			27 13 34
min. Earth dist.	•				•			
min. Earth dist.	evening see				•			0.64886 AU
minimum elong	min Farth dist			0.66192 ATT				
minimum elong 4427 Nov 20 02:19 28° 11.02′52 1° 08′42 morning rise 4428 Nov 09 02:48 6° 11.21′27 asc. node 4427 Nov 23 10:02 24° 11.22′24 asc. node 4428 Nov 09 07:04 6° 11.6′45 morning rise 4427 Nov 26 00:16 22° 11.24′10 direct 4428 Nov 11 17:57 5° 11.44′59 direct 4427 Nov 28 22:53 21° 11.35′34 morning max el 4427 Dec 05 13:52 25° 11.22′3 18° 30′00 4428 Dec 02 10:39 0° 🗷 11.52 18° 01′14 morning set 4427 Dec 05 13:52 25° 11.22′3 18° 30′00 morning set 4428 Dec 05 23:08 5° 11.55′15 desc. node 4428 Dec 05 23:08 5° 11.51′15 desc. node 4428 Dec 16 01:40 22° 11.52′3 24° 11.52′4 Nov 28 22° 11.53′4 desc. node 4428 Dec 16 01:40 22° 11.52′4 Nov 28 22° 11.53′4 Nov 28 22° 11.55′4 Nov 28 22° 21.55′4					-			
asc. node 4427 Nov 23 10:02 24°M22'24 asc. node 4428 Nov 09 07:04 6°M16'45 morning rise 4427 Nov 26 00:16 22°M24'10 direct 4428 Nov 11 17:57 5°M44'59 direct 4427 Nov 28 22:53 21°M35'34 morning max el 4428 Nov 18 05:26 9°M11'52 18°01'14 morning max el 4427 Dec 05 13:52 25°M12'23 18°30'00 4428 Dec 02 10:39 0°₹ morning set 4427 Dec 09 15:25 0°₹ morning set 4428 Dec 05 23:08 5°₹51'51 morning set 4427 Dec 25 17:23 24°₹40'09 desc. node 4428 Dec 16 01:40 22°₹28'37 desc. node 4427 Dec 29 01:41 0°Ѣ superior conj 4428 Dec 19 22:34 28°₹41'35 -0°26'30 minimum elong 4428 Dec 19 19:19 28°₹28'35 0°26'02 superior conj 4428 Jan 10 13:56 19°₲44'11 -1°13'05 max. Earth dist. 4428 Dec 23 21:30 4°₲57'55 1.45005 AU max. Earth dist. 4428 Jan 10 05:21 20°₲32'16 1.45284 AU evening rise 4429 Jan 09 00:23 0°≈					_			2 07 30
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Superior conj   4427 Dec 30 04:38   1°ਰ47'03   Superior conj   Mark Bor 19 22:34   28° 🗷 41'35   -0°26'30     Superior conj   4428 Jan 10 13:56   19°ਰ44'11 -1°13'05   Mark Earth dist.   4428 Dec 19 19:19   28° 🗷 28'35   0°26'02     Superior conj   4428 Jan 10 05:22   19°ਰ10'34   1°12'05   Mark Earth dist.   4428 Dec 20 18:15   0°σ   1.45005 AU     Mark Earth dist.   4428 Jan 11 02:12   20°σ 32'16   1.45284 AU   evening rise   4429 Jan 05 05:31   24°σ 10'20     Mark Earth dist.   4428 Jan 17 03:00   0°≈   4428 Jan 09 00:23   0°≈   4429 Jan 09 00:23   0°≈   4428 Jan 17 03:00   0°≈   4428 Jan 17 03:00   0°≈   4428 Jan 09 00:23   0°≈   4429 Jan 09 00:23   0°≈   4428 Jan 09 00:23   0°≈	morning set				uesc. noue	+420 DCC 10 U1:40	22 × 283/	
minimum elong 4428 Dec 19 19:19 28° ₹28'35 0°26'02 superior conj 4428 Jan 10 13:56 19° 544'11 -1°13'05 4428 Dec 20 18:15 0°5 minimum elong 4428 Jan 10 05:22 19° 510'34 1°12'05 max. Earth dist. 4428 Dec 23 21:30 4°557'55 1.45005 AU max. Earth dist. 4428 Jan 11 02:12 20° 532'16 1.45284 AU evening rise 4429 Jan 05 05:31 24° 510'20 4428 Jan 17 03:00 0°≈ 4428 Jan 09 00:23 0°≈	desc nodo				superior con-	4428 Dag 10 22:24	200.7/11/25	0.56130
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4428 Jan 17 03:00 0°≈ 4429 Jan 09 00:23 0°≈	_							1.45005 AU
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evening rise 4428 Jan 26 11:41 14 <sup>∞</sup> 45'42 greatest brilliancy 4429 Jan 19 04:29 15 <sup>∞</sup> 24'58 -0.6m								0.6
	evening rise	4428 Jan 26 11:41	14****45*42		greatest brilliancy	4429 Jan 19 04:29	15***24'58	-u.om

	4429 Jan 30 00:21	0° <b>)</b> €		evening rise	4429 Dec 15 15:18	3° <b>る</b> 22'02	
evening max el	4429 Jan 31 01:52		19°52'50	evening rise	4430 Jan 02 12:37	0°≈	
asc. node	4429 Feb 05 06:23	5° <b>₩</b> 01'12	17 52 50	evening max el	4430 Jan 14 02:06	14° <b>≈</b> 41'31	20°57'51
retrograde	4429 Feb 07 14:37	5° <b>)</b> (30'39		retrograde	4430 Jan 22 12:43	19° <b>≈</b> 41'09	20 37 31
evening set	4429 Feb 11 06:49	4° <b>)</b> €11'45		asc. node	4430 Jan 23 03:24	19° <b>≈</b> 39'07	
evening sec	4429 Feb 15 07:52	30°R≈		evening set	4430 Jan 26 14:16	18° <b>≈</b> 07'19	
inferior conj	4429 Feb 16 16:53	28°≈11'30	3°07'36	inferior conj	4430 Jan 31 22:38	11°≈55'09	2°37'28
minimum elong	4429 Feb 16 14:42	28°≈18'46	3°07'10	minimum elong	4430 Jan 31 20:10	12°≈03'37	2°36'48
min. Earth dist.	4429 Feb 17 16:20	26°≈53'13	0.67017 AU	min. Earth dist.	4430 Feb 01 09:00	11°≈19'23	0.67720 AU
morning rise	4429 Feb 21 22:22	20 ≈57'23	0.07017 AC	morning rise	4430 Feb 06 01:54	5°≈42'07	0.07720 AC
direct	4429 Feb 27 21:26	19°≈17'35		direct	4430 Feb 11 10:40	3°≈20'19	
morning max el	4429 Mar 11 20:21	26°≈25'59	25°16'15	morning max el	4430 Feb 22 05:02		23°48'59
desc. node	4429 Mar 14 00:54	20 ≈25 39 28°≈45'04	23 10 13	desc. node	4430 Feb 28 21:56	17°≈25'48	23 40 39
desc. Hode	4429 Mar 15 03:35	28 <b>≈</b> 43 04 0° <b>)</b> €		desc. node	4430 Mar 10 04:52	0° <b>\</b>	
	4429 Mai 15 03.33 4429 Apr 05 14:38	0° <b>Υ</b>			4430 Mar 29 07:54	0° <b>Υ</b>	
marning act		0 <b>γ</b> 19° <b>Υ</b> 24'01		morning sat	4430 Mar 29 16:39	0° <b>Υ</b> 37'22	
morning set	4429 Apr 17 01:03	26° <b>Υ</b> 08'01	1.36461 AU	morning set max. Earth dist.		7° <b>Υ</b> 19'16	1.38560 AU
max. Earth dist.	4429 Apr 20 17:03		1.30401 AU	max. Earth dist.	4430 Apr 02 12:59	/* 11916	1.38300 AU
	4429 Apr 22 18:07	0° <b>8</b>			4420 4 00 21 01	20° <b>Ƴ</b> 45'11	1027112
	4420 A 26 20:02	7° <b>8</b> 56'37	1910122	superior conj	4430 Apr 09 21:01	20° <b>Y</b> 45°11 21° <b>Y</b> 07'53	
superior conj	4429 Apr 26 20:03	. •		minimum elong	4430 Apr 10 01:49		1°36'38
minimum elong	4429 Apr 26 23:51	8° <b>8</b> 15'28	1°09′54		4430 Apr 14 16:32	0° <b>8</b>	
asc. node	4429 May 04 05:40	22° <b>8</b> 52'37		evening rise	4430 Apr 18 22:52	8° <b>8</b> 20'14	
evening rise	4429 May 05 01:24	24° <b>8</b> 32'24		asc. node	4430 Apr 21 02:44	12° <b>8</b> 32'13	
	4429 May 07 18:59	0°II			4430 May 01 06:27	0°II	
evening max el	4429 May 22 09:44	22° <b>Ⅱ</b> 46'07	19°43'30	evening max el	4430 May 05 07:52	4° <b>Ⅱ</b> 49'04	18°51'10
retrograde	4429 Jun 01 06:48	27° <b>I</b> I35'02		retrograde	4430 May 13 15:49	8° <b>Ⅱ</b> 53'58	
evening set	4429 Jun 03 05:29	27° <b>Ⅱ</b> 24'40		evening set	4430 May 15 18:46	8° <b>Ⅱ</b> 39'04	
desc. node	4429 Jun 10 00:10	24° <b>Ⅱ</b> 36'36		inferior conj	4430 May 23 19:01	4° <b>Ⅱ</b> 20'18	1°10'00
inferior conj	4429 Jun 12 01:08	23° <b>Ⅱ</b> 22'08		minimum elong	4430 May 23 21:34	4° <b>Ⅱ</b> 15'41	1°09'08
minimum elong	4429 Jun 11 23:29	23° <b>Ⅱ</b> 24'43	0°35'47	min. Earth dist.	4430 May 26 23:38	2° <b>Ⅱ</b> 02'58	0.57003 AU
min. Earth dist.	4429 Jun 14 07:28	21° <b>Ⅱ</b> 57'57	0.55508 AU	desc. node	4430 May 27 21:11	1° <b>Ⅱ</b> 26'40	
morning rise	4429 Jun 20 15:13	18° <b>Ⅱ</b> 52'26			4430 May 30 07:07	30° <b>₹</b> 8	
direct	4429 Jun 25 01:30	18° <b>Ⅱ</b> 09'00		morning rise	4430 May 31 21:07	29° <b>8</b> 14'28	
morning max el	4429 Jul 08 23:26	25° <b>Ⅱ</b> 05'00	24°33'37	direct	4430 Jun 06 06:23	28° <b>8</b> 04'29	
	4429 Jul 13 13:16	$0$ $\circ$			4430 Jun 13 07:12	$\Pi$ $^{\circ}0$	
asc. node	4429 Jul 31 04:54	28° <b>©</b> 40'50		morning max el	4430 Jun 20 14:29	5° <b>Ⅲ</b> 32′09	26°07'20
	4429 Jul 31 20:30	$0 {\circ} \Omega$			4430 Jul 08 11:14	$0$ $\circ$ $\odot$	
morning set	4429 Aug 03 10:02	5° <b>Ω</b> 20'09		asc. node	4430 Jul 18 01:58	18° <b>©</b> 29'53	
				morning set	4430 Jul 18 21:08	20°9510'40	
superior conj	4429 Aug 10 08:53	20° <b>Ω</b> 24'03			4430 Jul 23 10:09	$0$ $\circ$ $\Omega$	
minimum elong	4429 Aug 10 06:46	20° <b>Ω</b> 12'29	1°28'25				
max. Earth dist.	4429 Aug 12 02:22	24° <b>Ω</b> 09'03	1.32854 AU	superior conj	4430 Jul 25 20:05	5° <b>Ω</b> 18'55	1°13'19
	4429 Aug 14 20:05	0° <b>m</b>		minimum elong	4430 Jul 25 17:45	5° <b>Ω</b> 06'06	1°12'56
evening rise	4429 Aug 17 15:29	5° Mp 49'32		max. Earth dist.	4430 Jul 26 11:30	6° <b>Ω</b> 43'46	1.32213 AU
	4429 Aug 30 18:27	0∘ <b>ত</b>		evening rise	4430 Aug 01 19:11	20° <b>£</b> 21′22	
desc. node	4429 Sep 05 23:28	9° <b>≏</b> 36'46			4430 Aug 06 13:56	0° <b>m</b> y	
evening max el	4429 Sep 19 18:52	26° <b>≏</b> 26'11	27°26'48	desc. node	4430 Aug 23 20:30	28° <b>m</b> 21'22	
	4429 Sep 24 00:41	0° <b>M</b>			4430 Aug 25 02:34	0∘ <b>ত</b>	
retrograde	4429 Oct 03 11:21	3°M42'02		evening max el	4430 Sep 02 01:16	8° <b>≏</b> 55'56	27°07'57
evening set	4429 Oct 10 15:33	1°ML07'54		retrograde	4430 Sep 15 21:52	16° <b>≏</b> 08'27	
	4429 Oct 12 02:43	30° <b>₹</b> Ω		evening set	4430 Sep 23 00:09	13° <b>≏</b> 52'51	
min. Earth dist.	4429 Oct 14 07:16	28° <b>ഫ</b> 01'38	0.63240 AU	min. Earth dist.	4430 Sep 26 15:38	11° <b>≏</b> 09'54	0.61314 AU
inferior conj	4429 Oct 17 00:07	25° <b>≏</b> 21'19	-3°13'05	inferior conj	4430 Sep 29 18:23	8° <b>≏</b> 26'43	-4°10'11
minimum elong	4429 Oct 17 05:30	25° <b>≏</b> 07'59	3°11'16	minimum elong	4430 Sep 30 00:28	8° <b>₤</b> 13'22	4°08'39
morning rise	4429 Oct 23 20:56	20° <b>≏</b> 07'08		morning rise	4430 Oct 07 02:40	3° <b>≏</b> 32'55	
direct	4429 Oct 26 07:11	19° <b>≏</b> 39'10		direct	4430 Oct 09 10:52	3° <b>₽</b> 10′24	
asc. node	4429 Oct 27 04:06	19° <b>≙</b> 42'51		asc. node	4430 Oct 14 01:09	4° <b>≙</b> 40'49	
morning max el	4429 Nov 01 22:09	23° <b>≏</b> 04'40	17°50'03	morning max el	4430 Oct 16 12:50	6° <b>≏</b> 42'55	17°57'19
	4429 Nov 07 08:54	0°M			4430 Oct 31 11:06	0° <b>M</b> ₊	
morning set	4429 Nov 18 06:03	18°M16'26		morning set	4430 Nov 01 07:30	1°MJ33'30	
	4429 Nov 25 00:28	0°⊀					
				superior conj	4430 Nov 11 15:00	20°M08'49	0°55'42
superior conj	4429 Nov 30 05:27	8° <b>∡</b> ¹46′13	0°18'56	minimum elong	4430 Nov 11 19:00	20°M26'18	0°55'10
minimum elong	4429 Nov 30 07:22	8° <b>∡</b> 754'11	0°18'39		4430 Nov 17 09:19	0° <b>∡</b> ¹	
desc. node	4429 Dec 02 22:43	13° <b>∡</b> 14'58		max. Earth dist.	4430 Nov 19 04:08	2° <b>∡</b> ¹57'54	1.42442 AU
max. Earth dist.	4429 Dec 06 15:11	19° <b>∡</b> 13'01	1.44016 AU	desc. node	4430 Nov 19 19:45	4° <b>∡</b> °02'16	
	4429 Dec 13 11:07	8°0		evening rise	4430 Nov 25 08:53	12° <b>∡</b> 58'57	

	4430 Dec 06 11:48	0°ಕ			4431 Nov 30 10:05	8°0	
evening max el	4430 Dec 27 20:54	28° <b>ප</b> 15'54	22°12'46	evening max el	4431 Dec 10 11:44	11°₹53'43	23°32'31
evening max or	4430 Dec 29 16:24	0°≈	22 12 10	retrograde	4431 Dec 21 03:12	18° <b>る</b> 11'10	23 32 31
retrograde	4431 Jan 06 09:23	3°≈55'48		evening set	4431 Dec 26 04:11	16° <b>る</b> 05'55	
asc. node	4431 Jan 10 00:25	2°≈45'57		asc. node	4431 Dec 27 21:26	14° <b>る</b> 24'52	
evening set	4431 Jan 10 21:55	2°≈06'19		min. Earth dist.	4431 Dec 31 01:44	14 <b>3</b> 2432	0.67970 AU
evening set	4431 Jan 13 00:39	30°Rる		inferior conj	4431 Dec 31 14:04	9° <b>ප්</b> 40'41	1°13'29
inferior conj	4431 Jan 16 06:18	25° <b>る</b> 45'38	1°59'01	minimum elong	4431 Dec 31 12:28		1°12'51
minimum elong	4431 Jan 16 04:03	25° <b>ප්</b> 53'30	1°58'15	morning rise	4432 Jan 05 20:42	3°₹34'25	1 1231
min. Earth dist.	4431 Jan 16 04:56	25° <b>る</b> 50'26	0.68029 AU	direct	4432 Jan 10 00:33	1°る57'24	
morning rise	4431 Jan 21 10:03	23 <b>ප</b> 3020	0.08029 AU	morning max el	4432 Jan 18 08:48	6°る46'40	20°58'26
direct	4431 Jan 26 04:00	19 <b>3</b> 3503		desc. node	4432 Feb 02 16:01	6 ප්රෙජ්ර 26°ප්37'57	20 36 20
morning max el	4431 Feb 04 16:03	17 <b>3</b> 33 20 23° <b>る</b> 11'01	2202010	desc. Hode	4432 Feb 02 10:01 4432 Feb 04 23:13	20 <b>⊙</b> 3737	
morning max er		23 <b>⊘</b> 1101 0° <b>≈</b>	22 20 19	marning sat		0 ∞ 19°≈08'26	
4 4-	4431 Feb 10 15:08	0 ≈ 6°≈47'07		morning set	4432 Feb 17 13:15	19 ≈08 20 0° <b>)</b> (	
desc. node	4431 Feb 15 18:58	0° <b>∺</b>		Fauth 4:-4	4432 Feb 24 09:05		1 42725 ATT
	4431 Mar 03 14:02			max. Earth dist.	4432 Feb 25 12:37	1 π 31 48	1.42725 AU
morning set	4431 Mar 10 04:40	10° <b>)</b> (30′31	1 40742 477		4422.14 02 12 52	1201/25100	2005156
max. Earth dist.	4431 Mar 15 09:38	19° <b>)</b> €08'11	1.40743 AU	superior conj	4432 Mar 03 13:52	13° <b>)</b> ₹35'09	
	4431 Mar 21 16:21	$0^{\circ}$ Y		minimum elong	4432 Mar 03 14:42	13° <b>)</b> (38′41	2°07'56
		• •			4432 Mar 12 23:52	0° <b>Υ</b>	
superior conj	4431 Mar 23 04:35	2° <b>Y</b> 41′27		evening rise	4432 Mar 15 06:19	4° <b>Y</b> 03′17	
minimum elong	4431 Mar 23 08:48	3° <b>Y</b> ′00′23	1°57'40	asc. node	4432 Mar 24 20:46	20° <b>Y</b> 46′12	
evening rise	4431 Apr 02 09:49	21° <b>Y</b> 33'22			4432 Mar 31 14:54	0°B	
	4431 Apr 06 22:56	$8^{\circ 0}$		evening max el	4432 Apr 01 01:26	0° <b>8</b> 26'41	18°06'54
asc. node	4431 Apr 07 23:45	1° <b>8</b> 52'07		retrograde	4432 Apr 07 15:55	3° <b>8</b> 49'43	
evening max el	4431 Apr 18 14:14	17° <b>8</b> 25'24	18°19'10	evening set	4432 Apr 10 08:06	3° <b>8</b> 16'24	
retrograde	4431 Apr 25 19:42	21° <b>8</b> 01'24			4432 Apr 15 01:58	30° <b>ŖƳ</b>	
evening set	4431 Apr 28 05:21	20° <b>8</b> 38'29		inferior conj	4432 Apr 16 21:21	28° <b>Ƴ</b> 17'13	3°12'12
inferior conj	4431 May 05 10:24	15° <b>8</b> 59'45	2°26'31	minimum elong	4432 Apr 16 23:54	28° <b>Ƴ</b> 11′00	3°11'48
minimum elong	4431 May 05 14:00	15° <b>8</b> 52'08	2°25'36	min. Earth dist.	4432 Apr 20 01:09	25° <b>Y</b> 13'36	0.61223 AU
min. Earth dist.	4431 May 08 20:52	13° <b>8</b> 06'50	0.59023 AU	morning rise	4432 Apr 23 13:44	22° <b>Ƴ</b> 21'27	
morning rise	4431 May 12 19:44	10° <b>8</b> 23'34		direct	4432 Apr 30 07:45	20° <b>Ƴ</b> 03'36	
desc. node	4431 May 14 18:12	9° <b>8</b> 28'50		desc. node	4432 Apr 30 15:13	20° <b>Ƴ</b> 03'53	
direct	4431 May 19 01:19	8° <b>8</b> 38'51		morning max el	4432 May 14 13:09	28° <b>Ƴ</b> 01'04	27°49'29
morning max el	4431 Jun 02 10:43	16° <b>8</b> 26'30	27°15'58		4432 May 16 11:01	0°8	
C	4431 Jun 13 13:31	$\Pi^{\circ}0$			4432 Jun 06 07:39	$\Pi^{\circ}0$	
	4431 Jun 30 21:07	0ಂತಾ		morning set	4432 Jun 16 10:22	19° <b>Ⅱ</b> 18'25	
morning set	4431 Jul 03 05:53	4° <b>©</b> 52'15		asc. node	4432 Jun 20 20:03	28° <b>∏</b> 35'52	
asc. node	4431 Jul 04 23:02	8° <b>©</b> 29'57			4432 Jun 21 11:37	0°ಅ	
				max. Earth dist.	4432 Jun 22 08:58		1.32163 AU
superior conj	4431 Jul 10 07:54	20° <b>©</b> 12'52	0°53'41				
minimum elong	4431 Jul 10 05:50	20°901'31	0°53'17	superior conj	4432 Jun 23 18:34	4° <b>©</b> 59'34	0°30'22
max. Earth dist.	4431 Jul 09 22:57	19° <b>©</b> 23'30	1.31978 AU	minimum elong	4432 Jun 23 17:13	4°952'14	
max. Darm dist.	4431 Jul 14 18:46	0° <b>Ω</b>	1.51770110	evening rise	4432 Jun 30 14:41	19° <b>9</b> 53'42	0 30 03
evening rise	4431 Jul 17 03:37	5° <b>Ω</b> 05'10		evening noe	4432 Jul 05 12:36	0°N	
evening rise	4431 Jul 30 07:11	0° mp			4432 Jul 25 03:12	0° mp	
desc. node	4431 Aug 10 17:30	16° <b>m</b> ) 05'49		evening max el	4432 Jul 26 17:29	1° mp 35'59	24°56'07
evening max el	4431 Aug 15 00:59	20° m 39'26	26°16'04	desc. node	4432 Jul 27 14:31	2° m) 25'02	2.3007
retrograde	4431 Aug 29 00:17	27° Mp 48'36	20 1001	retrograde	4432 Aug 09 15:58	8° Mp 38'46	
evening set	4431 Sep 04 12:58	26° Mp 04'04		evening set	4432 Aug 15 01:43	7° mp 32'25	
min. Earth dist.	4431 Sep 04 12:38 4431 Sep 08 14:04	23° m) 29'07	0.59241 AU	min. Earth dist.	4432 Aug 13 01:43 4432 Aug 20 05:00	-•	0.57265 AU
inferior conj	4431 Sep 11 20:24	21°Mp00'02		inferior conj	4432 Aug 23 02:59	2°My51'12	
minimum elong	4431 Sep 11 20:24 4431 Sep 12 01:05	20° m 51'04		minimum elong	4432 Aug 23 02:39 4432 Aug 23 03:08	2° my 50'57	
•	4431 Sep 12 01:03 4431 Sep 19 15:25	16° Mp 28'51	4 33 34	minimum ciong	4432 Aug 27 20:27	2 11/3037 30°RΩ	3 13 30
morning rise	•				Č		
direct	4431 Sep 22 00:47	16° Mp 09'08	10024110	morning rise	4432 Aug 31 06:57	28° <b>Ω</b> 42'02	
morning max el	4431 Sep 29 22:13	19° Mp 58'10	18°24'19	direct	4432 Sep 02 20:51	28° <b>Ω</b> 22'57	
asc. node	4431 Sep 30 22:13	20° m 59'11			4432 Sep 08 11:24	0°Mp 2°m-20117	10012124
	4431 Oct 07 10:30	0∘ <b>⊽</b>		morning max el	4432 Sep 11 22:48	2° Mp 39'17	19-12-54
morning set	4431 Oct 15 22:06	15° <b>Ω</b> 28'05		asc. node	4432 Sep 16 19:16	8° Mp 21'47	
	4431 Oct 23 13:26	0°M		morning set	4432 Sep 28 21:47	29° m/48'12	
		20m 2	1001/22		4432 Sep 29 00:09	0∘ <b>⊽</b>	
superior conj	4431 Oct 24 23:49		1°21'33		4400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 60 - 0 :::	1005:05
minimum elong	4431 Oct 25 03:27	2°M56'10	1°21'10	superior conj	4432 Oct 07 02:22		1°37'02
max. Earth dist.	4431 Nov 01 11:34	16°M00'48	1.40485 AU	minimum elong	4432 Oct 07 04:34	16° <b>Ω</b> 12'14	1°36'54
evening rise	4431 Nov 05 22:20	23°M31'18		max. Earth dist.	4432 Oct 13 16:11	28° <b>Ω</b> 23'04	1.38392 AU
desc. node	4431 Nov 06 16:47	24° <b>M</b> 47'21			4432 Oct 14 13:37	0° <b>™</b>	
	4431 Nov 09 22:00	0° <b>∡</b> 7		evening rise	4432 Oct 17 10:59	5°M07'03	

desc. node	4432 Oct 23 13:48	15°M25'51		max. Earth dist.	4433 Sep 25 22:53	10° <b>≙</b> 19'59	1.36402 AU
	4432 Nov 01 23:00	0° <b>∡</b> ¹		evening rise	4433 Sep 29 20:33	17° <b>≏</b> 40'21	
evening max el	4432 Nov 22 00:37	25° <b>₹</b> 35′25	24°50'42		4433 Oct 06 20:51	0°M₊	
	4432 Nov 27 06:19	8°0		desc. node	4433 Oct 10 10:49	5°M53'14	
retrograde	4432 Dec 03 16:54	2° <b>る</b> 22'34			4433 Oct 27 06:08	0° <b>∡</b>	
evening set	4432 Dec 09 07:27	0° <b>る</b> 02'20		evening max el	4433 Nov 04 13:09	9° <b>∡</b> 18'26	26°00'03
	4432 Dec 09 08:33	30°R. <b>✓</b>		retrograde	4433 Nov 17 01:43	16° <b>≯</b> 25′08	
asc. node	4432 Dec 13 18:28	25° <b>∡</b> 101'41		evening set	4433 Nov 23 06:01	13° <b>∡</b> 52′21	
min. Earth dist.	4432 Dec 13 21:01	24° <b>⋠</b> 753′20	0.67559 AU	min. Earth dist.	4433 Nov 27 12:21	9° <b>∡</b> 18'37	0.66799 AU
inferior conj	4432 Dec 14 20:08	23° <b>҂</b> ³37′00	0°21'48	inferior conj	4433 Nov 28 22:37	7° <b>∡</b> ³31'37	-0°34'59
minimum elong	4432 Dec 14 19:35	23° <b>∡</b> ³38'47	0°21'34	minimum elong	4433 Nov 28 23:33	7° <b>∡</b> ¹28'42	0°34'35
morning rise	4432 Dec 20 07:52	17° <b>∡</b> ³37'14		asc. node	4433 Nov 30 15:31	5° <b>∡</b> ¹26'54	
direct	4432 Dec 23 22:57	16° <b>∡</b> ¹21'27		morning rise	4433 Dec 04 17:32	1° <b>∡</b> ¹40'53	
morning max el	4432 Dec 31 09:22	20° <b>∡</b> ³33'27	19°48'46	direct	4433 Dec 07 21:38	0° <b>∡</b> ¹43'22	
	4433 Jan 08 02:01	o°ප		morning max el	4433 Dec 14 17:29	4° <b>∡</b> ¹29'31	18°54'05
greatest brilliancy	4433 Jan 13 16:50	8°පි04'08	-0.6m		4434 Jan 01 18:25	0°ප	
desc. node	4433 Jan 19 13:02	16° <b>පි</b> 49'48		morning set	4434 Jan 05 18:04	6° <b>ප</b> 14'02	
morning set	4433 Jan 26 09:18	27° <b>る</b> 18'24		desc. node	4434 Jan 06 10:03	7° <b>る</b> 16'37	
	4433 Jan 28 03:07	0° <b>≈</b>		max. Earth dist.	4434 Jan 20 16:24	29° <b>る</b> 37'06	1.45116 AU
max. Earth dist.	4433 Feb 06 23:33	15° <b>≈</b> 26'58	1.44242 AU		4434 Jan 20 22:13	0° <b>≈</b>	
superior conj	4433 Feb 11 21:30	23° <b>≈</b> 20'15	-2°01'42	superior conj	4434 Jan 22 06:57	2°≈08'43	-1°35'50
minimum elong	4433 Feb 11 16:21	22°≈59'21		minimum elong	4434 Jan 21 21:41	1°≈32'14	
minimum clong	4433 Feb 15 23:25	0° <del>)(</del>	2 01 20	evening rise	4434 Feb 06 10:59	26°≈22'19	1 5457
evening rise	4433 Feb 25 07:56	15° <b>)</b> (41'31		evening rise	4434 Feb 08 16:38	0° <b>∀</b>	
evening rise	4433 Mar 05 19:09	0° <b>Υ</b>		asc. node	4434 Feb 26 14:48	26° <b>)</b> (41'35	
asc. node	4433 Mar 11 17:47	9° <b>Υ</b> 06'23		evening max el	4434 Feb 27 01:58	27° <b>)</b> 10'37	18°38'56
evening max el	4433 Mar 15 14:19	13° <b>Y</b> 44'27	18°13'45	evening max er	4434 Mar 02 15:47	27 <b>χ</b> 1037	18 38 30
retrograde	4433 Mar 22 00:18	13 <b>γ</b> 44 27 17° <b>Υ</b> 09'10	16 13 43	retrograde	4434 Mar 05 16:31	0° <b>Υ</b> 49'53	
•	4433 Mar 24 22:32	16° <b>Υ</b> 24'08		•	4434 Mar 08 20:56	29° <b>H</b> 52'22	
evening set	4433 Mar 30 23:56	$10^{\circ}$ $72408$ $11^{\circ}$ $\Upsilon 05'23$	3°32'38	evening set	4434 Mar 08 15:38	29 ₹32 22 30°R <b></b> ₩	
inferior conj	4433 Mar 31 00:47	11° <b>Υ</b> 0323	3°32'34	inferior conj	4434 Mar 14 14:07	24° <del>)(</del> 15'39	2022152
minimum elong min. Earth dist.		8° <b>Υ</b> 14'39	0.63299 AU	minimum elong	4434 Mar 14 14:07	24 <del>X</del> 13 39 24° <del>X</del> 17'46	
	4433 Apr 02 14:15	6 1 14 39 4°Υ58'43	0.03299 AU	min. Earth dist.	4434 Mar 16 12:49	24 <del>X</del> 1746 21° <del>X</del> 54'30	0.65061 AU
morning rise direct	4433 Apr 06 02:00 4433 Apr 12 23:07	2° <b>Υ</b> 18'01			4434 Mar 20 05:23	18°\(\frac{1}{3430}\)	0.03001 AU
direct desc. node		2 γ 1801 3° <b>Υ</b> 19'05		morning rise direct	4434 Mar 26 21:44	15° <del>X</del> 13'30	
morning max el	4433 Apr 17 12:14		27°45'23	direct desc. node	4434 Mai 26 21.44 4434 Apr 04 09:16	18° <b>)</b> (43'59	
morning max ei	4433 Apr 26 20:32		21-45-25		1		27007107
	4433 May 12 07:09	0°B 8°0		morning max el	4434 Apr 09 06:24	23° <b>米</b> 03'34 0° <b>⋎</b>	27°07'06
	4433 May 29 15:27				4434 Apr 15 10:08		
morning set	4433 May 31 08:23	3° <b>Ⅱ</b> 22'34	1 22705 ATT	. ,	4434 May 05 14:17	0°8	
max. Earth dist.	4433 Jun 05 13:47	14° <b>Ⅱ</b> 09'43	1.32785 AU	morning set	4434 May 14 21:00	16° <b>8</b> 55'17	1 22050 444
asc. node	4433 Jun 07 17:05	18° <b>Ⅱ</b> 43'44		max. Earth dist.	4434 May 19 09:41 4434 May 21 09:28	25° <b>႘</b> 54'35 0° <b>Ⅱ</b>	1.33859 AU
superior conj	4433 Jun 08 02:20	19° <b>Ⅲ</b> 33'34	0°04'03		·		
minimum elong	4433 Jun 08 02:08	19° <b>Ⅲ</b> 32'29	0°04'00	superior conj	4434 May 23 05:06	3° <b>Ⅱ</b> 47'42	-0°24'29
behind sun begin	4433 Jun 07 21:00	19° <b>Ⅱ</b> 04'48		minimum elong	4434 May 23 06:23	3° <b>∏</b> 54'26	0°24'13
behind sun end	4433 Jun 08 07:16	20° <b>Ⅲ</b> 00′12		asc. node	4434 May 25 14:06	8° <b>Ⅱ</b> 48'58	
	4433 Jun 12 22:03	0ಂಣ		evening rise	4434 May 30 13:11	19° <b>Ⅱ</b> 19'56	
evening rise	4433 Jun 15 02:31	4°9340'57		Č	4434 Jun 04 19:43	0°ಅ	
•	4433 Jun 28 16:33	$0^{\circ}\Omega$		evening max el	4434 Jun 19 23:05	22° <b>©</b> 29'32	21°45'07
evening max el	4433 Jul 08 06:19	12° <b>Ω</b> 02'14	23°20'27	desc. node	4434 Jul 01 08:32	28° <b>©</b> 37'22	
desc. node	4433 Jul 14 11:30	16° <b>Ω</b> 46'59		retrograde	4434 Jul 02 10:52	28° <b>©</b> 40'11	
retrograde	4433 Jul 21 18:50	18° <b>Ω</b> 48'11		evening set	4434 Jul 05 01:12	28°524'58	
evening set	4433 Jul 25 16:42	18° <b>Ω</b> 14'45		inferior conj	4434 Jul 14 09:36	24°9522'51	-3°37'12
min. Earth dist.	4433 Aug 01 15:51	15° <b>Ω</b> 03'03	0.55709 AU	minimum elong	4434 Jul 14 00:59	24°534'53	3°34'45
inferior conj	4433 Aug 03 13:34	13° <b>£</b> 55'50		min. Earth dist.	4434 Jul 14 02:05	24°533'21	0.54884 AU
minimum elong	4433 Aug 03 07:31	14° <b>Ω</b> 04'45		morning rise	4434 Jul 23 02:07	20°930'57	
morning rise	4433 Aug 12 00:43	10° <b>Ω</b> 02'46		direct	4434 Jul 26 09:00	20°507'20	
direct	4433 Aug 14 21:56	9° <b>Ω</b> 42'34		morning max el	4434 Aug 07 13:28	25°950'31	21°52'28
morning max el	4433 Aug 25 12:00	14° <b>Ω</b> 37'35	20°22'41		4434 Aug 11 11:06	0°Ω	
asc. node	4433 Sep 03 16:19	26° <b>Ω</b> 34'28	<b></b> ·•	asc. node	4434 Aug 21 13:22	15° <b>Ω</b> 25'09	
200. 11040	4433 Sep 05 16:27	0° m		morning set	4434 Aug 28 13:05	29° <b>Ω</b> 13'37	
morning set	4433 Sep 13 03:32	14° Mp 25'36		morning set	4434 Aug 28 21:57	0° m	
<i>C</i> .	-	,			-	•	
superior conj	4433 Sep 20 17:49	0° <b>ჲ</b> 01'40	1°43'33	superior conj	4434 Sep 04 18:15	14° <b>m</b> 28'09	1°42'36
minimum elong	4433 Sep 20 18:22	0° <b>Ω</b> 04'29	1°43'34	minimum elong	4434 Sep 04 17:26	14° Tp 23'48	1°42'34
	4433 Sep 20 17:29	0∘ <b>⊽</b>		max. Earth dist.	4434 Sep 08 12:23	22° Mp 13'50	1.34700 AU

	4434 Sep 12 10:18	0∘ <b>ত</b>		superior conj	4435 Aug 20 00:40	29° <b>Ω</b> 11'35	1°35'20
evening rise	4434 Sep 12 22:50	1° <b>⊆</b> 00'34		minimum elong	4435 Aug 19 22:53	29° <b>Ω</b> 01'58	
desc. node	4434 Sep 27 07:51	26° <b>£</b> 03'51			4435 Aug 20 09:40	0° m/	
	4434 Sep 29 21:21	0°M		max. Earth dist.	4435 Aug 22 10:37	-	1.33399 AU
evening max el	4434 Oct 18 01:47	22°M55'57	26°53'12	evening rise	4435 Aug 27 13:40	14° m 56'29	
C	4434 Oct 29 05:34	0° <b>∡</b> ¹		C	4435 Sep 04 13:01	0∘ <b>⊽</b>	
retrograde	4434 Oct 31 05:13	0° <b>∡</b> 12'34		desc. node	4435 Sep 14 04:53	15° <b>£</b> 49'49	
	4434 Nov 02 03:16	30°RM			4435 Sep 24 16:57	$0^{\circ}$ M	
evening set	4434 Nov 06 21:53	27°M32'15		evening max el	4435 Sep 30 13:39	6°M17'07	27°22'55
min. Earth dist.	4434 Nov 10 21:29	23°MJ34'19	0.65681 AU	retrograde	4435 Oct 14 02:54	13°M35'35	
inferior conj	4434 Nov 12 19:33	21°M20'55	-1°35'30	evening set	4435 Oct 21 04:24	10°M56'02	
minimum elong	4434 Nov 12 22:14	21°M13'08	1°34'23	min. Earth dist.	4435 Oct 24 22:17	7°M32'14	0.64216 AU
asc. node	4434 Nov 17 12:34	16°M36'50		inferior conj	4435 Oct 27 08:28	4°M58'52	-2°37'47
morning rise	4434 Nov 18 23:28	15°M42'04		minimum elong	4435 Oct 27 12:58	4°M47'00	2°36'05
direct	4434 Nov 21 18:38	14°M59'05			4435 Nov 02 02:09	30° <b>₹</b> Ω	
morning max el	4434 Nov 28 07:14	18°MJ30'17	18°15'45	morning rise	4435 Nov 02 22:50	29° <b>£</b> 34'50	
	4434 Dec 06 22:36	0° <b>∡</b>		asc. node	4435 Nov 04 09:38	29° <b>Ω</b> 08'28	
morning set	4434 Dec 17 07:02	16° <b>∡</b> 36'21		direct	4435 Nov 05 11:27	29° <b>Ω</b> 02'33	
desc. node	4434 Dec 24 07:05	27° <b>₹</b> 54'14			4435 Nov 08 20:23	0°M	1505400
	4434 Dec 25 14:34	0°ප		morning max el	4435 Nov 11 23:44	2°M28'01	17°54'22
	4425 1 01 00 55	10° <b>ප</b> 47'01	0052154	morning set	4435 Nov 29 00:16	28°M21'12	
superior conj	4435 Jan 01 09:55	10°る47'01		daga mada	4435 Nov 29 23:31	0°×7 100.720111	
minimum elong max. Earth dist.	4435 Jan 01 03:14 4435 Jan 03 11:48	10° <b>ろ</b> 2041 14° <b>ろ</b> 03'01	0°53'01 1.45256 AU	desc. node	4435 Dec 11 04:08	18° <b>≯</b> 38'11	
max. Earm dist.	4435 Jan 13 16:35	0°≈	1.43230 AU	superior conj	4435 Dec 12 02:47	20° <b>х</b> 10′03	0°06'34
evening rise	4435 Jan 17 15:28	6°≈10'30		minimum elong	4435 Dec 12 02:47 4435 Dec 12 02:01	20° <b>₹</b> 10° 05′ 20° <b>₹</b> 10° 157′ 20° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1	
greatest brilliancy	4435 Jan 29 04:12	24°≈04'38	-0.7m	behind sun begin	4435 Dec 11 16:40	19° 🖈 29'02	0 00 20
greatest orimancy	4435 Feb 02 03:15	0° <b>\</b>	-0.7111	behind sun end	4435 Dec 12 11:23	20° <b>×</b> <sup>7</sup> 44'50	
evening max el	4435 Feb 10 10:16	10° <b>)</b> (41'23	19°21'18	max. Earth dist.	4435 Dec 17 06:19	28° <b>×</b> 1130	1.44660 AU
asc. node	4435 Feb 13 11:51	13° <b>)</b> 19'37	19 21 10	man. Barur dist.	4435 Dec 18 06:25	0°る	1.1.000110
retrograde	4435 Feb 17 13:06	14° <b>)</b> (45'54		evening rise	4435 Dec 28 04:00	15° <b>පි</b> 24'44	
evening set	4435 Feb 21 00:33	13° <b>)</b> 35′10		<i>8</i> 23	4436 Jan 06 18:12	0° <b>≈</b>	
inferior conj	4435 Feb 26 12:30	7° <b>)</b> 42'41	3°20'33	evening max el	4436 Jan 24 13:38	24°≈13'49	20°18'57
minimum elong	4435 Feb 26 10:43	7° <b>)</b> 48′28	3°20'18	asc. node	4436 Jan 31 08:54	28° <b>≈</b> 45'21	
min. Earth dist.	4435 Feb 27 20:04	6° <b>)</b> 00′15	0.66423 AU	retrograde	4436 Feb 01 11:16	28° <b>≈</b> 51'53	
morning rise	4435 Mar 03 20:36	1° <b>)</b> 28′26		evening set	4436 Feb 05 07:08	27° <b>≈</b> 26'56	
	4435 Mar 05 19:05	30° <b>R</b> ≈		inferior conj	4436 Feb 10 16:15	21° <b>≈</b> 21'12	2°55'55
direct	4435 Mar 10 02:52	28° <b>≈</b> 41'52		minimum elong	4436 Feb 10 13:53	21° <b>≈</b> 29'12	2°55'23
	4435 Mar 14 21:02	0° <b>∀</b>		min. Earth dist.	4436 Feb 11 10:01	20° <b>≈</b> 20'52	0.67368 AU
desc. node	4435 Mar 22 06:18	5° <b>)</b> 45′23		morning rise	4436 Feb 15 20:25	15° <b>≈</b> 07'05	
morning max el	4435 Mar 22 16:18		26°01'59	direct	4436 Feb 21 13:32	12° <b>≈</b> 34′02	
	4435 Apr 10 01:55	$0$ ° $\mathbf{\Upsilon}$		morning max el	4436 Mar 04 00:59	19° <b>≈</b> 25'54	24°39'45
morning set	4435 Apr 27 20:22	29° <b>Ƴ</b> 45'46		desc. node	4436 Mar 08 03:20	23° <b>≈</b> 55'34	
	4435 Apr 27 23:27	0°8			4436 Mar 13 00:39	0° <b>∀</b>	
max. Earth dist.	4435 May 01 18:07	7° <b>8</b> 09'09	1.35391 AU		4436 Apr 02 05:10	$0^{\circ}\mathbf{\Upsilon}$	
				morning set	4436 Apr 09 01:20	11° <b>Ƴ</b> 39'24	
superior conj	4435 May 07 00:27	17° <b>8</b> 35'29		max. Earth dist.	4436 Apr 12 16:21		1.37324 AU
minimum elong	4435 May 07 03:23	17° <b>8</b> 50'19	0°53'22		4436 Apr 18 23:14	$9^{\circ}$ 8	
asc. node	4435 May 12 11:09	28° <b>8</b> 47'43			4426 4 10 00 15	00 10124	1000100
avanina -i	4435 May 13 01:07 4435 May 14 20:41	0°Ⅱ 3°Ⅱ44'34		superior conj minimum elong	4436 Apr 19 09:15	0° <b>と</b> 48'34 1° <b>と</b> 09'42	
evening rise	4435 May 14 20:41 4435 May 29 23:47	3°Щ4434 0°©		evening rise	4436 Apr 19 13:36 4436 Apr 27 22:36	17° <b>8</b> 47'51	1-21-42
evening max el	4435 Jun 02 02:40	0 € 3°©27'54	20°22'36	asc. node	4436 Apr 28 08:12	18° <b>8</b> 35'40	
retrograde	4435 Jun 13 00:14	8°947'27	20 22 30	asc. Houc	4436 May 04 06:39	0° <b>Ⅱ</b>	
evening set	4435 Jun 14 23:43	8°937'39		evening max el	4436 May 14 18:42	15° <b>Ⅱ</b> 08'33	19°18'48
desc. node	4435 Jun 18 05:33	7°942'56		retrograde	4436 May 23 23:00	19° <b>Ⅱ</b> 36'54	17 10 40
inferior conj	4435 Jun 24 03:54	4°939'42	-1°45'20	evening set	4436 May 25 22:45	19° <b>Ⅱ</b> 25'13	
minimum elong	4435 Jun 23 22:57	4°946'56	1°43'33	inferior conj	4436 Jun 03 10:34	15° <b>I</b> I17'05	0°11'45
min. Earth dist.	4435 Jun 25 14:08	3°549'41	0.55001 AU	minimum elong	4436 Jun 03 11:04	15° <b>I</b> I16'16	0°11'34
morning rise	4435 Jul 02 21:04	0°927'57		transit middle	4436 Jun 03 11:04	15° <b>Ⅱ</b> 16'16	
<i>3</i>	4435 Jul 05 06:07	30°RⅡ		transit begin	4436 Jun 03 08:24	15° <b>Ⅲ</b> 20'40	-
direct	4435 Jul 06 19:07	29° <b>Ⅲ</b> 54'45		transit end	4436 Jun 03 13:43	15° <b>Ⅱ</b> 11'52	
	4435 Jul 08 07:54	0°ಅ		desc. node	4436 Jun 04 02:34	14° <b>Ⅱ</b> 50'36	
morning max el	4435 Jul 20 06:16	6°\$27'25	23°34'26	min. Earth dist.	4436 Jun 06 04:42	13° <b>Ⅱ</b> 28′29	0.56054 AU
	4435 Aug 05 22:45	$0^{\circ}\Omega$		morning rise	4436 Jun 11 20:23	10° <b>Ⅲ</b> 31'44	
asc. node	4435 Aug 08 10:24	4° <b>Ω</b> 44'21		direct	4436 Jun 16 16:26	9° <b>Ⅱ</b> 38′07	
morning set	4435 Aug 13 00:30	14° <b>Ω</b> 06'34		morning max el	4436 Jun 30 20:06	16° <b>Ⅲ</b> 50′01	25°15'39

	4426 1 1 11 12 57	000			4427 1 12 12 45	270	26040110
	4436 Jul 11 13:57	0°©		morning max el	4437 Jun 12 12:45	27° <b>8</b> 25'22	26°40'19
asc. node	4436 Jul 25 07:28	24° <b>©</b> 24'32			4437 Jun 15 00:34	0°Щ	
morning set	4436 Jul 27 12:11	28°959'40			4437 Jul 05 01:00	0.20	
	4436 Jul 27 23:32	$0^{\circ}\Omega$		morning set	4437 Jul 11 22:28	13° <b>©</b> 46'46	
				asc. node	4437 Jul 12 04:30	14° <b>©</b> 18'38	
superior conj	4436 Aug 03 10:43	14° <b>Ω</b> 04'39	1°22'43				
minimum elong	4436 Aug 03 08:27	13° <b>Ω</b> 52'14	1°22'25	superior conj	4437 Jul 18 22:22	28° <b>©</b> 59'40	1°05'28
max. Earth dist.	4436 Aug 04 16:35	16° <b>Ω</b> 47'53	1.32525 AU	minimum elong	4437 Jul 18 20:06	28° <b>5</b> 47'08	1°05'05
evening rise	4436 Aug 10 13:33	29° <b>Ω</b> 18'22		max. Earth dist.	4437 Jul 19 03:12	29° <b>©</b> 26'19	1.32066 AU
	4436 Aug 10 21:39	0° <b>m</b>			4437 Jul 19 09:18	$0^{\circ}\Omega$	
	4436 Aug 27 15:48	0∘ <b>ত</b>		evening rise	4437 Jul 25 19:33	13° <b>Ω</b> 56′18	
desc. node	4436 Aug 31 01:55	5° <b>£</b> 00'57		-	4437 Aug 02 22:44	0° <b>m</b> )	
evening max el	4436 Sep 11 23:00	19° <b>ഫ</b> 10'12	27°23'01	desc. node	4437 Aug 17 22:55	23° Mp 22'11	
retrograde	4436 Sep 25 17:54	26° <b>£</b> 25'08			4437 Aug 23 17:44	0∘ <u>⊽</u>	
evening set	4436 Oct 02 22:13	23° <b>⊆</b> 57'30		evening max el	4437 Aug 25 03:02	0 <b>—</b> 1° <b>Ω</b> 21'37	26°49'53
min. Earth dist.	4436 Oct 06 13:05	21° <b>⊆</b> 02'19	0.62442 AU	retrograde	4437 Sep 08 00:54	8° <b>£</b> 31'52	20 47 33
inferior conj	4436 Oct 09 10:31	18° <b>⊆</b> 18'57		evening set	4437 Sep 14 22:55	6° <b>£</b> 28′28	
				•	•		0.60441.411
minimum elong	4436 Oct 09 16:22	18° <b>Ω</b> 05'08	3°36'31	min. Earth dist.	4437 Sep 18 17:07	3° <b>Ω</b> 50'52	0.60441 AU
morning rise	4436 Oct 16 12:12	13° <b>£</b> 12'54		inferior conj	4437 Sep 21 22:16	1° <b>Ω</b> 11'46	
direct	4436 Oct 18 21:05	12° <b>≏</b> 47'41		minimum elong	4437 Sep 22 04:06	0° <b>£</b> 59'42	4°30'00
asc. node	4436 Oct 21 06:40	13° <b>≏</b> 14'18			4437 Sep 23 09:31	30°Ŗ <b>₯</b>	
morning max el	4436 Oct 25 15:57	16° <b>≏</b> 15'33	17°50'46	morning rise	4437 Sep 29 11:14	26° Mp 27′01	
	4436 Nov 04 07:38	$0^{\circ}$ M.		direct	4437 Oct 01 19:35	26°₩05'53	
morning set	4436 Nov 10 15:48	11°ML10'10		asc. node	4437 Oct 08 03:42	28° Mp47′39	
	4436 Nov 21 09:47	0° <b>∡</b> ¹		morning max el	4437 Oct 09 04:40	29° <b>m</b> 44'19	18°06'15
					4437 Oct 09 11:01	0∘ <b>⊽</b>	
superior conj	4436 Nov 21 21:02	0° <b>∡</b> ¹47'43	0°35'48	morning set	4437 Oct 24 23:25	24° <b>≏</b> 44'40	
minimum elong	4436 Nov 22 00:13	1° <b>₹</b> '01'13	0°35'20		4437 Oct 27 18:54	0°M	
desc. node	4436 Nov 27 01:11	9° <b>∡</b> ¹25'13					
max. Earth dist.	4436 Nov 28 21:47	12° <b>∡</b> ¹26'59	1.43409 AU	superior conj	4437 Nov 03 17:01	12°M40'18	1°08'00
evening rise	4436 Dec 06 15:11	24° <b>×</b> <sup>7</sup> 42'22	1.15 107 110	minimum elong	4437 Nov 03 21:05	12°M58'27	1°07'30
evening rise	4436 Dec 10 01:35	0°중		max. Earth dist.	4437 Nov 11 08:40	25°M56'03	1.41647 AU
		0°≈				23 1103003 0° <b>√</b> 11'47	1.41047 AU
	4436 Dec 30 20:50		21020140	desc. node	4437 Nov 13 22:13		
evening max el	4437 Jan 06 11:34	7°≈47'46	21°28'48		4437 Nov 13 19:21	0° <b>₹</b>	
retrograde	4437 Jan 15 08:52	13°≈04'14		evening rise	4437 Nov 16 16:15	4° <b>∡</b> ¹40'23	
asc. node	4437 Jan 17 05:56	12° <b>≈</b> 45'12			4437 Dec 03 08:50	0°ಕ	
evening set	4437 Jan 19 14:51	11° <b>≈</b> 24'01		evening max el	4437 Dec 20 04:34	21° <b>る</b> 23'53	22°46'31
inferior conj	4437 Jan 24 23:03	5° <b>≈</b> 08'02	2°22'06	retrograde	4437 Dec 30 04:21	27° <b>る</b> 19'44	
minimum elong	4437 Jan 24 20:37	5° <b>≈</b> 16′27	2°21'22	evening set	4438 Jan 03 22:06	25° <b>る</b> 23'27	
min. Earth dist.	4437 Jan 25 04:24	4° <b>≈</b> 49'32	0.67903 AU	asc. node	4438 Jan 04 02:56	25° <b>る</b> 13'11	
	4437 Jan 28 23:45	30°₽₹		inferior conj	4438 Jan 09 06:58	19° <b>る</b> 00'35	1°40'32
morning rise	4437 Jan 30 02:12	28° <b>る</b> 55'46		minimum elong	4438 Jan 09 04:56	19° <b>る</b> 07'39	1°39'47
direct	4437 Feb 04 04:46	26° <b>පි</b> 42'46		min. Earth dist.	4438 Jan 09 00:52	19° <b>ට</b> 21'41	0.68050 AU
	4437 Feb 11 09:18	0° <b>≈</b>		morning rise	4438 Jan 14 11:40	12° <b>る</b> 51'51	
morning max el	4437 Feb 14 10:00	2°≈46'46	23°10'46	direct	4438 Jan 18 23:36	11° <b>る</b> 01'43	
desc. node	4437 Feb 23 00:23	12°≈55'06		morning max el	4438 Jan 27 23:02	16° <b>ප</b> 16'15	21°44'21
acco. noac	4437 Mar 07 03:05	0° <b>)</b> €		morning must vi	4438 Feb 08 02:18	0° <b>≈</b>	
morning set	4437 Mar 21 05:44	22° <b>)</b> 19'41		desc. node	4438 Feb 09 21:25	2° <b>≈</b> 30'14	
max. Earth dist.	4437 Mar 25 11:24	29° <b>)</b> 32'34	1.39498 AU	dese. Hode	4438 Feb 28 04:41	0° <b>∀</b>	
max. Lartii dist.	4437 Mar 25 17:44	25 <b>γ</b> (32 34	1.57476 AC	morning set	4438 Mar 01 05:29	1° <b>)</b> 38'37	
	443 / Iviai 23 17.44	0 1		· ·			1 41/21 411
	4427 4 02 02 20	1200016142	1047100	max. Earth dist.	4438 Mar 07 10:58	11° <del>X</del> 4/00	1.41631 AU
superior conj	4437 Apr 02 03:28	13° <b>Y</b> 16'42					
minimum elong	4437 Apr 02 08:18	13° <b>Y</b> 38′59	1°46'31	superior conj	4438 Mar 15 02:15	24° <b>)</b> 48'27	
	4437 Apr 10 23:01	$_{0\circ}$ 8		minimum elong	4438 Mar 15 05:26	25° <b>)</b> €02'24	2°03'41
evening rise	4437 Apr 11 16:02	1° <b>8</b> 21'51			4438 Mar 18 00:44	$0$ ° $\Upsilon$	
asc. node	4437 Apr 15 05:14	8° <b>8</b> 07'29		evening rise	4438 Mar 25 21:26	14° <b>Ƴ</b> 18′25	
evening max el	4437 Apr 27 20:50	27° <b>8</b> 27'14	18°35'07	asc. node	4438 Apr 02 02:16	27° <b>Ƴ</b> 17'39	
	4437 May 01 03:26	$\Pi^{\circ}0$			4438 Apr 03 16:45	0°8	
retrograde	4437 May 05 15:48	1° <b>Ⅱ</b> 17′22		evening max el	4438 Apr 11 05:43	10° <b>8</b> 15'42	18°11'29
evening set	4437 May 07 21:44	0° <b>Ⅱ</b> 59'18		retrograde	4438 Apr 18 03:19	13° <b>8</b> 44'18	
Č	4437 May 10 10:12	30° <b>₹</b> 8		evening set	4438 Apr 20 15:54	13° <b>8</b> 17'04	
inferior conj	4437 May 15 13:32	26° <b>8</b> 32'21	1°46'26	inferior conj	4438 Apr 27 13:42	8° <b>8</b> 29'12	2°49'23
minimum elong	4437 May 15 16:53	26° <b>8</b> 25'52	1°45'24	minimum elong	4438 Apr 27 17:01	8° <b>8</b> 21'44	2°48'39
min. Earth dist.	4437 May 18 10.33	20 <b>8</b> 23 32	0.57823 AU	min. Earth dist.	4438 Apr 30 22:21	5° <b>8</b> 28'59	0.59961 AU
desc. node	4437 May 18 22.37 4437 May 21 23:35	23 <b>8</b> 56'37	0.57025 AU		4438 May 04 15:41	2° <b>8</b> 43'33	0.57701 AU
	•			morning rise	•		
morning rise	4437 May 23 08:50	21° <b>8</b> 12'48		desc. node	4438 May 08 20:36	0° <b>8</b> 59'06	
direct	4437 May 29 03:45	19° <b>8</b> 48'21		direct	4438 May 11 03:36	0° <b>8</b> 44'21	

morning max el	4438 May 25 11:42	8° <b>8</b> 36'19	27°34'50		4439 May 15 21:03	0° <b>႘</b>	
morning max ci	4438 Jun 10 19:31	0°Ⅱ	27 34 30		4439 Jun 03 19:14	0°II	
morning set	4438 Jun 26 05:38	28° <b>I</b> I22'31		morning set	4439 Jun 10 07:43	12° <b>∏</b> 40′32	
morning sec	4438 Jun 27 00:17	0°9		asc. node	4439 Jun 15 22:35	24° <b>I</b> I28'56	
asc. node	4438 Jun 29 01:32	4°521'38		max. Earth dist.	4439 Jun 15 23:07	24° <b>Ⅱ</b> 31′50	1.32375 AU
max. Earth dist.	4438 Jul 02 14:42	12°905'18	1.32015 AU				
				superior conj	4439 Jun 17 19:34	28° <b>Ⅲ</b> 32'53	0°19'31
superior conj	4438 Jul 03 09:54	13° <b>©</b> 50'57	0°44'12	minimum elong	4439 Jun 17 18:40	28° <b>Ⅱ</b> 27'59	0°19'20
minimum elong	4438 Jul 03 08:05	13° <b>5</b> 641'00	0°43'50	-	4439 Jun 18 11:32	$0$ $\circ$ $\odot$	
evening rise	4438 Jul 10 05:22	28° <b>5</b> 42'53		evening rise	4439 Jun 24 17:00	13° <b>©</b> 31'33	
	4438 Jul 10 19:55	$0^{\circ}\Omega$			4439 Jul 02 23:23	$0^{\circ}\Omega$	
	4438 Jul 27 11:40	O° Mp		evening max el	4439 Jul 19 13:28	23° <b>Ω</b> 23′36	24°16'17
desc. node	4438 Aug 04 19:54	10° Mp 33′27		desc. node	4439 Jul 22 16:54	26° <b>Ω</b> 07'15	
evening max el	4438 Aug 06 23:29	12°Mp43'41	25°44'45		4439 Jul 30 07:13	0° <b>m</b>	
retrograde	4438 Aug 20 22:34	19° <b>m</b> 50'14		retrograde	4439 Aug 02 09:21	0° <b>™</b> 21'55	
evening set	4438 Aug 27 01:43	18° Mp 21'30			4439 Aug 05 12:05	$30^\circ$ R $\Omega$	
min. Earth dist.	4438 Aug 31 11:36	15° <b>m</b> 44'34	0.58379 AU	evening set	4439 Aug 07 04:22	29° <b>Ω</b> 30'47	
inferior conj	4438 Sep 03 16:14	13° <b>m</b> 27'31		min. Earth dist.	4439 Aug 13 00:13	26° <b>Ω</b> 35'48	0.56530 AU
minimum elong	4438 Sep 03 19:23	13° <b>m</b> 21'51	5°06'21	inferior conj	4439 Aug 15 14:07	24° <b>Ω</b> 58'54	
morning rise	4438 Sep 11 15:20	9° <b>110</b> 06'08		minimum elong	4439 Aug 15 11:36	25° <b>Ω</b> 02'52	5°09'44
direct	4438 Sep 14 02:27	8° Mp 46'47		morning rise	4439 Aug 23 21:25	20° <b>Ω</b> 58'14	
morning max el	4438 Sep 22 10:37	12° Mp 45'32	18°42'13	direct	4439 Aug 26 14:03	20° <b>Ω</b> 38'59	
asc. node	4438 Sep 25 00:45	15° <b>m</b> 34'42		morning max el	4439 Sep 05 06:44	25° <b>Ω</b> 10'12	19°39'51
	4438 Oct 04 03:07	0∘ <b>ʊ</b>			4439 Sep 09 13:13	0° <b>m</b>	
morning set	4438 Oct 08 18:15	8° <b>≏</b> 50'55		asc. node	4439 Sep 11 21:48	3° m 20'32	
	4420.0 . 17 10.00	250 0 2422	1020110	morning set	4439 Sep 22 20:52	23° m 19'37	
superior conj	4438 Oct 17 10:00	25° <b>Ω</b> 34'22	1°29'19		4439 Sep 26 03:59	0∘ <b>⊽</b>	
minimum elong	4438 Oct 17 13:05		1°29'03		4420 G 20 10 20	00.01.510.4	1040140
To all the	4438 Oct 19 18:58	0°M,	1 20505 ATT	superior conj	4439 Sep 30 18:39		1°40'48
max. Earth dist.	4438 Oct 24 14:45	8°M41'45 15°M38'47	1.39595 AU	minimum elong	4439 Sep 30 20:09	9° <b>£</b> 22'25	1°40'45
evening rise desc. node	4438 Oct 28 15:27 4438 Oct 31 19:13	20°M54'10		max. Earth dist. evening rise	4439 Oct 06 19:20 4439 Oct 10 13:30	20° <b>£</b> 49'55 27° <b>£</b> 40'35	1.37512 AU
desc. Hode	4438 Nov 06 12:00	20 11€34 10 0° <b>√</b>		evening rise	4439 Oct 10 13:30 4439 Oct 11 21:02	27 <b>=</b> 40 33	
	4438 Nov 28 03:01	0° <b>ਠ</b>		desc. node	4439 Oct 11 21:02 4439 Oct 18 16:14	11°M28'46	
evening max el	4438 Dec 02 18:12	5° <b>る</b> 02'40	24°06'24	uese. Houe	4439 Oct 30 22:08	0°×7	
retrograde	4438 Dec 13 20:28	11° <b>る</b> 33'53	24 00 24	evening max el	4439 Nov 15 06:37	18° <b>х</b> 45'04	25°21'41
evening set	4438 Dec 19 03:16	9° <b>ප</b> 21'46		retrograde	4439 Nov 27 08:22	25° <b>х</b> 42'40	23 21 41
asc. node	4438 Dec 21 23:58	6° <b>る</b> 20'30		evening set	4439 Dec 03 04:48	23°×16'26	
min. Earth dist.	4438 Dec 23 21:11	3° <b>る</b> 53'23	0.67835 AU	min. Earth dist.	4439 Dec 07 15:06	18° 🖈 22'21	0.67274 AU
inferior conj	4438 Dec 24 14:11	2° <b>る</b> 55'57	0°52'15	inferior conj	4439 Dec 08 18:58	16° <b>≯</b> 52'13	
minimum elong	4438 Dec 24 12:59	3° <b>⋜</b> 00'01	0°51'45	minimum elong	4439 Dec 08 19:01	16° <b>≯</b> 52'05	0°01'43
	4438 Dec 26 20:07	30°₽ <b>✓</b>		transit middle	4439 Dec 08 19:01	16° <b>₹</b> 52'05	0°01'43
morning rise	4438 Dec 29 22:44	26° <b>₹</b> 52'27		transit begin	4439 Dec 08 16:14	17° <b>₹</b> '01'04	
direct	4439 Jan 02 20:56	25° <b>₹</b> ¹24'56		transit end	4439 Dec 08 21:47	16° <b>х</b> 43′06	
	4439 Jan 10 20:22	<b>万</b> °0		asc. node	4439 Dec 08 21:00	16° <b>∡</b> ⁴45'39	
morning max el	4439 Jan 10 19:06	29° <b>∡</b> ¹56'49	20°27'13	morning rise	4439 Dec 14 09:31	10° <b>₹</b> 56′02	
desc. node	4439 Jan 27 18:26	22° <b>る</b> 30'31		direct	4439 Dec 17 19:36	9° <b>∡</b> ¹48'37	
	4439 Feb 01 18:18	0° <b>≈</b>		morning max el	4439 Dec 24 23:07	13° <b>∡</b> ⁴48'37	19°23'35
morning set	4439 Feb 08 05:56	9° <b>≈</b> 56'15			4440 Jan 06 05:10	0°ಕ	
max. Earth dist.	4439 Feb 17 17:44	24° <b>≈</b> 55′03	1.43436 AU	greatest brilliancy	4440 Jan 07 05:28	1° <b>る</b> 30'50	-0.7m
	4439 Feb 20 20:54	0° <b>∀</b>		desc. node	4440 Jan 14 15:29	12° <b>る</b> 49'24	
				morning set	4440 Jan 18 04:22	18° <b>る</b> 17'05	
superior conj	4439 Feb 24 00:42	5° <b>)</b> 12′21			4440 Jan 25 17:12	0° <b>≈</b>	
minimum elong	4439 Feb 23 23:10	5° <b>∺</b> 05'58	2°07'33	max. Earth dist.	4440 Jan 31 07:01	8° <b>≈</b> 45′27	1.44695 AU
evening rise	4439 Mar 08 10:26	26° <b>)</b> €27'26					
	4439 Mar 10 10:56	0°Υ		superior conj	4440 Feb 03 21:46	14°≈29'46	
asc. node	4439 Mar 19 23:17	15°Υ58'26	10007127	minimum elong	4440 Feb 03 14:14	13°≈59'43	1°52'37
evening max el	4439 Mar 25 17:55	23°Y24'26	18°07'27	<del>:</del>	4440 Feb 13 11:26	0° <b>)</b> {	
retrograde	4439 Apr 01 05:27	26° <b>Y</b> 46'55		evening rise	4440 Feb 18 02:46	7° <b>)</b> 41′16 0° <b>Υ</b>	
evening set	4439 Apr 04 00:08	26°Υ08'50	2022122	000 m-J-	4440 Mar 02 21:24		
inferior conj	4439 Apr 10 07:51	21° <b>Υ</b> 00'58 20° <b>Υ</b> 56'12	3°23'33	asc. node	4440 Mar 05 20:18	4° <b>Υ</b> 00'55 6° <b>Υ</b> 46'14	10022110
minimum elong min. Earth dist.	4439 Apr 10 09:42 4439 Apr 13 06:21	$18^{\circ}$ <b>Y</b> 00'17	3°23'20 0.62132 AU	evening max el retrograde	4440 Mar 08 06:33 4440 Mar 14 17:37	10° <b>Υ</b> 15'54	18°22'18
morning rise	4439 Apr 16 17:43	18° <b>γ</b> 00 1 / 14° <b>γ</b> 59'21	0.02132 AU	evening set	4440 Mar 17 18:19	9° <b>Υ</b> 25'50	
direct	4439 Apr 16 17:43 4439 Apr 23 13:54	$14^{\circ}$ <b>Y</b> 39'21' $12^{\circ}$ <b>Y</b> 30'26		inferior conj	4440 Mar 23 15:51	3° <b>Υ</b> 59'24	3°35'09
desc. node	4439 Apr 25 17:37	$12^{\circ}$ $\Upsilon 44'05$		minimum elong	4440 Mar 23 16:00	3 1 39 24 3°Υ58'59	3°35'08
morning max el	4439 May 07 16:48		27°52'16	min. Earth dist.	4440 Mar 25 23:42	1° <b>Υ</b> 19'20	0.64091 AU
morning max or	1137 May 07 10.70	20 12777	2, 3210	mm. Darm dist.	. 1 10 11101 23 23.72	1 11/20	5.0 1071 AU

	4440 Mar 27 05:05	30° <b>₹</b>		evening set	4441 Mar 01 19:14	23° <b>)</b> €00'49	
morning rise	4440 Mar 29 12:50	27° <b>)</b> (49'41		inferior conj	4441 Mar 07 09:53	17° <b>H</b> 17'25	3°29'44
direct	4440 Apr 05 08:44	25°\(\frac{1}{4}\) 100		minimum elong	4441 Mar 07 08:40	17° <b>X</b> 21'14	
desc. node	4440 Apr 11 14:40	26° <b>)</b> 58'16		min. Earth dist.	4441 Mar 09 02:07	15° <b>)</b> 11'47	0.65692 AU
dese. Hode	4440 Apr 15 19:57	0°Υ		morning rise	4441 Mar 12 21:41	11° <b>)</b> (11'17	0.03072710
morning max el	4440 Apr 19 01:38	3° <b>Υ</b> 00'19	27°32'51	direct	4441 Mar 19 10:26	8° <b>₩</b> 13'55	
morning max er	4440 May 09 05:56	0°8	27 3231	desc. node	4441 Mar 29 11:43	13° <b>¥</b> 08′02	
morning set	4440 May 24 02:10	26° <b>8</b> 32'51		morning max el	4441 Apr 01 11:31	15° <b>)</b> 56'34	26°42'08
morning set	4440 May 25 19:42	0°II		morning max cr	4441 Apr 13 01:50	0°Υ	20 42 00
max. Earth dist.	4440 May 29 00:23	6° <b>Ⅱ</b> 33'22	1.33180 AU		4441 May 02 01:33	0°8	
max. Earth dist.	4440 May 27 00.23	0 113322	1.55100710	morning set	4441 May 07 09:44	9° <b>8</b> 49'40	
superior conj	4440 Jun 01 01:31	12° <b>∏</b> 59'28	-0°07'52	max. Earth dist.	4441 May 11 15:19	18° <b>8</b> 04'01	1.34451 AU
minimum elong	4440 Jun 01 01:54	13° <b>I</b> I01'35		max. Lartii dist.	4441 May 11 15.17	10 00401	1.54451710
behind sun begin	4440 May 31 21:09	12° <b>II</b> 36'14	0 07 40	superior conj	4441 May 16 01:32	27° <b>8</b> 04'11	0°36'55
behind sun end	4440 Jun 01 06:39	13° <b>II</b> 26'57		minimum elong	4441 May 16 03:30	27° <b>8</b> 14'25	
asc. node	4440 Jun 01 19:37	14° <b>II</b> 36'15		minimum clong	4441 May 17 11:19	0°II	0 3032
evening rise	4440 Jun 08 04:35	28° <b>I</b> I15'58		asc. node	4441 May 19 16:39	4° <b>Ⅱ</b> 39'45	
evening rise	4440 Jun 09 00:21	0°9			4441 May 23 14:11	12° <b>I</b> I50'13	
		0°Ω		evening rise	•	12 <b>п</b> 30 13	
	4440 Jun 26 15:40		22020102		4441 Jun 01 11:00		2100005
evening max el	4440 Jun 30 03:01	3° <b>Ω</b> 46'36	22°39'03	evening max el	4441 Jun 12 00:05	14°925'54	21 08 05
desc. node	4440 Jul 08 13:55	9° <b>£</b> 28'51		retrograde	4441 Jun 23 20:32	20°©15'15	
retrograde	4440 Jul 13 07:31	10° <b>Ω</b> 20'18		desc. node	4441 Jun 25 10:56	20°509'14	
evening set	4440 Jul 16 14:05	9° <b>Ω</b> 56'46		evening set	4441 Jun 26 02:25	20° <b>©</b> 03'30	
min. Earth dist.	4440 Jul 24 10:53	6° <b>Ω</b> 29'40	0.55246 AU	inferior conj	4441 Jul 05 11:03	16° <b>©</b> 05'33	
inferior conj	4440 Jul 25 17:29	5° <b>Ω</b> 46'00		minimum elong	4441 Jul 05 03:22	16°9516'20	
minimum elong	4440 Jul 25 09:35	5° <b>Ω</b> 57'18	4°24'08	min. Earth dist.	4441 Jul 05 21:52	15° <b>©</b> 50'19	0.54818 AU
morning rise	4440 Aug 03 07:11	1° <b>Ω</b> 55'27		morning rise	4441 Jul 14 04:38	12° <b>©</b> 07'31	
direct	4440 Aug 06 07:49	1° <b>Ω</b> 34'20		direct	4441 Jul 17 17:21	11° <b>©</b> 40'39	
morning max el	4440 Aug 17 14:56	6° <b>Ω</b> 49'44	20°58'44	morning max el	4441 Jul 30 12:02	17° <b>©</b> 45'30	22°34'49
asc. node	4440 Aug 28 18:51	21° <b>Ω</b> 50'55			4441 Aug 09 07:53	$0 {\circ} \Omega$	
	4440 Sep 02 04:46	O° My		asc. node	4441 Aug 15 15:55	10° <b>Ω</b> 55'12	
morning set	4440 Sep 06 04:30	8° Mp 02'21		morning set	4441 Aug 21 15:05	22° <b>Ω</b> 53′21	
					4441 Aug 24 23:23	O° Mp	
superior conj	4440 Sep 13 14:23	23° <b>m</b> 27'55	1°44'00				
minimum elong	4440 Sep 13 14:18	23° <b>m</b> 27'32	1°43'59	superior conj	4441 Aug 28 17:41	8° <b>₯</b> 02'42	1°40'13
	4440 Sep 16 19:36	0∘ <b>⊽</b>		minimum elong	4441 Aug 28 16:24	7° <b>m</b> 55'50	1°40'08
max. Earth dist.	4440 Sep 18 04:11	2° <b>£</b> 41'44	1.35633 AU	max. Earth dist.	4441 Aug 31 21:32	14° <b>m</b> 40'59	1.34105 AU
evening rise	4440 Sep 22 06:48	10° <b>£</b> 35'53		evening rise	4441 Sep 05 14:56	24° m 13'02	
C	4440 Oct 03 09:52	0°M₊		C	4441 Sep 08 15:17	0∘ <u>⊽</u>	
desc. node	4440 Oct 04 13:16	1° <b>M</b> 49'54		desc. node	4441 Sep 21 10:17	21° <b>≏</b> 51'03	
	4440 Oct 25 09:19	0° <b>₹</b>			4441 Sep 26 23:10	0°M	
evening max el	4440 Oct 27 19:13	2° <b>∡</b> ¹26'59	26°25'06	evening max el	4441 Oct 10 07:57	15°M59'51	27°09'05
retrograde	4440 Nov 09 15:08	9° <b>×</b> <sup>7</sup> 39'29	20 20 00	retrograde	4441 Oct 23 16:05	23°M17'16	2, 0, 00
evening set	4440 Nov 16 00:47	7° <b>₹</b> 02'56		evening set	4441 Oct 30 12:59	20°M36'28	
min. Earth dist.	4440 Nov 20 04:14	2° <b>×</b> <sup>7</sup> 44'07	0.66364 AU	min. Earth dist.	4441 Nov 03 10:08	16°M53'11	0.65105 AU
inferior conj	4440 Nov 21 19:23	0° <b>₹</b> 145'20		inferior conj	4441 Nov 05 13:14	14°M30'42	
minimum elong	4440 Nov 21 21:02	0° <b>х</b> 40′20	0°59'35	minimum elong	4441 Nov 05 16:42	14°M21'01	2°00'28
minimum ciong	4440 Nov 22 10:23	30°RM	0 3733	morning rise	4441 Nov 11 21:25	8°M57'26	2 00 20
asc. node	4440 Nov 24 18:03	27°M23'40		asc. node	4441 Nov 11 21:23 4441 Nov 11 15:07	9°M05'10	
morning rise	4440 Nov 27 17:54	24°M59'03		direct	4441 Nov 14 13:33	8°M19'20	
direct	4440 Nov 30 17:52	24°M08'14		morning max el	4441 Nov 21 01:03	11°M46'58	18°04'26
			18°35'40	morning max er		0° <b>√</b>	18 04 20
morning max el	4440 Dec 07 09:52	27° <b>M</b> .47′08 0° <b>₹</b>	16 33 40	morning got	4441 Dec 03 18:14	8° <b>∡</b> ¹46'47	
. ,	4440 Dec 09 10:24			morning set	4441 Dec 09 01:47		
morning set	4440 Dec 28 00:14	27° <b>х</b> 47'18		desc. node	4441 Dec 18 09:34	24° <b>₹</b> 01'57	
	4440 Dec 29 09:42	0°る			4441 Dec 22 02:54	0°ප	
desc. node	4440 Dec 31 12:32	3° <b>る</b> 21'17			4441 D 22 00 21	10757150	0022142
	4441 1 12 01 50	2207070	1010/20	superior conj	4441 Dec 23 08:31	1°る57'50	
superior conj	4441 Jan 13 01:59	23° <b>る</b> 07'09		minimum elong	4441 Dec 23 04:20	1°る41'11	
minimum elong	4441 Jan 12 17:00	22°₹31'54		max. Earth dist.	4441 Dec 26 20:33	7° <b>る</b> 30'01	1.45096 AU
max. Earth dist.	4441 Jan 13 00:50	23° <b>る</b> 02'40	1.45267 AU	evening rise	4442 Jan 08 16:08	27° <b>る</b> 27'58	
	4441 Jan 17 11:12	0° <b>≈</b>			4442 Jan 10 07:29	0° <b>≈</b>	
evening rise	4441 Jan 28 19:49	17°≈57'52		greatest brilliancy	4442 Jan 22 01:28	17°≈56'18	-0.7m
	4441 Feb 05 09:09	0° <b>∀</b>			4442 Jan 30 16:20	0° <b>∀</b>	
greatest brilliancy	4441 Feb 06 09:49	1° <b>)</b> 37′28	-0.8m	evening max el	4442 Feb 02 23:27	3° <b>)</b> 46′59	19°44'11
evening max el	4441 Feb 19 17:04	20° <b>)</b> 15′14	18°55'04	asc. node	4442 Feb 07 14:22	7° <b>∺</b> 22'52	
asc. node	4441 Feb 20 17:20	21° <b>)</b> 13′45		retrograde	4442 Feb 10 09:22	8° <b>∺</b> 04'29	
retrograde	4441 Feb 26 11:56	24° <b>)</b> €03'48		evening set	4442 Feb 14 00:20	6° <b>)</b> 47′39	

inferior conj	4442 Feb 19 10:48	0° <b>)</b> (49'16	3°11'10		4443 Jan 03 15:59	0° <b>≈</b>	
minimum elong	4442 Feb 19 10:48 4442 Feb 19 08:43	0° <del>X</del> 56'12		evening max el	4443 Jan 17 00:28	0 ∞ 17°≈20'13	20°47'20
minimum eiong	4442 Feb 19 08.43 4442 Feb 20 01:38	0 \(\chi_{3012}\) 30°R≈	3 10 37	retrograde	4443 Jan 25 07:35	17 ≈2013 22°≈14'15	20 47 20
min. Earth dist.	4442 Feb 20 01:38 4442 Feb 20 12:17	30 k∞ 29°≈24'47	0.66878 AU	asc. node	4443 Jan 25 11:24	22 ≈14 13 22°≈14'07	
	4442 Feb 20 12:17 4442 Feb 24 16:52		0.00878 AU				
morning rise		24°≈35'09		evening set	4443 Jan 29 07:37	20°≈42'42	2042127
direct	4442 Mar 02 17:53	21°≈53'24	25020122	inferior conj	4443 Feb 03 16:06	14°≈32'00	2°42'37
morning max el	4442 Mar 14 20:44	29°≈07'16	25°28'33	minimum elong	4443 Feb 03 13:39	14°≈40'24	2°41'58
	4442 Mar 15 17:12	0° <b>)</b> ( 41110		min. Earth dist.	4443 Feb 04 04:20	13°≈49'59	0.67645 AU
desc. node	4442 Mar 16 08:46	0° <b>)</b> (41′19		morning rise	4443 Feb 08 19:31	8°≈18'35	
	4442 Apr 06 21:36	0°Υ		direct	4443 Feb 14 06:26	5°≈53'49	
morning set	4442 Apr 20 01:54	22°Υ17'16		morning max el	4443 Feb 25 05:24	12°≈26′02	24°02'12
max. Earth dist.	4442 Apr 23 19:05	29° <b>Y</b> ′09'57	1.36172 AU	desc. node	4443 Mar 03 05:48	19° <b>≈</b> 14'49	
	4442 Apr 24 05:40	$9^{\circ}$ 8			4443 Mar 11 08:14	0° <b>∀</b>	
					4443 Mar 30 17:13	0° <b>Υ</b>	
superior conj	4442 Apr 29 16:47	10° <b>8</b> 38'11		morning set	4443 Apr 01 21:06	3° <b>Y</b> 41′22	
minimum elong	4442 Apr 29 20:22	10° <b>8</b> 56'04	1°05'36	max. Earth dist.	4443 Apr 05 15:20	10° <b>Ƴ</b> 17'06	1.38239 AU
asc. node	4442 May 06 13:41	24° <b>8</b> 34'27					
evening rise	4442 May 07 19:35	27° <b>8</b> 06'35		superior conj	4443 Apr 12 19:51	23° <b>Y</b> 32'59	
	4442 May 09 05:57	$\Pi$ $^{\circ}0$		minimum elong	4443 Apr 13 00:34	23° <b>Y</b> 55′29	1°32'52
evening max el	4442 May 25 08:58	25° <b>Ⅱ</b> 41'29	19°53'01		4443 Apr 16 04:12	$8^{\circ}$ 0	
	4442 May 31 20:05	0°€		evening rise	4443 Apr 21 18:16	10° <b>8</b> 58'24	
retrograde	4442 Jun 04 12:18	0° <b>©</b> 38'17		asc. node	4443 Apr 23 10:42	14° <b>8</b> 16'05	
evening set	4442 Jun 06 10:51	0°528'13			4443 May 02 05:38	$\Pi$ $^{\circ}0$	
	4442 Jun 08 08:33	30° <b>Ŗ</b> Ⅱ		evening max el	4443 May 08 05:30	7° <b>Ⅲ</b> 38'11	18°57'39
desc. node	4442 Jun 12 07:58	28° <b>Ⅱ</b> 14'12		retrograde	4443 May 16 18:31	11° <b>Ⅱ</b> 48'49	
inferior conj	4442 Jun 15 09:00	26° <b>Ⅲ</b> 27′09	-0°54'20	evening set	4443 May 18 20:26	11° <b>Ⅱ</b> 34'56	
minimum elong	4442 Jun 15 06:29	26° <b>Ⅲ</b> 30′59	0°53'23	inferior conj	4443 May 26 23:43	7° <b>Ⅱ</b> 19'04	0°55'39
min. Earth dist.	4442 Jun 17 10:27	25° <b>Ⅱ</b> 11'49	0.55348 AU	minimum elong	4443 May 27 01:50	7° <b>Ⅱ</b> 15'19	0°54'54
morning rise	4442 Jun 24 00:10	22° <b>Ⅲ</b> 02'33		min. Earth dist.	4443 May 30 02:10	5° <b>Ⅱ</b> 08'37	0.56735 AU
direct	4442 Jun 28 07:06	21° <b>Ⅲ</b> 22'13		desc. node	4443 May 30 04:59	5° <b>Ⅱ</b> 03'53	
morning max el	4442 Jul 12 02:39	28° <b>Ⅱ</b> 12'18	24°18'30	morning rise	4443 Jun 04 03:58	2° <b>Ⅱ</b> 18'19	
C	4442 Jul 13 21:52	0°ಅ		direct	4443 Jun 09 09:47	1° <b>Ⅱ</b> 12'52	
	4442 Aug 02 08:08	$0^{\circ}\Omega$		morning max el	4443 Jun 23 17:12	8° <b>耳</b> 37′08	25°54'45
asc. node	4442 Aug 02 12:58	0° <b>Ω</b> 24'12		C	4443 Jul 09 17:37	0° <b>©</b>	
morning set	4442 Aug 06 02:49	7° <b>Ω</b> 47'07		asc. node	4443 Jul 20 09:59	20°910'54	
		, 001, 11		morning set	4443 Jul 21 14:05	22° <b>©</b> 38'19	
superior conj	4442 Aug 13 01:53	22° <b>Ω</b> 50'52	1°30'35		4443 Jul 25 00:06	0°N	
minimum elong	4442 Aug 12 23:50	22° <b>Ω</b> 39'45	1°30'22			* 00	
max. Earth dist.	4442 Aug 14 23:36	26°Ω58'00	1.32981 AU	superior conj	4443 Jul 28 12:48	7° <b>Ω</b> 45'24	1°15'55
max. Earth dist.	4442 Aug 16 09:38	0° m/y	1.52501710	minimum elong	4443 Jul 28 10:29	7°Ω32'36	
evening rise	4442 Aug 20 09:59	8° m, 20'59		max. Earth dist.	4443 Jul 29 07:54	9°Ω30'24	1.32274 AU
evening rise	4442 Sep 01 01:41	0∘ <b>ರ</b>		evening rise	4443 Aug 04 12:43	22° <b>Ω</b> 50'15	1.52271110
desc. node	4442 Sep 08 07:18	11° <b>≏</b> 23'46		evening rise	4443 Aug 08 01:23	0° m)	
evening max el	4442 Sep 22 19:07	29° <b>£</b> 10′59	27°26'48		4443 Aug 25 23:36	0° <del>ত</del> مسلا	
evening max er	4442 Sep 23 16:15	0° <b>™</b>	27 20 40	desc. node	4443 Aug 26 04:18	0° <b>≏</b> 15'58	
retrograde	4442 Oct 06 10:45	6°M27'34		evening max el	4443 Sep 05 02:15	11° <b>≏</b> 46'55	27°13'00
evening set	4442 Oct 13 14:33	3°M51'35		retrograde	4443 Sep 18 22:35	19° <b>⊆</b> 00'26	27 13 00
min. Earth dist.	4442 Oct 17 06:42	0°M41'06	0.63503 AU	evening set	4443 Sep 26 01:42	16° <b>⊆</b> 41'10	
mm. Latin dist.	4442 Oct 17 00:42 4442 Oct 17 23:20	30°R <b>≏</b>	0.03303 AC	min. Earth dist.	4443 Sep 29 16:42	13° <b>⊆</b> 55'34	0.61610 AU
inferior conj	4442 Oct 17 23:20 4442 Oct 19 21:54	30 K== 28° <b>£</b> 02'11	-3°03'55	inferior conj	4443 Oct 02 18:17	13 <b>=</b> 33 34 11° <b>£</b> 11'41	
minimum elong	4442 Oct 20 03:04	28 <b>≅</b> 02 11 27° <b>£</b> 49'10		minimum elong	4443 Oct 02 18:17 4443 Oct 03 00:22		4°00'32
morning rise	4442 Oct 26 17:02	27 <b>⊆</b> 49 10 22° <b>⊆</b> 45'28	3 02 07	morning rise	4443 Oct 10 00:53	6° <b>£</b> 14'44	4 00 32
direct				direct			
	4442 Oct 29 03:49	22° <b>£</b> 16'28			4443 Oct 12 09:06	5° <b>Ω</b> 51'39	
asc. node	4442 Oct 29 12:10	22° <b>£</b> 17'04	17050127	asc. node	4443 Oct 16 09:13	7° <b>Ω</b> 01'45	17055100
morning max el	4442 Nov 04 17:49	25° <b>Ω</b> 41'35	17°50'37	morning max el	4443 Oct 19 09:01	9° <b>Ω</b> 22'44	17°55'00
	4442 Nov 08 08:46	0°M			4443 Nov 01 20:54	0°M	
morning set	4442 Nov 21 05:22	21°M01'59		morning set	4443 Nov 04 04:23	4°M12'10	
	4442 Nov 26 10:05	0° <b>∡</b> 7			4442 NY 14 17 12	220M 02110	0050147
	4440 P. 00 11 0 =	110 35	001012	superior conj	4443 Nov 14 17:13	23°M02'49	0°50'47
superior conj	4442 Dec 03 11:35	11° 🖈 51'33	0°12'29	minimum elong	4443 Nov 14 21:06	23°M19'37	0°50'17
minimum elong	4442 Dec 03 12:54	11° <b>×</b> 56'58	0°12'18		4443 Nov 18 18:56	0° <b>∡</b> ¹	
behind sun begin	4442 Dec 03 06:37	11° <b>∡</b> ³31′06		max. Earth dist.	4443 Nov 22 04:04	5° <b>₹</b> 37'09	1.42706 AU
behind sun end	4442 Dec 03 19:10	12° <b>₹</b> 22'48		desc. node	4443 Nov 22 03:36	5° <b>₹</b> 35'17	
desc. node	4442 Dec 05 06:36	14° <b>₹</b> 47'58		evening rise	4443 Nov 28 17:35	16° <b>∡</b> 10'11	
max. Earth dist.	4442 Dec 09 14:39	21° <b>∡</b> ⁴48′04	1.44203 AU		4443 Dec 07 17:56	0°る	
	4442 Dec 14 19:09	0° <b>ろ</b>			4443 Dec 29 23:05	0° <b>≈</b>	
evening rise	4442 Dec 19 02:09	6° <b>る</b> 39'30		evening max el	4443 Dec 30 20:01	0° <b>≈</b> 54'24	22°01'08

	4444 7 00 04 25	6020120			4444 D 10 11 00	14° <b>る</b> 31'44	22020126
retrograde	4444 Jan 09 04:35	6°≈28'28		evening max el	4444 Dec 12 11:22		23°20'36
asc. node	4444 Jan 12 08:26	5° <b>≈</b> 35'05		retrograde	4444 Dec 22 22:50	20° <b>る</b> 43'43	
evening set	4444 Jan 13 15:19	4° <b>≈</b> 41'27		evening set	4444 Dec 27 21:52	18° <b>ろ</b> 40'52	
	4444 Jan 17 19:07	30°Ŗ₹		asc. node	4444 Dec 29 05:29	17° <b>る</b> 25'59	
inferior conj	4444 Jan 18 23:37	28° <b>る</b> 21'49	2°05'22	inferior conj	4445 Jan 02 07:28	12° <b>る</b> 16'09	1°20'49
minimum elong	4444 Jan 18 21:17	28° <b>る</b> 29'53	2°04'35	minimum elong	4445 Jan 02 05:44	12° <b>る</b> 22'08	1°20'09
min. Earth dist.	4444 Jan 18 23:57	28° <b>る</b> 20'37	0.68010 AU	min. Earth dist.	4445 Jan 01 20:46	12° <b>る</b> 52'55	0.68004 AU
morning rise	4444 Jan 24 03:06	22°る10'40		morning rise	4445 Jan 07 13:30	6° <b>ප</b> 09'08	
direct	4444 Jan 28 23:16	20°る07'24		direct	4445 Jan 11 19:27	4°₹28'40	
morning max el	4444 Feb 07 15:46	25° <b>る</b> 50'35	22°33'10	morning max el	4445 Jan 20 07:24	9° <b>ට</b> 24'11	21°09'55
morning man vi	4444 Feb 11 10:33	0°≈	33 10	desc. node	4445 Feb 03 23:52	28° <b>る</b> 17'55	21 0,00
desc. node	4444 Feb 18 02:50	8° <b>≈</b> 31'00		dese. Hode	4445 Feb 05 04:04	0°≈	
uese. Houe	4444 Mar 03 21:07	0° <b>\</b>		morning sat		0 ≈ 22°≈34'39	
				morning set	4445 Feb 20 01:39		
morning set	4444 Mar 12 13:30	13° <b>)</b> √47′21			4445 Feb 24 17:38	0° <b>∀</b>	
max. Earth dist.	4444 Mar 17 11:13	21° <b>)</b> 58′14	1.40426 AU	max. Earth dist.	4445 Feb 27 13:11	4° <b>)</b> 34'11	1.42455 AU
	4444 Mar 22 02:33	$0$ ° $\mathbf{\gamma}$					
				superior conj	4445 Mar 06 19:17	16° <b>)</b> 42′18	-2°07'21
superior conj	4444 Mar 25 06:21	5° <b>Ƴ</b> 38'15		minimum elong	4445 Mar 06 20:51	16° <b>)</b> 48′58	2°07'20
minimum elong	4444 Mar 25 10:49	5° <b>Y</b> 58′26	1°55'03		4445 Mar 14 09:38	$0$ ° $\Upsilon$	
evening rise	4444 Apr 04 07:03	24° <b>Ƴ</b> 17'31		evening rise	4445 Mar 18 05:59	6° <b>Ƴ</b> 54'42	
•	4444 Apr 07 07:59	0° <b>႘</b>		asc. node	4445 Mar 27 04:45	22° <b>Ƴ</b> 38'24	
asc. node	4444 Apr 09 07:43	3° <b>8</b> 39'37			4445 Apr 01 03:30	0°8	
evening max el	4444 Apr 20 10:55	20° <b>8</b> 10'43	18°22'39	evening max el	4445 Apr 03 21:41	3° <b>8</b> 09'24	18°07'29
retrograde	4444 Apr 27 19:30	23° <b>8</b> 49'48	10 22 37	retrograde	4445 Apr 10 13:36	6° <b>8</b> 33'15	10 07 25
•				•		6° <b>8</b> 01'31	
evening set	4444 Apr 30 04:10	23° <b>8</b> 28'14	2017101	evening set	4445 Apr 13 04:54	_	2005102
inferior conj	4444 May 07 11:56	18° <b>8</b> 52'44	2°17'01	inferior conj	4445 Apr 19 20:14	1° <b>8</b> 05'16	3°07'02
minimum elong	4444 May 07 15:33	18° <b>8</b> 45'16	2°16'01	minimum elong	4445 Apr 19 23:00	0° <b>8</b> 58'37	3°06'32
min. Earth dist.	4444 May 10 22:34	16° <b>8</b> 03'31	0.58702 AU		4445 Apr 20 23:21	30° <b>₹Ƴ</b>	
morning rise	4444 May 14 23:52	13° <b>8</b> 20'29		min. Earth dist.	4445 Apr 23 01:33	28° <b>Ƴ</b> 01'48	0.60900 AU
desc. node	4444 May 16 02:00	12° <b>8</b> 48'32		morning rise	4445 Apr 26 15:03	25° <b>Ƴ</b> 11'56	
direct	4444 May 21 02:57	11° <b>8</b> 40'56		desc. node	4445 May 02 23:03	22° <b>Y</b> 59'02	
morning max el	4444 Jun 04 12:26	19° <b>8</b> 26'25	27°07'50	direct	4445 May 03 07:52	22° <b>Y</b> 58'38	
	4444 Jun 13 11:38	$\Pi^{\circ}$			4445 May 16 15:21	$8^{\circ}$	
	4444 Jul 01 08:51	0°©		morning max el	4445 May 17 13:56	0° <b>8</b> 54'44	27°46'54
morning set	4444 Jul 04 23:16	7° <b>©</b> 21'47		. 8	4445 Jun 07 15:25	0°II	
asc. node	4444 Jul 06 07:01	10°509'40		morning set	4445 Jun 19 04:30	21° <b>II</b> 50'37	
use. Houe	7777341 00 07.01	10 000 10		asc. node	4445 Jun 23 04:02	0°914'57	
	4444 Jul 12 00:38	22° <b>©</b> 40'11	005(155	asc. nouc	4445 Jun 23 01:15	0°95	
superior conj			0°56'55	Fauth diat			1 22112 ATT
minimum elong	4444 Jul 11 22:31	22°528'26	0°56'31	max. Earth dist.	4445 Jun 25 05:43	4-9944-42	1.32112 AU
max. Earth dist.	4444 Jul 11 19:12		1.31983 AU				
	4444 Jul 15 08:31	$0^{\circ}\Omega$		superior conj	4445 Jun 26 11:35	7° <b>©</b> 28'21	0°34'08
evening rise	4444 Jul 18 20:36	7° <b>Ω</b> 33'07		minimum elong	4445 Jun 26 10:07	7° <b>©</b> 20'15	0°33'49
	4444 Jul 30 13:07	O° Mp		evening rise	4445 Jul 03 07:25	22° <b>©</b> 21'29	
desc. node	4444 Aug 12 01:17	18° <b>m</b> 11'04			4445 Jul 06 23:44	$0 {\circ} \Omega$	
evening max el	4444 Aug 17 03:09	23° Mp 38'07	26°25'52		4445 Jul 25 12:04	O° <b>m</b> y	
	4444 Aug 26 15:54	0∘ <b>ত</b>		desc. node	4445 Jul 29 22:18	4° Mp 44'56	
retrograde	4444 Aug 31 02:17	0° <b>ჲ</b> 47'39		evening max el	4445 Jul 29 20:40	4° <b>m</b> ) 41'01	25°09'21
-	4444 Sep 04 10:49	30°R <b>™</b>		retrograde	4445 Aug 12 19:27	11° <b>m</b> )44'42	
evening set	4444 Sep 06 17:45	28° m 57'59		evening set	4445 Aug 18 10:06	10° m/32'40	
min. Earth dist.	4444 Sep 10 16:36	-	0.59550 AU	min. Earth dist.	4445 Aug 23 08:21	-	0.57545 AU
inferior conj	4444 Sep 13 22:55	20° m/22' 32 23° m/50'35		inferior conj	4445 Aug 26 08:28	5° Mp 48'17	
3		~		,	- C		
minimum elong	4444 Sep 14 04:00	23° Mp 40'38	4 40 22	minimum elong	4445 Aug 26 09:30	5° Mp 46'32	3 12 37
morning rise	4444 Sep 21 16:24	19° <b>m</b> 15'46		morning rise	4445 Sep 03 11:13	1° m/35'58	
direct	4444 Sep 24 01:20	18° <b>™</b> 55'48		direct	4445 Sep 06 00:23	1° Mp 16'49	
morning max el	4444 Oct 01 19:22	22° <b>m</b> 41'55	18°18'56	morning max el	4445 Sep 14 21:23	5° m/28'16	19°04'01
asc. node	4444 Oct 02 06:16	23°Mp08'52		asc. node	4445 Sep 19 03:18	10° My 22'28	
	4444 Oct 07 13:57	0∘ <b>⊽</b>			4445 Sep 30 11:39	0∘ <b>⊽</b>	
morning set	4444 Oct 17 17:20	18° <b>ჲ</b> 02'02		morning set	4445 Oct 01 15:53	2° <b>≏</b> 19'00	
	4444 Oct 24 00:49	$0^{\circ}$ M.					
				superior conj	4445 Oct 09 23:07	18° <b>≏</b> 39'24	1°35'18
superior conj	4444 Oct 26 22:52	5°M23'58	1°18'18	minimum elong	4445 Oct 10 01:34	18° <b>≏</b> 51′08	1°35'07
minimum elong	4444 Oct 27 02:40	5°M41'20	1°17'54	J	4445 Oct 16 00:36	0° <b>M</b>	
max. Earth dist.	4444 Nov 03 12:15	18°M46'36	1.40796 AU	max. Earth dist.	4445 Oct 16 17:12	1°ML15'04	1.38703 AU
evening rise	4444 Nov 08 03:39	26°M33'18	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	evening rise	4445 Oct 20 12:54	7° <b>M</b> 59'41	
desc. node	4444 Nov 08 00:37	26°M20'50		desc. node	4445 Oct 25 21:38	17°ML00'40	
desc. Houc				dese. Houc			
	4444 Nov 10 06:28	0°る		arramin 1	4445 Nov 03 04:41	0° <b>⊼</b> 28°. <b>⊼</b> 12110	24920120
	4444 Nov 30 11:03	0.0		evening max el	4445 Nov 25 00:28	28° <b>₹</b> 13'19	24 39 28

	4445 Nov 26 21:51	0°ಕ			4446 Oct 28 04:36	0° <b>∡</b> 7	
retrograde	4445 Dec 06 13:09	<sup>°</sup> ਰ 4°ਰ56'24		evening max el	4446 Nov 07 12:56	11° <b>х</b> 56'23	25°50'36
evening set	4445 Dec 12 01:43	2° <b>ප</b> 38'13		retrograde	4446 Nov 19 22:47	19° <b>×</b> 01'04	23 30 30
evening sec	4445 Dec 14 15:13	30°R. <b>₹</b>		evening set	4446 Nov 26 01:08	16° <b>₹</b> 29'44	
asc. node	4445 Dec 16 02:31	28° <b>×</b> <sup>7</sup> 09'46		min. Earth dist.	4446 Nov 30 08:26	11° <b>×</b> <sup>2</sup> 50'51	0.66931 AU
min. Earth dist.	4445 Dec 16 16:24	27° <b>×</b> <sup>7</sup> 24'14	0.67643 AU	inferior conj	4446 Dec 01 17:04	10°×707'59	
inferior conj	4445 Dec 17 13:55	26° × 12'44	0°30'00	minimum elong	4446 Dec 01 17:46	10°×07'39'	0°25'47
minimum elong	4445 Dec 17 13:33	26° × 12 44 26° × 15'09	0°29'42	asc. node	4446 Dec 02 23:35	8°×733'11	0 25 47
morning rise	4445 Dec 23 00:45	20° × 13'07	0 2) 42	morning rise	4446 Dec 07 10:48	4°×715'54	
direct	4445 Dec 26 17:40	18° <b>х</b> 53'09		direct	4446 Dec 10 16:24	3° <b>₹</b> 15'56	
morning max el	4446 Jan 03 06:49	23°×709'44	19°58'16	morning max el	4446 Dec 17 14:00	7° <b>₹</b> 1530	19°01'16
morning max ci	4446 Jan 09 01:47	23 × 09 44	19 36 10	morning max ci	4447 Jan 03 01:03	0°る	19 01 10
desc. node	4446 Jan 21 20:54	0 3 18° <b>る</b> 27'13		desc. node	4447 Jan 08 17:56	8° <b>る</b> 52'17	
desc. Hode	4446 Jan 29 10:30	18 <b>3</b> 27 13 0° <b>≈</b>			4447 Jan 09 03:34	9° <b>る</b> 29'52	
				morning set		9 <b>6</b> 29 32 0° <b>≈</b>	
morning set	4446 Jan 29 22:04	0°≈44'33	1 44054 ATT	Easth diet	4447 Jan 22 06:20		1 45020 ATT
max. Earth dist.	4446 Feb 09 23:19	18° <b>≈</b> 03'54	1.44054 AU	max. Earth dist.	4447 Jan 23 15:31	2°≈10′22	1.45030 AU
superior coni	4446 Feb 15 06:46	26° <b>≈</b> 37'34	2002152	superior coni	4447 Jan 25 18:50	5°≈32'32	1940'50
superior conj	4446 Feb 15 00:46 4446 Feb 15 02:33	26°≈20'22		superior conj	4447 Jan 25 18.30 4447 Jan 25 09:48	3 ≈32 32 4°≈56'53	1°40'10
minimum elong	4446 Feb 17 08:14	20 ≈20 22 0° <b>H</b>	2 03 43	minimum elong	4447 Jan 23 09.48 4447 Feb 09 17:17	4 ≈30 33 29°≈31'08	1 40 10
		0 <del>X</del> 18° <b>¥</b> 41'24		evening rise		29 ≈31 08 0° <b>\</b>	
evening rise	4446 Feb 28 10:42			1	4447 Feb 10 00:22		
	4446 Mar 07 01:31	0°Υ		asc. node	4447 Feb 28 22:52	28° <b>)</b> (47'36	1002402
asc. node	4446 Mar 14 01:48	11° <b>Y</b> 04'37		evening max el	4447 Mar 01 22:29	29° <b>)</b> 50'31	18°34'02
evening max el	4446 Mar 18 10:30	16° <b>Y</b> 25'17	18°11'31		4447 Mar 02 02:15	0°Υ •••••••	
retrograde	4446 Mar 24 20:33	19° <b>Ƴ</b> 49'00		retrograde	4447 Mar 08 11:54	3° <b>Y</b> 27'03	
evening set	4446 Mar 27 17:54	19° <b>Y</b> 05'45		evening set	4447 Mar 11 15:19	2° <b>Y</b> 31'30	
inferior conj	4446 Apr 02 20:49	13° <b>Y</b> 49′39	3°30'49		4447 Mar 14 17:00	30° <b>₹</b>	
minimum elong	4446 Apr 02 21:55	13° <b>Y</b> 46′39	3°30'45	inferior conj	4447 Mar 17 09:31	26° <b>¥</b> 57'19	3°34'37
min. Earth dist.	4446 Apr 05 13:17	10° <b>Y</b> 55'54	0.63007 AU	minimum elong	4447 Mar 17 09:02	26° <b>)</b> 58'46	3°34'37
morning rise	4446 Apr 09 00:48	7° <b>Ƴ</b> 44'08		min. Earth dist.	4447 Mar 19 10:34	24° <b>∺</b> 30′55	0.64822 AU
direct	4446 Apr 15 21:53	5° <b>Y</b> 06′12		morning rise	4447 Mar 23 02:09	20° <b>)</b> 45′36	
desc. node	4446 Apr 19 20:05	5° <b>Y</b> 51'40		direct	4447 Mar 29 19:33	17° <b>¥</b> 56′04	
morning max el	4446 Apr 29 20:50	13° <b>Ƴ</b> 04'58	27°48'17	desc. node	4447 Apr 06 17:07	20° <b>¥</b> 59'13	
	4446 May 13 09:42	$9^{\circ}$ 8		morning max el	4447 Apr 12 06:39	25° <b>)</b> 48′35	27°14'40
	4446 May 31 02:53	$\Pi$ $^{\circ}0$			4447 Apr 16 03:17	$0^{\circ}\Upsilon$	
morning set	4446 Jun 03 03:40	5° <b>Ⅱ</b> 58'34			4447 May 06 22:28	0°8	
max. Earth dist.	4446 Jun 08 11:42	17° <b>Ⅲ</b> 02'33	1.32669 AU	morning set	4447 May 17 17:56	19° <b>8</b> 36'58	
asc. node	4446 Jun 10 01:04	20° <b>Ⅲ</b> 22'49		max. Earth dist.	4447 May 22 09:08	28° <b>8</b> 52'16	1.33668 AU
					4447 May 22 22:20	$\Pi^{\circ}0$	
superior conj	4446 Jun 10 19:55	22° <b>Ⅱ</b> 04'29	0°08'13				
minimum elong	4446 Jun 10 19:31	22° <b>Ⅲ</b> 02'21	0°08'07	superior conj	4447 May 25 23:36	6° <b>Ⅲ</b> 22'14	-0°20'04
behind sun begin	4446 Jun 10 14:58	21° <b>Ⅲ</b> 37'45		minimum elong	4447 May 26 00:39	6° <b>Ⅱ</b> 27'44	0°19'51
behind sun end	4446 Jun 11 00:04	22° <b>Ⅱ</b> 26'59		asc. node	4447 May 27 22:08	10° <b>Ⅱ</b> 28'59	
	4446 Jun 14 11:30	$0$ $\circ$ $\odot$		evening rise	4447 Jun 02 06:16	21° <b>Ⅱ</b> 50′09	
evening rise	4446 Jun 17 19:17	7° <b>©</b> 09'20			4447 Jun 06 05:51	$0$ $\circ$ $\odot$	
	4446 Jun 29 19:03	$0^{\circ}\Omega$		evening max el	4447 Jun 23 01:11	25° <b>©</b> 34'53	21°58'44
evening max el	4446 Jul 11 09:31	15° <b>Ω</b> 09'28	23°34'56		4447 Jun 28 20:13	$0^{\circ}\Omega$	
desc. node	4446 Jul 16 19:20	19° <b>Ω</b> 26'47		desc. node	4447 Jul 03 16:20	1° <b>Ω</b> 42'27	
retrograde	4446 Jul 25 00:15	21° <b>Q</b> 59'09		retrograde	4447 Jul 05 17:55	1° <b>Q</b> 52'23	
evening set	4446 Jul 29 03:42	21° <b>Ω</b> 21'31		evening set	4447 Jul 08 11:54	1° <b>Ω</b> 35'29	
min. Earth dist.	4446 Aug 04 19:22	18° <b>Ω</b> 14'35	0.55902 AU		4447 Jul 13 03:08	30° <b>₹</b> 5	
inferior conj	4446 Aug 06 21:50	16° <b>Ω</b> 59'22	-4°57'32	min. Earth dist.	4447 Jul 17 05:42	27° <b>9</b> 50'41	0.54946 AU
minimum elong	4446 Aug 06 16:38	17° <b>Ω</b> 07'09	4°56'53	inferior conj	4447 Jul 17 19:28	27° <b>©</b> 31'22	-3°51'27
morning rise	4446 Aug 15 08:03	13° <b>Ω</b> 04'51		minimum elong	4447 Jul 17 10:49	27°543'30	3°49'09
direct	4446 Aug 18 04:05	12° <b>Ω</b> 44'56		morning rise	4447 Jul 26 11:21	23°540'32	
morning max el	4446 Aug 28 12:24	17° <b>Ω</b> 33'16	20°11'00	direct	4447 Jul 29 16:23	23°517'46	
asc. node	4446 Sep 06 00:20	28° <b>Ω</b> 28'16		morning max el	4447 Aug 10 15:37	28° <b>©</b> 53'40	21°38'06
	4446 Sep 06 22:40	0° m/		Ç	4447 Aug 11 19:00	$0^{\circ}\Omega$	
morning set	4446 Sep 15 20:53	16° m 54'19		asc. node	4447 Aug 23 21:23	17° <b>Ω</b> 14'19	
<b>5</b>	4446 Sep 22 06:19	0∘ <b>ರ</b>			4447 Aug 30 10:25	0° m/y	
		-		morning set	4447 Aug 31 06:00	1° <b>m</b> )41'34	
superior conj	4446 Sep 23 12:55	2° <b>≏</b> 34'44	1°43'06	Ç	Ç	.,	
minimum elong	4446 Sep 23 13:43	2° <b>£</b> 38'44	1°43'04	superior conj	4447 Sep 07 12:16	16° <b>m</b> 58'33	1°43'11
max. Earth dist.	4446 Sep 28 23:17	13° <b>≏</b> 14'31	1.36678 AU	minimum elong	4447 Sep 07 11:38	16° m 55'12	1°43'09
evening rise	4446 Oct 02 19:35	20° <b>£</b> 24'55		max. Earth dist.	4447 Sep 11 11:27	25° m 07'24	1.34927 AU
<b>&amp;</b> .	4446 Oct 08 06:03	0°M			4447 Sep 13 22:20	0∘ <b>ರ</b>	
desc. node	4446 Oct 12 18:40	7° <b>M</b> 30'09		evening rise	4447 Sep 15 19:42	3° <b>₾</b> 39'28	
				<i>S</i> -	1		

desc. node	4447 Sep 29 15:41	27° <b>Ω</b> 43'58			4448 Sep 04 22:38	0∘ <b>⊽</b>	
dese. Hode	4447 Oct 01 02:37	0°M		desc. node	4448 Sep 15 12:41	0 <b>—</b> 17° <b>Ω</b> 34'13	
evening max el	4447 Oct 21 01:29	25°M35'18	26°46'36	dese. Hode	4448 Sep 24 11:29	0°M	
evening max er	4447 Oct 26 09:23	0° <b>⊼</b>	20 1030	evening max el	4448 Oct 02 13:37	8°M59'58	27°20'14
retrograde	4447 Nov 03 03:13	2° <b>х</b> 51'29		retrograde	4448 Oct 16 01:49	16°M18'28	27 20 1 .
evening set	4447 Nov 09 18:08	0° <b>√</b> 11'49		evening set	4448 Oct 23 02:12	13°M38'21	
evening set	4447 Nov 09 23:52	30°RM		min. Earth dist.	4448 Oct 26 20:53	10°M09'31	0.64457 AU
min. Earth dist.	4447 Nov 13 18:40	26°M08'32	0.65868 AU	inferior conj	4448 Oct 29 05:13	7°M38'41	
inferior conj	4447 Nov 15 14:58	23°M58'37		minimum elong	4448 Oct 29 09:27	7°M27'20	
minimum elong	4447 Nov 15 14:38 4447 Nov 15 17:22	23°M51'33	1°25'09	morning rise	4448 Nov 04 17:57	2°M12'05	2 20 44
Č			1 23 09	•		1°M51'14	
asc. node	4447 Nov 19 20:37	19°M33'28		asc. node direct	4448 Nov 05 17:39 4448 Nov 07 07:22		
morning rise	4447 Nov 21 17:26	18°M17'48				1°M38'26	1705 (122
direct	4447 Nov 24 13:44	17°M32'59	10000100	morning max el	4448 Nov 13 19:16	5°M04'20	1/56/23
morning max el	4447 Dec 01 03:04	21°M05'58	18°20'23		4448 Nov 30 08:13	0° <b>∡</b> 7	
	4447 Dec 08 01:55	0° <b>₹</b>		morning set	4448 Dec 01 01:19	1°×12'10	
morning set	4447 Dec 20 12:00	19° <b>∡</b> 38'37		desc. node	4448 Dec 12 12:00	20° <b>⊀</b> 11'52	
desc. node	4447 Dec 26 14:59	29° <b>∡</b> 28'43				_	
	4447 Dec 26 22:50	0°ಕ		superior conj	4448 Dec 14 11:08	23° <b>×</b> 22'19	
		_		minimum elong	4448 Dec 14 09:31	23° <b>∡</b> 15'49	0°13'21
superior conj	4448 Jan 04 21:28	14° <b>る</b> 09'00		behind sun begin	4448 Dec 14 03:40	22° <b>≯</b> 52'12	
minimum elong	4448 Jan 04 14:01	13° <b>る</b> 39'42	0°59'57	behind sun end	4448 Dec 14 15:23	23° <b>∡</b> ³39'25	
max. Earth dist.	4448 Jan 06 10:24	16° <b>る</b> 33'56	1.45283 AU		4448 Dec 18 14:44	0°る	
	4448 Jan 15 00:21	0° <b>≈</b>		max. Earth dist.	4448 Dec 19 05:06	0° <b>궁</b> 56'52	1.44795 AU
evening rise	4448 Jan 21 00:53	9° <b>≈</b> 26'17		evening rise	4448 Dec 30 14:57	18° <b>る</b> 43'27	
greatest brilliancy	4448 Jan 31 20:43	26° <b>≈</b> 20'57	-0.8m		4449 Jan 07 00:05	0° <b>≈</b>	
	4448 Feb 03 06:17	0° <b>)</b> €		greatest brilliancy	4449 Jan 14 06:42	10° <b>≈</b> 52'55	-0.6m
evening max el	4448 Feb 13 07:22	13° <b>)</b> €20'50	19°13'57	evening max el	4449 Jan 26 11:33	26° <b>≈</b> 53'33	20°09'33
asc. node	4448 Feb 15 19:54	15° <b>)</b> 35′14		-	4449 Jan 30 02:52	0° <b>∀</b>	
retrograde	4448 Feb 20 07:59	17° <b>∺</b> 21'01		asc. node	4449 Feb 01 16:55	1° <b>¥</b> 13'07	
evening set	4448 Feb 23 18:17	16° <b>)</b> 12′23		retrograde	4449 Feb 03 05:59	1° <b>¥</b> 25'59	
inferior conj	4448 Feb 29 06:51	10° <b>)</b> €22'12	3°23'19	evening set	4449 Feb 07 00:32	0° <b>¥</b> 03'13	
minimum elong	4448 Feb 29 05:12	10° <b>)</b> €27'31	3°23'07	5 · 5 · · · · · · · · · · · · · · · · ·	4449 Feb 07 02:16	30°R≈	
min. Earth dist.	4448 Mar 01 16:39	8° <b>)</b> 33'29	0.66249 AU	inferior conj	4449 Feb 12 09:56	23°≈59'26	3°00'19
morning rise	4448 Mar 05 15:48	4° <b>₩</b> 08'03	0.002.5110	minimum elong	4449 Feb 12 07:38	24°≈07'12	
direct	4448 Mar 11 23:51	1°\(\frac{1}{20}\)'03		min. Earth dist.	4449 Feb 13 05:41	22°≈52'43	0.67254 AU
desc. node	4448 Mar 23 14:11	7° <b>)</b> (47'57		morning rise	4449 Feb 17 14:30	17°≈45'17	0.07254 AO
morning max el	4448 Mar 24 16:35	8° <b>H</b> 53'03	26°12'58	direct	4449 Feb 23 09:46	17 <b>≈</b> 43 17 15° <b>≈</b> 09'37	
morning max ci		0° <b>Υ</b>	20 12 36		4449 Mar 07 01:18	22°≈07'35	24°52'43
	4448 Apr 10 06:14	0° <b>8</b>		morning max el		22 ≈0733 25°≈49'31	24 32 43
	4448 Apr 28 10:06			desc. node	4449 Mar 10 11:14		
morning set	4448 Apr 29 19:35	2° <b>8</b> 34'50	1 25120 ATT		4449 Mar 13 22:31	0° <b>Υ</b> 0° <b>Υ</b>	
max. Earth dist.	4448 May 03 19:07	10° <b>8</b> 10'04	1.35130 AU		4449 Apr 03 13:08		
	444034 00 00 15	200141444	0040107	morning set	4449 Apr 12 03:41	14° <b>Υ</b> 38'19	1.05016.177
superior conj	4448 May 08 20:15	20° <b>8</b> 14'41		max. Earth dist.	4449 Apr 15 18:35		1.37016 AU
minimum elong	4448 May 08 22:55	20° <b>8</b> 28'20	0°48'57		4449 Apr 20 10:46	0°8	
asc. node	4448 May 13 19:10	0° <b>Ⅱ</b> 29'10					
	4448 May 13 13:34	0° <b>Ⅱ</b>		superior conj	4449 Apr 22 06:52	3° <b>8</b> 34'04	
evening rise	4448 May 16 14:22	6° <b>Ⅱ</b> 17'25		minimum elong	4449 Apr 22 11:02	3° <b>8</b> 54'28	1°17'33
	4448 May 29 17:34	0°©		evening rise	4449 Apr 30 17:17	20° <b>8</b> 24'43	
evening max el	4448 Jun 04 03:00		20°33'51	asc. node	4449 Apr 30 16:12	20° <b>8</b> 19'19	
retrograde	4448 Jun 15 06:48	11° <b>©</b> 55'26			4449 May 05 14:54	$\Pi$ °0	
evening set	4448 Jun 17 07:17	11° <b>©</b> 45'25		evening max el	4449 May 17 17:16	18° <b>Ⅱ</b> 02'40	19°27'01
desc. node	4448 Jun 19 13:22	11° <b>©</b> 12'16		retrograde	4449 May 27 03:15	22° <b>Ⅲ</b> 37'51	
inferior conj	4448 Jun 26 13:06	7° <b>©</b> 48'06	-2°03'34	evening set	4449 May 29 02:30	22° <b>Ⅱ</b> 26'42	
minimum elong	4448 Jun 26 07:20	7° <b>9</b> 56'25	2°01'29	desc. node	4449 Jun 06 10:23	18° <b>Ⅱ</b> 31'46	
min. Earth dist.	4448 Jun 27 17:34	7° <b>5</b> 07'01	0.54919 AU	inferior conj	4449 Jun 06 17:11	18° <b>Ⅱ</b> 20'49	-0°05'01
morning rise	4448 Jul 05 06:35	3°540'22		minimum elong	4449 Jun 06 16:58	18° <b>Ⅱ</b> 21'11	0°04'56
direct	4448 Jul 09 01:58	3° <b>5</b> 09'06		transit middle	4449 Jun 06 16:58	18° <b>Ⅱ</b> 21'11	0°04'56
morning max el	4448 Jul 22 09:22	9° <b>©</b> 35'05	23°18'53	transit begin	4449 Jun 06 13:16	18° <b>Ⅱ</b> 27′08	
	4448 Aug 06 06:43	$0^{\circ}\Omega$		transit end	4449 Jun 06 20:39	18° <b>Ⅱ</b> 15'12	
asc. node	4448 Aug 09 18:25	6° <b>Ω</b> 29'58		min. Earth dist.	4449 Jun 09 07:34	16° <b>∏</b> 40′34	0.55847 AU
morning set	4448 Aug 14 17:15	16° <b>Ω</b> 34'15		morning rise	4449 Jun 15 04:39	13° <b>Ⅱ</b> 41′03	
-	4448 Aug 20 23:19	0° m/y		direct	4449 Jun 19 21:18	12° <b>Ⅱ</b> 51'12	
	2	•		morning max el	4449 Jul 03 23:08	19° <b>∏</b> 57'46	25°01'12
superior conj	4448 Aug 21 17:57	1° Mp 40'09	1°36'48	<b>5</b>	4449 Jul 12 12:13	0°छ	
minimum elong	4448 Aug 21 16:16	1° mp 31'11	1°36'40	asc. node	4449 Jul 27 15:28	26°9507'26	
max. Earth dist.	4448 Aug 24 08:19	7° Mp 12'18	1.33567 AU		4449 Jul 29 12:22	0°N	
evening rise	4448 Aug 29 08:53	17° mp 31'03		morning set	4449 Jul 30 04:58	1° <b>Ω</b> 27'34	
CACHILIS LIVE	4440 Aug 29 ua 11	1/ 110.71 (7)					

superior conj	4449 Aug 06 03:33	16° <b>Ω</b> 32'02	1°24'56		4450 Jul 20 23:18	$0^{\circ}\Omega$	
minimum elong	4449 Aug 06 01:20	16° <b>Ω</b> 19'51	1°24'40				
max. Earth dist.	4449 Aug 07 13:23	19° <b>Ω</b> 36′33	1.32633 AU	superior conj	4450 Jul 21 15:04	1° <b>Q</b> 27'03	1°08'21
	4449 Aug 12 10:23	0° <b>™</b>		minimum elong	4450 Jul 21 12:46	1° <b>Ω</b> 14'22	1°07'59
evening rise	4449 Aug 13 07:36	1° <b>m</b> 49'34		max. Earth dist.	4450 Jul 21 23:35	2° <b>Ω</b> 14′00	1.32109 AU
	4449 Aug 28 20:00	0∘ <b>ত</b>		evening rise	4450 Jul 28 12:50	16° <b>Ω</b> 25'31	
desc. node	4449 Sep 02 09:40	6° <b>£</b> 51'12			4450 Aug 04 08:17	0° <b>m</b>	
evening max el	4449 Sep 14 23:35	21° <b>≏</b> 58'14	27°25'03	desc. node	4450 Aug 20 06:41	25° <b>m</b> 21'19	
retrograde	4449 Sep 28 17:41	29° <b>≙</b> 13'20			4450 Aug 24 02:14	0∘ <b>⊽</b>	
evening set	4449 Oct 05 22:07	26° <b>£</b> 43'16		evening max el	4450 Aug 28 04:32	4° <b>£</b> 16'32	26°56'56
min. Earth dist.	4449 Oct 09 13:14	23° <b>≏</b> 44'20	0.62728 AU	retrograde	4450 Sep 11 01:54	11° <b>≏</b> 27'24	
inferior conj	4449 Oct 12 09:04	21° <b>≏</b> 01'51		evening set	4450 Sep 18 01:43	9° <b>ჲ</b> 19'29	
minimum elong	4449 Oct 12 14:46		3°27'39	min. Earth dist.	4450 Sep 21 18:44	6° <b>≏</b> 40'25	0.60748 AU
morning rise	4449 Oct 19 09:02	15° <b>≏</b> 52'47		inferior conj	4450 Sep 24 23:12	3° <b>≏</b> 59'34	
direct	4449 Oct 21 18:20	15° <b>≙</b> 26'41		minimum elong	4450 Sep 25 05:11	3° <b>≏</b> 46'56	4°22'45
asc. node	4449 Oct 23 14:41	15° <b>Ω</b> 42'46			4450 Sep 30 11:43	30°Ŗ <b>₯</b>	
morning max el	4449 Oct 28 11:40	18° <b>≏</b> 53'33	17°50'05	morning rise	4450 Oct 02 10:33	29° Mp 11'36	
	4449 Nov 05 13:54	0°M		direct	4450 Oct 04 18:49	28° m 50'00	
morning set	4449 Nov 13 13:54	13°M52'46		_	4450 Oct 08 21:41	0∘ <b>⊽</b>	
	4449 Nov 22 19:28	0°⊀		asc. node	4450 Oct 10 11:44	1° <b>Ω</b> 04'03	
				morning max el	4450 Oct 12 01:09	2° <b>Ω</b> 26'05	18°02'42
superior conj	4449 Nov 25 01:17	3° <b>∡</b> ¹47'56	0°29'59	morning set	4450 Oct 27 19:30	27° <b>£</b> 21'53	
minimum elong	4449 Nov 25 04:05	3° <b>₹</b> 59'44	0°29'36		4450 Oct 29 05:32	0°M₊	
desc. node	4449 Nov 29 08:59	10° <b>₹</b> 58′24					
max. Earth dist.	4449 Dec 01 21:24	15° <b>₹</b> 04'06	1.43633 AU	superior conj	4450 Nov 06 17:45	15°M30'41	1°03'49
evening rise	4449 Dec 10 01:14	27° <b>₹</b> 57'58		minimum elong	4450 Nov 06 21:50	15°M48'46	1°03'19
	4449 Dec 11 08:49	0°ප		max. Earth dist.	4450 Nov 14 09:11	28°M39'42	1.41933 AU
	4449 Dec 31 20:11	0°≈	21015140		4450 Nov 15 04:29	0° <b>₹</b>	
evening max el	4450 Jan 09 10:17	10°≈27'19	21°17'49	desc. node	4450 Nov 16 05:59	1° 🗷 45'18	
retrograde	4450 Jan 18 03:44	15°≈37'45		evening rise	4450 Nov 19 23:32	7° <b>∡</b> ¹48'25	
asc. node	4450 Jan 19 13:56	15°≈26'45			4450 Dec 04 13:12	0°る	22024127
evening set	4450 Jan 22 08:10	13°≈59'45	2027147	evening max el	4450 Dec 23 03:54	24°る02'52	22°34'37
inferior conj	4450 Jan 27 16:23	7°≈45'06	2°27'47	retrograde	4451 Jan 01 23:39	29° <b>る</b> 53'10	
minimum elong	4450 Jan 27 13:56 4450 Jan 27 23:27	7°≈53'34	2°27'03	asc. node	4451 Jan 06 10:58	28°る08'33 27°る59'12	
min. Earth dist.		7°≈20'37	0.67847 AU	evening set	4451 Jan 06 15:35	21°る39'12 21°る37'01	1047117
morning rise	4450 Feb 01 19:31	1°≈32'36 30°Rる		inferior conj	4451 Jan 12 00:15	21 <b>3</b> 3701 21° <b>3</b> 44'23	1°47'17 1°46'32
direct	4450 Feb 04 00:49 4450 Feb 07 00:17	30 KO 29° <b>ろ</b> 16'26		minimum elong min. Earth dist.	4451 Jan 11 22:08 4451 Jan 11 19:46	21° <b>る</b> 52'32	0.68052 AU
direct	4450 Feb 10 05:15	29 ℃10 20 0°≈		morning rise	4451 Jan 17 04:34	21 <b>3</b> 32 32 15° <b>る</b> 27'40	0.08032 AU
morning max el	4450 Feb 17 10:04		23°24'09	direct	4451 Jan 21 18:35	13° <b>る</b> 2740	
desc. node	4450 Feb 25 08:15	14°≈42'38	23 24 09	morning max el	4451 Jan 30 22:21	13 <b>3</b> 5412	21°56'46
dese. Hode	4450 Mar 08 08:08	0° <b>∀</b>		morning max cr	4451 Feb 09 03:19	0°≈	21 30 40
morning set	4450 Mar 24 12:04	25° <b>)</b> 30'21		desc. node	4451 Feb 12 05:16	0 ~ 4°≈12'56	
morning set	4450 Mar 27 03:19	0° <b>Υ</b>		dese. Hode	4451 Mar 01 12:20	0° <b>)</b> €	
max. Earth dist.	4450 Mar 28 13:48	2° <b>Υ</b> 29'40	1.39172 AU	morning set	4451 Mar 04 16:03	5° <b>₩</b> 01'00	
man. Darvir alov.	110011111 20 15.10	2 (2) (0	1.591,2110	max. Earth dist.	4451 Mar 10 12:22		1.41328 AU
superior conj	4450 Apr 05 03:31	16° <b>Ƴ</b> 09'37	-1°43'40			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
minimum elong	4450 Apr 05 08:22	16° <b>Ƴ</b> 32'15		superior conj	4451 Mar 18 05:28	27° <b>)(</b> 50'04	-2°01'59
Č	4450 Apr 12 09:48	0°8		minimum elong	4451 Mar 18 09:05	28° <b>)</b> €06'04	2°01'48
evening rise	4450 Apr 14 12:11	4° <b>8</b> 03'46		Č	4451 Mar 19 10:47	$_{0}$ $^{\circ}$ $\Upsilon$	
asc. node	4450 Apr 17 13:13	9° <b>8</b> 54'03		evening rise	4451 Mar 28 19:37	17° <b>Y</b> ′06′22	
	4450 Apr 30 11:37	$\Pi^{\circ}0$		asc. node	4451 Apr 04 10:15	29° <b>Y</b> 07'53	
evening max el	4450 Apr 30 18:04	0° <b>Ⅱ</b> 15'58	18°40'17		4451 Apr 04 22:15	0°8	
retrograde	4450 May 08 17:17	4° <b>Ⅱ</b> 10′52		evening max el	4451 Apr 14 02:07	13° <b>8</b> 00'13	18°13'44
evening set	4450 May 10 22:10	3° <b>Ⅱ</b> 53'58		retrograde	4451 Apr 21 02:16	16° <b>8</b> 31'11	
	4450 May 18 00:48	30° <b>₹</b> 8		evening set	4451 Apr 23 13:48	16° <b>8</b> 05'31	
inferior conj	4450 May 18 16:54	29° <b>8</b> 29'51	1°34'07	inferior conj	4451 Apr 30 14:04	11° <b>8</b> 20'45	2°41'48
minimum elong	4450 May 18 20:02	29° <b>8</b> 23'55	1°33'05	minimum elong	4451 Apr 30 17:30	11° <b>8</b> 13'09	2°40'59
min. Earth dist.	4450 May 22 00:43	27° <b>8</b> 00'35	0.57529 AU	min. Earth dist.	4451 May 03 23:32	8° <b>8</b> 22'35	0.59631 AU
desc. node	4450 May 24 07:26	25° <b>8</b> 29'13		morning rise	4451 May 07 18:35	5° <b>8</b> 38'07	
morning rise	4450 May 26 14:40	24° <b>8</b> 15'00		desc. node	4451 May 11 04:29	4° <b>8</b> 08'54	
direct	4450 Jun 01 06:20	22° <b>8</b> 55'47		direct	4451 May 14 04:24	3° <b>8</b> 43'57	
	4450 Jun 15 02:46	$\Pi$ °0		morning max el	4451 May 28 13:09	11° <b>8</b> 34'35	27°29'01
morning max el	4450 Jun 15 15:05	0°Щ29′30	26°29'23		4451 Jun 11 22:57	$\Pi^{\circ}0$	
	4450 Jul 06 10:05	$0$ $\circ$ $\odot$		morning set	4451 Jun 28 23:21	0° <b>©</b> 53'52	
morning set	4450 Jul 14 15:34	16° <b>©</b> 15'55			4451 Jun 28 12:59	$0$ $\circ$ $\odot$	
asc. node	4450 Jul 14 12:29	15° <b>©</b> 59'42		asc. node	4451 Jul 01 09:32	6° <b>5</b> 01'36	

max. Earth dist.	4451 Jul 05 11:11	14° <b>©</b> 53'35	1.31992 AU		4452 Jun 19 01:12	0ಂತ	
superior conj	4451 Jul 06 02:45	16°©19'20	0°47'41	superior conj	4452 Jun 19 12:52	1° <b>©</b> 03'39	0°23'30
minimum elong	4451 Jul 06 00:51	16°908'50	0°47'18	minimum elong	4452 Jun 19 11:48	0°957'50	0°23'15
Č	4451 Jul 12 08:52	$0^{\circ}\Omega$		evening rise	4452 Jun 26 09:46	16° <b>©</b> 00'25	
evening rise	4451 Jul 12 22:14	1°Ω11'14		<i>8</i> 11	4452 Jul 03 08:00	$0^{\circ}\Omega$	
Č	4451 Jul 28 12:32	0° <b>m</b>		evening max el	4452 Jul 21 16:52	26° <b>Ω</b> 31'25	24°30'28
desc. node	4451 Aug 07 03:43	12° m/45'00		desc. node	4452 Jul 24 00:46	28° <b>Ω</b> 36′03	
evening max el	4451 Aug 10 02:05	15° <b>m</b> 45'49	25°56'15		4452 Jul 25 20:44	0° <b>m</b> y	
retrograde	4451 Aug 24 01:18	22° m 53'28		retrograde	4452 Aug 04 13:57	3° <b>m</b> 31'41	
evening set	4451 Aug 30 08:06	21°Mp18'59		evening set	4452 Aug 09 14:16	2° m 35'22	
min. Earth dist.	4451 Sep 03 14:28	18°Mp43'15	0.58675 AU		4452 Aug 14 17:32	$30^{\circ}$ R $\Omega$	
inferior conj	4451 Sep 06 20:02	16°Mp21'32	-5°03'02	min. Earth dist.	4452 Aug 15 03:57	29° <b>Ω</b> 43'57	0.56777 AU
minimum elong	4451 Sep 06 23:48	16°Mp 14'36	5°02'38	inferior conj	4452 Aug 17 21:00	28° <b>Ω</b> 00'09	-5°12'11
morning rise	4451 Sep 14 17:45	11°M 56'50		minimum elong	4452 Aug 17 19:27	28° <b>Ω</b> 02'39	5°12'08
direct	4451 Sep 17 04:11	11°M 37'25		morning rise	4452 Aug 26 03:10	23° <b>Ω</b> 56′39	
morning max el	4451 Sep 25 08:25	15° Mp 32′30	18°35'33	direct	4452 Aug 28 18:44	23° <b>Ω</b> 37'32	
asc. node	4451 Sep 27 08:47	17° <b>m</b> 41'08		morning max el	4452 Sep 07 06:12	28° <b>Ω</b> 03′22	19°29'51
	4451 Oct 05 11:33	0∘ <b>⊽</b>			4452 Sep 09 03:36	O°Mp	
morning set	4451 Oct 11 12:59	11° <b>≏</b> 24'20		asc. node	4452 Sep 13 05:49	5° Mp 18'59	
				morning set	4452 Sep 24 14:39	25° <b>m</b> 50'14	
superior conj	4451 Oct 20 08:03	28° <b>£</b> 17′03	1°26'44		4452 Sep 26 16:17	0∘ <b>⊽</b>	
minimum elong	4451 Oct 20 11:21	28° <b>≏</b> 32'30	1°26'25				
	4451 Oct 21 06:09	0°M₊		superior conj	4452 Oct 02 14:42	11° <b>≏</b> 51'39	
max. Earth dist.	4451 Oct 27 15:43	11°M31'28	1.39907 AU	minimum elong	4452 Oct 02 16:27	12° <b>≏</b> 00'11	1°39'31
evening rise	4451 Oct 31 19:19	18° <b>™</b> 37'40		max. Earth dist.	4452 Oct 08 20:04	23° <b>Ω</b> 43'36	1.37818 AU
desc. node	4451 Nov 03 03:00	22°M28'38			4452 Oct 12 07:17	0° <b>M</b> .	
	4451 Nov 07 19:23	0° <b>∡</b> 7		evening rise	4452 Oct 12 14:12	0°M30'39	
	4451 Nov 28 22:24	0°る		desc. node	4452 Oct 20 00:02	13°M04'42	
evening max el	4451 Dec 05 17:52	7° <b>る</b> 41'05	23°54'34		4452 Oct 31 01:35	0° <b>₹</b>	25011102
retrograde	4451 Dec 16 16:27	14°る07'48		evening max el	4452 Nov 17 06:25	21° <b>x</b> <sup>7</sup> 23'12	25°11'03
evening set	4451 Dec 21 21:12	11°る58'01 9°る26'21		retrograde	4452 Nov 29 05:02	28° 🗷 17'29	
asc. node	4451 Dec 24 08:02	9° <b>ろ</b> 26'21 6° <b>ろ</b> 24'31	0.67891 AU	evening set min. Earth dist.	4452 Dec 04 23:23	25° 🗷 53'20	0.67382 AU
min. Earth dist. inferior conj	4451 Dec 26 16:20 4451 Dec 27 07:44	6 <b>3</b> 2431 5° <b>3</b> 32'13	0.67891 AU 0°59'57	asc. node	4452 Dec 09 10:50 4452 Dec 10 05:05	20° ₹ 53'56 19° ₹ 54'29	0.07382 AU
minimum elong	4451 Dec 27 07:44 4451 Dec 27 06:22	5° <b>る</b> 36'51	0°59'25	inferior conj	4452 Dec 10 03:03	19° <b>x</b> '34' 29' 19° <b>x</b> '28'33	0°06'46
minimum clong	4451 Dec 31 23:49	30°R.∡7	0 39 23	minimum elong	4452 Dec 10 13:01 4452 Dec 10 12:50	19 × 2833 19°× 29'07	0°06'43
morning rise	4452 Jan 01 15:33	29° <b>×1</b> 27'44		transit middle	4452 Dec 10 12:50	19° <b>x</b> 29'07	0°06'43
direct	4452 Jan 05 15:40	27° <b>×</b> <sup>7</sup> 56'58		transit begin	4452 Dec 10 10:19	19° × 37'22	0 00 45
anoct	4452 Jan 10 18:43	0°る		transit end	4452 Dec 10 15:22	19° <b>⋌</b> ¹20'52	
morning max el	4452 Jan 13 17:17	2° <b>る</b> 34'48	20°37'50	morning rise	4452 Dec 16 02:32	13° <b>х</b> 30′59	
desc. node	4452 Jan 30 02:17	24° <b>る</b> 09'45		direct	4452 Dec 19 14:19	12° <b>х</b> 20'43	
	4452 Feb 03 00:26	0° <b>≈</b>		morning max el	4452 Dec 26 20:06	16° <b>∡</b> ¹24'44	19°32'01
morning set	4452 Feb 11 18:58	13° <b>≈</b> 24'25		C	4453 Jan 06 09:03	ರ°0	
max. Earth dist.	4452 Feb 20 17:44	27° <b>≈</b> 34'39	1.43196 AU	greatest brilliancy	4453 Jan 08 23:11	3°₹49'05	-0.7m
	4452 Feb 22 05:34	0° <b>)</b> €		desc. node	4453 Jan 15 23:18	14° <b>る</b> 25'56	
				morning set	4453 Jan 20 15:58	21° <b>る</b> 39'26	
superior conj	4452 Feb 27 07:45	8° <b>)</b> 24′18	-2°08'05		4453 Jan 26 01:01	0° <b>≈</b>	
minimum elong	4452 Feb 27 07:07	8° <b>∺</b> 21'37	2°08'05	max. Earth dist.	4453 Feb 02 06:03	11° <b>≈</b> 19′08	1.44550 AU
evening rise	4452 Mar 10 11:20	29° <b>∺</b> 22'50					
	4452 Mar 10 19:45	$0^{\circ}\Upsilon$		superior conj	4453 Feb 06 08:22	17° <b>≈</b> 50'41	-1°56'37
asc. node	4452 Mar 21 07:19	17° <b>Y</b> 53'48		minimum elong	4453 Feb 06 01:36	17° <b>≈</b> 23'34	1°56'11
evening max el	4452 Mar 27 14:04	26° <b>Y</b> 06'41	18°06'55		4453 Feb 13 19:58	0° <b>∀</b>	
retrograde	4452 Apr 03 02:28	29° <b>Y</b> 29'08		evening rise	4453 Feb 20 06:56	10° <b>) (</b> 44′48	
evening set	4452 Apr 05 20:15	28° <b>Ƴ</b> 52'47			4453 Mar 03 23:08	$0^{\circ}$ Y	
inferior conj	4452 Apr 12 05:50	23° <b>Y</b> 48′01	3°19'54	asc. node	4453 Mar 08 04:22	6° <b>Y</b> ′02'42	
minimum elong	4452 Apr 12 07:56	23° <b>Y</b> 42'42	3°19'38	evening max el	4453 Mar 11 02:50	9° <b>Y</b> 26'55	18°19'00
min. Earth dist.	4452 Apr 15 06:19	20° <b>Y</b> 45'46	0.61813 AU	retrograde	4453 Mar 17 13:21	12° <b>Y</b> 54'34	
morning rise	4452 Apr 18 17:55	17° <b>Y</b> 48'13		evening set	4453 Mar 20 13:11	12°Υ06'18	
direct	4452 Apr 25 13:30	15° <b>Υ</b> 22'55		inferior conj	4453 Mar 26 12:00		3°34'33
desc. node	4452 Apr 27 01:31	15° <b>Υ</b> 29'31	0.50.50.0	minimum elong	4453 Mar 26 12:24		3°34'33
morning max el	4452 May 09 17:26	23° <b>Y</b> 22'07	27~52'07	min. Earth dist.	4453 Mar 28 22:11	3°Υ58'25	0.63818 AU
	4452 May 15 15:31	0° <b>B</b>		morning rise	4453 Apr 01 10:42	0°Υ33'54	
	4452 Jun 04 04:45	0° <b>Π</b>		1:4	4453 Apr 02 04:27	30° <b>₹</b> ₩ 49156	
morning set	4452 Jun 12 02:22	15° <b>Ⅱ</b> 15'28		direct	4453 Apr 08 07:12	27° <b>)</b> 48'56	
asc. node	4452 Jun 17 06:35	26° <b>Ⅱ</b> 08'51	1 22200 ATT	desc. node	4453 Apr 13 22:33	29° <b>¥</b> 23'01 0° <b>Ƴ</b>	
max. Earth dist.	4452 Jun 17 20:17	<i>21</i> щ22′33	1.32290 AU		4453 Apr 15 00:41	UI	

marring may al	4452 Amr 22 01:45	5° <b>Y</b> 46'59	27027157	direct	4454 Mar 22 07:40	10° <b>)</b> 54'36	
morning max el	4453 Apr 22 01:45 4453 May 10 11:23	0° <b>8</b>	21 3131	desc. node	4454 Mar 22 07:49 4454 Mar 31 19:34	10 X 34 36 15° X 17'16	
morning set	4453 May 26 22:07	29° <b>8</b> 11'50		morning max el	4454 Apr 04 11:37	18° <b>H</b> 39'56	26051121
morning set	4453 May 27 07:48	0° <b>Ⅱ</b>		morning max er	4454 Apr 14 01:33	0° <b>Υ</b>	20 3121
max. Earth dist.	•	9° <b>Ⅱ</b> 28'27	1.33030 AU		4454 May 03 11:01	0° <b>8</b>	
max. Earm dist.	4453 May 31 22:48	9 щ2627	1.55050 AU	marning got	4454 May 10 07:29	12° <b>8</b> 33'52	
gumariar agni	4453 Jun 03 19:28	15° <b>Ⅱ</b> 32'44	0002122	morning set max. Earth dist.	•	21° <b>8</b> 03'31	1.34234 AU
superior conj minimum elong	4453 Jun 03 19:39	15° <b>I</b> 33'41		max. Earth dist.	4454 May 14 15:28	21 003 31	1.34234 AU
behind sun begin	4453 Jun 03 14:24	15° <b>I</b> I05'36	0 03 32	superior conj	4454 May 18 20:28	29° <b>8</b> 40'28	0022120
behind sun begin	4453 Jun 04 00:54	15 <b>H</b> 05 36 16° <b>H</b> 01'49		1 0	•	29° <b>8</b> 49'26	
asc. node	4453 Jun 04 00:34 4453 Jun 04 03:37	16°Щ01'49 16°Щ16'23		minimum elong	4454 May 18 22:11	29° <b>0</b> 49′26	0-3207
				4-	4454 May 19 00:13		
evening rise	4453 Jun 10 21:27	0°545'45		asc. node	4454 May 22 00:40	6°Ⅲ20′25 15°Ⅲ21′20	
	4453 Jun 10 12:49	0°©		evening rise	4454 May 26 07:26		
	4453 Jun 27 07:09	0°N	22052120		4454 Jun 02 17:36	0°©	21020115
evening max el	4453 Jul 03 06:02	6° <b>£</b> 54'54	22°53'30	evening max el	4454 Jun 15 01:26	17°529'03	21°20'45
desc. node	4453 Jul 10 21:48	12° <b>Ω</b> 19'54		retrograde	4454 Jun 27 03:26	23°526'02	
retrograde	4453 Jul 16 13:41	13° <b>Ω</b> 33'10		desc. node	4454 Jun 27 18:48	23° <b>©</b> 25'04	
evening set	4453 Jul 20 01:26	13° <b>Ω</b> 06'33		evening set	4454 Jun 29 11:57	23° <b>©</b> 13'17	
min. Earth dist.	4453 Jul 27 14:40		0.55394 AU	inferior conj	4454 Jul 08 20:50	19° <b>©</b> 14'12	
inferior conj	4453 Jul 29 02:46	8° <b>Ω</b> 53'06		minimum elong	4454 Jul 08 12:42	19° <b>©</b> 25'35	3°06'46
minimum elong	4453 Jul 28 19:25	9° <b>Ω</b> 03'43	4°34'29	min. Earth dist.	4454 Jul 09 01:12	19° <b>©</b> 08'05	0.54822 AU
morning rise	4453 Aug 06 15:35	5° <b>Ω</b> 01'56		morning rise	4454 Jul 17 14:09	15° <b>©</b> 18'50	
direct	4453 Aug 09 15:02	4° <b>Ω</b> 41'09		direct	4454 Jul 21 00:47	14° <b>©</b> 53'12	
morning max el	4453 Aug 20 16:08	9° <b>Ω</b> 49'19	20°45'41	morning max el	4454 Aug 02 14:35	20°\$50'21	22°19'47
asc. node	4453 Aug 31 02:52	23° <b>Ω</b> 43'04			4454 Aug 10 07:59	$0^{\circ}\Omega$	
	4453 Sep 03 14:40	O° <b>m</b>		asc. node	4454 Aug 17 23:53	12° <b>Ω</b> 42'27	
morning set	4453 Sep 08 21:40	10° m/31'00		morning set	4454 Aug 24 07:53	25° <b>Ω</b> 20'53	
					4454 Aug 26 12:42	o° my	
superior conj	4453 Sep 16 08:59	25° <b>m</b> 59'58	1°43'58		-		
minimum elong	4453 Sep 16 09:07	26° M 00'42	1°43'58	superior conj	4454 Aug 31 11:18	10° m 31'43	1°41'11
Č	4453 Sep 18 08:15	0∘ <u>⊽</u>		minimum elong	4454 Aug 31 10:10	10° m) 25'44	1°41'08
max. Earth dist.	4453 Sep 21 04:03	5° <b>£</b> 36'26	1.35897 AU	max. Earth dist.	4454 Sep 03 20:07	17° m) 33'53	1.34307 AU
evening rise	4453 Sep 25 04:52	13° <b>≏</b> 18′21		evening rise	4454 Sep 08 11:00	26° m 49'32	
	4453 Oct 04 17:42	0°M		* · · · · · · · · · · · · · · · · · · ·	4454 Sep 10 02:34	0∘ <b>⊽</b>	
desc. node	4453 Oct 06 21:05	3°M28'11		desc. node	4454 Sep 23 18:07	23° <b>≏</b> 32'49	
dese. Hode	4453 Oct 25 23:49	0°×7		dese. Hode	4454 Sep 28 01:30	0°M	
evening max el	4453 Oct 30 19:05	5° <b>∡</b> 105'58	26°16'44	evening max el	4454 Oct 13 07:48	18°M40'31	27°04'03
retrograde	4453 Nov 12 12:32	12° <b>₹</b> 16'31	20 10 44	retrograde	4454 Oct 26 14:18	25°M57'37	27 04 03
evening set	4453 Nov 18 20:20	9° <b>х</b> 41'16		evening set	4454 Nov 02 09:50	23°M16'50	
min. Earth dist.	4453 Nov 23 00:48		0.66523 AU	min. Earth dist.	4454 Nov 06 07:50	19°M28'28	0.65314 AU
		3° <b>₹</b> 22'30				19 1162828 17°M09'05	
inferior conj	4453 Nov 24 14:13			inferior conj	4454 Nov 08 09:10		
minimum elong	4453 Nov 24 15:36	3° ₹ 18'14	0-30-33	minimum elong	4454 Nov 08 12:21		1°51'07
asc. node	4453 Nov 27 02:06	0° <b>₹</b> 27'05		asc. node	4454 Nov 13 23:08	11°M56'22	
	4453 Nov 27 12:22	30°RM		morning rise	4454 Nov 14 15:49	11°M33'49	
morning rise	4453 Nov 30 11:25	27°M34'32		direct	4454 Nov 17 09:00	10°M54'03	10000103
direct	4453 Dec 03 12:49	26°M41'24		morning max el	4454 Nov 23 20:41	14°M22'39	18°08'03
	4453 Dec 09 20:45	0° <b>√</b> ¹	10041145		4454 Dec 05 00:54	0° <b>⊼</b>	
morning max el	4453 Dec 10 05:59	0° <b>₹</b> 22'36	18°41'45	morning set	4454 Dec 12 04:59	11° <b>х</b> 44'03	
	4453 Dec 30 17:15	0°る <b>ろ</b> -		desc. node	4454 Dec 20 17:22	25° <b>₹</b> 35'45	
morning set	4453 Dec 31 07:48	0°る57'27			4454 Dec 23 11:20	0°る	
desc. node	4454 Jan 02 20:21	4° <b>る</b> 56'14				<b>-</b>	
max. Earth dist.	4454 Jan 15 23:46	25° <b>6</b> 35'02	1.45232 AU	superior conj	4454 Dec 26 18:58	5° <b>る</b> 16'21	
				minimum elong	4454 Dec 26 13:50	4° <b>ප</b> 56'05	0°40'15
superior conj	4454 Jan 16 14:06	26° <b>る</b> 31'19		max. Earth dist.	4454 Dec 29 19:35		1.45168 AU
minimum elong	4454 Jan 16 04:52	25° <b>る</b> 55'02	1°24'38		4455 Jan 11 14:40	0° <b>≈</b>	
	4454 Jan 18 19:15	0° <b>≈</b>		evening rise	4455 Jan 12 02:31	0° <b>≈</b> 45'59	
evening rise	4454 Feb 01 03:31	21° <b>≈</b> 09'59		greatest brilliancy	4455 Jan 24 20:58	20° <b>≈</b> 23′08	-0.7m
	4454 Feb 06 15:41	0° <b>∀</b>			4455 Jan 31 13:07	0° <b>∀</b>	
greatest brilliancy	4454 Feb 08 18:40	3° <b>)</b> €23'40	-0.9m	evening max el	4455 Feb 05 20:52	6° <b>)</b> €26′25	19°35'48
evening max el	4454 Feb 22 13:49	22° <b>)</b> 55′07	18°49'03	asc. node	4455 Feb 09 22:26	9° <b>)</b> 43′26	
asc. node	4454 Feb 23 01:24	23° <b>)</b> €23'49		retrograde	4455 Feb 13 04:09	10° <b>)</b> 39′10	
retrograde	4454 Mar 01 06:57	26° <b>)</b> 40′04		evening set	4455 Feb 16 17:52	9° <b>)</b> 24′26	
evening set	4454 Mar 04 13:16	25° <b>)</b> 38′57		inferior conj	4455 Feb 22 04:48	3° <b>¥</b> 27'58	3°14'49
inferior conj	4454 Mar 10 04:44	19° <b>)</b> 57′52	3°31'26	minimum elong	4455 Feb 22 02:48	3° <b>)</b> €34'31	3°14'28
minimum elong	4454 Mar 10 03:42	20° <b>)</b> €01'05	3°31'22	min. Earth dist.	4455 Feb 23 08:21	1° <b>)</b> 57'14	0.66732 AU
min. Earth dist.	4454 Mar 11 23:13	17° <b>)</b> 46'41	0.65482 AU		4455 Feb 24 21:23	30° <b>R</b> ≈	
morning rise	4454 Mar 15 17:42	13° <b>)</b> 45'03		morning rise	4455 Feb 27 11:31	27°≈13'46	

direct	4455 Mar 05 14:25	24°≈30'13		inferior conj	4456 Feb 06 09:36	17° <b>≈</b> 09'15	2017122
direct	4455 Mar 15 23:47	24 ≈30 13 0° <b>H</b>		minimum elong	4456 Feb 06 07:10	17 ≈0913 17°≈17'33	2°46'56
morning max el	4455 Mar 17 21:05	0 <b>X</b> 1° <b>¥</b> 49'24	25940!21	min. Earth dist.	4456 Feb 06 07:10 4456 Feb 06 23:44	17 ≈1733 16°≈20'51	0.67557 AU
desc. node	4455 Mar 18 16:35	2° <b></b> <del>X</del> 39'34	23 40 31	morning rise	4456 Feb 11 13:13	10 ≈20 31 10°≈55'28	0.07337 AU
desc. node	4455 Apr 08 03:52	2 <b>γ</b> (3934)		direct		8°≈27'44	
	•	0° γ 25° <b>Υ</b> 09'26			4456 Feb 17 02:17		24915124
morning set	4455 Apr 23 02:15			morning max el	4456 Feb 28 05:45	15°≈07'08	24°15′24
E d F	4455 Apr 25 16:57	0°8	1 25002 411	desc. node	4456 Mar 04 13:38	21°≈05'05	
max. Earth dist.	4455 Apr 26 20:49	2°011'4/	1.35892 AU		4456 Mar 11 10:26	0° <b>∀</b>	
					4456 Mar 31 02:09	0° <b>Υ</b>	
superior conj	4455 May 02 13:12	13° <b>8</b> 19'03		morning set	4456 Apr 04 01:00	6° <b>Y</b> 44'15	
minimum elong	4455 May 02 16:33	13° <b>8</b> 35'54	1°01'16	max. Earth dist.	4456 Apr 07 17:39	13° <b>Y</b> 16′01	1.37916 AU
asc. node	4455 May 08 21:42	26° <b>8</b> 16'31				••	
evening rise	4455 May 10 13:35	29° <b>8</b> 40'28		superior conj	4456 Apr 14 18:21	26° <b>Y</b> ′20′20	
	4455 May 10 17:26	$\Pi^{\circ}0$		minimum elong	4456 Apr 14 22:58	26° <b>Ƴ</b> 42'29	1°28'59
evening max el	4455 May 28 08:23	28° <b>Ⅱ</b> 37'53	20°02'57		4456 Apr 16 15:51	0° <b>8</b>	
	4455 May 29 20:33	$0$ $\circ$ $\odot$		evening rise	4456 Apr 23 13:29	13° <b>8</b> 36'22	
retrograde	4455 Jun 07 18:08	3°542'44		asc. node	4456 Apr 24 18:44	16° <b>8</b> 00'24	
evening set	4455 Jun 09 16:42	3° <b>©</b> 32'54			4456 May 02 08:34	$\Pi$ $\circ 0$	
desc. node	4455 Jun 14 15:48	1° <b>©</b> 50'02		evening max el	4456 May 10 03:22	10° <b>Ⅱ</b> 28'50	19°04'36
	4455 Jun 17 23:13	30° <b>Ŗ</b> Ⅱ		retrograde	4456 May 18 21:36	14° <b>∏</b> 45′26	
inferior conj	4455 Jun 18 17:10	29° <b>Ⅱ</b> 33'09	-1°12'26	evening set	4456 May 20 22:36	14° <b>Ⅱ</b> 32'27	
minimum elong	4455 Jun 18 13:47	29° <b>Ⅱ</b> 38'14	1°11'10	inferior conj	4456 May 29 04:55	10° <b>Ⅱ</b> 19'28	0°40'37
min. Earth dist.	4455 Jun 20 13:31	28° <b>Ⅲ</b> 26'40	0.55202 AU	minimum elong	4456 May 29 06:32	10° <b>Ⅱ</b> 16'42	0°40'01
morning rise	4455 Jun 27 09:11	25° <b>Ⅱ</b> 13'22		desc. node	4456 May 31 12:50	8° <b>Ⅱ</b> 43'07	
direct	4455 Jul 01 12:49	24° <b>Ⅲ</b> 35'50		min. Earth dist.	4456 Jun 01 04:52	8° <b>Ⅱ</b> 16'16	0.56480 AU
	4455 Jul 13 18:11	0°ಅ		morning rise	4456 Jun 06 11:13	5° <b>Ⅱ</b> 23'58	
morning max el	4455 Jul 15 05:49	1°520'03	24°03'17	direct	4456 Jun 11 13:36	4° <b>Ⅱ</b> 22'52	
C	4455 Aug 03 18:52	$0^{\circ}\Omega$		morning max el	4456 Jun 25 20:02	11° <b>Ⅱ</b> 43'21	25°41'35
asc. node	4455 Aug 04 20:56	2° <b>Ω</b> 08'15		C	4456 Jul 09 22:19	0ം <b>ഉ</b>	
morning set	4455 Aug 08 19:33	10° <b>Ω</b> 14'43		asc. node	4456 Jul 21 17:58	21° <b>©</b> 52'29	
				morning set	4456 Jul 23 06:58	25°906'21	
superior conj	4455 Aug 15 18:55	25° <b>Ω</b> 18'37	1°32'23	3	4456 Jul 25 13:45	$0^{\circ}\Omega$	
minimum elong	4455 Aug 15 16:57	25° <b>Ω</b> 07'59	1°32'12				
8	4455 Aug 17 23:10	0° m		superior conj	4456 Jul 30 05:34	10°Ω12'30	1°18'28
max. Earth dist.	4455 Aug 17 20:54	29° <b>Ω</b> 47'54	1.33115 AU	minimum elong	4456 Jul 30 03:15	9°Ω59'47	
evening rise	4455 Aug 23 04:37	10° m 53'36	1.55115 710	max. Earth dist.	4456 Jul 31 04:23	12° <b>Ω</b> 17'43	1.32347 AU
evening rise	4455 Sep 02 09:36	0ಂ <b>ಹ</b>		evening rise	4456 Aug 06 06:23	25° <b>Ω</b> 20'05	1.52547 710
desc. node	4455 Sep 10 15:06	ა <b>_</b> 13° <b>ჲ</b> 10'40		evening rise	4456 Aug 08 13:12	0° <b>m</b>	
desc. Hode	4455 Sep 23 20:39	0° <b>M</b>			4456 Aug 25 23:08	0∘ <del>⊽</del>	
evening max el	4455 Sep 25 19:12	1°M55'28	27°26'03	desc. node	4456 Aug 27 12:07	0 <b>=</b> 2° <b>ჲ</b> 09'50	
retrograde	4455 Oct 09 10:01	9°ML12'50	27 20 03	evening max el	4456 Sep 07 03:07	2 <b>⊆</b> 0930 14° <b>⊆</b> 37'25	27017115
Č	4455 Oct 16 13:12	6°M35'16		•	4456 Sep 20 23:06	21° <b>£</b> 51'38	27 1713
evening set min. Earth dist.	4455 Oct 20 05:51	3°M20'20	0.63762 AU	retrograde		21 <b>2</b> 3138 19° <b>2</b> 29'08	
				evening set min. Earth dist.	4456 Sep 28 02:48		0.61905 AU
inferior conj	4455 Oct 22 19:22	0°M43'04 0°M30'24		inferior conj	4456 Oct 01 17:34	16° <b>△</b> 40′28 13° <b>△</b> 56′21	
minimum elong	4455 Oct 23 00:19		2 32 32	3	4456 Oct 04 17:48		
	4455 Oct 23 12:17	30°R <b>≏</b>		minimum elong	4456 Oct 04 23:51	13° <b>£</b> 42'35	3-32-11
morning rise	4455 Oct 29 12:50	25° <b>£</b> 23'47		morning rise	4456 Oct 11 22:43	8° <b>£</b> 56'11	
asc. node	4455 Oct 31 20:09	24° <b>£</b> 53'52		direct	4456 Oct 14 07:03	8° <b>£</b> 32'27	
direct	4455 Nov 01 00:12	24° <b>£</b> 53'43	15051122	asc. node	4456 Oct 17 17:12	9° <b>£</b> 24'42	15052105
morning max el	4455 Nov 07 13:26	28° <b>£</b> 18'42	1/*51*32	morning max el	4456 Oct 21 05:05	12° <b>£</b> 02'19	1/53305
	4455 Nov 09 02:51	0°M			4456 Nov 02 06:02	0°M	
morning set	4455 Nov 24 05:03	23°M48'54		morning set	4456 Nov 06 01:35	6°M51′57	
	4455 Nov 27 19:29	0° <b>∡</b>					
		=		superior conj	4456 Nov 16 19:58	25°M58'28	0°45'39
superior conj	4455 Dec 06 18:16	14° <b>×</b> 758'49	0°05'51	minimum elong	4456 Nov 16 23:39	26° <b>M</b> ₁4'19	0°45'09
minimum elong	4455 Dec 06 18:54	15° <b>∡</b> *01'27	0°05'46		4456 Nov 19 04:37	0° <b>∡</b> ¹	
behind sun begin	4455 Dec 06 09:42	14° 🗷 23'42		desc. node	4456 Nov 23 11:24	7° <b>₹</b> '08'12	
behind sun end	4455 Dec 07 04:07	15° <b>∡</b> ³39'06		max. Earth dist.	4456 Nov 24 03:49	8° <b>≯</b> 15'24	1.42964 AU
desc. node	4455 Dec 07 14:24	16° <b>∡</b> 21′02		evening rise	4456 Dec 01 02:41	19° <b>∡</b> 22'39	
max. Earth dist.	4455 Dec 12 13:47	24° <b>∡</b> 21'55	1.44378 AU		4456 Dec 08 00:29	0°₹	
	4455 Dec 16 03:16	0°₹			4456 Dec 29 13:38	0° <b>≈</b>	
evening rise	4455 Dec 22 13:04	9° <b>る</b> 57'25		evening max el	4457 Jan 01 19:02	3° <b>≈</b> 33'10	21°49'43
	4456 Jan 04 20:11	0° <b>≈</b>		retrograde	4457 Jan 10 23:42	9° <b>≈</b> 01'11	
evening max el	4456 Jan 19 22:40	19° <b>≈</b> 59'06	20°37'07	asc. node	4457 Jan 13 16:28	8° <b>≈</b> 22'05	
asc. node	4456 Jan 27 19:26	24° <b>≈</b> 47′06		evening set	4457 Jan 15 08:43	7° <b>≈</b> 16'37	
retrograde	4456 Jan 28 02:24	24° <b>≈</b> 47'34		inferior conj	4457 Jan 20 16:56	0° <b>≈</b> 58'10	2°11'31
evening set	4456 Feb 01 00:56	23° <b>≈</b> 18′20		minimum elong	4457 Jan 20 14:34	1° <b>≈</b> 06′24	2°10'45

min. Earth dist.	4457 Jan 20 19:01	0°≈50'55	0.67979 AU	inferior conj	4458 Jan 05 00:52	14° <b>る</b> 51'54	1°28'00
iiiii. Lattii dist.	4457 Jan 21 09:43	0 ~3033 30°Rる	0.01717 AC	minimum elong	4458 Jan 04 23:01	14°る58'17	1°27'18
morning rise	4457 Jan 25 20:15	24° <b>♂</b> 46'33		morning rise	4458 Jan 10 06:23	8° <b>ਰ</b> 44'13	1 27 10
direct	4457 Jan 30 18:39	22° <b>る</b> 39'47		direct	4458 Jan 14 14:26	7° <b>る</b> 00'19	
morning max el	4457 Feb 09 15:36	28° <b>පි</b> 30'26	22°46'13	morning max el	4458 Jan 23 06:14	12° <b>ろ</b> 02'11	21°21'42
morning max er	4457 Feb 11 01:54	0°≈	22 4015	desc. node	4458 Feb 06 07:41	29° <b>ろ</b> 58'16	21 21 42
desc. node	4457 Feb 19 10:40	10°≈15'38		dese. Hode	4458 Feb 06 08:10	0°≈	
dese. node	4457 Mar 05 03:45	0° <b>∀</b>		morning set	4458 Feb 23 13:43	26°≈00'06	
morning set	4457 Mar 15 21:44	17° <b>)</b> 02'48			4458 Feb 26 02:03	0° <b>)</b> €	
max. Earth dist.	4457 Mar 20 13:03	24° <b>)</b> 50'19	1.40102 AU	max. Earth dist.	4458 Mar 02 14:05	7° <b>₩</b> 18'20	1.42176 AU
man. Darm dist.	4457 Mar 23 12:35	0°Υ	10102110	man. Darun dige.	1100111111 02 11100	, ,(1020	12170110
				superior conj	4458 Mar 10 00:10	19° <b>)</b> 47′59	-2°06'24
superior conj	4457 Mar 28 07:42	8° <b>Y</b> 34'15	-1°52'35	minimum elong	4458 Mar 10 02:22	19° <b>¥</b> 57'30	2°06'21
minimum elong	4457 Mar 28 12:21				4458 Mar 15 19:35	$0^{\circ}\mathbf{\Upsilon}$	
evening rise	4457 Apr 07 04:01	27° <b>Ƴ</b> 01'15		evening rise	4458 Mar 21 05:17	9° <b>Y</b> 45'05	
8	4457 Apr 08 17:43	0°8		asc. node	4458 Mar 29 12:50	24° <b>Ƴ</b> 30′06	
asc. node	4457 Apr 11 15:46	5° <b>8</b> 27'14			4458 Apr 02 00:31	0°8	
evening max el	4457 Apr 23 07:48	22° <b>8</b> 57'17	18°26'36	evening max el	4458 Apr 06 18:00	5° <b>8</b> 52'29	18°08'30
retrograde	4457 Apr 30 19:45	26° <b>8</b> 39'47		retrograde	4458 Apr 13 11:38	9° <b>8</b> 17'37	
evening set	4457 May 03 03:28	26° <b>8</b> 19'31		evening set	4458 Apr 16 02:02	8° <b>8</b> 47'27	
inferior conj	4457 May 10 14:00	21° <b>8</b> 47'05	2°06'42	inferior conj	4458 Apr 22 19:32	3° <b>8</b> 54'04	3°01'13
minimum elong	4457 May 10 17:34	21° <b>8</b> 39'52	2°05'41	minimum elong	4458 Apr 22 22:32	3° <b>8</b> 47'04	3°00'39
min. Earth dist.	4457 May 14 00:25	19° <b>8</b> 02'16	0.58391 AU	min. Earth dist.	4458 Apr 26 02:11	0° <b>8</b> 51'19	0.60574 AU
morning rise	4457 May 18 04:33	16° <b>8</b> 19'04			4458 Apr 27 01:59	30° <b>₹</b> Υ	
desc. node	4457 May 18 09:53	16° <b>8</b> 12'20		morning rise	4458 Apr 29 16:50	28° <b>Ƴ</b> 03'18	
direct	4457 May 24 04:59	14° <b>8</b> 44'45		desc. node	4458 May 05 06:55	25° <b>Ƴ</b> 57'59	
morning max el	4457 Jun 07 14:20	22° <b>8</b> 27'29	26°58'51	direct	4458 May 06 08:09	25° <b>Ƴ</b> 54'49	
Č	4457 Jun 14 06:30	0°II			4458 May 16 06:40	0°8	
	4457 Jul 02 20:03	0ಂತಾ		morning max el	4458 May 20 14:54	3° <b>8</b> 49'20	27°43'26
morning set	4457 Jul 07 16:35	9° <b>©</b> 50'56		C	4458 Jun 08 22:18	$0^{\circ}\Pi$	
asc. node	4457 Jul 08 15:02	11° <b>©</b> 49'35		morning set	4458 Jun 21 22:33	24° <b>Ⅲ</b> 22'09	
				S	4458 Jun 24 14:48	0ංම	
superior conj	4457 Jul 14 17:23	25° <b>©</b> 07'18	1°00'04	asc. node	4458 Jun 25 12:05	1°954'05	
minimum elong	4457 Jul 14 15:12	24° <b>©</b> 55'13	0°59'40	max. Earth dist.	4458 Jun 28 02:27	7°533'04	1.32072 AU
max. Earth dist.	4457 Jul 14 15:28	24°956'40	1.32004 AU				
	4457 Jul 16 22:28	$0^{\circ}\Omega$		superior conj	4458 Jun 29 04:36	9° <b>©</b> 56'35	0°37'49
evening rise	4457 Jul 21 13:41	10° <b>Ω</b> 01'11		minimum elong	4458 Jun 29 03:00	9° <b>5</b> 47'46	0°37'28
-	4457 Jul 31 20:23	0° <b>m</b>		evening rise	4458 Jul 06 00:13	24°9549'03	
desc. node	4457 Aug 14 09:09	20° <b>m</b> 14'22			4458 Jul 08 11:36	$0^{\circ}\Omega$	
evening max el	4457 Aug 20 05:11	26° Mp 35'29	26°34'57		4458 Jul 26 03:47	0° <b>m</b> y	
	4457 Aug 24 07:00	0∘ <b>⊽</b>		desc. node	4458 Aug 01 06:11	7° <b>m</b> 02'04	
retrograde	4457 Sep 03 03:58	3° <b>£</b> 45'15		evening max el	4458 Aug 01 23:45	7° <b>m</b> 44'55	25°22'10
evening set	4457 Sep 09 21:58	1° <b>≏</b> 50'39		retrograde	4458 Aug 15 22:41	14° <b>m</b> 49'32	
	4457 Sep 12 18:44	30°R, <b>™</b> )		evening set	4458 Aug 21 18:00	13° <b>m</b> 31'42	
min. Earth dist.	4457 Sep 13 18:57	29° <b>m</b> 14'58	0.59860 AU	min. Earth dist.	4458 Aug 26 11:33	10° <b>m</b> 51'23	0.57828 AU
inferior conj	4457 Sep 17 00:59	26° <b>m</b> 39'59	-4°43'18	inferior conj	4458 Aug 29 13:32	8° <b>m</b> 44'05	-5°11'33
minimum elong	4457 Sep 17 06:24	26° <b>m</b> 29'10	4°42'20	minimum elong	4458 Aug 29 15:23	8° <b>m</b> 40'54	5°11'28
morning rise	4457 Sep 24 16:56	22°Mp01'36		morning rise	4458 Sep 06 15:02	4° <b>m</b> , 28′39	
direct	4457 Sep 27 01:34	21° <b>m</b> 41'17		direct	4458 Sep 09 03:29	4° <b>™</b> 09'25	
morning max el	4457 Oct 04 16:18	25° <b>m</b> 24'36	18°14'04	morning max el	4458 Sep 17 19:46	8° <b>M</b> y 16'13	18°56'00
asc. node	4457 Oct 04 14:15	25° <b>m</b> 19'40		asc. node	4458 Sep 21 11:18	12° <b>m</b> 24'00	
	4457 Oct 08 13:45	0° <b>⊽</b>			4458 Oct 01 22:38	0∘ <b>ত</b>	
morning set	4457 Oct 20 12:46	20° <b>≏</b> 36'32		morning set	4458 Oct 04 10:09	4° <b>≙</b> 50'13	
	4457 Oct 25 12:10	0°M					
				superior conj	4458 Oct 12 20:12	21° <b>≏</b> 18′08	1°33'20
superior conj	4457 Oct 29 22:20	8° <b>M</b> 09'41	1°14'51	minimum elong	4458 Oct 12 22:53	21° <b>≙</b> 30'57	1°33'08
minimum elong	4457 Oct 30 02:16	8°M27'27	1°14'23		4458 Oct 17 11:46	0° <b>M</b>	
max. Earth dist.	4457 Nov 06 12:55	21°M31'42	1.41100 AU	max. Earth dist.	4458 Oct 19 18:24	4°M06'54	1.39013 AU
desc. node	4457 Nov 10 08:25	27°M54'03		evening rise	4458 Oct 23 15:19	10°M53'38	
evening rise	4457 Nov 11 09:30	29°M36'42		desc. node	4458 Oct 28 05:28	18°MJ35'02	
	4457 Nov 11 15:14	0° <b>∡</b>			4458 Nov 04 11:00	0° <b>∡</b> ¹	
	4457 Dec 01 13:19	0° <b>ප</b>			4458 Nov 27 04:00	0°ප	
evening max el	4457 Dec 15 10:59	17° <b>る</b> 10'08	23°08'42	evening max el	4458 Nov 28 00:18	0° <b>る</b> 51'11	24°27'59
retrograde	4457 Dec 25 18:22	23° <b>る</b> 16'29		retrograde	4458 Dec 09 09:20	7° <b>る</b> 30'08	
evening set	4457 Dec 30 15:33	21° <b>る</b> 15'58		evening set	4458 Dec 14 19:54	5°る14'01	
asc. node	4457 Dec 31 13:31	20° <b>る</b> 25'48		asc. node	4458 Dec 18 10:33	1°る17'25	
min. Earth dist.	4458 Jan 04 15:48	15° <b>る</b> 23'10	0.68029 AU		4458 Dec 19 10:12	30°₽ <b>ᡘ</b>	

min. Earth dist.	4458 Dec 19 11:41	29° <b>₹</b> 55'03	0.67721 AU	inferior conj	4459 Dec 04 11:23	12° <b>∡</b> 743'52	-0°17'16
inferior conj	4458 Dec 20 07:38	28° <b>₹</b> '48'20	0°38'06	minimum elong	4459 Dec 04 11:50	12° <b>∡</b> °42′27	0°17'04
minimum elong	4458 Dec 20 06:44	28° <b>₹</b> 51'23	0°37'44	asc. node	4459 Dec 05 07:34	11° <b>∡</b> ¹40′05	
morning rise	4458 Dec 25 17:38	22° <b>∡</b> ⁴46′39		morning rise	4459 Dec 10 03:58	6° <b>∡</b> ¹50'22	
direct	4458 Dec 29 12:24	21° <b>х</b> 24'49		direct	4459 Dec 13 11:04	5° <b>∡</b> ¹47'55	
morning max el	4459 Jan 06 04:30	25° <b>х</b> 46′22	20°08'06	morning max el	4459 Dec 20 10:37	9° <b>∡</b> ¹40'43	19°08'46
	4459 Jan 09 22:42	0°ರ			4460 Jan 04 07:16	0°₹	
desc. node	4459 Jan 24 04:43	20° <b>る</b> 04'34		desc. node	4460 Jan 11 01:44	10° <b>る</b> 27'28	
	4459 Jan 30 17:42	0° <b>≈</b>		morning set	4460 Jan 12 13:40	12° <b>♂</b> 47'04	
morning set	4459 Feb 02 11:05	4°≈11'25			4460 Jan 23 14:31	0° <b>≈</b>	
max. Earth dist.	4459 Feb 12 23:17	20° <b>≈</b> 41'34	1.43855 AU	max. Earth dist.	4460 Jan 26 14:30	4° <b>≈</b> 42'45	1.44930 AU
superior conj	4459 Feb 18 15:30	29° <b>≈</b> 53'13	-2°05'37	superior conj	4460 Jan 29 06:30	8° <b>≈</b> 55'24	-1°45'42
minimum elong	4459 Feb 18 12:15	29° <b>≈</b> 39'52		minimum elong	4460 Jan 28 21:52	8° <b>≈</b> 21'14	
· ·	4459 Feb 18 17:10	0° <b>∀</b>		Č	4460 Feb 11 08:31	0° <b>₩</b>	
evening rise	4459 Mar 03 13:00	21° <b>)</b> 39′46		evening rise	4460 Feb 12 23:03	2° <b>)</b> 38′04	
	4459 Mar 08 08:56	$0^{\circ}\mathbf{\Upsilon}$		_	4460 Mar 01 13:37	$0$ ° $\Upsilon$	
asc. node	4459 Mar 16 09:52	13° <b>Ƴ</b> 01'31		asc. node	4460 Mar 02 06:53	0° <b>Υ</b> 51'43	
evening max el	4459 Mar 21 06:39	19° <b>Ƴ</b> 05'46	18°09'41	evening max el	4460 Mar 03 18:52	2° <b>Y</b> 29'51	18°29'32
retrograde	4459 Mar 27 17:01	22° <b>Y</b> 28'48		retrograde	4460 Mar 10 07:21	6° <b>Ƴ</b> 03'49	
evening set	4459 Mar 30 13:26	21° <b>Y</b> 47'21		evening set	4460 Mar 13 09:46	5° <b>Ƴ</b> 10′15	
inferior conj	4459 Apr 05 17:57	16° <b>Ƴ</b> 34'00	3°28'37		4460 Mar 18 21:51	30° <b>₹</b> ₩	
minimum elong	4459 Apr 05 19:19	16° <b>Ƴ</b> 30′21	3°28'29	inferior conj	4460 Mar 19 05:04	29° <b>∺</b> 38'44	3°35'07
min. Earth dist.	4459 Apr 08 12:34	13° <b>Ƴ</b> 37′28	0.62707 AU	minimum elong	4460 Mar 19 04:48	29° <b>∺</b> 39'31	3°35'06
morning rise	4459 Apr 11 23:55	10° <b>Ƴ</b> 29'41		min. Earth dist.	4460 Mar 21 08:31	27° <b>₩</b> 07'14	0.64573 AU
direct	4459 Apr 18 20:49	7° <b>Ƴ</b> 54'44		morning rise	4460 Mar 24 23:09	23° <b>∺</b> 27'32	
desc. node	4459 Apr 22 03:57	8° <b>Y</b> 26'48		direct	4460 Mar 31 17:31	20° <b>)</b> 38′44	
morning max el	4459 May 02 21:17		27°50'27	desc. node	4460 Apr 08 00:58	23° <b>∺</b> 16′04	
	4459 May 14 10:50	$9^{\circ}$ 8		morning max el	4460 Apr 14 06:52	28° <b>∺</b> 33'26	27°21'41
	4459 Jun 01 13:59	$\Pi^{\circ}0$			4460 Apr 15 16:17	$0^{\circ}$ Y	
morning set	4459 Jun 05 22:47	8° <b>∏</b> 33'43			4460 May 07 06:09	0° <b>8</b>	
max. Earth dist.	4459 Jun 11 09:26	19° <b>∏</b> 54′26	1.32558 AU	morning set	4460 May 19 14:37	22° <b>8</b> 17'32	
asc. node	4459 Jun 12 09:08	22° <b>Ⅱ</b> 01'46			4460 May 23 11:06	0°II	
				max. Earth dist.	4460 May 24 08:17	1° <b>Ⅱ</b> 48'43	1.33484 AU
superior conj	4459 Jun 13 13:26	24° <b>II</b> 34'43	0°12'19		446034 05 15 55	00 <b>T</b> 5515 6	001.5141
minimum elong	4459 Jun 13 12:50	24° <b>II</b> 31'33	0°12'10	superior conj	4460 May 27 17:57	8°II55'56	
behind sun begin	4459 Jun 13 09:27	24° <b>I</b> I13'11		minimum elong	4460 May 27 18:45	9° <b>I</b> 100'12	0°15'30
behind sun end	4459 Jun 13 16:14	24° <b>Ⅱ</b> 49'56		behind sun begin	4460 May 27 17:24	8°II53'02	
	4459 Jun 16 01:12	0°95		behind sun end	4460 May 27 20:06	9° <b>Ⅱ</b> 07'22	
evening rise	4459 Jun 20 12:02 4459 Jun 30 23:52	9° <b>©</b> 37'14 0° <b>Ω</b>		asc. node evening rise	4460 May 29 06:11 4460 Jun 03 23:16	12° <b>Ⅱ</b> 08'40 24° <b>Ⅱ</b> 19'40	
evening max el	4459 Jul 14 12:49	18° <b>Ω</b> 16'33	22040120	evening rise	4460 Jun 06 16:56	0°95	
desc. node	4459 Jul 19 03:13	22°Ω03'08	23 49 20	evening max el	4460 Jun 25 03:33	28° <b>©</b> 40'44	22012/41
retrograde	4459 Jul 28 05:34	25° <b>Ω</b> 09'39		evening max er	4460 Jun 26 13:50	28 <b>3</b> 40 44 0° <b>Ω</b>	22 1241
evening set	4459 Aug 01 14:33	24° <b>Ω</b> 27'29		desc. node	4460 Jul 05 00:13	4° <b>Ω</b> 43'17	
min. Earth dist.	4459 Aug 07 22:58		0.56107 AU	retrograde	4460 Jul 08 00:49	5° <b>Ω</b> 04'30	
inferior conj	4459 Aug 10 05:48	20°Ω01'59		evening set	4460 Jul 10 22:53	4° <b>Ω</b> 45'35	
minimum elong	4459 Aug 10 01:31	20°Ω08'30		min. Earth dist.	4460 Jul 19 09:26		0.55032 AU
morning rise	4459 Aug 18 15:01	16° <b>Ω</b> 05'40		inferior conj	4460 Jul 20 05:17	0° <b>Ω</b> 39'17	
direct	4459 Aug 21 09:50	15° <b>Ω</b> 46′01		minimum elong	4460 Jul 19 20:45	0° <b>Ω</b> 51'19	
morning max el	4459 Aug 31 12:35	20° <b>£</b> 28′02	19°59'44	<b>3</b>	4460 Jul 21 09:18	30° <b></b> ₹©	
asc. node	4459 Sep 08 08:21	0° <b>m</b> 22'47		morning rise	4460 Jul 28 20:27	26°5948'56	
	4459 Sep 08 02:32	0° m/y		direct	4460 Jul 31 23:47	26°526'53	
morning set	4459 Sep 18 14:21	19° <b>m</b> 23'08			4460 Aug 10 10:31	$0^{\circ}\Omega$	
-	4459 Sep 23 19:09	0∘ <b>ত</b>		morning max el	4460 Aug 12 17:34	1° <b>Ω</b> 55'33	21°23'58
				asc. node	4460 Aug 25 05:23	19° <b>Ω</b> 03'35	
superior conj	4459 Sep 26 08:16	5° <b>ഫ</b> 08'25	1°42'25		4460 Aug 30 22:29	0° <b>m</b>	
minimum elong	4459 Sep 26 09:18	5° <b>£</b> 13'37	1°42'24	morning set	4460 Sep 01 22:57	4° <b>™</b> 08'52	
max. Earth dist.	4459 Oct 01 23:49	16° <b>≏</b> 08'43	1.36961 AU				
evening rise	4459 Oct 05 19:01	23° <b>≏</b> 10'31		superior conj	4460 Sep 09 06:23	19° <b>m</b> 28'36	1°43'35
	4459 Oct 09 15:42	0°M₊		minimum elong	4460 Sep 09 05:56	19° <b>m</b> 26'17	1°43'35
desc. node	4459 Oct 15 02:29	9° <b>M</b> 06'19		max. Earth dist.	4460 Sep 13 10:36	28° Mp 00'10	1.35166 AU
	4459 Oct 29 04:57	0° <b>∡</b> 7			4460 Sep 14 10:42	0∘ <b>ত</b>	
evening max el	4459 Nov 10 12:38		25°40'45	evening rise	4460 Sep 17 16:48	6° <b>≏</b> 18′28	
retrograde	4459 Nov 22 19:46	21° <b>∡</b> ³36′18		desc. node	4460 Sep 30 23:31	29° <b>≙</b> 22'50	
evening set	4459 Nov 28 20:05	19° <b>∡</b> 06'37			4460 Oct 01 08:57	0°M	
min. Earth dist.	4459 Dec 03 04:24	14° <b>≯</b> 22'28	0.67059 AU	evening max el	4460 Oct 23 01:09	28°M13'30	26°39'31

	4460 Oct 24 23:33	0° <b>∡</b> 7		evening max el	4461 Oct 05 13:34	11° <b>M</b> .41'23	27°16'57
retrograde	4460 Nov 05 01:03	5° <b>≯</b> ¹28'48		retrograde	4461 Oct 19 00:30	18°ML59'37	2, 100,
evening set	4460 Nov 11 14:09	2° <b>×</b> 750'04		evening set	4461 Oct 25 23:43	16°ML19'09	
844	4460 Nov 14 12:04	30°RM₊		min. Earth dist.	4461 Oct 29 19:15		0.64688 AU
min. Earth dist.	4460 Nov 15 15:40	28°M41'21	0.66047 AU	inferior conj	4461 Nov 01 01:44	10°M 17'13	
inferior conj	4460 Nov 17 10:10	26°M35'08	-1°16'51	minimum elong	4461 Nov 01 05:42	10°MJ06'25	2°17'23
minimum elong	4460 Nov 17 12:18	26°M28'48	1°15'58	morning rise	4461 Nov 07 12:50	4°ML48'08	
asc. node	4460 Nov 21 04:35	22°M31'01		asc. node	4461 Nov 08 01:37	4° <b>M</b> L35'18	
morning rise	4460 Nov 23 11:13	20°M52'21		direct	4461 Nov 10 03:08	4° <b>M</b> .13'01	
direct	4460 Nov 26 08:43	20°M05'33		morning max el	4461 Nov 16 14:46	7° <b>M</b> 39′25	17°58'49
morning max el	4460 Dec 02 22:53	23°M40'30	18°25'21		4461 Dec 01 16:41	0° <b>∡</b> ¹	
	4460 Dec 08 03:11	0°⊀		morning set	4461 Dec 04 02:51	4° <b>∡</b> 03'50	
morning set	4460 Dec 22 17:32	22° <b>҂</b> ′41'43		desc. node	4461 Dec 14 19:47	21° <b>∡</b> ⁴44'32	
	4460 Dec 27 07:09	0°ಕ					
desc. node	4460 Dec 27 22:45	1° <b>る</b> 02'06		superior conj	4461 Dec 17 20:02	26° <b>∡</b> ¹35′26	-0°20'43
				minimum elong	4461 Dec 17 17:31	26° <b>∡</b> ¹25'22	0°20'20
superior conj	4461 Jan 07 09:11	17° <b>る</b> 30'48			4461 Dec 19 23:18	0° <b>ප</b>	
minimum elong	4461 Jan 07 01:04	16° <b>る</b> 58'55		max. Earth dist.	4461 Dec 22 03:59	3° <b>る</b> 28'40	1.44912 AU
max. Earth dist.	4461 Jan 08 08:52	19° <b>る</b> 03'38	1.45292 AU	evening rise	4462 Jan 03 01:49	22° <b>る</b> 01'25	
	4461 Jan 15 08:24	0° <b>≈</b>			4462 Jan 08 06:34	0° <b>≈</b>	
evening rise	4461 Jan 23 09:48	12° <b>≈</b> 40′12		greatest brilliancy	4462 Jan 17 10:39	13° <b>≈</b> 49′08	-0.6m
greatest brilliancy	4461 Feb 02 12:02	28° <b>≈</b> 32'08	-0.8m	evening max el	4462 Jan 29 09:22	29° <b>≈</b> 32'37	20°00'23
	4461 Feb 03 10:47	0° <b>∀</b>			4462 Jan 29 20:14	0° <b>∀</b>	
evening max el	4461 Feb 15 04:20	15° <b>)</b> 59'44	19°07'00	asc. node	4462 Feb 04 00:55	3° <b>∺</b> 38'17	
asc. node	4461 Feb 17 03:54	17° <b>)</b> 48′37		retrograde	4462 Feb 06 00:40	3° <b>¥</b> 59'34	
retrograde	4461 Feb 22 02:50	19° <b>)</b> 55'42		evening set	4462 Feb 09 17:56	2° <b>)</b> 38′54	
evening set	4461 Feb 25 12:02	18° <b>)</b> 49′05			4462 Feb 12 12:08	30°R≈	
inferior conj	4461 Mar 03 01:17	13° <b>₩</b> 01'18		inferior conj	4462 Feb 15 03:40	26°≈37'01	3°04'25
minimum elong	4461 Mar 02 23:46	13° <b>¥</b> 06'06	3°25'40	minimum elong	4462 Feb 15 01:25	26°≈44'31	3°03'57
min. Earth dist.	4461 Mar 04 13:21	11° <b>)</b> (06'27	0.66064 AU	min. Earth dist.	4462 Feb 16 01:24	25°≈24'03	0.67133 AU
morning rise	4461 Mar 08 11:09	6° <b>)</b> 47′25		morning rise	4462 Feb 20 08:42	20°≈22'53	
direct	4461 Mar 14 20:57	3° <b>米</b> 58'16 9° <b>米</b> 51'25		direct	4462 Feb 26 06:04	17°≈44'53	25°05'27
desc. node	4461 Mar 25 21:59 4461 Mar 27 16:46	11° <b>H</b> 35'07	26922124	morning max el desc. node	4462 Mar 10 01:35 4462 Mar 12 19:00	24°≈48'34 27°≈43'29	25-05/27
morning max el	4461 Mai 27 16.46 4461 Apr 11 09:40	11 <b>χ</b> 3307	20 23 34	desc. node	4462 Mar 14 18:11	27 <b>≈</b> 43 29 0° <b>∀</b>	
	4461 Apr 29 20:33	0°8			4462 Apr 04 20:51	0° <b>Υ</b>	
morning set	4461 May 02 18:23	5° <b>8</b> 22'07		morning set	4462 Apr 15 05:24	17° <b>Ƴ</b> 34'28	
max. Earth dist.	4461 May 06 19:53	13° <b>8</b> 10'13	1.34882 AU	max. Earth dist.	4462 Apr 18 20:43	24°Υ12'31	1.36719 AU
max. Latur dist.	4401 Way 00 17.55	13 01013	1.54002 710	max. Earth dist.	4462 Apr 21 22:23	0°8	1.50/17/10
superior conj	4461 May 11 15:47	22° <b>8</b> 52'38	-0°44'59		1102 11p1 21 22:23	ů O	
minimum elong	4461 May 11 18:13	23° <b>8</b> 05'05		superior conj	4462 Apr 25 04:07	6° <b>8</b> 17'32	-1°13'58
8	4461 May 15 02:18	0°II		minimum elong	4462 Apr 25 08:05	6° <b>8</b> 37'07	
asc. node	4461 May 16 03:12	2° <b>Ⅱ</b> 10'01		evening rise	4462 May 03 11:45	22° <b>8</b> 59'59	
evening rise	4461 May 19 07:53	8° <b>Ⅱ</b> 49'14		asc. node	4462 May 03 00:14	22° <b>8</b> 01'59	
Č	4461 May 30 16:53	0°ಅ			4462 May 07 00:31	$\Pi^{\circ}$	
evening max el	4461 Jun 07 03:37	9° <b>5</b> 28'31	20°45'29	evening max el	4462 May 20 16:02	20° <b>Ⅱ</b> 56′26	19°35'38
retrograde	4461 Jun 18 13:25	15° <b>5</b> 03'40		retrograde	4462 May 30 07:53	25° <b>Ⅱ</b> 38'49	
evening set	4461 Jun 20 15:24	14° <b>©</b> 53'15		evening set	4462 Jun 01 06:45	25° <b>Ⅲ</b> 28′08	
desc. node	4461 Jun 21 21:14	14° <b>©</b> 37'36		desc. node	4462 Jun 08 18:15	22° <b>Ⅱ</b> 10′58	
inferior conj	4461 Jun 29 22:32	10°956'10	-2°21'28	inferior conj	4462 Jun 10 00:11	21° <b>Ⅱ</b> 24′08	-0°22'12
minimum elong	4461 Jun 29 16:00	11° <b>©</b> 05'29		minimum elong	4462 Jun 09 23:11	21° <b>Ⅱ</b> 25'43	0°21'50
min. Earth dist.	4461 Jun 30 20:59	10° <b>5</b> 24'07	0.54863 AU	min. Earth dist.	4462 Jun 12 10:23	19° <b>Ⅱ</b> 52'28	0.55659 AU
morning rise	4461 Jul 08 16:11	6° <b>9</b> 52'10		morning rise	4462 Jun 18 13:07	16° <b>Ⅱ</b> 49'54	
direct	4461 Jul 12 09:08	6° <b>©</b> 22'35		direct	4462 Jun 23 02:23	16° <b>Ⅱ</b> 03'33	
morning max el	4461 Jul 25 12:21	12° <b>©</b> 41'28	23°03'20	morning max el	4462 Jul 07 02:10	23° <b>Ⅱ</b> 04'28	24°46'32
	4461 Aug 07 13:18	$0^{\circ}\Omega$			4462 Jul 13 07:00	0ංම	
asc. node	4461 Aug 12 02:26	8° <b>Ω</b> 15'16		asc. node	4462 Jul 29 23:29	27°5549'48	
morning set	4461 Aug 17 09:58	19° <b>Ω</b> 00'55			4462 Jul 31 00:56	0°N	
	4461 Aug 22 13:06	0° <b>т</b> р		morning set	4462 Aug 01 21:44	3° <b>Ω</b> 54'25	
superior conj	4461 Aug 24 11:16	4° <b>ነው</b> 07'52	1°38'08	superior conj	4462 Aug 08 20:26	18° <b>Ω</b> 58'30	1°27'04
minimum elong	4461 Aug 24 09:43	3° m 59'37	1°38'01	minimum elong	4462 Aug 08 18:15	18° <b>Ω</b> 46'39	1°26'48
max. Earth dist.	4461 Aug 27 06:13	10° Mp 02'47	1.33748 AU	max. Earth dist.	4462 Aug 10 10:20	$22^{\circ}\Omega 24'40$	1.32747 AU
evening rise	4461 Sep 01 04:18	20° mp 05'13	1.557 10710	man. Durin dist.	4462 Aug 13 23:35	0° <b>m</b> )	1.52/1/110
	4461 Sep 06 08:58	0° <b>⊽</b>		evening rise	4462 Aug 16 01:48	4° <b>m</b> ) 20'13	
desc. node	4461 Sep 17 20:33	∘ <b>—</b> 19° <b>ჲ</b> 17'11			4462 Aug 30 01:38	0∘ <b>ರ</b>	
	4461 Sep 25 09:10	0°M		desc. node	4462 Sep 04 17:34	ა <b>_</b> 8° <b>ჲ</b> 40'06	
	r =v				p		

evening max el	4462 Sep 18 00:03 4462 Sep 24 21:26	24° <b>£</b> 44'37 0° <b>N</b> L	27°26'22	desc. node	4463 Aug 22 14:35 4463 Aug 24 17:03	27° Mp 18'47 0° <del>⊆</del>	
retrograde	4462 Oct 01 17:17	2°M00'03		evening max el	4463 Aug 31 05:52	ა — 7° <b>ჲ</b> 09'47	27°03'15
	4462 Oct 08 02:16	30° <b>₹</b> Ω		retrograde	4463 Sep 14 02:48	14° <b>≏</b> 21'30	
evening set	4462 Oct 08 21:41	29° <b>≙</b> 27'44		evening set	4463 Sep 21 04:05	12° <b>≏</b> 09'18	
min. Earth dist.	4462 Oct 12 13:06	26° <b>≏</b> 24'55	0.63004 AU	min. Earth dist.	4463 Sep 24 20:09	9° <b>ഫ</b> 28'22	0.61053 AU
inferior conj	4462 Oct 15 07:20	23° <b>≏</b> 43'31	-3°20'31	inferior conj	4463 Sep 27 23:47	6° <b>≏</b> 46'04	-4°16'36
minimum elong	4462 Oct 15 12:53	23° <b>Ω</b> 29'59	3°18'41	minimum elong	4463 Sep 28 05:51	6° <b>£</b> 33'00	4°15'08
morning rise	4462 Oct 22 05:37	18° <b>≏</b> 31'39		morning rise	4463 Oct 05 09:30	1° <b>≏</b> 54'58	
direct	4462 Oct 24 15:23	18° <b>Ω</b> 04'34		direct	4463 Oct 07 17:43	1° <b>≏</b> 32'53	
asc. node	4462 Oct 25 22:41	18° <b>£</b> 12'42	17940152	asc. node	4463 Oct 12 19:45 4463 Oct 14 21:35	3° <b>£</b> 21'42	17950125
morning max el	4462 Oct 31 07:22 4462 Nov 06 18:36	21° <b>≏</b> 30'36 0° <b>™</b>	17°49'53	morning max el morning set	4463 Oct 14 21:35 4463 Oct 30 15:55	5° <b>♀</b> 06'56 29° <b>♀</b> 59'15	17°59'35
morning set	4462 Nov 16 12:27	16°M35'59		morning set	4463 Oct 30 15:04	0°M	
morning set	4462 Nov 24 05:17	0° <b>⊼</b> ¹			7703 OCI 30 10.07	O IIG	
		• •		superior conj	4463 Nov 09 19:03	18° <b>M</b> 21'59	0°59'24
superior conj	4462 Nov 28 06:12	6° <b>₹</b> 149′29	0°23'57	minimum elong	4463 Nov 09 23:06	18° <b>M</b> .39'48	0°58'52
minimum elong	4462 Nov 28 08:33	6° <b>₹</b> 59'16	0°23'37	•	4463 Nov 16 13:58	0° <b>∡</b> ¹	
desc. node	4462 Dec 01 16:49	12° <b>∡</b> ³30′56		max. Earth dist.	4463 Nov 17 09:33	1° <b>∡</b> ¹21'27	1.42213 AU
max. Earth dist.	4462 Dec 04 21:03	17° <b>∡</b> ′40′12	1.43844 AU	desc. node	4463 Nov 18 13:52	3° <b>∡</b> 18′22	
	4462 Dec 12 16:32	5°0		evening rise	4463 Nov 23 07:21	10° <b>∡</b> 757′07	
evening rise	4462 Dec 13 11:38	1° <b>る</b> 13'52			4463 Dec 05 18:28	0° <b>ප</b>	
	4463 Jan 01 21:34	0° <b>≈</b>		evening max el	4463 Dec 26 03:09	26° <b>る</b> 41'03	22°22'49
evening max el	4463 Jan 12 08:54	13°≈06'06	21°06'59	_	4463 Dec 29 20:43	0° <b>≈</b>	
retrograde	4463 Jan 20 22:36	18°≈10'41		retrograde	4464 Jan 04 18:59	2°≈25'46	
asc. node	4463 Jan 21 21:57	18°≈05'32		asc. node	4464 Jan 08 19:00	1°≈01'18	
evening set	4463 Jan 25 01:30 4463 Jan 30 09:46	16°≈34'52	2°33'13	evening set	4464 Jan 09 09:05 4464 Jan 10 00:37	0°≈34'10 30°Rる	
inferior conj minimum elong	4463 Jan 30 09:46 4463 Jan 30 07:19	10°≈21'34 10°≈30'03	2°32'32	inferior conj	4464 Jan 10 00:37	30°KO 24° <b>ろ</b> 12'42	1°53'53
min. Earth dist.	4463 Jan 30 18:36	9°≈51'03	0.67785 AU	minimum elong	4464 Jan 14 17:33	24°る1242 24°る20'21	1°53'08
morning rise	4463 Feb 04 12:57	4°≈08'48	0.07763 AU	min. Earth dist.	4464 Jan 14 14:45	24°る20'21	0.68045 AU
direct	4463 Feb 09 19:53	1°≈49'33		morning rise	4464 Jan 19 21:33	18° <b>る</b> 02'43	0.00043710
morning max el	4463 Feb 20 10:16	8°≈08'05	23°37'29	direct	4464 Jan 24 13:41	16° <b>පි</b> 05'54	
desc. node	4463 Feb 27 16:01	16° <b>≈</b> 29'46		morning max el	4464 Feb 02 21:52	21° <b>る</b> 35'04	22°09'19
	4463 Mar 09 12:46	0° <b>)</b> €			4464 Feb 10 02:53	0° <b>≈</b>	
morning set	4463 Mar 27 17:44	28° <b>)</b> 38′09		desc. node	4464 Feb 14 13:04	5° <b>≈</b> 55'08	
	4463 Mar 28 12:56	$0^{\circ}\Upsilon$			4464 Mar 01 19:56	0° <b>\</b>	
max. Earth dist.	4463 Mar 31 16:17	5° <b>Y</b> 26'56	1.38846 AU	morning set	4464 Mar 07 02:03	8° <b>∺</b> 21′00	
				max. Earth dist.	4464 Mar 12 13:51		1.41014 AU
superior conj	4463 Apr 08 03:08	19° <b>Y</b> ′00′14			4464 Mar 19 21:02	$0$ ° $\gamma$	
minimum elong	4463 Apr 08 07:59	19° <b>Y</b> 23'00	1°39'36		446434 20 00 10	000040107	1050153
	4463 Apr 13 21:04	0° <b>と</b> 6° <b>と</b> 43'55		superior conj	4464 Mar 20 08:10 4464 Mar 20 12:09	0° <b>Υ</b> 49'27 1° <b>Υ</b> 07'12	
evening rise asc. node	4463 Apr 17 08:04 4463 Apr 19 21:16	11° <b>8</b> 39'29		minimum elong evening rise	4464 Mar 30 17:28	1° <b>Y</b> 07 12 19° <b>Y</b> 52'34	1-39-39
asc. node	4463 Apr 30 21:47	0°Ⅱ		evening rise	4464 Apr 05 05:30	0° <b>8</b>	
evening max el	4463 May 03 15:25	3° <b>П</b> 04'13	18°45'53	asc. node	4464 Apr 05 18:19	0° <b>8</b> 57'02	
retrograde	4463 May 11 19:13	7° <b>∏</b> 04'23	10 .000	evening max el	4464 Apr 15 22:38	15° <b>8</b> 44'46	18°16'29
evening set	4463 May 13 23:02	6° <b>Ⅱ</b> 48'36		retrograde	4464 Apr 23 01:34	19° <b>8</b> 18'21	
inferior conj	4463 May 21 20:44	2° <b>Ⅱ</b> 27′20	1°21'00	evening set	4464 Apr 25 12:04	18° <b>8</b> 54'12	
minimum elong	4463 May 21 23:34	2° <b>Ⅱ</b> 22'06	1°20'04	inferior conj	4464 May 02 14:53	14° <b>8</b> 12'41	2°33'31
min. Earth dist.	4463 May 25 02:59	0°Ⅲ04′18	0.57242 AU	minimum elong	4464 May 02 18:25	14° <b>8</b> 05'02	2°32'38
	4463 May 25 05:27	30° <b>₹</b> 8		min. Earth dist.	4464 May 06 00:59	11° <b>8</b> 17'06	0.59300 AU
desc. node	4463 May 26 15:15	29° <b>8</b> 03'19		morning rise	4464 May 09 21:59	8° <b>8</b> 33'22	
morning rise	4463 May 29 20:52	27° <b>8</b> 17'18		desc. node	4464 May 12 12:17	7° <b>8</b> 22'15	
direct	4463 Jun 04 09:06	26° <b>8</b> 03'08		direct	4464 May 16 05:34	6° <b>8</b> 44'18	25022122
	4463 Jun 14 13:38	0°Ⅱ 2°Ⅲ22120	26017152	morning max el	4464 May 30 14:46	14° <b>႘</b> 33'32	21~22'22
morning max el	4463 Jun 18 17:36 4463 Jul 07 18:21	3°Ⅲ33'39 0°€	20 1/33		4464 Jun 12 00:47 4464 Jun 29 01:22	0°© 11°0	
asc. node	4463 Jul 16 20:33	17° <b>©</b> 40'38		morning set	4464 Jun 30 16:59	0°99 3°9524'36	
morning set	4463 Jul 17 08:40	17 \$340 38 18° \$344'22		asc. node	4464 Jul 02 17:35	7°941'44	
morning set	4463 Jul 22 13:24	0°Ω		use. Houe	1101941 02 17.33	, 🔾 11 11	
		- •		superior conj	4464 Jul 07 19:36	18° <b>5</b> 47'22	0°51'05
superior conj	4463 Jul 24 07:50	3° <b>Ω</b> 53'53	1°11'10	minimum elong	4464 Jul 07 17:36	18°936'21	0°50'41
minimum elong	4463 Jul 24 05:31	3° <b>Ω</b> 41′06	1°10'47	max. Earth dist.	4464 Jul 07 07:38	17° <b>5</b> 341'19	1.31979 AU
max. Earth dist.	4463 Jul 24 20:03	5° <b>Ω</b> 01'14	1.32156 AU		4464 Jul 12 22:13	$0^{\circ}\Omega$	
evening rise	4463 Jul 31 06:16	18° <b>Ω</b> 54'25		evening rise	4464 Jul 14 15:11	3° <b>Ω</b> 39'21	
	4463 Aug 05 18:43	0° <b>m</b>			4464 Jul 28 15:43	0° <b>m</b> )	

desc. node	4464 Aug 08 11:37	14° <b>m</b> 54'18			4465 Jul 25 05:31	0° <b>m</b> )	
evening max el	4464 Aug 12 04:33	18° Mp 46'37	26°07'11	desc. node	4465 Jul 26 08:37	יעיי 1°10 <b>0</b> 01'13	
retrograde	4464 Aug 26 03:52	25° m 55'10	20 07 11	retrograde	4465 Aug 07 18:07	6° mp 39'34	
evening set	4464 Sep 01 13:58	24° m 15'10		evening set	4465 Aug 12 23:37	5° mp 37'54	
min. Earth dist.	4464 Sep 05 17:19	21° mp 40'03	0.58979 AU	min. Earth dist.	4465 Aug 18 07:33		0.57040 AU
inferior conj	4464 Sep 08 23:25	19° m 14'12		inferior conj	4465 Aug 21 03:21	0° الله 59′27	
minimum elong	4464 Sep 09 03:44	-	4°58'10	minimum elong	4465 Aug 21 02:45	1° m 00'26	
morning rise	4464 Sep 16 19:43	14° m) 46'03		Č	4465 Aug 22 16:16	30°R <b>Ω</b>	
direct	4464 Sep 19 05:30	14° Mp 26'31		morning rise	4465 Aug 29 08:22	26° <b>Ω</b> 52'56	
morning max el	4464 Sep 27 06:02	18° <b>m</b> 18'16	18°29'18	direct	4465 Aug 31 23:01	26° <b>Ω</b> 33'51	
asc. node	4464 Sep 28 16:49	19° <b>m</b> 48'29			4465 Sep 09 04:48	O° Mp	
	4464 Oct 05 18:37	0∘ <b>⊽</b>		morning max el	4465 Sep 10 05:19	0° <b>m</b> 54'31	19°20'20
morning set	4464 Oct 13 07:54	13° <b>≏</b> 57'38		asc. node	4465 Sep 15 13:51	7° <b>m</b> ∤17'54	
	4464 Oct 21 17:32	0° <b>M</b>		morning set	4465 Sep 27 08:29	28° <b>m</b> 20'19	
					4465 Sep 28 04:26	0。 <b>ত</b>	
superior conj	4464 Oct 22 06:27	1°M00'08	1°23'55				
minimum elong	4464 Oct 22 09:57	1°M16'21	1°23'34	superior conj	4465 Oct 05 10:55	14° <b>≏</b> 28'01	1°38'14
max. Earth dist.	4464 Oct 29 16:31	14°M19'11	1.40222 AU	minimum elong	4465 Oct 05 12:55	14° <b>≏</b> 37'44	1°38'07
evening rise	4464 Nov 02 23:43	21°M37'22		max. Earth dist.	4465 Oct 11 20:50	26° <b>≏</b> 36'03	1.38127 AU
desc. node	4464 Nov 04 10:54	24°M02'49			4465 Oct 13 17:53	$0^{\circ}$ M	
	4464 Nov 08 03:20	0° <b>∡</b> ″		evening rise	4465 Oct 15 15:15	3°M21'06	
	4464 Nov 28 20:28	0°₹		desc. node	4465 Oct 22 07:56	14°M40'18	
evening max el	4464 Dec 07 17:32	10° <b>る</b> 18'59	23°42'44		4465 Nov 01 06:06	0° <b>∡</b> 7	
retrograde	4464 Dec 18 12:21	16° <b>る</b> 40'55		evening max el	4465 Nov 20 06:15	24° <b>₹</b> 01'06	25°00'12
evening set	4464 Dec 23 15:04	14°₹33'33			4465 Nov 28 07:15	0°る	
asc. node	4464 Dec 25 16:02	12° <b>る</b> 30'42	0.65025.434	retrograde	4465 Dec 02 01:33	0°る51'41	
min. Earth dist.	4464 Dec 28 11:29	8°る54'54	0.67937 AU		4465 Dec 05 12:48	30°₹ <i>≯</i> 7	
inferior conj	4464 Dec 29 01:14	8°る07'58 8°る13'06	1°07'34	evening set	4465 Dec 07 17:50	28° 🗷 29'40	0.67401 ATT
minimum elong	4464 Dec 28 23:44	2°る1306	1°06'58	min. Earth dist.	4465 Dec 12 06:25	23° 🗷 25'04	0.67481 AU
morning rise direct	4465 Jan 03 08:23 4465 Jan 07 10:29	0° <b>る</b> 28'23		asc. node	4465 Dec 12 13:03 4465 Dec 13 06:57	23° <b>尽</b> 03'20 22° <b>尽</b> 04'30	0°15'14
morning max el	4465 Jan 15 15:38	5°る12'20	20°48'46	inferior conj minimum elong	4465 Dec 13 06:34	22°×104'30 22°×105'45	0°15'14
desc. node	4465 Jan 31 10:07	5 81220 25° <b>8</b> 48'48	20 46 40	transit middle	4465 Dec 13 06:34	22° 🗷 05'45	0°15'04
dese. Hode	4465 Feb 03 06:15	0°≈		transit inidale	4465 Dec 13 05:33	22° × 03° 43	0 13 04
morning set	4465 Feb 14 07:53	0 <b>~</b> 16° <b>≈</b> 51'55		transit begin	4465 Dec 13 07:35	22° <b>×</b> 07'00'25	
max. Earth dist.	4465 Feb 22 17:50	0° <b>)</b> 14'36	1.42943 AU	morning rise	4465 Dec 18 19:28	16°×705'43	
man. Darvir alov.	4465 Feb 22 14:14	0° <b>∀</b>	129.0110	direct	4465 Dec 22 09:02	14° 🖈 52'30	
		• , ,		morning max el	4465 Dec 29 17:13	19° <b>х</b> 00'40	19°40'50
superior conj	4465 Mar 01 14:15	11° <b>)</b> 34'25	-2°08'12		4466 Jan 07 11:44	0°る	
minimum elong	4465 Mar 01 14:27	11° <b>)</b> 35′16	2°08'11	greatest brilliancy	4466 Jan 11 19:50	6° <b>る</b> 17'54	-0.7m
	4465 Mar 12 05:04	$0^{\circ}\mathbf{\Upsilon}$		desc. node	4466 Jan 18 07:09	16° <b>පි</b> 02'48	
evening rise	4465 Mar 13 11:49	2° <b>Y</b> 16'37		morning set	4466 Jan 24 04:04	25° <b>පි</b> 03'19	
asc. node	4465 Mar 23 15:21	19° <b>Y</b> 47'53			4466 Jan 27 08:43	0° <b>≈</b>	
evening max el	4465 Mar 30 10:16	28° <b>Ƴ</b> 48'57	18°06'46	max. Earth dist.	4466 Feb 05 05:22	13° <b>≈</b> 54′01	1.44392 AU
	4465 Mar 31 17:45	$9^{\circ}$ 8					
retrograde	4465 Apr 05 23:43	2° <b>8</b> 11'37		superior conj	4466 Feb 09 18:34	21° <b>≈</b> 10′32	-1°59'38
evening set	4465 Apr 08 16:37	1° <b>8</b> 36'56		minimum elong	4466 Feb 09 12:39	20° <b>≈</b> 46'42	1°59'19
	4465 Apr 11 09:24	30° <b>₹</b> Υ			4466 Feb 15 04:37	0° <b>∀</b>	
inferior conj	4465 Apr 15 04:08		3°15'46	evening rise	4466 Feb 23 10:38	13° <b>)</b> 47′01	
minimum elong	4465 Apr 15 06:29	26° <b>Y</b> 29'22	3°15'24		4466 Mar 05 03:09	0° <b>Υ</b>	
min. Earth dist.	4465 Apr 18 06:28	23° <b>Y</b> 32′00	0.61493 AU	asc. node	4466 Mar 10 12:22	8° <b>℃</b> 02'55	
morning rise	4465 Apr 21 18:31	20° <b>Y</b> 37′29		evening max el	4466 Mar 13 23:04	12° <b>Y</b> 07'32	18°16'01
direct	4465 Apr 28 13:19	18° <b>Y</b> 16′06		retrograde	4466 Mar 20 09:12	15° <b>Y</b> 33'26	
desc. node	4465 Apr 29 09:18	18° <b>Y</b> 18'07	0.50.5110.4	evening set	4466 Mar 23 08:11	14° <b>Y</b> 46'54	202212.4
morning max el	4465 May 12 18:05	26° <b>Y</b> 14'33	2/°51'04	inferior conj	4466 Mar 29 08:21		3°33'34
	4465 May 16 06:14	0° <b>Β</b>		minimum elong	4466 Mar 29 09:00	9° <b>Υ</b> 24'05	3°33'32
morning ast	4465 Jun 05 13:42	0°Ⅱ 17°Ⅲ40'03		min. Earth dist.	4466 Mar 31 20:48	6° <b>Υ</b> 37'59 3° <b>Υ</b> 18'14	0.63541 AU
morning set asc. node	4465 Jun 14 20:49 4465 Jun 19 14:38	17° <b>Ⅱ</b> 49'03 27° <b>Ⅱ</b> 48'37		morning rise direct	4466 Apr 04 08:50 4466 Apr 11 05:44	3°°γ′18′14 0° <b>Υ</b> 35′27	
max. Earth dist.	4465 Jun 20 17:14	2/° <b>щ</b> 48'37 0° <b>©</b> 12'38	1.32219 AU	desc. node	4466 Apr 16 06:20	1° <b>Υ</b> 50'08	
man. Barui Uist.	4465 Jun 20 14:55	0 ဆ12 38 0°9	1.32219 AU	morning max el	4466 Apr 25 01:51	8° <b>Υ</b> 33'52	27°42'18
	7705 Jun 20 14.55	v <b>-3</b>		morning max ci	4466 May 11 15:53	0° <b>8</b>	∠; T∠ 10
superior conj	4465 Jun 22 06:02	3°533'21	0°27'22		4466 May 28 19:42	0°U	
minimum elong	4465 Jun 22 04:49	3°526'40	0°27'07	morning set	4466 May 29 17:46	1° <b>∏</b> 49'23	
evening rise	4465 Jun 29 02:29	18°928'31	3 2. 01	max. Earth dist.	4466 Jun 03 20:59	12° <b>∏</b> 22'21	1.32892 AU
	4465 Jul 04 17:47	0°Ω		asc. node	4466 Jun 06 11:39	17° <b>II</b> 56'14	
evening max el	4465 Jul 24 20:11	29° <b>Ω</b> 37'53	24°44'21				
-0	= . =	. 000,00	. — -				

gunarior agni	4466 Jun 06 13:16	18° <b>Ⅱ</b> 04'54	0°00'42	superior conj	4467 May 21 15:12	2° <b>∏</b> 16′00	0020101
superior conj minimum elong	4466 Jun 06 13:13	18° <b>Ⅱ</b> 04′34	0°00'42	minimum elong	4467 May 21 15:13 4467 May 21 16:42	2°П23'45	0°27'43
behind sun begin	4466 Jun 06 07:55	18 <b>П</b> 0441 17° <b>П</b> 36'10	0 0042	asc. node	4467 May 24 08:41	2 <b>П</b> 23 43 8° <b>П</b> 00'55	0 2/43
behind sun end	4466 Jun 06 18:32	17 <b>Ⅲ</b> 3010 18° <b>Ⅲ</b> 33'14		evening rise	4467 May 29 00:34	17° <b>∏</b> 52'04	
bennia sun ena	4466 Jun 12 01:44	0°95		evening rise	4467 Jun 04 01:47	0°95	
evening rise	4466 Jun 13 14:13	3° <b>©</b> 14'41		evening max el	4467 Jun 18 03:01	20° <b>©</b> 32'53	21°33'46
evening rise	4466 Jun 28 04:06	0°Ω		retrograde	4467 Jun 30 10:25	26° <b>©</b> 37'26	21 33 40
evening max el	4466 Jul 06 09:06	10°Ω02'40	23°07'59	desc. node	4467 Jun 30 02:36	26° <b>©</b> 37'11	
desc. node	4466 Jul 13 05:36	15° <b>Ω</b> 06'35	23 0137	evening set	4467 Jul 02 21:54	26°\$23'27	
retrograde	4466 Jul 19 19:31	16° <b>Ω</b> 45'10		inferior conj	4467 Jul 12 06:40	20 <b>3</b> 23 27 22° <b>5</b> 22'53	2025100
•	4466 Jul 23 12:40	16°Ω15'02		minimum elong	4467 Jul 11 22:12	22° <b>©</b> 34'43	-3 23 08 3°22'36
evening set	4466 Jul 30 18:15	10 <b>δ</b> <i>l</i> 13 02 12° <b>Ω</b> 58'59	0.55557 AU	min. Earth dist.		22°\$25'48	0.54842 AU
min. Earth dist.						18° <b>©</b> 29'41	0.34642 AU
inferior conj	4466 Aug 01 11:39	11° <b>Ω</b> 58'45		morning rise	4467 Jul 20 23:34		
minimum elong	4466 Aug 01 04:59	12° <b>Ω</b> 08'30	4*43*40	direct	4467 Jul 24 08:08	18°905'12	22005100
morning rise	4466 Aug 09 23:35	8° <b>Ω</b> 06'42		morning max el	4467 Aug 05 17:00		22°05'00
direct	4466 Aug 12 21:51	7° <b>Ω</b> 46'13	20022107	1	4467 Aug 11 03:53	0°N	
morning max el	4466 Aug 23 16:58	12° <b>Ω</b> 47'17	20°33'07	asc. node	4467 Aug 20 07:56	14° <b>Ω</b> 30'57	
asc. node	4466 Sep 02 10:53	25° <b>Ω</b> 36′00		morning set	4467 Aug 27 00:42	27° <b>Ω</b> 48'52	
	4466 Sep 04 23:22	0° m/y			4467 Aug 28 01:41	0° <b>™</b>	
morning set	4466 Sep 11 14:50	12° <b>m</b> 59'36					
				superior conj	4467 Sep 03 05:01	13° <b>m</b> 01'28	1°42'01
superior conj	4466 Sep 19 03:42	28°My32'15	1°43'48	minimum elong	4467 Sep 03 04:03	12° TQ 56'23	1°41'59
minimum elong	4466 Sep 19 04:04	28° Mp 34'09	1°43'48	max. Earth dist.	4467 Sep 06 18:53	20° Mp 27'28	1.34514 AU
	4466 Sep 19 20:59	0∘ <b>ত</b>		evening rise	4467 Sep 11 07:18	29° <b>m</b> 27'04	
max. Earth dist.	4466 Sep 24 04:10	8° <b>≏</b> 31'33	1.36166 AU		4467 Sep 11 14:07	0∘ <b>⊽</b>	
evening rise	4466 Sep 28 03:13	16° <b>≏</b> 01'29		desc. node	4467 Sep 26 01:56	25° <b>≏</b> 14'24	
	4466 Oct 06 02:04	0°M₊			4467 Sep 29 04:59	0°M₊	
desc. node	4466 Oct 09 04:56	5° <b>™</b> 06'14		evening max el	4467 Oct 16 07:31	21°M20'50	26°58'24
	4466 Oct 26 18:08	0° <b>∡</b> 7		retrograde	4467 Oct 29 12:24	28° <b>™</b> 37'42	
evening max el	4466 Nov 02 18:54	7° <b>∡</b> ¹44'37	26°07'56	evening set	4467 Nov 05 06:26	25° <b>M</b> 57′07	
retrograde	4466 Nov 15 09:45	14° <b>₰</b> 53'07		min. Earth dist.	4467 Nov 09 05:18	22°M03'38	0.65518 AU
evening set	4466 Nov 21 15:40	12° <b>₹</b> 19'12		inferior conj	4467 Nov 11 04:53	19° <b>M</b> 47'23	-1°43'01
min. Earth dist.	4466 Nov 25 21:09	7° <b>∡</b> ¹49'56	0.66675 AU	minimum elong	4467 Nov 11 07:47	19° <b>M</b> 39′02	1°41'48
inferior conj	4466 Nov 27 08:52	5° <b>₹</b> 59'21	-0°42'05	asc. node	4467 Nov 16 07:08	14° <b>M</b> 49'49	
minimum elong	4466 Nov 27 09:59	5° <b>₹</b> 55'51	0°41'36	morning rise	4467 Nov 17 10:03	14°ML10'12	
asc. node	4466 Nov 29 10:05	3° <b>∡</b> ³31'47		direct	4467 Nov 20 04:17	13° <b>M</b> 28'45	
morning rise	4466 Dec 03 04:48	0° <b>∡</b> ¹09'52		morning max el	4467 Nov 26 16:22	16° <b>M</b> 58'34	18°12'00
	4466 Dec 03 11:49	30°RM₊			4467 Dec 06 06:32	0° <b>∡</b> ¹	
direct	4466 Dec 06 07:39	29°M14'23		morning set	4467 Dec 15 08:45	14° <b>∡</b> ¹43'05	
	4466 Dec 09 05:39	0° <b>∡</b> ¹		desc. node	4467 Dec 23 01:12	27° <b>∡</b> 10′06	
morning max el	4466 Dec 13 02:11	2° <b>∡</b> ¹58'07	18°48'15		4467 Dec 24 19:39	8°0	
	4467 Jan 01 00:28	0°ප					
morning set	4467 Jan 03 16:03	4° <b>る</b> 09'42		superior conj	4467 Dec 30 05:47	8° <b>පි</b> 36'16	-0°48'09
desc. node	4467 Jan 05 04:11	6° <b>る</b> 31'39		minimum elong	4467 Dec 29 23:47	8° <b>る</b> 12'34	0°47'20
max. Earth dist.	4467 Jan 18 22:49	28°පි08'00	1.45181 AU	max. Earth dist.	4468 Jan 01 18:22	12° <b>る</b> 34'38	1.45225 AU
					4468 Jan 12 22:03	0° <b>≈</b>	
superior conj	4467 Jan 20 02:12	29° <b>る</b> 55'36	-1°31'25	evening rise	4468 Jan 15 12:34	4° <b>≈</b> 03'21	
minimum elong	4467 Jan 19 16:52	29° <b>る</b> 18'55	1°30'29	greatest brilliancy	4468 Jan 27 15:21	22° <b>≈</b> 46′25	-0.7m
	4467 Jan 20 03:20	0° <b>≈</b>			4468 Feb 01 12:58	0° <b>)</b> €	
evening rise	4467 Feb 04 10:45	24° <b>≈</b> 21′08		evening max el	4468 Feb 08 18:09	9° <b>₩</b> 05'59	19°27'50
	4467 Feb 07 22:43	0° <b>∀</b>		asc. node	4468 Feb 12 06:24	12° <b>¥</b> 02'17	
asc. node	4467 Feb 25 09:22	25° <b>)</b> 32'11		retrograde	4468 Feb 15 22:59	13° <b>¥</b> 14'15	
evening max el	4467 Feb 25 10:27	25° <b>)</b> 34'56	18°43'24	evening set	4468 Feb 19 11:29	12° <b>∺</b> 01'39	
retrograde	4467 Mar 04 02:04	29° <b>¥</b> 16'37		inferior conj	4468 Feb 24 22:55	6° <b>¥</b> 07'16	3°18'03
evening set	4467 Mar 07 07:22	28° <b>) 1</b> 7′25		minimum elong	4468 Feb 24 21:03	6° <b>)</b> 13′24	3°17'46
inferior conj	4467 Mar 12 23:44	22° <b>)</b> 38'38	3°32'50	min. Earth dist.	4468 Feb 26 04:37	4° <b>)</b> €30'12	0.66572 AU
minimum elong	4467 Mar 12 22:53	22° <b>){</b> 41'14	3°32'46	morning rise	4468 Mar 01 06:21	29° <b>≈</b> 52'59	
min. Earth dist.	4467 Mar 14 20:29	20° <b>¥</b> 22'01	0.65263 AU	C	4468 Mar 01 03:16	30°R <b>≈</b>	
morning rise	4467 Mar 18 13:55	16° <b>¥</b> 26′09		direct	4468 Mar 07 11:04	27° <b>≈</b> 07'45	
direct	4467 Mar 25 05:17	13° <b>)</b> (35'51			4468 Mar 14 17:09	0° <b>∀</b>	
desc. node	4467 Apr 03 03:22	17° <b>H</b> 28'30		morning max el	4468 Mar 19 21:28	4° <b>)</b> 32'09	25°52'13
morning max el	4467 Apr 07 11:45	21° <b>)</b> 23'46	27°00'03	desc. node	4468 Mar 20 00:24	4° <b>∺</b> 39'35	
ig muz vi	4467 Apr 14 23:18	0°Υ	2, 0005	acco. node	4468 Apr 08 09:23	0°Υ	
	4467 May 04 20:00	0°8		morning set	4468 Apr 25 02:14	28° <b>Υ</b> '01'08	
morning set	4467 May 13 04:54	15° <b>8</b> 17'04			4468 Apr 26 03:54	0°8	
max. Earth dist.	4467 May 17 15:21	24° <b>8</b> 02'19	1.34026 AU	max. Earth dist.	4468 Apr 28 22:25		1.35615 AU
Zurur uist.	4467 May 20 13:08	0°II	1.5 .520 110	Darui diot.		5 01722	1.55015710
	110, 111ay 20 13.00	v <b>4</b>					

aumorior coni	4468 May 04 09:25	15° <b>8</b> 59'54	0057127	marning sat	4469 Apr 07 04:23	9° <b>Ƴ</b> 46'21	
superior conj	,	15 <b>8</b> 3934		morning set			1.37595 AU
minimum elong	4468 May 04 12:32	_	0°56'53	max. Earth dist.	4469 Apr 10 19:57	16 1 16 30	1.3/595 AU
asc. node	4468 May 10 05:43	27° <b>8</b> 58'44 0° <b>Ⅱ</b>		aumariar aani	4460 Amr 17 16:24	29° <b>Ƴ</b> 07'42	1925127
	4468 May 11 05:16	0 П 2°П14'37		superior conj	4469 Apr 17 16:34		1°25'00
evening rise	4468 May 12 07:30 4468 May 28 19:19	2 <b>п</b> 14 37 0° <b>©</b>		minimum elong	4469 Apr 17 21:03 4469 Apr 18 03:23	0° <b>8</b>	1 23 00
avanina may al	•	0 93 1°936'14	20°13'23	ovening rice	•	16° <b>8</b> 14'38	
evening max el	4468 May 30 08:09 4468 Jun 10 00:19	6°9349'10	20 13 23	evening rise asc. node	4469 Apr 26 08:33	10 <b>8</b> 14 38	
retrograde	4468 Jun 11 23:14	6°939'24		asc. node	4469 Apr 27 02:46	0°Ⅱ	
evening set					4469 May 03 13:58		10012102
desc. node	4468 Jun 15 23:37	5°924'41	1020141	evening max el	4469 May 13 01:34	13° <b>Ⅲ</b> 21'35 17° <b>Ⅲ</b> 44'23	19°12'02
inferior conj	4468 Jun 21 01:48	2°9540'46		retrograde	4469 May 22 01:08		
minimum elong	4468 Jun 20 21:32	2°547'03	1°29'07	evening set	4469 May 24 01:24	17° <b>Ⅱ</b> 32'09	002450
min. Earth dist.	4468 Jun 22 16:47	1°543'09	0.55080 AU	inferior conj	4469 Jun 01 10:43	13° <b>Ⅱ</b> 21'53	0°24'50
	4468 Jun 25 19:52	30°RⅡ		minimum elong	4469 Jun 01 11:44	13° <b>Ⅱ</b> 20'10	0°24'27
morning rise	4468 Jun 29 18:29	28° <b>Ⅱ</b> 25'28		desc. node	4469 Jun 02 20:40	12° <b>Ⅲ</b> 24'31	
direct	4468 Jul 03 19:01	27° <b>Ⅱ</b> 50′24		min. Earth dist.	4469 Jun 04 07:42	11° <b>Ⅱ</b> 26′24	0.56243 AU
	4468 Jul 11 10:28	ი <sub>ა</sub> დ		morning rise	4469 Jun 09 18:56	8° <b>Ⅱ</b> 31'49	
morning max el	4468 Jul 17 09:04		23°47'49	direct	4469 Jun 14 17:58	7° <b>Ⅱ</b> 34'48	
	4468 Aug 04 04:39	$0^{\circ}\Omega$		morning max el	4469 Jun 28 23:01	14° <b>Ⅱ</b> 50'53	25°27'52
asc. node	4468 Aug 06 04:59	3° <b>£</b> 53′22			4469 Jul 11 00:55	$0$ $\circ$	
morning set	4468 Aug 10 12:17	12° <b>Ω</b> 42'38		asc. node	4469 Jul 24 02:02	23° <b>©</b> 35'06	
				morning set	4469 Jul 25 23:52	27° <b>©</b> 34'48	
superior conj	4468 Aug 17 12:03	27° <b>Ω</b> 46'59	1°34'05		4469 Jul 27 03:07	$0$ $^{\circ}$ $\Omega$	
minimum elong	4468 Aug 17 10:11	27° <b>Ω</b> 36'54	1°33'55				
	4468 Aug 18 12:44	0° <b>m</b> y		superior conj	4469 Aug 01 22:24	12° <b>Ω</b> 40′13	1°20'53
max. Earth dist.	4468 Aug 19 18:20	2°M/38'16	1.33263 AU	minimum elong	4469 Aug 01 20:07	12° <b>Ω</b> 27'38	1°20'34
evening rise	4468 Aug 24 23:28	13° <b>m</b> 27'08		max. Earth dist.	4469 Aug 03 00:58	15° <b>Ω</b> 05'46	1.32437 AU
	4468 Sep 02 18:12	0∘ <b>ত</b>		evening rise	4469 Aug 09 00:15	27° <b>Ω</b> 50′55	
desc. node	4468 Sep 11 22:58	14° <b>≙</b> 57'02			4469 Aug 10 01:24	0° <b>m</b> ∕	
	4468 Sep 23 08:14	0° <b>M</b> .			4469 Aug 27 00:43	0∘ <b>ত</b>	
evening max el	4468 Sep 27 19:12	4°M39'25	27°24'35	desc. node	4469 Aug 29 20:00	4° <b>≙</b> 02'45	
retrograde	4468 Oct 11 09:13	11°M57'25		evening max el	4469 Sep 10 03:55	17° <b>≏</b> 27'19	27°20'41
evening set	4468 Oct 18 11:33	9° <b>™</b> 18'39		retrograde	4469 Sep 23 23:22	24° <b>≙</b> 41'59	
min. Earth dist.	4468 Oct 22 04:49	5°M59'01	0.64015 AU	evening set	4469 Oct 01 03:28	22° <b>₽</b> 16'38	
inferior conj	4468 Oct 24 16:35	3°M23'41	-2°45'19	min. Earth dist.	4469 Oct 04 18:15	19° <b>≏</b> 24'31	0.62195 AU
minimum elong	4468 Oct 24 21:17	3° <b>M</b> ₊11'27		inferior conj	4469 Oct 07 17:00	16° <b>≏</b> 40'41	-3°45'23
C	4468 Oct 28 05:27	30° <b>₹</b> Ω		minimum elong	4469 Oct 07 22:57	16° <b>≏</b> 26'51	3°43'38
morning rise	4468 Oct 31 08:23	28° <b>₽</b> 01'50		morning rise	4469 Oct 14 20:11	11° <b>≏</b> 37'19	
asc. node	4468 Nov 02 04:11	27° <b>₽</b> 32'56		direct	4469 Oct 17 04:45	11° <b>≏</b> 12'51	
direct	4468 Nov 02 20:23	27° <b>♀</b> 30'38		asc. node	4469 Oct 20 01:14	11° <b>≏</b> 49'54	
	4468 Nov 08 09:04	0° <b>M</b> .		morning max el	4469 Oct 24 01:02	14° <b>≏</b> 41'36	17°51'39
morning max el	4468 Nov 09 09:02	0°M55'46	17°52'48		4469 Nov 03 14:13	0°M	
morning set	4468 Nov 26 05:10	26°MJ37'13	-,	morning set	4469 Nov 08 23:08	9°M33'10	
morning sec	4468 Nov 28 04:39	0° <b>∡</b> ¹		morning sec	1.09 1.01 00 25.00	> 11 <b>0</b> 33 10	
desc. node	4468 Dec 08 22:14	17° <b>×</b> 754'35		superior conj	4469 Nov 19 23:16	28°M56'09	0°40'16
dese. Hode	1.00 200 00 22.11	1, 7, 0.00		minimum elong	4469 Nov 20 02:42	29°M10'48	0°39'47
superior conj	4468 Dec 09 01:31	18° <b>∡</b> '07'58	-0°00'58	minimum crong	4469 Nov 20 14:16	0° <b>₹</b>	0 37 17
minimum elong	4468 Dec 09 01:24	18° <b>∡</b> '07'29		desc. node	4469 Nov 25 19:18	8° <b>×</b> 741'58	
behind sun begin	4468 Dec 08 15:27	17° 🗷 26'59	0 00 30	max. Earth dist.	4469 Nov 27 03:32	10° × 53'39	1.43209 AU
behind sun end	4468 Dec 09 11:21	18° <b>×</b> <sup>7</sup> 47'54		evening rise	4469 Dec 04 12:12	22° <b>∡</b> 36'55	1.13207710
max. Earth dist.	4468 Dec 14 12:42	26° <b>×</b> 55'03	1.44539 AU	evening rise	4469 Dec 09 07:13	0°る	
max. Larm dist.	4468 Dec 16 11:26	0° <b>궁</b>	1.44337 AO		4469 Dec 30 08:32	0° <b>≈</b>	
evening rise	4468 Dec 24 23:59	13° <b>ठ</b> 15'39		evening max el	4470 Jan 04 18:01	6°≈12'48	21°38'24
evening rise	4469 Jan 05 01:05	0° <b>≈</b>		•	4470 Jan 13 18:43	11°≈34'38	21 36 24
avanina may al	4469 Jan 21 20:47		20°27'15	retrograde asc. node			
evening max el asc. node		22°≈38'30	20 27 13		4470 Jan 16 00:29 4470 Jan 18 02:05	11°≈07'36	
	4469 Jan 29 03:27	27°≈18'24		evening set		9°≈52'25	2017/20
retrograde	4469 Jan 29 21:14	27°≈21'23		inferior conj	4470 Jan 23 10:17	3°≈35'17	
evening set	4469 Feb 02 18:19	25°≈54'28	2052115	minimum elong	4470 Jan 23 07:52	3°≈43'38	2°16'44
inferior conj	4469 Feb 08 03:11	19°≈47'10		min. Earth dist.	4470 Jan 23 14:07	3°≈21'58	0.67943 AU
minimum elong	4469 Feb 08 00:48	19°≈55'19	2°51'42		4470 Jan 26 02:43	30°Rる	
min. Earth dist.	4469 Feb 08 19:16	18°≈52'19	0.67458 AU	morning rise	4470 Jan 28 13:28	27° <b>♂</b> 23'18	
morning rise	4469 Feb 13 07:04	13°≈33'09		direct	4470 Feb 02 14:08	25° <b>⋜</b> 13'06	
direct	4469 Feb 18 22:18	11°≈02'30	24020122		4470 Feb 11 10:21	0°≈	22050122
morning max el	4469 Mar 02 06:09	17°≈48'50	24°28'32	morning max el	4470 Feb 12 15:31	1°≈10'58	22~59'22
desc. node	4469 Mar 06 21:27	22°≈56'52		desc. node	4470 Feb 21 18:30	12°≈01'34	
	4469 Mar 12 11:09	0° <b>)</b> €			4470 Mar 06 09:46	0° <b>)</b> {	
	4469 Apr 01 10:38	0° <b>Υ</b>		morning set	4470 Mar 19 05:17	20° <b>) (</b> 16'47	

max. Earth dist.	4470 Mar 23 15:02 4470 Mar 24 22:24	27° <b>ℋ</b> 44'11 0° <b>Ƴ</b>	1.39780 AU	max. Earth dist.	4471 Mar 05 15:15	10° <b>)</b> 04'44	1.41891 AU
				superior conj	4471 Mar 13 04:26	22° <b>升</b> 52'34	-2°05'09
superior conj	4470 Mar 31 08:35	11° <b>Y</b> 29'27	-1°49'36	minimum elong	4471 Mar 13 07:13	23° <b>)</b> €04'40	2°05'02
minimum elong	4470 Mar 31 13:21	11° <b>Y</b> 51'21	1°49'09		4471 Mar 17 05:30	$0^{\circ}\mathbf{\Upsilon}$	
evening rise	4470 Apr 10 00:41	29° <b>Y</b> 44'33		evening rise	4471 Mar 24 04:09	12° <b>Y</b> 34'55	
	4470 Apr 10 03:55	0°8		asc. node	4471 Mar 31 20:50	26° <b>Ƴ</b> 21'23	
asc. node	4470 Apr 13 23:49	7° <b>8</b> 14'38			4471 Apr 03 01:55	0°8	
evening max el	4470 Apr 26 04:49	25° <b>8</b> 44'55	18°30'58	evening max el	4471 Apr 09 14:19	8° <b>8</b> 36'15	18°09'56
retrograde	4470 May 03 20:25	29° <b>8</b> 31'17		retrograde	4471 Apr 16 09:57	12° <b>8</b> 03'07	
evening set	4470 May 06 03:09	29° <b>8</b> 12'14		evening set	4471 Apr 18 23:23	11° <b>8</b> 34'31	
inferior conj	4470 May 13 16:30	24° <b>8</b> 42'44	1°55'42	inferior conj	4471 Apr 25 19:10	6° <b>8</b> 44'05	2°54'50
minimum elong	4470 May 13 19:59	24° <b>8</b> 35'53	1°54'39	minimum elong	4471 Apr 25 22:21	6° <b>8</b> 36'47	2°54'10
min. Earth dist.	4470 May 17 02:21	22° <b>8</b> 02'55	0.58085 AU	min. Earth dist.	4471 Apr 29 02:58	3° <b>8</b> 42'27	0.60244 AU
desc. node	4470 May 20 17:41	19° <b>8</b> 39'54		morning rise	4471 May 02 18:59	0° <b>8</b> 55'57	
morning rise	4470 May 21 09:38	19° <b>8</b> 19'13			4471 May 04 12:07	30° <b>₹Ƴ</b>	
direct	4470 May 27 07:12	17° <b>8</b> 50'11		desc. node	4471 May 07 14:42	29° <b>Ƴ</b> 01'04	
morning max el	4470 Jun 10 16:21	25° <b>8</b> 29'49	26°49'12	direct	4471 May 09 08:32	28° <b>Ƴ</b> 52'28	
	4470 Jun 14 20:54	$\Pi^{\circ}0$			4471 May 14 10:04	$_{0\circ}$ 8	
	4470 Jul 04 06:28	$0$ $\circ$		morning max el	4471 May 23 16:03	6° <b>8</b> 45'38	27°39'14
morning set	4470 Jul 10 09:51	12° <b>5</b> 20'28			4471 Jun 10 03:54	$\Pi$ $^{\circ}0$	
asc. node	4470 Jul 10 23:05	13° <b>©</b> 30'23		morning set	4471 Jun 24 16:29	26° <b>Ⅲ</b> 54'17	
					4471 Jun 26 03:57	$0_{\circ}$ වෙ	
superior conj	4470 Jul 17 10:09	27° <b>5</b> 34'58	1°03'08	asc. node	4471 Jun 27 20:08	3° <b>5</b> 34'10	
minimum elong	4470 Jul 17 07:55	27° <b>5</b> 22'36	1°02'44	max. Earth dist.	4471 Jun 30 23:09	10° <b>©</b> 22'19	1.32033 AU
max. Earth dist.	4470 Jul 17 11:47	27° <b>5</b> 44'01	1.32032 AU				
	4470 Jul 18 12:25	$0 ^{\circ} \Omega$		superior conj	4471 Jul 01 21:32	12° <b>©</b> 25'28	0°41'25
evening rise	4470 Jul 24 06:52	12° <b>Ω</b> 30′10		minimum elong	4471 Jul 01 19:49	12° <b>©</b> 15'59	0°41'04
	4470 Aug 02 04:35	0° <b>m</b> p		evening rise	4471 Jul 08 17:02	27° <b>©</b> 17'34	
desc. node	4470 Aug 16 17:01	22° Mp 16'36			4471 Jul 09 23:49	$0^{\circ}\Omega$	
evening max el	4470 Aug 23 07:05	29° <b>m</b> 32'37	26°43'20		4471 Jul 26 23:41	O° <b>m</b>	
	4470 Aug 23 18:49	0∘ <b>⊽</b>		desc. node	4471 Aug 03 14:00	9° <b>m</b> ,17'50	
retrograde	4470 Sep 06 05:25	6° <b>≏</b> 42'35		evening max el	4471 Aug 05 02:44	10° <b>m</b> 49'14	25°34'38
evening set	4470 Sep 13 01:41	4° <b>≏</b> 43'12		retrograde	4471 Aug 19 01:44	17° <b>m</b> 54'52	
min. Earth dist.	4470 Sep 16 21:03	2° <b>≏</b> 06'39	0.60168 AU	evening set	4471 Aug 25 01:27	16° Mp 31'05	
	4470 Sep 19 11:42	30°R, My		min. Earth dist.	4471 Aug 29 14:39	13° <b>m</b> 52'51	0.58119 AU
inferior conj	4470 Sep 20 02:41	29° <b>m</b> 29'20		inferior conj	4471 Sep 01 18:13	11° <b>m</b> 40'09	
minimum elong	4470 Sep 20 08:21	29° <b>m</b> 17'46	4°35'48	minimum elong	4471 Sep 01 20:49	11° <b>m</b> 35'33	5°09'07
morning rise	4470 Sep 27 17:02	24° Mp 47'28		morning rise	4471 Sep 09 18:26	7° Mp 21'32	
direct	4470 Sep 30 01:28	24° TD 26'44		direct	4471 Sep 12 06:08	7° m 02'15	
asc. node	4470 Oct 06 22:18	27° m/32'56		morning max el	4471 Sep 20 17:57	11° <b>m</b> 04'36	18°48'24
morning max el	4470 Oct 07 13:06	28° <b>m</b> 07'25	18°09'41	asc. node	4471 Sep 23 19:20	14° mp 28'01	
	4470 Oct 09 07:12	0∘ <b>⊽</b>			4471 Oct 03 08:41	0∘ <b>⊽</b>	
morning set	4470 Oct 23 08:29	23° <b>≙</b> 12'38		morning set	4471 Oct 07 04:33	7° <b>£</b> 22'46	
	4470 Oct 26 23:13	0° <b>M</b> .					
	445037 01 00 16	100% 55105	1011107	superior conj	4471 Oct 15 17:35	23° <b>£</b> 58'48	1°31'09
superior conj	4470 Nov 01 22:16	10°M57'35		minimum elong	4471 Oct 15 20:30	24° <b>£</b> 12'37	1°30'55
minimum elong	4470 Nov 02 02:17	11°M15'37		E 41 E 4	4471 Oct 18 22:52	0°M	1 20227 ATT
max. Earth dist.	4470 Nov 09 13:39	24°M17'12	1.41397 AU	max. Earth dist.	4471 Oct 22 19:34	6°M58'48	1.39327 AU
desc. node	4470 Nov 12 16:19	29°M28'15		evening rise	4471 Oct 26 18:13	13°M49'46	
	4470 Nov 13 00:03	0° 🗖 43/3.4		desc. node	4471 Oct 30 13:20	20°M10'13	
evening rise	4470 Nov 14 15:54	2° <b>₹</b> 42'24			4471 Nov 05 17:39	0° <b>⊀</b> ¹	
	4470 Dec 02 16:24	0°る	22057142		4471 Nov 27 17:05	0°る	24017120
evening max el	4470 Dec 18 10:32	19°る49'25 25°る50'03	22°56'43	evening max el	4471 Dec 01 00:02	3°る29'29 10°る04'16	24°16'20
retrograde	4470 Dec 28 13:48			retrograde	4471 Dec 12 05:25	7°る50'15	
evening set	4471 Jan 02 09:08	23°る51'50 23°る24'38		evening set asc. node	4471 Dec 17 13:58	7°る30°13 4° <b>る</b> 24'51	
asc. node inferior conj	4471 Jan 02 21:32 4471 Jan 07 18:13	23°62438 17° <b>る</b> 28'23	1°35'04	min. Earth dist.	4471 Dec 20 18:33 4471 Dec 22 06:52	2°る2431	0.67792 AU
minimum elong	4471 Jan 07 16:16	17° <b>る</b> 28'23	1°33'04 1°34'20	inferior conj	4471 Dec 22 06:32 4471 Dec 23 01:15	1°る24'26	0.67792 AU 0°46'04
min. Earth dist.	4471 Jan 07 10:16 4471 Jan 07 10:44	17° <b>る</b> 53'10	0.68049 AU	minimum elong	4471 Dec 23 01:15 4471 Dec 23 00:10	1°る2426 1°る28'04	0°45'37
morning rise	4471 Jan 07 10.44 4471 Jan 12 23:16	17 33413 11°る20'08	0.00049 AU	mminum ciong	4471 Dec 23 00:10 4471 Dec 24 02:36	1 02804 30°R <i>≯</i> 7	U 7331
direct	4471 Jan 12 23:16 4471 Jan 17 09:25	9° <b>る</b> 32'52		morning rice	4471 Dec 24 02:36 4471 Dec 28 10:27	30° <b>₹</b> ₹¹ 25° <b>₹</b> ¹21'48	
morning max el	4471 Jan 17 09:25 4471 Jan 26 05:14	9°63232 14° <b>る</b> 41'20	21°33'43	morning rise direct	4471 Dec 28 10:27 4472 Jan 01 07:04	23°×'21'48 23°× <b>7</b> 56'54	
morning max er	4471 Jan 26 05:14 4471 Feb 07 11:09	0°≈	41 3343	morning max el	4472 Jan 01 07:04 4472 Jan 09 02:20	28° <b>×</b> '36'34'	20°18'11
desc. node	4471 Feb 07 11:09 4471 Feb 08 15:31	0°≈ 1°≈39'59		morning max ei	4472 Jan 09 02:20 4472 Jan 10 14:50	28° <b>×</b> '23'49	20 1011
morning set	4471 Feb 08 13.31 4471 Feb 27 01:18	1 ≈3939 29°≈25'04		desc. node	4472 Jan 26 12:34	0 3 21° <b>る</b> 43'07	
morning set	4471 Feb 27 01:18 4471 Feb 27 10:06	29° <b>≈</b> 23°04 0° <b>∺</b>		uese. Hout	4472 Jan 26 12:34 4472 Feb 01 00:25	21° <b>⊙</b> 4307	
	TT/11CU 2/ 10.00	υ <b>Λ</b>			TT/2100 01 00.23	v ~	

	4450 F 1 06 00 05	70 20112			4472 X 12 00 27	120 702140	
morning set	4472 Feb 06 00:07	7°≈39'13		desc. node	4473 Jan 12 09:37	12° <b>る</b> 03'49	
max. Earth dist.	4472 Feb 15 23:12	23° <b>≈</b> 20'05	1.43640 AU	morning set	4473 Jan 15 00:19	16° <b>る</b> 06'33	
	4472 Feb 20 01:54	0° <b>∀</b>			4473 Jan 23 22:26	0° <b>≈</b>	
				max. Earth dist.	4473 Jan 28 13:23	7° <b>≈</b> 15'38	1.44810 AU
superior conj	4472 Feb 21 23:35	3° <b>₩</b> 07'46					
minimum elong	4472 Feb 21 21:17	2° <b>¥</b> 58'17	2°06'51	superior conj	4473 Jan 31 17:50	12° <b>≈</b> 18′15	-1°50'00
evening rise	4472 Mar 05 14:44	24° <b>)</b> 37′20		minimum elong	4473 Jan 31 09:44	11° <b>≈</b> 46′07	1°49'24
	4472 Mar 08 16:52	$0$ ° $\Upsilon$			4473 Feb 11 16:44	0° <b>∀</b>	
asc. node	4472 Mar 17 17:50	14° <b>Ƴ</b> 57'58		evening rise	4473 Feb 15 04:14	5° <b>)</b> 44′23	
evening max el	4472 Mar 23 02:43	21° <b>Y</b> 47'01	18°08'18		4473 Mar 02 09:00	$0^{\circ}\mathbf{\Upsilon}$	
retrograde	4472 Mar 29 13:39	25° <b>Ƴ</b> 09'38		asc. node	4473 Mar 04 14:51	2° <b>Y</b> 55'19	
evening set	4472 Apr 01 09:07	24° <b>Y</b> 30'01		evening max el	4473 Mar 06 15:12	5° <b>Ƴ</b> 10′10	18°25'26
inferior conj	4472 Apr 07 15:18	19° <b>Ƴ</b> 19'35	3°25'55	retrograde	4473 Mar 13 02:51	8° <b>Ƴ</b> 41'44	
minimum elong	4472 Apr 07 16:56	19° <b>Ƴ</b> 15'18	3°25'45	evening set	4473 Mar 16 04:20	7° <b>Y</b> 50'05	
min. Earth dist.	4472 Apr 10 12:02	16° <b>Ƴ</b> 20'38	0.62398 AU	inferior conj	4473 Mar 22 00:47	2° <b>Y</b> 21'19	3°35'12
morning rise	4472 Apr 13 23:21	13° <b>Ƴ</b> 16'37		minimum elong	4473 Mar 22 00:45	2° <b>Y</b> 21'25	
direct	4472 Apr 20 19:55	10° <b>Ƴ</b> 44'51			4473 Mar 24 01:21	30°R <b>)</b> €	
desc. node	4472 Apr 23 11:44	11° <b>Y</b> 05'40		min. Earth dist.	4473 Mar 24 06:38	29° <b>¥</b> 44'59	0.64317 AU
morning max el	4472 May 04 21:46	18° <b>Y</b> 44'16	27°51'50	morning rise	4473 Mar 27 20:25	26° <b>)</b> 10'48	0.01317710
morning max cr	4472 May 14 09:47	0°8	27 31 30	direct	4473 Apr 03 15:38	23°\(\)23'00	
	4472 Jun 02 00:22	0°II		desc. node	4473 Apr 10 08:46	25° <b>H</b> 36'04	
morning set	4472 Jun 02 00:22 4472 Jun 07 17:42	11° <b>Ⅱ</b> 09'17		desc. Hode	4473 Apr 15 22:27	25 <b>γ</b> (30 04	
•		22° <b>I</b> I46'31	1.32452 AU	morning max el	-	1° <b>Υ</b> 19'20	27929100
max. Earth dist.	4472 Jun 13 06:55	23° <b>I</b> I41'33	1.32432 AU	morning max ei	4473 Apr 17 07:00	0° <b>8</b>	27-28:00
asc. node	4472 Jun 13 17:08	23°Щ41°33		. ,	4473 May 08 12:57	_	
	44 <b>50</b> X	0.50 T 0.512.4	001 (100	morning set	4473 May 22 10:58	24° <b>8</b> 57'45	
superior conj	4472 Jun 15 06:48	27° <b>Ⅱ</b> 05'34	0°16'22		4473 May 24 23:33	0°II	
minimum elong	4472 Jun 15 06:03	27° <b>Ⅱ</b> 01′25	0°16'12	max. Earth dist.	4473 May 27 07:06	4°Щ44'46	1.33315 AU
	4472 Jun 16 14:49	0ංම				_	
evening rise	4472 Jun 22 04:45	12° <b>©</b> 05'56		superior conj	4473 May 30 12:06	11° <b>∏</b> 29'40	
	4472 Jul 01 06:15	$0^{\circ}\Omega$		minimum elong	4473 May 30 12:41	11° <b>Ⅱ</b> 32'43	0°11'11
evening max el	4472 Jul 16 16:09	21° <b>Ω</b> 24'40	24°04'01	behind sun begin	4473 May 30 08:46	11° <b>Ⅱ</b> 11'53	
desc. node	4472 Jul 20 11:00	24° <b>Ω</b> 37'14		behind sun end	4473 May 30 16:36	11° <b>Ⅱ</b> 53'35	
retrograde	4472 Jul 30 10:41	28° <b>Ω</b> 20'49		asc. node	4473 May 31 14:09	13° <b>Ⅱ</b> 48'39	
evening set	4472 Aug 04 01:10	27° <b>Ω</b> 33'52		evening rise	4473 Jun 06 16:10	26° <b>∏</b> 49'23	
min. Earth dist.	4472 Aug 10 02:38	24° <b>Ω</b> 35'35	0.56328 AU		4473 Jun 08 04:36	$0$ $\circ$ $\odot$	
inferior conj	4472 Aug 12 13:26	23° <b>Ω</b> 04'57	-5°07'27		4473 Jun 26 12:27	$0^{\circ}\Omega$	
minimum elong	4472 Aug 12 10:07	23° <b>Ω</b> 10′06	5°07'11	evening max el	4473 Jun 28 06:07	1° <b>Ω</b> 47'35	22°26'48
morning rise	4472 Aug 20 21:38	19° <b>Ω</b> 06'26		desc. node	4473 Jul 07 07:59	7° <b>Ω</b> 40'25	
direct	4472 Aug 23 15:15	18° <b>Ω</b> 47'01		retrograde	4473 Jul 11 07:28	8° <b>Ω</b> 16'56	
morning max el	4472 Sep 02 12:32	23° <b>Ω</b> 23'04	19°48'49	evening set	4473 Jul 14 09:59	7° <b>Ω</b> 55'41	
	4472 Sep 08 02:45	0° m⊅		min. Earth dist.	4473 Jul 22 13:10	4° <b>Ω</b> 23'31	0.55140 AU
asc. node	4472 Sep 09 16:23	2° m 19'23		inferior conj	4473 Jul 23 14:53	3° <b>Ω</b> 47'02	-4°16'55
morning set	4472 Sep 20 07:52	21° m 53'03		minimum elong	4473 Jul 23 06:38	3° <b>Ω</b> 58'45	
	4472 Sep 24 07:42	0∘ <b>⊽</b>			4473 Jul 31 23:44	30°Rூ	
	z sep 2. oz	<u> </u>		morning rise	4473 Aug 01 05:15	29°556'44	
superior conj	4472 Sep 28 03:49	7° <b>£</b> 43'37	1°41'35	direct	4473 Aug 04 07:08	29° <b>©</b> 35'13	
minimum elong	4472 Sep 28 05:06	7° <b>⊆</b> 50'01	1°41'31	ancer	4473 Aug 07 12:14	0° <b>Ω</b>	
max. Earth dist.	4472 Oct 04 00:22	19° <b>⊆</b> 03'02	1.37256 AU	morning max el	4473 Aug 15 19:13	4° <b>Ω</b> 56'44	21°10'12
evening rise	4472 Oct 07 00:22 4472 Oct 07 18:52	25° <b>£</b> 58'08	1.57250710	asc. node	4473 Aug 27 13:26	20° <b>Ω</b> 54'15	21 10 12
evening rise	4472 Oct 10 01:31	0°M		asc. node	4473 Sep 01 09:49	0° m	
desc. node	4472 Oct 16 01:31 4472 Oct 16 10:21	10°ML43'01		morning set	4473 Sep 01 09.49 4473 Sep 04 15:57	6° Mp 36'46	
desc. node		10 IIC43 01 0° <b>⊼</b> 1		morning set	44/3 Sep 04 13.3/	0 11/3040	
	4472 Oct 29 06:32		25920125		4472 C 12 00-20	210 m 50120	1942152
evening max el	4472 Nov 12 12:21	17° 🗷 11'34	25°30'35	superior conj	4473 Sep 12 00:39	21° m 59'30	
retrograde	4472 Nov 24 16:38	24° 🖈 11'41		minimum elong	4473 Sep 12 00:24	21° m 58'16	1°43'51
evening set	4472 Nov 30 14:52	21° <b>х</b> 43'48			4473 Sep 15 23:10	0∘ <b>⊽</b>	
min. Earth dist.	4472 Dec 05 00:15	16° <b>₹</b> ′54'18	0.67179 AU	max. Earth dist.	4473 Sep 16 09:58	0° <b>£</b> 53'41	1.35415 AU
inferior conj	4472 Dec 06 05:34	15° <b>∡</b> 20′09		evening rise	4473 Sep 20 14:14	8° <b>≏</b> 58'54	
minimum elong	4472 Dec 06 05:47	15° <b>∡</b> 19'27	0°08'27		4473 Oct 02 15:52	0°M	
transit middle	4472 Dec 06 05:47	15° <b>⊀</b> 19'27	0°08'27	desc. node	4473 Oct 03 07:20	1°M01'40	
transit begin	4472 Dec 06 03:24	15° <b>∡</b> 27'08			4473 Oct 25 03:38	0°⊀	
transit end	4472 Dec 06 08:10	15° <b>∡</b> 11'47		evening max el	4473 Oct 26 00:54	0° <b>х</b> 52′16	26°31'59
asc. node	4472 Dec 06 15:34	14° <b>∡</b> °48′05		retrograde	4473 Nov 07 22:46	8° <b>₰</b> 06'14	
morning rise	4472 Dec 11 21:02	9° <b>∡</b> 125′13		evening set	4473 Nov 14 09:59	5° <b>≯</b> 28'38	
direct	4472 Dec 15 05:42	8° <b>∡</b> ¹20′09		min. Earth dist.	4473 Nov 18 12:32	1° <b>⊀</b> 14′29	0.66218 AU
morning max el	4472 Dec 22 07:20	12° <b>∡</b> 16'42	19°16'35		4473 Nov 19 13:24	30°RM	
	4473 Jan 04 12:38	ರ°0		inferior conj	4473 Nov 20 05:14	29°M12'11	-1°07'38
greatest brilliancy	4473 Jan 04 19:28	0° <b>る</b> 25'45	-0.7m	minimum elong	4473 Nov 20 07:06	29°M06'35	1°06'50
· ·				-			

asc. node morning rise direct morning max el	4473 Nov 23 12:38 4473 Nov 26 04:54 4473 Nov 29 03:42 4473 Dec 05 18:48 4473 Dec 09 00:58 4473 Dec 25 23:49	25°M30'57 23°M27'29 22°M38'33 26°M15'36 0° ×7 25° ×7'47'42	18°30'45	asc. node direct morning max el morning set desc. node	4474 Nov 10 09:42 4474 Nov 12 22:52 4474 Nov 19 10:21 4474 Dec 03 00:32 4474 Dec 07 05:02 4474 Dec 17 03:39	7°M22'31 6°M48'12 10°M15'11 0° <del>**</del> 6° <del>**</del> 57'55 23° <del>**</del> 18'06	18°01'41
desc. node	4473 Dec 28 15:11 4473 Dec 30 06:38	0°る 2°る36'43		superior conj minimum elong	4474 Dec 21 05:32 4474 Dec 21 02:06	29° 🗷 50'50 29° 🗷 37'08	-0°27'54 0°27'25
superior conj minimum elong max. Earth dist.	4474 Jan 10 21:09 4474 Jan 10 12:29 4474 Jan 11 07:30	20°554'06 20°520'08 21°534'40	-1°14'20 1°13'19 1.45284 AU	max. Earth dist.	4474 Dec 21 07:50 4474 Dec 25 02:58 4475 Jan 06 12:35	0°る 6°る01'07 25°る19'49	1.45018 AU
evening rise	4474 Jan 16 16:22 4474 Jan 26 18:21 4474 Feb 04 16:07	0°≈ 15°≈54'02 0° <del>X</del>	1.43204 AU	greatest brilliancy	4475 Jan 09 13:20 4475 Jan 20 09:46 4475 Jan 30 07:10	0°≈ 16°≈28'25 0° ₩	-0.7m
greatest brilliancy evening max el	4474 Feb 05 01:52 4474 Feb 18 01:17	0° ★38'10 18° ★39'37 20° ★01'13	-0.8m 19°00'23	evening max el asc. node	4475 Feb 01 07:05 4475 Feb 06 08:57	2° ¥ 12'02 6° ¥ 01'59 6° ¥ 33'46	19°51'30
asc. node retrograde evening set	4474 Feb 19 11:53 4474 Feb 24 21:44 4474 Feb 28 05:54	20°\tag{01'13} 22°\tag{31'25} 21°\tag{26'47} 15°\tag{41'22}	2020102	retrograde evening set	4475 Feb 08 19:24 4475 Feb 12 11:26 4475 Feb 17 08:02	5° <b>光</b> 15′07 30° <b>R</b> ≈≈	2000120
inferior conj minimum elong min. Earth dist.	4474 Mar 05 19:52 4474 Mar 05 18:31 4474 Mar 07 10:11	15° <b>)</b> 45'38 13° <b>)</b> 40'37	3°27'56 0.65870 AU	inferior conj minimum elong min. Earth dist.	4475 Feb 17 21:32 4475 Feb 17 19:23 4475 Feb 18 21:16	29°≈15'07 29°≈22'18 27°≈55'57	3°07'54 0.67003 AU
morning rise direct desc. node	4474 Mar 11 06:46 4474 Mar 17 18:12 4474 Mar 28 05:50	9°¥27'49 6°¥37'55 11°¥57'21		morning rise direct morning max el	4475 Feb 23 03:06 4475 Mar 01 02:28 4475 Mar 13 01:56	23°≈00'59 20°≈20'53 27°≈30'02	25°17'57
morning max el	4474 Mar 30 16:54 4474 Apr 12 11:44 4474 May 01 06:36	14°¥18′02 0°Υ 0°Β	26°33'43	desc. node	4475 Mar 15 02:53 4475 Mar 15 10:26 4475 Apr 06 04:03	29°≈39'12 0° <b>ℋ</b> 0° <b>Ƴ</b>	
morning set max. Earth dist.	4474 May 05 16:48 4474 May 09 20:25	8° <b>8</b> 08'38 16° <b>8</b> 10'24	1.34648 AU	morning set max. Earth dist.	4475 Apr 18 06:40 4475 Apr 21 22:48 4475 Apr 23 09:54	20° <b>Y</b> 29'20 27° <b>Y</b> 14'22 0° <b>と</b>	1.36425 AU
superior conj minimum elong	4474 May 14 11:08 4474 May 14 13:18 4474 May 16 15:04	25°830'23 25°841'36 0°II	-0°40'30 0°40'05	superior conj minimum elong	4475 Apr 28 01:06 4475 Apr 28 04:52	9° <b>8</b> 00'17 9° <b>8</b> 18'58	
asc. node evening rise	4474 May 18 11:11 4474 May 22 01:20 4474 May 31 19:43	3°∏50'51 11°∏21'05 0°©		asc. node evening rise	4475 May 05 08:14 4475 May 06 06:05 4475 May 08 10:59	23° <b>8</b> 44'17 25° <b>8</b> 34'59 0° <b>I</b> I	
evening max el retrograde evening set	4474 Jun 10 04:30 4474 Jun 21 20:07 4474 Jun 24 00:00	12°930'09 18°912'55 18°901'53	20°57'27	evening max el retrograde evening set	4475 May 23 15:04 4475 Jun 02 13:01 4475 Jun 04 11:37	23°Д51'20 28°Д41'21 28°Д31'03	19°44'44
desc. node inferior conj minimum elong	4474 Jun 24 05:01 4474 Jul 03 08:06 4474 Jul 03 00:54	17°559'42 14°504'33 14°514'44		desc. node inferior conj minimum elong	4475 Jun 11 02:04 4475 Jun 13 07:40 4475 Jun 13 05:50	25°П49'43 24°П28'42 24°П31'32	
min. Earth dist. morning rise direct	4474 Jul 04 00:22 4474 Jul 12 01:44 4474 Jul 15 16:26	13°541'32 10°503'58 9°535'52	0.54829 AU	min. Earth dist. morning rise direct	4475 Jun 15 13:19 4475 Jun 21 21:51 4475 Jun 26 07:43	23° <b>I</b> 105'46 19° <b>I</b> 159'47 19° <b>I</b> 16'45	0.55484 AU
morning max el	4474 Jul 28 15:09 4474 Aug 08 17:53 4474 Aug 14 10:29	15°547'18 0°Ω 10°Ω01'40	22°48'00	morning max el asc. node	4475 Jul 10 05:19 4475 Jul 13 20:20 4475 Aug 01 07:31	26°II11'53 0°© 29°©33'03	24°31'38
morning set	4474 Aug 20 02:45 4474 Aug 24 02:45	21° <b>Ω</b> 28'12 0° <b>™</b>		morning set	4475 Aug 01 12:51 4475 Aug 04 14:32	0° <b>Ω</b> 6° <b>Ω</b> 21'51	
superior conj minimum elong max. Earth dist.	4474 Aug 27 04:43 4474 Aug 27 03:19 4474 Aug 30 04:25	6° m 36'21 6° m 28'52 12° m 54'34	1°39'20 1°39'15 1.33934 AU	superior conj minimum elong max. Earth dist.	4475 Aug 11 13:23 4475 Aug 11 11:17 4475 Aug 13 07:28	21° <b>Ω</b> 14'12	
evening rise  desc. node	4474 Sep 03 23:58 4474 Sep 07 19:39 4474 Sep 20 04:21	22° M 40'35 0° <u>Ω</u> 20° <u>Ω</u> 59'50		evening rise	4475 Aug 15 12:58 4475 Aug 18 20:11 4475 Aug 31 08:12	0° ነው 6° ነው 51'49 0° <u>ሴ</u>	
evening max el	4474 Sep 26 08:53 4474 Oct 08 13:33	0°M 14°M23'10	27°13'03	desc. node evening max el	4475 Sep 07 01:22 4475 Sep 21 00:26	10° <b>Ω</b> 28'14 27° <b>Ω</b> 30'45 0° <b>M</b>	27°26'56
retrograde evening set min. Earth dist.	4474 Oct 21 23:02 4474 Oct 28 21:02 4474 Nov 01 17:27	21°M41'00 19°M00'21 15°M21'23		retrograde evening set	4475 Sep 23 20:28 4475 Oct 04 16:50 4475 Oct 11 20:59	4°M46'45 2°M12'23	
inferior conj minimum elong morning rise	4474 Nov 03 22:05 4474 Nov 04 01:47 4474 Nov 10 07:36	12°M56'17 12°M46'05 7°M24'53		min. Earth dist. inferior conj	4475 Oct 14 13:33 4475 Oct 15 12:45 4475 Oct 18 05:24	30° <b>₹</b> Ω 29°Ω05'32 26°Ω25'21	0.63276 AU -3°11'22

minimum elong	4475 Oct 18 10:44	26° <b>£</b> 12'04	3°09'33	minimum elong	4476 Sep 30 06:04	9° <b>≏</b> 18'12	4°07'13
morning rise	4475 Oct 25 01:59	21° <b>£</b> 10'51	3 0, 33	morning rise	4476 Oct 07 08:02	4° <b>£</b> 37'21	. 0, 15
direct	4475 Oct 27 12:17	20° <b>£</b> 42'45		direct	4476 Oct 09 16:12	4° <b>Ω</b> 14'46	
asc. node	4475 Oct 28 06:47	20° <b>£</b> 45'38		asc. node	4476 Oct 14 03:48	5° <b>Ω</b> 41'07	
morning max el	4475 Nov 03 03:05	24° <b>₽</b> 08'10	17°50'04	morning max el	4476 Oct 16 17:52		17°56'54
	4475 Nov 07 20:36	0°M		3	4476 Oct 31 02:14	0°M	
morning set	4475 Nov 19 11:25	19°M20'50		morning set	4476 Nov 01 12:33	2°M37'06	
8	4475 Nov 25 14:57	0° <b>∡</b> 7		3			
				superior conj	4476 Nov 11 20:50	21° <b>M</b> 14'35	0°54'41
superior conj	4475 Dec 01 11:48	9° <b>х</b> 53′26	0°17'40	minimum elong	4476 Nov 12 00:48	21° <b>M</b> 31'54	0°54'11
minimum elong	4475 Dec 01 13:37	10° <b>∡</b> ¹00'54	0°17'25	-	4476 Nov 16 23:36	0° <b>∡</b> ¹	
desc. node	4475 Dec 04 00:40	14° <b>∡</b> ¹03'56		max. Earth dist.	4476 Nov 19 09:40	4° <b>∡</b> 01'37	1.42486 AU
max. Earth dist.	4475 Dec 07 20:39	20° <b>∡</b> 16′07	1.44046 AU	desc. node	4476 Nov 19 21:42	4° <b>∡</b> 751'11	
	4475 Dec 14 00:26	ರ∘ರ		evening rise	4476 Nov 25 15:38	14° <b>∡</b> °07′00	
evening rise	4475 Dec 16 22:19	4° <b>る</b> 30'55			4476 Dec 06 00:20	8°0	
	4476 Jan 03 00:14	0° <b>≈</b>		evening max el	4476 Dec 28 02:18	29° <b>る</b> 19'05	22°11'06
evening max el	4476 Jan 15 07:24	15° <b>≈</b> 44'57	20°56'19		4476 Dec 28 18:46	0° <b>≈</b>	
retrograde	4476 Jan 23 17:31	20° <b>≈</b> 43'48		retrograde	4477 Jan 06 14:14	4° <b>≈</b> 58'09	
asc. node	4476 Jan 24 06:01	20° <b>≈</b> 42'19		asc. node	4477 Jan 10 03:03	3° <b>≈</b> 51'46	
evening set	4476 Jan 27 18:52	19° <b>≈</b> 10′14		evening set	4477 Jan 11 02:31	3° <b>≈</b> 09'00	
inferior conj	4476 Feb 02 03:14	12° <b>≈</b> 58′16	2°38'31		4477 Jan 14 01:58	30°Ŗる	
minimum elong	4476 Feb 02 00:47	13° <b>≈</b> 06'43	2°37'51	inferior conj	4477 Jan 16 10:53	26° <b>る</b> 48'26	2°00'21
min. Earth dist.	4476 Feb 02 13:52	12° <b>≈</b> 21'37	0.67714 AU	minimum elong	4477 Jan 16 08:37	26° <b>る</b> 56'20	1°59'34
morning rise	4476 Feb 07 06:31	6° <b>≈</b> 45'09		min. Earth dist.	4477 Jan 16 09:44	26° <b>る</b> 52'25	0.68030 AU
direct	4476 Feb 12 15:35	4° <b>≈</b> 22'56		morning rise	4477 Jan 21 14:34	20° <b>る</b> 37'48	
morning max el	4476 Feb 23 10:36	10° <b>≈</b> 48′52	23°50'48	direct	4477 Jan 26 08:51	18° <b>る</b> 37'31	
desc. node	4476 Feb 29 23:55	18° <b>≈</b> 18′08		morning max el	4477 Feb 04 21:30	24° <b>る</b> 14'16	22°22'03
	4476 Mar 09 16:39	0° <b>∀</b>			4477 Feb 10 00:12	0° <b>≈</b>	
	4476 Mar 28 22:20	$0^{\circ}\mathbf{\Upsilon}$		desc. node	4477 Feb 15 20:57	7° <b>≈</b> 38'12	
morning set	4476 Mar 29 22:48	1° <b>Y</b> 44'17			4477 Mar 03 03:15	0° <b>∀</b>	
max. Earth dist.	4476 Apr 02 18:49	8° <b>Y</b> 25'08	1.38516 AU	morning set	4477 Mar 10 11:27	11° <b>)</b> 39'13	
				max. Earth dist.	4477 Mar 15 15:20	20° <b>)</b> 12′52	1.40696 AU
superior conj	4476 Apr 10 02:23	21° <b>Y</b> 49'48			4477 Mar 21 07:17	$0^{\circ}$ Y	
minimum elong	4476 Apr 10 07:10	22°Υ12'30	1°35'56			20001-110	
							1057121
	4476 Apr 14 08:31	0° <b>8</b>		superior conj	4477 Mar 23 10:22	3° <b>Υ</b> 47'18	
evening rise	4476 Apr 19 03:45	9° <b>8</b> 23'32		minimum elong	4477 Mar 23 14:39	4° <b>Υ</b> ′06′32	
evening rise asc. node	4476 Apr 19 03:45 4476 Apr 21 05:17	9° <b>8</b> 23'32 13° <b>8</b> 24'24			4477 Mar 23 14:39 4477 Apr 02 14:59	4° <b>Υ</b> ′06'32 22° <b>Υ</b> ′37'34	
asc. node	4476 Apr 19 03:45 4476 Apr 21 05:17 4476 Apr 30 17:20	9° <b>႘</b> 23'32 13° <b>႘</b> 24'24 0°Ⅱ	1005202	minimum elong evening rise	4477 Mar 23 14:39 4477 Apr 02 14:59 4477 Apr 06 13:58	4°Υ06'32 22°Υ37'34 0°8	
asc. node evening max el	4476 Apr 19 03:45 4476 Apr 21 05:17 4476 Apr 30 17:20 4476 May 05 13:00	9° <b>8</b> 23'32 13° <b>8</b> 24'24 0° <b>Ⅱ</b> 5° <b>Ⅱ</b> 53'41	18°52'02	minimum elong evening rise asc. node	4477 Mar 23 14:39 4477 Apr 02 14:59 4477 Apr 06 13:58 4477 Apr 08 02:19	4°Υ06'32 22°Υ37'34 0°႘ 2°႘45'10	1°57'13
asc. node evening max el retrograde	4476 Apr 19 03:45 4476 Apr 21 05:17 4476 Apr 30 17:20 4476 May 05 13:00 4476 May 13 21:40	9° <b>8</b> 23'32 13° <b>8</b> 24'24 0° <b>I</b> 5° <b>I</b> 53'41 9° <b>I</b> 59'27	18°52'02	minimum elong evening rise asc. node evening max el	4477 Mar 23 14:39 4477 Apr 02 14:59 4477 Apr 06 13:58 4477 Apr 08 02:19 4477 Apr 18 19:16	4°Υ06'32 22°Υ37'34 0°႘ 2°႘45'10 18°႘29'42	
asc. node evening max el retrograde evening set	4476 Apr 19 03:45 4476 Apr 21 05:17 4476 Apr 30 17:20 4476 May 05 13:00 4476 May 13 21:40 4476 May 16 00:26	9° <b>8</b> 23'32 13° <b>8</b> 24'24 0° <b>П</b> 5° <b>П</b> 53'41 9° <b>П</b> 59'27 9° <b>П</b> 44'44		minimum elong evening rise asc. node evening max el retrograde	4477 Mar 23 14:39 4477 Apr 02 14:59 4477 Apr 06 13:58 4477 Apr 08 02:19 4477 Apr 18 19:16 4477 Apr 26 01:10	4°Υ06'32 22°Υ37'34 0°႘ 2°႘45'10 18°႘29'42 22°႘06'09	1°57'13
asc. node  evening max el retrograde evening set inferior conj	4476 Apr 19 03:45 4476 Apr 21 05:17 4476 Apr 30 17:20 4476 May 05 13:00 4476 May 13 21:40 4476 May 16 00:26 4476 May 24 01:08	9° <b>8</b> 23'32 13° <b>8</b> 24'24 0° <b>П</b> 5° <b>П</b> 53'41 9° <b>П</b> 59'27 9° <b>П</b> 44'44 5° <b>П</b> 26'23	1°07'11	minimum elong evening rise  asc. node evening max el retrograde evening set	4477 Mar 23 14:39 4477 Apr 02 14:59 4477 Apr 06 13:58 4477 Apr 08 02:19 4477 Apr 18 19:16 4477 Apr 26 01:10 4477 Apr 28 10:39	4°Y06'32 22°Y37'34 0°8 2°845'10 18°829'42 22°806'09 21°843'27	1°57'13 18°19'39
asc. node  evening max el retrograde evening set inferior conj minimum elong	4476 Apr 19 03:45 4476 Apr 21 05:17 4476 Apr 30 17:20 4476 May 05 13:00 4476 May 13 21:40 4476 May 16 00:26 4476 May 24 01:08 4476 May 24 03:36	9° <b>8</b> 23'32 13° <b>8</b> 24'24 0° <b>П</b> 5° <b>П</b> 53'41 9° <b>П</b> 59'27 9° <b>П</b> 44'44 5° <b>П</b> 26'23 5° <b>П</b> 21'55	1°07'11 1°06'19	minimum elong evening rise  asc. node evening max el retrograde evening set inferior conj	4477 Mar 23 14:39 4477 Apr 02 14:59 4477 Apr 06 13:58 4477 Apr 08 02:19 4477 Apr 18 19:16 4477 Apr 26 01:10 4477 Apr 28 10:39 4477 May 05 16:06	4°Υ06'32 22°Υ37'34 0°႘ 2°႘45'10 18°႘29'42 22°႘06'09 21°႘43'27 17°႘05'12	1°57'13 18°19'39 2°24'34
asc. node  evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	4476 Apr 19 03:45 4476 Apr 21 05:17 4476 Apr 30 17:20 4476 May 05 13:00 4476 May 13 21:40 4476 May 16 00:26 4476 May 24 01:08 4476 May 24 03:36 4476 May 27 05:28	9° <b>8</b> 23'32 13° <b>8</b> 24'24 0° <b>П</b> 5° <b>П</b> 53'41 9° <b>П</b> 59'27 9° <b>П</b> 44'44 5° <b>П</b> 26'23 5° <b>П</b> 21'55 3° <b>П</b> 10'00	1°07'11	minimum elong evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong	4477 Mar 23 14:39 4477 Apr 02 14:59 4477 Apr 06 13:58 4477 Apr 08 02:19 4477 Apr 18 19:16 4477 Apr 26 01:10 4477 Apr 28 10:39 4477 May 05 16:06 4477 May 05 19:42	4°Y06'32 22°Y37'34 0°8 2°845'10 18°829'42 22°806'09 21°843'27 17°805'12 16°857'37	1°57'13 18°19'39 2°24'34 2°23'37
asc. node  evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	4476 Apr 19 03:45 4476 Apr 21 05:17 4476 Apr 30 17:20 4476 May 05 13:00 4476 May 13 21:40 4476 May 16 00:26 4476 May 24 01:08 4476 May 24 03:36 4476 May 27 05:28 4476 May 27 23:06	9° <b>8</b> 23'32 13° <b>8</b> 24'24 0° <b>П</b> 5° <b>П</b> 53'41 9° <b>П</b> 59'27 9° <b>П</b> 44'44 5° <b>П</b> 26'23 5° <b>П</b> 21'55 3° <b>П</b> 10'00 2° <b>П</b> 40'15	1°07'11 1°06'19	minimum elong evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	4477 Mar 23 14:39 4477 Apr 02 14:59 4477 Apr 06 13:58 4477 Apr 08 02:19 4477 Apr 18 19:16 4477 Apr 26 01:10 4477 Apr 28 10:39 4477 May 05 16:06 4477 May 05 19:42 4477 May 09 02:35	4°Y06'32 22°Y37'34 0°8 2°845'10 18°829'42 22°806'09 21°843'27 17°805'12 16°857'37 14°812'49	1°57'13 18°19'39 2°24'34
asc. node  evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	4476 Apr 19 03:45 4476 Apr 21 05:17 4476 Apr 30 17:20 4476 May 05 13:00 4476 May 13 21:40 4476 May 16 00:26 4476 May 24 01:08 4476 May 24 03:36 4476 May 27 05:28 4476 May 27 23:06 4476 Jun 01 03:31	9°823'32 13°824'24 0°П 5°П53'41 9°П59'27 9°П44'44 5°П26'23 5°П21'55 3°П10'00 2°П40'15 0°П21'16	1°07'11 1°06'19	minimum elong evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	4477 Mar 23 14:39 4477 Apr 02 14:59 4477 Apr 06 13:58 4477 Apr 08 02:19 4477 Apr 18 19:16 4477 Apr 26 01:10 4477 Apr 28 10:39 4477 May 05 16:06 4477 May 05 19:42 4477 May 09 02:35 4477 May 13 01:48	4°Y06'32 22°Y37'34 0°8 2°845'10 18°829'42 22°806'09 21°843'27 17°805'12 16°857'37 14°812'49 11°829'33	1°57'13 18°19'39 2°24'34 2°23'37
asc. node  evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	4476 Apr 19 03:45 4476 Apr 21 05:17 4476 Apr 30 17:20 4476 May 05 13:00 4476 May 13 21:40 4476 May 16 00:26 4476 May 24 01:08 4476 May 24 03:36 4476 May 27 05:28 4476 May 27 23:06 4476 Jun 01 03:31 4476 Jun 02 01:22	9°823'32 13°824'24 0°	1°07'11 1°06'19	minimum elong evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	4477 Mar 23 14:39 4477 Apr 02 14:59 4477 Apr 06 13:58 4477 Apr 08 02:19 4477 Apr 18 19:16 4477 Apr 26 01:10 4477 Apr 28 10:39 4477 May 05 16:06 4477 May 05 19:42 4477 May 09 02:35 4477 May 13 01:48 4477 May 14 20:08	4°Y06'32 22°Y37'34 0°8 2°845'10 18°829'42 22°806'09 21°843'27 17°805'12 16°857'37 14°812'49 11°829'33 10°839'11	1°57'13 18°19'39 2°24'34 2°23'37
asc. node  evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node	4476 Apr 19 03:45 4476 Apr 21 05:17 4476 Apr 30 17:20 4476 May 05 13:00 4476 May 13 21:40 4476 May 16 00:26 4476 May 24 01:08 4476 May 27 03:36 4476 May 27 05:28 4476 May 27 23:06 4476 Jun 01 03:31 4476 Jun 02 01:22 4476 Jun 06 12:18	9°823'32 13°824'24 0° II 5° II 53'41 9° II 59'27 9° II 44'44 5° II 26'23 5° II 21'55 3° II 10'00 2° II 40'15 0° II 21'16 30° R8 29°811'56	1°07'11 1°06'19	minimum elong evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	4477 Mar 23 14:39 4477 Apr 02 14:59 4477 Apr 06 13:58 4477 Apr 08 02:19 4477 Apr 18 19:16 4477 Apr 26 01:10 4477 Apr 28 10:39 4477 May 05 16:06 4477 May 05 19:42 4477 May 09 02:35 4477 May 13 01:48 4477 May 14 20:08 4477 May 19 07:02	4°Y06'32 22°Y37'34 0°8 2°845'10 18°829'42 22°806'09 21°843'27 17°805'12 16°857'37 14°812'49 11°829'33 10°839'11 9°845'35	1°57'13 18°19'39 2°24'34 2°23'37 0.58973 AU
asc. node  evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise  direct	4476 Apr 19 03:45 4476 Apr 21 05:17 4476 Apr 30 17:20 4476 May 05 13:00 4476 May 13 21:40 4476 May 16 00:26 4476 May 24 01:08 4476 May 27 05:28 4476 May 27 05:28 4476 Jun 01 03:31 4476 Jun 02 01:22 4476 Jun 06 12:18 4476 Jun 11 00:12	9°823'32 13°824'24 0°	1°07'11 1°06'19 0.56961 AU	minimum elong evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	4477 Mar 23 14:39 4477 Apr 02 14:59 4477 Apr 06 13:58 4477 Apr 08 02:19 4477 Apr 18 19:16 4477 Apr 26 01:10 4477 Apr 28 10:39 4477 May 05 16:06 4477 May 05 19:42 4477 May 13 01:48 4477 May 14 20:08 4477 May 19 07:02 4477 Jun 02 16:26	4°Y06'32 22°Y37'34 0°8 2°845'10 18°829'42 22°806'09 21°843'27 17°805'12 16°857'37 14°812'49 11°829'33 10°839'11 9°845'35 17°832'59	1°57'13 18°19'39 2°24'34 2°23'37 0.58973 AU
asc. node  evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise	4476 Apr 19 03:45 4476 Apr 21 05:17 4476 Apr 30 17:20 4476 May 05 13:00 4476 May 13 21:40 4476 May 16 00:26 4476 May 24 01:08 4476 May 27 05:28 4476 May 27 05:28 4476 Jun 01 03:31 4476 Jun 02 01:22 4476 Jun 06 12:18 4476 Jun 11 00:12 4476 Jun 20 20:20	9°823'32 13°824'24 0° II 5° II 53'41 9° II 59'27 9° II 44'44 5° II 26'23 5° II 21'55 3° II 10'00 2° II 40'15 0° II 21'16 30° R8 29°811'56 0° II	1°07'11 1°06'19 0.56961 AU	minimum elong evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	4477 Mar 23 14:39 4477 Apr 02 14:59 4477 Apr 06 13:58 4477 Apr 08 02:19 4477 Apr 18 19:16 4477 Apr 26 01:10 4477 Apr 28 10:39 4477 May 05 16:06 4477 May 05 19:42 4477 May 13 01:48 4477 May 14 20:08 4477 May 19 07:02 4477 Jun 02 16:26 4477 Jun 13 00:31	4°Y06'32 22°Y37'34 0°8 2°845'10 18°829'42 22°806'09 21°843'27 17°805'12 16°857'37 14°812'49 11°829'33 10°839'11 9°845'35 17°832'59 0°II	1°57'13 18°19'39 2°24'34 2°23'37 0.58973 AU
asc. node  evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise  direct	4476 Apr 19 03:45 4476 Apr 21 05:17 4476 Apr 30 17:20 4476 May 05 13:00 4476 May 13 21:40 4476 May 16 00:26 4476 May 24 01:08 4476 May 27 05:28 4476 May 27 05:28 4476 Jun 01 03:31 4476 Jun 02 01:22 4476 Jun 06 12:18 4476 Jun 11 00:12 4476 Jun 20 20:20 4476 Jul 08 01:25	9°823'32 13°824'24 0°	1°07'11 1°06'19 0.56961 AU	minimum elong evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	4477 Mar 23 14:39 4477 Apr 02 14:59 4477 Apr 06 13:58 4477 Apr 08 02:19 4477 Apr 18 19:16 4477 Apr 26 01:10 4477 Apr 28 10:39 4477 May 05 16:06 4477 May 05 19:42 4477 May 13 01:48 4477 May 14 20:08 4477 May 19 07:02 4477 Jun 02 16:26 4477 Jun 13 00:31 4477 Jun 30 13:23	4°Y06'32 22°Y37'34 0°8 2°845'10 18°829'42 22°806'09 21°843'27 17°805'12 16°857'37 14°812'49 11°829'33 10°839'11 9°845'35 17°832'59 0°II 0°©	1°57'13 18°19'39 2°24'34 2°23'37 0.58973 AU
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asc. node  evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise  direct  morning max el asc. node morning set  superior conj minimum elong max. Earth dist. evening rise	4476 Apr 19 03:45 4476 Apr 21 05:17 4476 Apr 30 17:20 4476 May 05 13:00 4476 May 13 21:40 4476 May 16 00:26 4476 May 24 01:08 4476 May 27 05:28 4476 May 27 05:28 4476 Jun 01 03:31 4476 Jun 02 01:22 4476 Jun 06 12:18 4476 Jun 11 00:12 4476 Jun 08 01:25 4476 Jul 08 01:25 4476 Jul 18 04:33 4476 Jul 19 01:41 4476 Jul 23 03:22 4476 Jul 26 16:32 4476 Aug 01 23:46 4476 Aug 06 05:47	9°823'32 13°824'24 0°II 5°II53'41 9°II59'27 9°II44'44 5°II26'23 5°II21'55 3°II10'00 2°II40'15 0°II21'16 30°R8 29°811'56 0°II 6°II39'10 0°5 19°521'43 21°512'51 0°\Omega 6°\Omega20'54 6°\Omega20'54 6°\Omega20'54 6°\Omega20'54 0°\Omega20'54 0°\Omega20'54 0°\Omega20'54 0°\Omega20'54 0°\Omega20'54 0°\Omega20'54 0°\Omega20'54 0°\Omega20'54	1°07'11 1°06'19 0.56961 AU 26°05'42 1°13'52 1°13'31	minimum elong evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el  morning set asc. node max. Earth dist. superior conj minimum elong evening rise	4477 Mar 23 14:39 4477 Apr 02 14:59 4477 Apr 06 13:58 4477 Apr 08 02:19 4477 Apr 18 19:16 4477 Apr 26 01:10 4477 Apr 28 10:39 4477 May 05 16:06 4477 May 05 19:42 4477 May 13 01:48 4477 May 13 01:48 4477 May 19 07:02 4477 Jun 02 16:26 4477 Jun 03 10:28 4477 Jul 05 01:34 4477 Jul 05 01:34 4477 Jul 10 10:19 4477 Jul 10 10:19 4477 Jul 11 10:19 4477 Jul 17 08:08 4477 Jul 17 08:08 4477 Jul 17 08:08	4°Y06'32 22°Y37'34 0°8 2°845'10 18°829'42 22°806'09 21°843'27 17°805'12 16°857'37 14°812'49 11°829'33 10°839'11 9°845'35 17°832'59 0°II 0°9 5°954'32 9°921'18 20°928'10 21°914'50 21°903'23 0°\$ 6°\$07'09 0°\$ 17°\$\p00'49	1°57'13  18°19'39  2°24'34  2°23'37  0.58973 AU  27°14'54  1.31978 AU  0°54'23
asc. node  evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise  direct  morning max el asc. node morning set  superior conj minimum elong max. Earth dist. evening rise	4476 Apr 19 03:45 4476 Apr 21 05:17 4476 Apr 30 17:20 4476 May 05 13:00 4476 May 13 21:40 4476 May 16 00:26 4476 May 24 01:08 4476 May 27 05:28 4476 May 27 05:28 4476 Jun 01 03:31 4476 Jun 02 01:22 4476 Jun 06 12:18 4476 Jun 11 00:12 4476 Jun 10 08 01:25 4476 Jul 18 04:33 4476 Jul 18 04:33 4476 Jul 23 03:22 4476 Jul 26 00:35 4476 Jul 26 16:32 4476 Aug 01 23:46 4476 Aug 06 05:47 4476 Aug 23 22:24	9°823'32 13°824'24 0° II 5° II 53'41 9° II 59'27 9° II 44'44 5° II 26'23 5° II 21'55 3° II 10'00 2° II 40'15 0° II 21'16 30° R8 29° 811'56 0° II 6° II 39'10 0° 95 19° 9521'43 21° 9512'51 0° \$\text{\$\alpha\$} 6° \$\text{\$\alpha\$}20'54 6° \$\text{\$\alpha\$}20'54 6° \$\text{\$\alpha\$}23'39 0° IN 29° IN 14'34 0° \$\text{\$\alpha\$}	1°07'11 1°06'19 0.56961 AU 26°05'42 1°13'52 1°13'31	minimum elong evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el  morning set asc. node max. Earth dist.  superior conj minimum elong evening rise desc. node	4477 Mar 23 14:39 4477 Apr 02 14:59 4477 Apr 06 13:58 4477 Apr 08 02:19 4477 Apr 18 19:16 4477 Apr 26 01:10 4477 Apr 28 10:39 4477 May 05 16:06 4477 May 05 19:42 4477 May 13 01:48 4477 May 13 01:48 4477 May 19 07:02 4477 Jun 02 16:26 4477 Jun 03 10:28 4477 Jul 05 01:34 4477 Jul 05 01:34 4477 Jul 10 10:19 4477 Jul 10 10:19 4477 Jul 11 10:19 4477 Jul 17 08:08 4477 Jul 17 08:08 4477 Jul 17 08:08 4477 Jul 29 20:45 4477 Jul 29 20:45 4477 Aug 10 19:24	4°Y06'32 22°Y37'34 0°8 2°845'10 18°829'42 22°806'09 21°843'27 17°805'12 16°857'37 14°812'49 11°829'33 10°839'11 9°845'35 17°832'59 0°II 0°9 5°954'32 9°921'18 20°928'10 21°914'50 21°903'23 0°\$ 6°\$07'09 0°\$ 17°\$\p00'49	1°57'13  18°19'39  2°24'34  2°23'37  0.58973 AU  27°14'54  1.31978 AU  0°54'23 0°53'59
asc. node  evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise  direct  morning max el asc. node morning set  superior conj minimum elong max. Earth dist. evening rise  desc. node	4476 Apr 19 03:45 4476 Apr 21 05:17 4476 Apr 30 17:20 4476 May 05 13:00 4476 May 13 21:40 4476 May 16 00:26 4476 May 24 01:08 4476 May 27 05:28 4476 May 27 05:28 4476 Jun 01 03:31 4476 Jun 02 01:22 4476 Jun 06 12:18 4476 Jun 11 00:12 4476 Jun 12 02:20 4476 Jul 08 01:25 4476 Jul 18 04:33 4476 Jul 19 01:41 4476 Jul 23 03:22 4476 Jul 26 16:32 4476 Aug 01 23:46 4476 Aug 06 05:47 4476 Aug 23 22:24 4476 Aug 24 12:03	9°823'32 13°824'24 0° II 5° II 53'41 9° II 59'27 9° II 44'44 5° II 26'23 5° II 21'55 3° II 10'00 2° II 40'15 0° II 21'16 30° R8 29° 811'56 0° II 6° II 39'10 0° 95 19° 9521'43 21° 9512'51 0° \$\text{\$\alpha\$} 6° \$\text{\$\alpha\$}20'54 6° \$\text{\$\alpha\$}20'54 6° \$\text{\$\alpha\$}23'39 0° IN 29° IN 14'34 0° \$\text{\$\alpha\$}	1°07'11 1°06'19 0.56961 AU 26°05'42 1°13'52 1°13'31 1.32216 AU	minimum elong evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el  morning set asc. node max. Earth dist.  superior conj minimum elong evening rise desc. node	4477 Mar 23 14:39 4477 Apr 02 14:59 4477 Apr 06 13:58 4477 Apr 08 02:19 4477 Apr 18 19:16 4477 Apr 26 01:10 4477 Apr 28 10:39 4477 May 05 16:06 4477 May 05 19:42 4477 May 13 01:48 4477 May 14 20:08 4477 May 19 07:02 4477 Jun 02 16:26 4477 Jun 03 10:28 4477 Jul 03 10:28 4477 Jul 05 01:34 4477 Jul 10 10:19 4477 Jul 10 10:19 4477 Jul 11 10:19 4477 Jul 17 08:08 4477 Jul 29 20:45 4477 Aug 10 19:24 4477 Aug 10 19:24 4477 Aug 15 06:48	4°Y06'32 22°Y37'34 0°8 2°845'10 18°829'42 22°806'09 21°843'27 17°805'12 16°857'37 14°812'49 11°829'33 10°839'11 9°845'35 17°832'59 0°II 0°9 5°954'32 9°921'18 20°928'10 21°903'23 0°1 0°1 0°1 0°1 0°1 0°1 0°1 0°1 0°1 0°1	1°57'13  18°19'39  2°24'34  2°23'37  0.58973 AU  27°14'54  1.31978 AU  0°54'23 0°53'59  26°17'27
asc. node  evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise  direct  morning max el asc. node morning set  superior conj minimum elong max. Earth dist. evening rise  desc. node  evening max el	4476 Apr 19 03:45 4476 Apr 21 05:17 4476 Apr 30 17:20 4476 May 05 13:00 4476 May 13 21:40 4476 May 16 00:26 4476 May 24 01:08 4476 May 27 05:28 4476 May 27 05:28 4476 May 27 03:36 4476 Jun 01 03:31 4476 Jun 02 01:22 4476 Jun 06 12:18 4476 Jun 11 00:12 4476 Jun 20 20:20 4476 Jul 08 01:25 4476 Jul 18 04:33 4476 Jul 19 01:41 4476 Jul 23 03:22 4476 Jul 26 16:32 4476 Aug 01 23:46 4476 Aug 06 05:47 4476 Aug 24 12:03 4476 Sep 02 06:59 4476 Sep 16 03:34 4476 Sep 23 05:58	9°823'32 13°824'24 0° II 5° II 53'41 9° II 59'27 9° II 44'44 5° II 26'23 5° II 21'55 3° II 10'00 2° II 40'15 0° II 21'16 30° R8 29° 811'56 0° II 6° II 39'10 0° 90 19° 90 21'43 21° 90 12'51 0° 10 6° 10 20'54 6° 10 20'54 6° 10 20'54 6° 10 20'54 10° 10 14'34 10° 10 14'34 10° 10 14'23 14° 11'23 14° 15'81'12	1°07'11 1°06'19 0.56961 AU 26°05'42 1°13'52 1°13'31 1.32216 AU	minimum elong evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el  morning set asc. node max. Earth dist.  superior conj minimum elong evening rise desc. node evening max el retrograde	4477 Mar 23 14:39 4477 Apr 02 14:59 4477 Apr 06 13:58 4477 Apr 08 02:19 4477 Apr 18 19:16 4477 Apr 26 01:10 4477 Apr 28 10:39 4477 May 05 16:06 4477 May 05 19:42 4477 May 13 01:48 4477 May 14 20:08 4477 May 19 07:02 4477 Jun 02 16:26 4477 Jun 03 10:28 4477 Jul 03 10:28 4477 Jul 03 10:28 4477 Jul 10 03:56  4477 Jul 10 10:19 4477 Jul 10 10:19 4477 Jul 17 08:08 4477 Jul 19:24 4477 Aug 10 19:24 4477 Aug 10 19:24 4477 Aug 29 06:03 4477 Sep 04 19:11 4477 Sep 08 19:58	4°Y06'32 22°Y37'34 0°8 2°845'10 18°829'42 22°806'09 21°843'27 17°805'12 16°857'37 14°812'49 11°829'33 10°839'11 9°845'35 17°832'59 0°II 0°9 5°9554'32 9°921'18 20°928'10 21°914'50 21°903'23 0°\$ 6°\$007'09 0°\$ 17°\$00'49 21°\$\pu\45'42 28°\$\pu\54'50 27°\$\pu\09'32 24°\$\pu\94'33'33	1°57'13  18°19'39  2°24'34  2°23'37  0.58973 AU  27°14'54  1.31978 AU  0°54'23 0°53'59  26°17'27  0.59286 AU
asc. node  evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise  direct  morning max el asc. node morning set  superior conj minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist.	4476 Apr 19 03:45 4476 Apr 21 05:17 4476 Apr 30 17:20 4476 May 05 13:00 4476 May 13 21:40 4476 May 16 00:26 4476 May 24 01:08 4476 May 27 05:28 4476 May 27 05:28 4476 May 27 03:36 4476 Jun 01 03:31 4476 Jun 02 01:22 4476 Jun 06 12:18 4476 Jun 11 00:12 4476 Jun 12 02:20 4476 Jul 08 01:25 4476 Jul 18 04:33 4476 Jul 19 01:41 4476 Jul 23 03:22 4476 Jul 26 16:32 4476 Aug 01 23:46 4476 Aug 06 05:47 4476 Aug 23 22:24 4476 Sep 02 06:59 4476 Sep 16 03:34 4476 Sep 23 05:58 4476 Sep 26 21:22	9°823'32 13°824'24 0° II 5° II 53'41 9° II 59'27 9° II 44'44 5° II 26'23 5° II 21'55 3° II 10'00 2° II 40'15 0° II 21'16 30° R8 29° 811'56 0° II 6° II 39'10 0° 90 19° 90 21'43 21° 90 12'51 0° 10 6° 10 20'54 6° 10 20'54 6° 10 20'54 6° 10 20'54 10° 10 14'34 10° 10 14'34 10° 10 14'23 14° 11'23 14° 15'81'12	1°07'11 1°06'19 0.56961 AU 26°05'42 1°13'52 1°13'31 1.32216 AU	minimum elong evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el  morning set asc. node max. Earth dist.  superior conj minimum elong evening rise desc. node evening rise desc. node max. Earth dist. superior conj minimum elong	4477 Mar 23 14:39 4477 Apr 02 14:59 4477 Apr 06 13:58 4477 Apr 08 02:19 4477 Apr 18 19:16 4477 Apr 26 01:10 4477 Apr 28 10:39 4477 May 05 16:06 4477 May 05 19:42 4477 May 13 01:48 4477 May 14 20:08 4477 May 19 07:02 4477 Jun 02 16:26 4477 Jun 03 10:28 4477 Jul 03 10:28 4477 Jul 03 10:28 4477 Jul 10 03:56  4477 Jul 10 10:19 4477 Jul 10 10:19 4477 Jul 11 10:19 4477 Jul 17 08:08 4477 Aug 10 19:24 4477 Aug 10 19:24 4477 Aug 10 19:24 4477 Aug 29 06:03 4477 Sep 04 19:11 4477 Sep 08 19:58 4477 Sep 12 02:15	4°Y06'32 22°Y37'34 0°8 2°845'10 18°829'42 22°806'09 21°843'27 17°805'12 16°857'37 14°812'49 11°829'33 10°839'11 9°845'35 17°832'59 0°II 0°9 5°954'32 9°921'18 20°928'10 21°903'23 0°1 0°1 0°1 0°1 0°1 0°1 0°1 0°1 0°1 0°1	1°57'13  18°19'39  2°24'34  2°23'37  0.58973 AU  27°14'54  1.31978 AU  0°54'23 0°53'59  26°17'27  0.59286 AU
asc. node  evening max el retrograde evening set inferior conj minimum elong min. Earth dist. desc. node morning rise  direct  morning max el asc. node morning set  superior conj minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set	4476 Apr 19 03:45 4476 Apr 21 05:17 4476 Apr 30 17:20 4476 May 05 13:00 4476 May 13 21:40 4476 May 16 00:26 4476 May 24 01:08 4476 May 27 05:28 4476 May 27 05:28 4476 May 27 03:36 4476 Jun 01 03:31 4476 Jun 02 01:22 4476 Jun 06 12:18 4476 Jun 11 00:12 4476 Jun 20 20:20 4476 Jul 08 01:25 4476 Jul 18 04:33 4476 Jul 19 01:41 4476 Jul 23 03:22 4476 Jul 26 16:32 4476 Aug 01 23:46 4476 Aug 06 05:47 4476 Aug 24 12:03 4476 Sep 02 06:59 4476 Sep 16 03:34 4476 Sep 23 05:58	9°823'32 13°824'24 0° II 5° II 53'41 9° II 59'27 9° II 44'44 5° II 26'23 5° II 21'55 3° II 10'00 2° II 40'15 0° II 21'16 30° R8 29° 811'56 0° II 6° II 39'10 0° 90 19° 90 21'43 21° 90 12'51 0° 10 6° 10 20'54 6° 10 20'54 6° 10 20'54 6° 10 20'54 10° 10 14'34 10° 10 14'34 10° 10 14'23 14° 11'23 14° 15'81'12	1°07'11 1°06'19 0.56961 AU 26°05'42 1°13'52 1°13'31 1.32216 AU 27°08'47	minimum elong evening rise  asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el  morning set asc. node max. Earth dist.  superior conj minimum elong evening rise desc. node evening rise desc. node max. Earth dist.	4477 Mar 23 14:39 4477 Apr 02 14:59 4477 Apr 06 13:58 4477 Apr 08 02:19 4477 Apr 18 19:16 4477 Apr 26 01:10 4477 Apr 28 10:39 4477 May 05 16:06 4477 May 05 19:42 4477 May 13 01:48 4477 May 14 20:08 4477 May 19 07:02 4477 Jun 02 16:26 4477 Jun 03 10:28 4477 Jul 03 10:28 4477 Jul 03 10:28 4477 Jul 10 03:56  4477 Jul 10 10:19 4477 Jul 10 10:19 4477 Jul 17 08:08 4477 Jul 19:24 4477 Aug 10 19:24 4477 Aug 10 19:24 4477 Aug 29 06:03 4477 Sep 04 19:11 4477 Sep 08 19:58	4°Y06'32 22°Y37'34 0°8 2°845'10 18°829'42 22°806'09 21°843'27 17°805'12 16°857'37 14°812'49 11°829'33 10°839'11 9°845'35 17°832'59 0°II 0°9 5°9554'32 9°921'18 20°928'10 21°914'50 21°903'23 0°\$ 6°\$007'09 0°\$ 17°\$00'49 21°\$\pu\45'42 28°\$\pu\54'50 27°\$\pu\09'32 24°\$\pu\94'33'33	1°57'13  18°19'39  2°24'34  2°23'37  0.58973 AU  27°14'54  1.31978 AU  0°54'23  0°53'59  26°17'27  0.59286 AU  -4°53'48

morning rise	4477 Sep 19 21:05	17° <b>m</b> 33'22			4478 Aug 31 18:47	30°R <b>Ω</b>	
direct	4477 Sep 19 21:03 4477 Sep 22 06:22	17° my 13'38		marning rise	•	30 <b>₹87</b> 29° <b>Ω</b> 47'27	
	4477 Sep 22 00.22 4477 Sep 30 03:20	21° Mp 02'19	18°23'32	morning rise direct	4478 Sep 01 13:03 4478 Sep 04 02:52	29° <b>Ω</b> 28'20	
morning max el asc. node	4477 Oct 01 00:48	21° m/ 56'36	10 23 32	direct	4478 Sep 04 02.32 4478 Sep 07 08:00	0° Mp	
asc. Houe	4477 Oct 01 00:48 4477 Oct 06 23:45	0° <b>⊽</b>		marning may al	4478 Sep 07 08:00 4478 Sep 13 04:07	3° Mp 44'02	10011110
marning sat	4477 Oct 16 02:55	0 <b>≗</b> 16° <b>£</b> 30'43		morning max el		9° Mg 17'18	19 11 19
morning set		0°M		asc. node	4478 Sep 17 21:50	0∘ <del>ت</del> اگاری	
	4477 Oct 23 05:00	บาแน		marning got	4478 Sep 29 16:16	0° <b>£</b> 0° <b>£</b> 50'17	
gunariar aani	4477 Oct 25 05:10	3°M43'30	1°20'52	morning set	4478 Sep 30 02:25	0 == 30 17	
superior conj		4°ML00'24	1°20'29		4479 0-4 09 07-22	179 0 04127	1927/40
minimum elong max. Earth dist.	4477 Oct 25 08:50	17°ML05'06		superior conj minimum elong	4478 Oct 08 07:22	17° <b>Ω</b> 04'37	1°36'40 1°36'30
	4477 Nov 01 17:08		1.40531 AU	2	4478 Oct 08 09:37	17° <b>£</b> 15'28 29° <b>£</b> 28'05	
evening rise	4477 Nov 06 04:34	24°M37'53		max. Earth dist.	4478 Oct 14 21:46	29° <b>±</b> 28°03 0° <b>™</b>	1.38435 AU
desc. node	4477 Nov 06 18:43	25°M36'12			4478 Oct 15 04:49		
	4477 Nov 09 11:41	0° <b>∡</b>		evening rise	4478 Oct 18 16:43	6°M12'13	
	4477 Nov 29 20:30	0°る	22020151	desc. node	4478 Oct 24 15:43	16°M14'52	
evening max el	4477 Dec 10 17:10	12° <b>ろ</b> 56'50	23°30'51		4478 Nov 02 11:27	0° ⊀̄¹	2.40.40100
retrograde	4477 Dec 21 08:05	19°る13'35		evening max el	4478 Nov 23 06:05	26° <b>₹</b> 38'39	24°49'09
evening set	4477 Dec 26 08:48	17°る08'40			4478 Nov 27 00:55	0°る	
asc. node	4477 Dec 28 00:03	15° <b>る</b> 33'09		retrograde	4478 Dec 04 21:53	3° <b>ට</b> 25'16	
inferior conj	4477 Dec 31 18:40	10°₹43′29	1°15'02	evening set	4478 Dec 10 12:09	1°る05'21	
minimum elong	4477 Dec 31 17:01	10° <b>ろ</b> 49'06	1°14'23		4478 Dec 11 16:06	30°₹ <b>҂</b> 7	
min. Earth dist.	4477 Dec 31 06:33	11° <b>る</b> 24'58	0.67977 AU	asc. node	4478 Dec 14 21:05	26° <b>⊀</b> 11'19	
morning rise	4478 Jan 06 01:11	4° <b>る</b> 37'08		min. Earth dist.	4478 Dec 15 01:51	25° <b>₹</b> 55'42	0.67572 AU
direct	4478 Jan 10 05:20	2° <b>る</b> 59'36		inferior conj	4478 Dec 16 00:45	24° <b>≯</b> 39'58	0°23'30
morning max el	4478 Jan 18 14:06	7° <b>る</b> 49'42	21°00'00	minimum elong	4478 Dec 16 00:11	24° <b>∡</b> ¹41'52	0°23'16
desc. node	4478 Feb 02 17:59	27° <b>る</b> 28'17		morning rise	4478 Dec 21 12:21	18° <b>∡</b> ¹40'05	
	4478 Feb 04 11:33	0° <b>≈</b>		direct	4478 Dec 25 03:43	17° <b>∡</b> 23'51	
morning set	4478 Feb 17 20:32	20° <b>≈</b> 18′29		morning max el	4479 Jan 01 14:29	21° <b>∡</b> ³36′25	19°50'03
	4478 Feb 23 22:54	0° <b>ℋ</b>			4479 Jan 08 12:52	0°ප	
max. Earth dist.	4478 Feb 25 18:09	2° <b>升</b> 55′21	1.42686 AU	greatest brilliancy	4479 Jan 15 10:53	9° <b>る</b> 54'07	-0.6m
				desc. node	4479 Jan 20 14:59	17° <b>る</b> 39'37	
superior conj	4478 Mar 04 20:09	14° <b>)</b> 42'29	-2°07'54	morning set	4479 Jan 27 16:33	28° <b>පි</b> 28'13	
minimum elong	4478 Mar 04 21:08	14° <b>)</b> 46'39	2°07'54		4479 Jan 28 16:19	0° <b>≈</b>	
	4478 Mar 13 14:46	$0$ $^{\circ}$ $\Upsilon$		max. Earth dist.	4479 Feb 08 05:01	16° <b>≈</b> 29'57	1.44221 AU
evening rise	4478 Mar 16 11:49	5° <b>Ƴ</b> 08'32					
asc. node	4478 Mar 25 23:21	21° <b>Y</b> 40'22		superior conj	4479 Feb 13 04:17	24° <b>≈</b> 28'44	-2°02'12
	4478 Mar 31 20:34	$6^{\circ}B$		minimum elong	4479 Feb 12 23:16	24° <b>≈</b> 08′28	2°01'58
evening max el	4478 Apr 02 06:26	1° <b>8</b> 30'40	18°06'59		4479 Feb 16 13:27	0° <b>∀</b>	
retrograde	4478 Apr 08 21:06	4° <b>8</b> 53'49		evening rise	4479 Feb 26 13:49	16° <b>)</b> 47′35	
evening set	4478 Apr 11 13:09	4° <b>8</b> 20'44			4479 Mar 06 08:51	$0^{\circ}$ Y	
	4478 Apr 17 10:56	30° <b>₹Ƴ</b>		asc. node	4479 Mar 12 20:23	10° <b>Ƴ</b> 01'30	
inferior conj	4478 Apr 18 02:41	29° <b>Ƴ</b> 21'59	3°11'02	evening max el	4479 Mar 16 19:15	14° <b>Ƴ</b> 47'39	18°13'24
minimum elong	4478 Apr 18 05:16	29° <b>Ƴ</b> 15'40	3°10'37	retrograde	4479 Mar 23 05:13	18° <b>Ƴ</b> 12'10	
min. Earth dist.	4478 Apr 21 06:43	26° <b>Ƴ</b> 18′22	0.61174 AU	evening set	4479 Mar 26 03:20	17° <b>Ƴ</b> 27'23	
morning rise	4478 Apr 24 19:27	23° <b>Y</b> 26'32		inferior conj	4479 Apr 01 04:57	12° <b>Y</b> 09′00	3°32'07
direct	4478 May 01 13:15	21° <b>Y</b> 09'23		minimum elong	4479 Apr 01 05:51	12° <b>Y</b> 06′31	3°32'04
desc. node	4478 May 01 17:09	21° <b>Ƴ</b> 09′27		min. Earth dist.	4479 Apr 03 19:35	9° <b>Ƴ</b> 17'47	0.63260 AU
morning max el	4478 May 15 18:45	29° <b>Ƴ</b> 06'39	27°49'12	morning rise	4479 Apr 07 07:18	6° <b>Y</b> 02′25	
	4478 May 16 15:47	$6^{\circ}B$		direct	4479 Apr 14 04:22	3° <b>Y</b> 22'10	
	4478 Jun 06 22:07	$\Pi^{\circ}0$		desc. node	4479 Apr 18 14:12	4° <b>Ƴ</b> 19'37	
morning set	4478 Jun 17 15:03	20° <b>Ⅲ</b> 21′04		morning max el	4479 Apr 28 02:03	11° <b>Y</b> 20'49	27°45'52
asc. node	4478 Jun 21 22:36	29° <b>Ⅲ</b> 27'11			4479 May 12 19:25	0°8	
	4478 Jun 22 04:41	0° <b>©</b>			4479 May 30 07:27	$\Pi^{\circ}0$	
max. Earth dist.	4478 Jun 23 14:01	3°900'55	1.32156 AU	morning set	4479 Jun 01 13:13	4° <b>Ⅱ</b> 25'21	
				max. Earth dist.	4479 Jun 06 18:58	15° <b>Ⅱ</b> 14'48	1.32763 AU
superior conj	4478 Jun 24 23:06	6°901'44	0°31'11	asc. node	4479 Jun 08 19:39	19° <b>Ⅲ</b> 34'58	
minimum elong	4478 Jun 24 21:44	5° <b>©</b> 54'15	0°30'53				
evening rise		20°955'38		superior conj	4479 Jun 09 06:56	20° <b>Ⅱ</b> 35'43	0°04'56
-	4478 Jul 01 19:10				4479 Jun 09 06:41	20° <b>∏</b> 34′26	0°04'52
	4478 Jul 01 19:10 4478 Jul 06 04:35	0°N		minimum elong	44/9 Juli 09 00.41	20 113420	0 0 7 5 2
				minimum elong behind sun begin	4479 Jun 09 01:38	20° <b>Ⅲ</b> 07'11	0 0432
evening max el	4478 Jul 06 04:35	0° <b>N</b> 0° <b>M</b>	24°57'58				0 0432
evening max el desc. node	4478 Jul 06 04:35 4478 Jul 25 08:09	0° <b>N</b> 0° <b>M</b>	24°57'58	behind sun begin	4479 Jun 09 01:38	20° <b>II</b> 07'11	0 04 32
•	4478 Jul 06 04:35 4478 Jul 25 08:09 4478 Jul 27 23:26	0° <b>N</b> 0° <b>M</b> 2° <b>M</b> 43'08	24°57'58	behind sun begin	4479 Jun 09 01:38 4479 Jun 09 11:45	20°Щ07'11 21°Щ01'43	0 0432
desc. node	4478 Jul 06 04:35 4478 Jul 25 08:09 4478 Jul 27 23:26 4478 Jul 28 16:24	0° N 0° M 2° M 43'08 3° M 22'54	24°57'58	behind sun begin behind sun end	4479 Jun 09 01:38 4479 Jun 09 11:45 4479 Jun 13 15:05	20°∏07'11 21°∏01'43 0°©	0 0432
desc. node retrograde	4478 Jul 06 04:35 4478 Jul 25 08:09 4478 Jul 27 23:26 4478 Jul 28 16:24 4478 Aug 10 21:56	0° <b>A</b> 0° <b>m</b> 2° <b>m</b> 43'08 3° <b>m</b> 22'54 9° <b>m</b> 45'54 8° <b>m</b> 38'42	24°57'58 0.57307 AU	behind sun begin behind sun end	4479 Jun 09 01:38 4479 Jun 09 11:45 4479 Jun 13 15:05 4479 Jun 16 06:59	20° II 07'11 21° II 01'43 0° 5° 5° 542'43	
desc. node retrograde evening set	4478 Jul 06 04:35 4478 Jul 25 08:09 4478 Jul 27 23:26 4478 Jul 28 16:24 4478 Aug 10 21:56 4478 Aug 16 08:27	0° <b>A</b> 0° <b>m</b> 2° <b>m</b> 43'08 3° <b>m</b> 22'54 9° <b>m</b> 45'54 8° <b>m</b> 38'42	0.57307 AU	behind sun begin behind sun end evening rise	4479 Jun 09 01:38 4479 Jun 09 11:45 4479 Jun 13 15:05 4479 Jun 16 06:59 4479 Jun 29 04:55	20°Π07'11 21°Π01'43 0°© 5°©42'43 0°Ω	
desc. node retrograde evening set min. Earth dist.	4478 Jul 06 04:35 4478 Jul 25 08:09 4478 Jul 27 23:26 4478 Jul 28 16:24 4478 Aug 10 21:56 4478 Aug 16 08:27 4478 Aug 21 10:59	0° N 0° M 2° M 43'08 3° M 22'54 9° M 45'54 8° M 38'42 5° M 53'37	0.57307 AU -5°13'43	behind sun begin behind sun end evening rise evening max el	4479 Jun 09 01:38 4479 Jun 09 11:45 4479 Jun 13 15:05 4479 Jun 16 06:59 4479 Jun 29 04:55 4479 Jul 09 12:18	20°∏07'11 21°∏01'43 0°\$ 5°\$42'43 0°\$ 13°\$10'00	

. ,	4470 T 1 26 22 54	100 00000			4400 1 1 14 16 22	250620150	2040100
evening set	4479 Jul 26 23:54	19° <b>Ω</b> 22'29		inferior conj	4480 Jul 14 16:33	25°\$30'59	
min. Earth dist.	4479 Aug 02 21:52		0.55732 AU	minimum elong	4480 Jul 14 07:55	25° <b>©</b> 43'03	3°37'43
inferior conj	4479 Aug 04 20:18	15° <b>Ω</b> 03'10		min. Earth dist.	4480 Jul 14 08:07	25° <b>©</b> 42'46	0.54886 AU
minimum elong	4479 Aug 04 14:24	15° <b>Ω</b> 11'54	4°51'37	morning rise	4480 Jul 23 08:55	21° <b>©</b> 39'20	
morning rise	4479 Aug 13 07:17	11° <b>Ω</b> 09'58		direct	4480 Jul 26 15:33	21° <b>©</b> 15'50	
direct	4479 Aug 16 04:21	10° <b>Ω</b> 49'47		morning max el	4480 Aug 07 19:19	26° <b>©</b> 58'00	21°50'26
morning max el	4479 Aug 26 17:36	15° <b>Ω</b> 43'52	20°21'00		4480 Aug 10 17:49	$0^{\circ}\Omega$	
asc. node	4479 Sep 04 18:54	27° <b>Ω</b> 29'07		asc. node	4480 Aug 21 15:57	16° <b>Ω</b> 19'01	
	4479 Sep 06 06:41	0° <b>m</b>		morning set	4480 Aug 28 17:38	0° Mp 16'18	
morning set	4479 Sep 14 08:07	15° Mp 28'07			4480 Aug 28 14:30	0° <b>m</b> )	
C	4479 Sep 21 09:52	0∘ <del>⊽</del>			C	•	
	1			superior conj	4480 Sep 04 22:56	15° <b>m</b> ) 31'03	1°42'42
superior conj	4479 Sep 21 22:38	1° <b>£</b> 04'43	1°43'27	minimum elong	4480 Sep 04 22:09	15° m) 26'56	1°42'41
minimum elong	4479 Sep 21 23:14	1° <b>⊆</b> 07'48	1°43'26	max. Earth dist.	4480 Sep 08 17:50	23° m/20'24	1.34732 AU
max. Earth dist.	4479 Sep 27 04:33	11° <b>⊆</b> 26'33	1.36441 AU	max. Lartii dist.	4480 Sep 12 02:10	0° <u>م</u>	1.54752710
evening rise	4479 Oct 01 01:57	11 <b>≥</b> 20 33	1.30441 AU	evening rise	4480 Sep 13 03:56	0 <b>=</b> 2° <b>⊆</b> 04'44	
evening rise		0°M		desc. node		2 <b>⊆</b> 04 44 26° <b>⊆</b> 54'22	
	4479 Oct 07 11:03			desc. node	4480 Sep 27 09:45		
desc. node	4479 Oct 11 12:44	6°M43'04			4480 Sep 29 09:49	0°M	0.0050110
	4479 Oct 27 15:25	0° <b>∡</b> 7		evening max el	4480 Oct 18 07:15	23°M59'53	26°52'13
evening max el	4479 Nov 05 18:40	10° <b>≯</b> 22'14	25°58'42		4480 Oct 26 09:18	0° <b>∡</b>	
retrograde	4479 Nov 18 06:50	17° <b>∡</b> ¹28'41		retrograde	4480 Oct 31 10:28	1° <b>∡</b> 16′26	
evening set	4479 Nov 24 10:51	14° <b>₰</b> 56'07			4480 Nov 05 01:58	30°ŖM₊	
min. Earth dist.	4479 Nov 28 17:20	10° <b>≮</b> ¹21'40	0.66821 AU	evening set	4480 Nov 07 02:52	28°M36'15	
inferior conj	4479 Nov 30 03:23	8° <b>∡</b> ³35′12	-0°33'08	min. Earth dist.	4480 Nov 11 02:36	24°M37'32	0.65714 AU
minimum elong	4479 Nov 30 04:15	8° <b>∡</b> ³32'27	0°32'45	inferior conj	4480 Nov 13 00:27	22°M24'34	-1°33'37
asc. node	4479 Dec 01 18:07	6° <b>∡</b> ³36'38		minimum elong	4480 Nov 13 03:04	22°M16'55	1°32'31
morning rise	4479 Dec 05 22:07	2° <b>∡</b> ¹44'18		asc. node	4480 Nov 17 15:11	17° <b>M</b> 44'18	
direct	4479 Dec 09 02:26	1° <b>х</b> 46′25		morning rise	4480 Nov 19 04:09	16°M45'27	
morning max el	4479 Dec 15 22:30	5° <b>₹</b> 32'57	18°55'03	direct	4480 Nov 21 23:29	16°M02'13	
morning max or	4480 Jan 02 07:31	0° <b>る</b>	10 33 03	morning max el	4480 Nov 28 12:08	19°M33'35	18°16'17
morning set	4480 Jan 07 00:54	7° <b>る</b> 22'53		morning max ci	4480 Dec 06 11:05	0° <b>√</b>	10 10 17
desc. node		8° <b>ろ</b> 06'26		marning act		17° <b>∡</b> ¹42'54	
desc. node	4480 Jan 07 12:02			morning set	4480 Dec 17 13:08		
and the second	4480 Jan 21 11:37	0°≈		desc. node	4480 Dec 24 09:04	28° <b>⊀</b> '43'39	
max. Earth dist.	4480 Jan 21 21:49	0° <b>≈</b> 40′03	1.45111 AU		4480 Dec 25 04:10	0°る	
						<del></del>	
superior conj	4480 Jan 23 14:09	3°≈18'43		superior conj	4481 Jan 01 17:00	11° <b>ろ</b> 56'26	
superior conj minimum elong	4480 Jan 23 14:09 4480 Jan 23 04:54	3°≈18'43 2°≈42'19		superior conj minimum elong	4481 Jan 01 17:00 4481 Jan 01 10:09	11° <b>る</b> 29'31	
		2°≈42'19 27°≈30'07					
minimum elong	4480 Jan 23 04:54	2° <b>≈</b> 42'19		minimum elong	4481 Jan 01 10:09	11° <b>る</b> 29'31	0°54'21
minimum elong	4480 Jan 23 04:54 4480 Feb 07 17:25	2°≈42'19 27°≈30'07		minimum elong	4481 Jan 01 10:09 4481 Jan 03 17:01	11°පි29'31 15°පි05'04	0°54'21
minimum elong evening rise	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20	2°≈42'19 27°≈30'07 0°¥		minimum elong max. Earth dist.	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52	11°ට 29'31 15°ට 5'04 0°≈	0°54'21 1.45263 AU
minimum elong evening rise asc. node	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25	2°≈42'19 27°≈30'07 0° <del>X</del> 27° <del>X</del> 38'35	1°35'59	minimum elong max. Earth dist.	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15	11°る29'31 15°る05'04 0°≈ 7°≈19'01	0°54'21 1.45263 AU
minimum elong evening rise asc. node evening max el	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59	2°≈42'19 27°≈30'07 0°¥ 27°¥38'35 28°¥14'01 0°♥	1°35'59	minimum elong max. Earth dist. evening rise greatest brilliancy	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08	11°る29'31 15°る05'04 0°≈ 7°≈19'01 25°≈05'55	0°54'21 1.45263 AU
minimum elong evening rise  asc. node evening max el retrograde	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 05 21:21	2°≈42'19 27°≈30'07 0°₩ 27°₩38'35 28°₩14'01 0°Ψ 1°Ψ'52'49	1°35'59	minimum elong max. Earth dist.	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21	11°る29'31 15°る05'04 0°≈ 7°≈19'01 25°≈05'55 0°升 11°升44'55	0°54'21 1.45263 AU -0.7m
minimum elong evening rise asc. node evening max el	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 05 21:21 4480 Mar 09 01:38	2°≈42'19 27°≈30'07 0°¥ 27°¥38'35 28°¥14'01 0°Y 1°Y52'49 0°Y55'34	1°35'59	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21 4481 Feb 13 14:27	11°♂29'31 15°♂05'04 0°≈ 7°≈19'01 25°≈05'55 0° ¥ 11° ¥44'55 14° ¥18'48	0°54'21 1.45263 AU -0.7m
minimum elong evening rise  asc. node evening max el  retrograde evening set	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 05 21:21 4480 Mar 09 01:38 4480 Mar 10 09:09	2°≈42'19 27°≈30'07 0° € 27° € 38'35 28° € 14'01 0° ♥ 1° ♥ 52'49 0° ♥ 55'34 30° € €	1°35'59 18°38'10	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21 4481 Feb 13 14:27 4481 Feb 17 17:52	11°♂29'31 15°♂05'04 0°≈ 7°≈19'01 25°≈05'55 0° ¥ 11° ¥44'55 14° ¥18'48 15° ¥48'49	0°54'21 1.45263 AU -0.7m
minimum elong evening rise  asc. node evening max el retrograde evening set inferior conj	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 05 21:21 4480 Mar 09 01:38 4480 Mar 10 09:09 4480 Mar 14 18:56	2°≈42'19 27°≈30'07 0° ₩ 27° ₩38'35 28° ₩14'01 0° Ψ 1°Ψ'52'49 0°Ψ'55'34 30° R ₩ 25° ₩19'11	1°35'59 18°38'10 3°33'54	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21 4481 Feb 13 14:27 4481 Feb 17 17:52 4481 Feb 21 05:10	11°♂29'31 15°♂05'04 0°≈ 7°≈19'01 25°≈05'55 0°¥ 11°¥44'55 14°¥18'48 15°¥48'49 14°¥38'20	0°54'21 1.45263 AU -0.7m 19°20'15
minimum elong evening rise  asc. node evening max el  retrograde evening set  inferior conj minimum elong	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 05 21:21 4480 Mar 09 01:38 4480 Mar 10 09:09 4480 Mar 14 18:56 4480 Mar 14 18:17	2°≈42'19 27°≈30'07 0° ₩ 27° ₩38'35 28° ₩14'01 0° Ψ 1° Ψ52'49 0° Ψ55'34 30° R ₩ 25° ₩19'11 25° ₩21'10	1°35'59 18°38'10 3°33'54 3°33'52	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21 4481 Feb 13 14:27 4481 Feb 17 17:52 4481 Feb 21 05:10 4481 Feb 26 17:11	11°♂29'31 15°♂05'04 0°≈ 7°≈19'01 25°≈05'55 0° ₩ 11° ₩44'55 14° ₩18'48 15° ₩48'49 14° ₩38'20 8° ₩46'12	0°54'21 1.45263 AU -0.7m 19°20'15
minimum elong evening rise  asc. node evening max el  retrograde evening set  inferior conj minimum elong min. Earth dist.	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 05 21:21 4480 Mar 09 01:38 4480 Mar 10 09:09 4480 Mar 14 18:56 4480 Mar 14 18:17 4480 Mar 16 17:59	2°≈42'19 27°≈30'07 0° ₩ 27° ₩38'35 28° ₩14'01 0° Ψ 1°Ψ52'49 0°Ψ55'34 30° R ₩ 25° ₩19'11 25° ₩21'10 22° ₩57'15	1°35'59 18°38'10 3°33'54	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21 4481 Feb 13 14:27 4481 Feb 17 17:52 4481 Feb 21 05:10 4481 Feb 26 17:11 4481 Feb 26 15:26	11°♂29'31 15°♂05'04 0°≈ 7°≈19'01 25°≈05'55 0° ★ 11° ★44'55 14° ★18'48 15° ★48'49 14° ★38'20 8° ★46'12 8° ★51'54	0°54'21 1.45263 AU -0.7m 19°20'15 3°21'04 3°20'49
minimum elong evening rise  asc. node evening max el  retrograde evening set  inferior conj minimum elong min. Earth dist. morning rise	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 05 21:21 4480 Mar 09 01:38 4480 Mar 10 09:09 4480 Mar 14 18:56 4480 Mar 14 18:17 4480 Mar 16 17:59 4480 Mar 20 10:25	2°≈42'19 27°≈30'07 0° ₩ 27° ₩38'35 28° ₩14'01 0° Ψ 1° Ψ52'49 0° Ψ55'34 30° ℝ ₩ 25° ₩19'11 25° ₩21'10 22° ₩57'15 19° ₩07'05	1°35'59 18°38'10 3°33'54 3°33'52	minimum elong max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21 4481 Feb 13 14:27 4481 Feb 17 17:52 4481 Feb 21 05:10 4481 Feb 26 17:11 4481 Feb 26 15:26 4481 Feb 28 01:05	11°♂29'31 15°♂05'04 0°≈ 7°≈19'01 25°≈05'55 0° ₭ 11° ₭44'55 14° ₭18'48 15° ₭48'49 14° ₭38'20 8° ₭46'12 8° ₭51'54 7° ₭02'48	0°54'21 1.45263 AU -0.7m 19°20'15
minimum elong evening rise  asc. node evening max el  retrograde evening set  inferior conj minimum elong min. Earth dist. morning rise direct	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 05 21:21 4480 Mar 09 01:38 4480 Mar 10 09:09 4480 Mar 14 18:56 4480 Mar 14 18:17 4480 Mar 16 17:59 4480 Mar 20 10:25 4480 Mar 27 02:54	2°≈42'19 27°≈30'07 0° ₩ 27° ₩38'35 28° ₩14'01 0° Ψ 1° Ψ52'49 0° Ψ55'34 30° ₹ ₩ 25° ₩19'11 25° ₩21'10 22° ₩57'15 19° ₩07'05 16° ₩17'07	1°35'59 18°38'10 3°33'54 3°33'52	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21 4481 Feb 13 14:27 4481 Feb 17 17:52 4481 Feb 21 05:10 4481 Feb 26 17:11 4481 Feb 28 01:05 4481 Mar 04 01:24	11°♂29'31 15°♂05'04 0°≈ 7°≈19'01 25°≈05'55 0° ★ 11° ★44'55 14° ★18'48 15° ★48'49 14° ★38'20 8° ★46'12 8° ★51'54 7° ★02'48 2° ★31'56	0°54'21 1.45263 AU -0.7m 19°20'15 3°21'04 3°20'49
minimum elong evening rise  asc. node evening max el  retrograde evening set  inferior conj minimum elong min. Earth dist. morning rise direct desc. node	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 05 21:21 4480 Mar 09 01:38 4480 Mar 10 09:09 4480 Mar 14 18:56 4480 Mar 14 18:17 4480 Mar 16 17:59 4480 Mar 20 10:25 4480 Mar 27 02:54 4480 Apr 04 11:15	2°≈42'19 27°≈30'07 0° ₩ 27° ₩38'35 28° ₩14'01 0° Ψ 1° Ψ52'49 0° Ψ55'34 30° R ₩ 25° ₩21'10 22° ₩57'15 19° ₩07'05 16° ₩17'07 19° ₩41'24	1°35'59 18°38'10 3°33'54 3°33'52 0.65032 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21 4481 Feb 13 14:27 4481 Feb 17 17:52 4481 Feb 21 05:10 4481 Feb 26 17:11 4481 Feb 26 15:26 4481 Feb 28 01:05 4481 Mar 04 01:24 4481 Mar 08 09:46	11°♂29'31 15°♂05'04 0°≈ 7°≈19'01 25°≈05'55 0° ₭ 11° ₭44'55 14° ₭18'48 15° ₭48'49 14° ₭38'20 8° ₭46'12 8° ₭46'12 8° ₭51'54 7° ₭02'48 2° ₭31'56 30° ₨≈	0°54'21 1.45263 AU -0.7m 19°20'15 3°21'04 3°20'49
minimum elong evening rise  asc. node evening max el  retrograde evening set  inferior conj minimum elong min. Earth dist. morning rise direct	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 09 01:38 4480 Mar 10 09:09 4480 Mar 14 18:56 4480 Mar 14 18:17 4480 Mar 16 17:59 4480 Mar 20 10:25 4480 Mar 27 02:54 4480 Apr 04 11:15	2°≈42'19 27°≈30'07 0° H 27° H38'35 28° H14'01 0° Y 1° Y52'49 0° Y55'34 30° R H 25° H21'10 22° H57'15 19° H07'05 16° H17'07 19° H41'24 24° H07'35	1°35'59 18°38'10 3°33'54 3°33'52 0.65032 AU	minimum elong max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21 4481 Feb 13 14:27 4481 Feb 17 17:52 4481 Feb 26 17:11 4481 Feb 26 17:11 4481 Feb 26 15:26 4481 Feb 28 01:05 4481 Mar 04 01:24 4481 Mar 08 09:46 4481 Mar 10 07:54	11° ₹29'31 15° ₹05'04 0° ≈ 7° ≈19'01 25° ≈05'55 0° ¥ 11° ¥44'55 14° ¥18'48 15° ¥48'49 14° ¥38'20 8° ¥46'12 8° ¥51'54 7° ¥02'48 2° ¥31'56 30° R≈ 29° ≈45'09	0°54'21 1.45263 AU -0.7m 19°20'15 3°21'04 3°20'49
minimum elong evening rise  asc. node evening max el  retrograde evening set  inferior conj minimum elong min. Earth dist. morning rise direct desc. node	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 05 21:21 4480 Mar 10 09:09 4480 Mar 14 18:56 4480 Mar 14 18:17 4480 Mar 16 17:59 4480 Mar 20 10:25 4480 Mar 27 02:54 4480 Apr 04 11:15 4480 Apr 09 11:56 4480 Apr 14 18:40	2°≈42'19 27°≈30'07 0° H 27° H38'35 28° H14'01 0° Y 1° Y52'49 0° Y55'34 30° R H 25° H19'11 25° H21'10 22° H57'15 19° H07'05 16° H17'07 19° H41'24 24° H07'35 0° Y	1°35'59 18°38'10 3°33'54 3°33'52 0.65032 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21 4481 Feb 13 14:27 4481 Feb 21 05:10 4481 Feb 26 17:11 4481 Feb 26 15:26 4481 Feb 28 01:05 4481 Mar 04 01:24 4481 Mar 08 09:46 4481 Mar 10 07:54 4481 Mar 12 08:03	11° ₹29'31 15° ₹05'04 0° ≈ 7° ≈19'01 25° ≈05'55 0° ₩ 11° ₩44'55 14° ₩18'48 15° ₩48'49 14° ₩38'20 8° ₩46'12 8° ₩51'54 7° ₩02'48 2° ₩31'56 30° R≈ 29° ≈45'09 0° ₩	0°54'21 1.45263 AU -0.7m 19°20'15 3°21'04 3°20'49
minimum elong evening rise  asc. node evening max el  retrograde evening set  inferior conj minimum elong min. Earth dist. morning rise direct desc. node	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 09 01:38 4480 Mar 10 09:09 4480 Mar 14 18:56 4480 Mar 14 18:17 4480 Mar 16 17:59 4480 Mar 20 10:25 4480 Mar 27 02:54 4480 Apr 04 11:15	2°≈42'19 27°≈30'07 0° H 27° H38'35 28° H14'01 0° Y 1° Y52'49 0° Y55'34 30° R H 25° H21'10 22° H57'15 19° H07'05 16° H17'07 19° H41'24 24° H07'35	1°35'59 18°38'10 3°33'54 3°33'52 0.65032 AU	minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21 4481 Feb 13 14:27 4481 Feb 17 17:52 4481 Feb 26 17:11 4481 Feb 26 17:11 4481 Feb 26 15:26 4481 Feb 28 01:05 4481 Mar 04 01:24 4481 Mar 08 09:46 4481 Mar 10 07:54	11° ₹29'31 15° ₹05'04 0° ≈ 7° ≈19'01 25° ≈05'55 0° ¥ 11° ¥44'55 14° ¥18'48 15° ¥48'49 14° ¥38'20 8° ¥46'12 8° ¥51'54 7° ¥02'48 2° ¥31'56 30° R≈ 29° ≈45'09	0°54'21 1.45263 AU -0.7m 19°20'15 3°21'04 3°20'49
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minimum elong evening rise  asc. node evening max el  retrograde evening set  inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 09 01:38 4480 Mar 10 09:09 4480 Mar 14 18:56 4480 Mar 16 17:59 4480 Mar 20 10:25 4480 Mar 27 02:54 4480 Apr 04 11:15 4480 Apr 09 11:56 4480 Apr 14 18:40 4480 May 05 04:38	2°≈42'19 27°≈30'07 0° H 27° H38'35 28° H14'01 0° Y 1° Y52'49 0° Y55'34 30° R H 25° H19'11 25° H21'10 22° H57'15 19° H07'05 16° H17'07 19° H41'24 24° H07'35 0° Y 0° B	1°35'59 18°38'10 3°33'54 3°33'52 0.65032 AU	minimum elong max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise  direct  desc. node	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21 4481 Feb 13 14:27 4481 Feb 17 17:52 4481 Feb 26 17:11 4481 Feb 26 15:26 4481 Feb 28 01:05 4481 Mar 04 01:24 4481 Mar 08 09:46 4481 Mar 10 07:54 4481 Mar 12 08:03 4481 Mar 22 08:18	11° ₹29'31 15° ₹05'04 0° ≈ 7° ≈ 19'01 25° ≈ 05'55 0° ₹ 11° ₹44'55 14° ₹18'48 15° ₹48'49 14° ₹38'20 8° ₹46'12 8° ₹51'54 7° ₹02'48 2° ₹31'56 30° ₹≈ 29° ≈ 45'09 0° ₹ 6° ₹40'40	0°54'21 1.45263 AU -0.7m 19°20'15 3°21'04 3°20'49 0.66399 AU
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minimum elong evening rise  asc. node evening max el  retrograde evening set  inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set max. Earth dist.	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 09 01:38 4480 Mar 10 09:09 4480 Mar 14 18:56 4480 Mar 14 18:17 4480 Mar 16 17:59 4480 Mar 20 10:25 4480 Mar 27 02:54 4480 Mar 27 02:54 4480 Apr 04 11:15 4480 Apr 09 11:56 4480 Apr 14 18:40 4480 May 15 02:05 4480 May 17 15:04 4480 May 23 09:51 4480 May 23 09:51 4480 May 23 11:05	2°≈42'19 27°≈30'07 0° ₩ 27° ₩38'35 28° ₩14'01 0° Ψ 1° Ψ52'49 0° Ψ55'34 30° ₹ 25° ₩19'11 25° ₩21'10 22° ₩57'15 19° ₩07'05 16° ₩17'07 19° ₩41'24 24° ₩07'35 0° Ψ 0° ₩ 17° ₩558'56 27° ₩00'11 0° ∏ 4° ∭50'27 4° ∭56'57	1°35'59  18°38'10  3°33'54 3°33'52 0.65032 AU  27°08'11  1.33827 AU  -0°23'35	minimum elong max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise  direct  desc. node morning max el  morning set max. Earth dist.	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21 4481 Feb 13 14:27 4481 Feb 21 05:10 4481 Feb 26 17:11 4481 Feb 26 17:11 4481 Feb 26 15:26 4481 Feb 28 01:05 4481 Mar 04 01:24 4481 Mar 04 01:24 4481 Mar 10 07:54 4481 Mar 12 08:03 4481 Mar 22 08:18 4481 Mar 22 11:51 4481 Apr 09 14:18 4481 Apr 27 14:47 4481 Apr 28 01:49 4481 May 01 23:47	11°る29'31 15°る05'04 0°≈ 7°≈19'01 25°≈05'55 0° Ж 11° Ж44'55 14° Ж18'48 15° Ж48'49 14° Ж38'20 8° Ж46'12 8° Ж51'54 7° Ж02'48 2° Ж31'56 30° R≈ 29°≈45'09 0° Ж 6° Ж40'40 7° Ж14'28 0° Υ 0° ℧ 0° ℧ 0° ℧ 15'57	0°54'21 1.45263 AU -0.7m 19°20'15 3°21'04 3°20'49 0.66399 AU 26°03'35
minimum elong evening rise  asc. node evening max el  retrograde evening set  inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set max. Earth dist.  superior conj minimum elong asc. node	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 09 01:38 4480 Mar 10 09:09 4480 Mar 14 18:56 4480 Mar 14 18:17 4480 Mar 16 17:59 4480 Mar 20 10:25 4480 Mar 27 02:54 4480 Mar 20 10:25 4480 Mar 14 18:15 64480 Mar 14 18:40 4480 Mar 15 02:05 4480 Mar 17 15:04 4480 Mar 18 16:04 4480 Mar 19 15:04 4480 Mar 21 02:07	2°≈42'19 27°≈30'07 0° H 27° H38'35 28° H14'01 0° Y 1° Y52'49 0° Y55'34 30° R H 25° H21'10 22° H57'15 19° H07'05 16° H17'07 19° H41'24 24° H07'35 0° Y 0° B 17° B58'56 27° B00'11 0° II 4° II 50'27 4° II 56'57 9° II 40'27	1°35'59  18°38'10  3°33'54 3°33'52 0.65032 AU  27°08'11  1.33827 AU  -0°23'35	minimum elong max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise  direct  desc. node morning max el  morning set max. Earth dist.  superior conj	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21 4481 Feb 13 14:27 4481 Feb 21 05:10 4481 Feb 26 17:11 4481 Feb 26 15:26 4481 Feb 28 01:05 4481 Mar 04 01:24 4481 Mar 04 01:24 4481 Mar 10 07:54 4481 Mar 10 07:54 4481 Mar 12 08:03 4481 Mar 22 08:18 4481 Mar 22 01:51 4481 Apr 09 14:18 4481 Apr 27 14:47 4481 Apr 28 01:49 4481 May 07 05:26	11°る29'31 15°る05'04 0°≈ 7°≈19'01 25°≈05'55 0° Ж 11° Ж44'55 14° Ж18'48 15° Ж48'49 14° Ж38'20 8° Ж46'12 8° Ж51'54 7° Ж02'48 2° Ж31'56 30° R≈ 29°≈45'09 0° Ж 6° Ж40'40 7° Ж14'28 0° Υ 0° ℧51'00 8° ℧15'57	0°54'21 1.45263 AU -0.7m 19°20'15 3°21'04 3°20'49 0.66399 AU 26°03'35 1.35351 AU -0°53'01
minimum elong evening rise  asc. node evening max el  retrograde evening set  inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set max. Earth dist.	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 09 01:38 4480 Mar 10 09:09 4480 Mar 14 18:56 4480 Mar 14 18:17 4480 Mar 16 17:59 4480 Mar 20 10:25 4480 Mar 27 02:54 4480 Mar 20 10:25 4480 Apr 04 11:15 4480 Apr 09 11:56 4480 Apr 14 18:40 4480 May 05 04:38 4480 May 15 02:05 4480 May 17 15:04 4480 May 23 09:51 4480 May 23 11:05 4480 May 23 11:05 4480 May 25 16:42 4480 May 30 17:43	2°≈42'19 27°≈30'07 0° H 27° H38'35 28° H14'01 0° Y 1° Y52'49 0° Y55'34 30° R H 25° H21'10 22° H57'15 19° H07'05 16° H17'07 19° H41'24 24° H07'35 0° Y 0° B 17° B58'56 27° B00'11 0° II 4° II 50'27 4° II 56'57 9° II 40'27 20° II 22'04	1°35'59  18°38'10  3°33'54 3°33'52 0.65032 AU  27°08'11  1.33827 AU  -0°23'35	minimum elong max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise  direct  desc. node morning max el  morning set max. Earth dist.  superior conj minimum elong	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21 4481 Feb 13 14:27 4481 Feb 21 05:10 4481 Feb 26 17:11 4481 Feb 26 17:11 4481 Feb 26 15:26 4481 Feb 28 01:05 4481 Mar 04 01:24 4481 Mar 08 09:46 4481 Mar 10 07:54 4481 Mar 12 08:03 4481 Mar 22 08:18 4481 Mar 22 21:51 4481 Apr 09 14:18 4481 Apr 27 14:47 4481 Apr 28 01:49 4481 May 07 05:26 4481 May 07 05:26 4481 May 07 05:26	11° ₹29'31 15° ₹05'04 0° ≈ 7° ≈19'01 25° ≈05'55 0° ₹ 11° ₹44'55 14° ₹18'48 15° ₹48'49 14° ₹38'20 8° ₹46'12 8° ₹51'54 7° ₹02'48 2° ₹31'56 30° ₹≈ 29° ≈45'09 0° ₹ 6° ₹40'40 7° ₹14'28 0° ₹ 0° ₹51'00 8° ₹51'57	0°54'21 1.45263 AU -0.7m 19°20'15 3°21'04 3°20'49 0.66399 AU 26°03'35 1.35351 AU -0°53'01
minimum elong evening rise  asc. node evening max el  retrograde evening set  inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set max. Earth dist.  superior conj minimum elong asc. node evening rise	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 05 21:21 4480 Mar 10 09:09 4480 Mar 14 18:56 4480 Mar 14 18:17 4480 Mar 16 17:59 4480 Mar 20 10:25 4480 Mar 20 10:25 4480 Mar 20 10:25 4480 Apr 04 11:15 4480 Apr 09 11:56 4480 Apr 14 18:40 4480 May 05 04:38 4480 May 15 02:05 4480 May 21 02:07 4480 May 23 09:51 4480 May 23 11:05 4480 May 23 11:05 4480 May 30 17:43 4480 May 30 17:43 4480 May 30 17:43 4480 May 30 17:43	2°≈42'19 27°≈30'07 0° H 27° H38'35 28° H14'01 0° Y 1° Y52'49 0° Y55'34 30° R H 25° H19'11 25° H21'10 22° H57'15 19° H07'05 16° H17'07 19° H41'24 24° H07'35 0° Y 0° B 17° B58'56 27° B00'11 0° II 4° II 50'27 4° II 56'57 9° II 40'27 20° II 22'04 0° S	1°35'59  18°38'10  3°33'54 3°33'52 0.65032 AU  27°08'11  1.33827 AU  -0°23'35 0°23'20	minimum elong max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise  direct  desc. node morning max el  morning set max. Earth dist.  superior conj	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21 4481 Feb 13 14:27 4481 Feb 26 17:11 4481 Feb 26 17:11 4481 Feb 26 15:26 4481 Feb 28 01:05 4481 Mar 04 01:24 4481 Mar 08 09:46 4481 Mar 10 07:54 4481 Mar 12 08:03 4481 Mar 22 08:18 4481 Mar 22 08:18 4481 Apr 09 14:18 4481 Apr 27 14:47 4481 Apr 28 01:49 4481 May 07 05:26 4481 May 07 05:26 4481 May 07 08:18 4481 May 07 08:18	11°る29'31 15°る05'04 0°≈ 7°≈19'01 25°≈05'55 0° ₭ 11° ₭44'55 14° ₭18'48 15° ₭48'49 14° ₭38'20 8° ₭46'12 8° ₭51'54 7° ₭02'48 2° ₭31'56 30° ₨ 29°≈45'09 0° ₭ 6° ₭40'40 7° ₭14'28 0° Ŷ 0° ₺51'00 8° ₺15'57 18° ₺39'25 18° ₺54'02 29° ₺39'55	0°54'21 1.45263 AU -0.7m 19°20'15 3°21'04 3°20'49 0.66399 AU 26°03'35 1.35351 AU -0°53'01
minimum elong evening rise  asc. node evening max el  retrograde evening set  inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set max. Earth dist.  superior conj minimum elong asc. node evening rise evening max el	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 05 21:21 4480 Mar 10 09:09 4480 Mar 14 18:56 4480 Mar 14 18:17 4480 Mar 16 17:59 4480 Mar 20 10:25 4480 Mar 20 10:25 4480 Apr 04 11:15 4480 Apr 09 11:56 4480 Apr 14 18:40 4480 May 05 04:38 4480 May 15 02:05 4480 May 21 02:07 4480 May 23 09:51 4480 May 23 11:05 4480 May 23 11:05 4480 May 30 17:43 4480 May 30 17:43 4480 Jun 04 11:23 4480 Jun 20 04:53	2°≈42'19 27°≈30'07 0° H 27° H38'35 28° H14'01 0° Y 1° Y52'49 0° Y55'34 30° R H 25° H19'11 25° H21'10 22° H57'15 19° H07'05 16° H17'07 19° H41'24 24° H07'35 0° Y 0° B 17° B58'56 27° B00'11 0° II 4° II 50'27 4° II 56'57 9° II 40'27 20° II 22'04 0° © 23° © 36'58	1°35'59  18°38'10  3°33'54 3°33'52 0.65032 AU  27°08'11  1.33827 AU  -0°23'35	minimum elong max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise  direct  desc. node morning max el  morning set max. Earth dist.  superior conj minimum elong asc. node	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21 4481 Feb 13 14:27 4481 Feb 26 17:11 4481 Feb 26 17:11 4481 Feb 26 15:26 4481 Feb 28 01:05 4481 Mar 04 01:24 4481 Mar 08 09:46 4481 Mar 10 07:54 4481 Mar 12 08:03 4481 Mar 22 08:18 4481 Mar 22 11:51 4481 Apr 09 14:18 4481 Apr 27 14:47 4481 Apr 28 01:49 4481 May 07 05:26 4481 May 07 05:26 4481 May 07 08:18 4481 May 12 13:45 4481 May 12 13:45	11° ₹29'31 15° ₹05'04 0° ≈ 7° ≈19'01 25° ≈05'55 0° ₹ 11° ₹44'55 14° ₹18'48 15° ₹48'49 14° ₹38'20 8° ₹46'12 8° ₹51'54 7° ₹02'48 2° ₹31'56 30° ₹≈ 29° ≈45'09 0° ₹ 6° ₹40'40 7° ₹14'28 0° ₹ 0° ₹51'00 8° ₹51'57 18° ₹39'25 18° ₹54'02 29° ₹39'55 0° ¶	0°54'21 1.45263 AU -0.7m 19°20'15 3°21'04 3°20'49 0.66399 AU 26°03'35 1.35351 AU -0°53'01
minimum elong evening rise  asc. node evening max el  retrograde evening set  inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set max. Earth dist.  superior conj minimum elong asc. node evening rise  evening max el desc. node	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 05 21:21 4480 Mar 09 01:38 4480 Mar 10 09:09 4480 Mar 14 18:56 4480 Mar 14 18:17 4480 Mar 16 17:59 4480 Mar 20 10:25 4480 Mar 27 02:54 4480 Apr 04 11:15 4480 Apr 09 11:56 4480 Apr 14 18:40 4480 May 05 04:38 4480 May 15 02:05 4480 May 21 02:07 4480 May 23 09:51 4480 May 23 11:05 4480 May 23 11:05 4480 May 23 11:05 4480 May 30 17:43 4480 Jun 04 11:23 4480 Jun 04 11:23 4480 Jun 20 04:53 4480 Jul 01 10:27	2°≈42'19 27°≈30'07 0° H 27° H38'35 28° H14'01 0° Y 1° Y52'49 0° Y55'34 30° R H 25° H19'11 25° H21'10 22° H57'15 19° H07'05 16° H17'07 19° H41'24 24° H07'35 0° Y 0° B 17° B58'56 27° B00'11 0° II 4° II 50'27 4° II 56'57 9° II 40'27 20° II 22'04 0° © 23° © 36'58 29° \$44'52	1°35'59  18°38'10  3°33'54 3°33'52 0.65032 AU  27°08'11  1.33827 AU  -0°23'35 0°23'20	minimum elong max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise  direct  desc. node morning max el  morning set max. Earth dist.  superior conj minimum elong	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21 4481 Feb 13 14:27 4481 Feb 26 17:11 4481 Feb 26 17:11 4481 Feb 26 15:26 4481 Feb 28 01:05 4481 Mar 04 01:24 4481 Mar 04 01:24 4481 Mar 10 07:54 4481 Mar 12 08:03 4481 Mar 22 08:18 4481 Mar 22 08:18 4481 Mar 22 1:51 4481 Apr 09 14:18 4481 Apr 27 14:47 4481 Apr 28 01:49 4481 May 07 05:26 4481 May 07 05:26 4481 May 12 13:45 4481 May 12 17:38 4481 May 15 01:20	11°る29'31 15°る05'04 0°≈ 7°≈19'01 25°≈05'55 0° 光 11° X44'55 14° X18'48 15° X48'49 14° X38'20 8° X46'12 8° X51'54 7° X02'48 2° X31'56 30° R≈ 29°≈45'09 0° X 6° X40'40 7° X14'28 0° Y 0° 8 0° 851'00 8° 815'57 18° 839'25 18° 854'02 29° 839'55 0° II 4° II47'34	0°54'21 1.45263 AU -0.7m 19°20'15 3°21'04 3°20'49 0.66399 AU 26°03'35 1.35351 AU -0°53'01
minimum elong evening rise  asc. node evening max el  retrograde evening set  inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set max. Earth dist.  superior conj minimum elong asc. node evening rise  evening max el desc. node retrograde	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 05 21:21 4480 Mar 09 01:38 4480 Mar 10 09:09 4480 Mar 14 18:56 4480 Mar 14 18:17 4480 Mar 20 10:25 4480 Mar 20 10:25 4480 Mar 20 10:25 4480 Apr 04 11:15 4480 Apr 09 11:56 4480 Apr 14 18:40 4480 May 15 02:05 4480 May 17 02:07 4480 May 23 09:51 4480 May 23 09:51 4480 May 23 11:05 4480 May 20 04:53 4480 Jun 04 11:23 4480 Jun 04 11:23 4480 Jul 01 10:27 4480 Jul 01 10:27	2°≈42'19 27°≈30'07 0° H 27° H38'35 28° H14'01 0° Y 1° Y52'49 0° Y55'34 30° R H 25° H19'11 25° H21'10 22° H57'15 19° H07'05 16° H17'07 19° H41'24 24° H07'35 0° Y 0° B 17° B58'56 27° B00'11 0° II 4° II 50'27 4° II 56'57 9° II 40'27 20° II 22'04 0° 9 23° 936'58 29° 944'52 29° 948'46	1°35'59  18°38'10  3°33'54 3°33'52 0.65032 AU  27°08'11  1.33827 AU  -0°23'35 0°23'20	minimum elong max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise  direct  desc. node morning max el  morning set max. Earth dist.  superior conj minimum elong asc. node evening rise	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21 4481 Feb 13 14:27 4481 Feb 17 17:52 4481 Feb 26 17:11 4481 Feb 26 15:26 4481 Feb 28 01:05 4481 Mar 04 01:24 4481 Mar 04 01:24 4481 Mar 10 07:54 4481 Mar 12 08:03 4481 Mar 12 08:03 4481 Mar 22 21:51 4481 Mar 22 08:18 4481 Mar 22 08:18 4481 Mar 22 08:18 4481 Mar 23 01:49 4481 May 07 05:26 4481 May 07 05:26 4481 May 07 05:26 4481 May 12 13:45 4481 May 12 17:38 4481 May 15 01:20 4481 May 29 08:22	11°る29'31 15°る05'04 0°≈ 7°≈19'01 25°≈05'55 0° 光 11° X44'55 14° X18'48 15° X48'49 14° X38'20 8° X46'12 8° X51'54 7° X02'48 2° X31'56 30° R≈ 29°≈45'09 0° X 6° X40'40 7° X14'28 0° Y 0° 8 0° 851'00 8° 815'57 18° 839'25 18° 854'02 29° 839'55 0° II 4° II47'34 0° ©	0°54'21 1.45263 AU -0.7m 19°20'15 3°21'04 3°20'49 0.66399 AU 26°03'35 1.35351 AU -0°53'01 0°52'28
minimum elong evening rise  asc. node evening max el  retrograde evening set  inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el  morning set max. Earth dist.  superior conj minimum elong asc. node evening rise  evening max el desc. node	4480 Jan 23 04:54 4480 Feb 07 17:25 4480 Feb 09 06:20 4480 Feb 27 17:25 4480 Feb 28 06:59 4480 Mar 01 06:12 4480 Mar 05 21:21 4480 Mar 09 01:38 4480 Mar 10 09:09 4480 Mar 14 18:56 4480 Mar 14 18:17 4480 Mar 16 17:59 4480 Mar 20 10:25 4480 Mar 27 02:54 4480 Apr 04 11:15 4480 Apr 09 11:56 4480 Apr 14 18:40 4480 May 05 04:38 4480 May 15 02:05 4480 May 21 02:07 4480 May 23 09:51 4480 May 23 11:05 4480 May 23 11:05 4480 May 23 11:05 4480 May 30 17:43 4480 Jun 04 11:23 4480 Jun 04 11:23 4480 Jun 20 04:53 4480 Jul 01 10:27	2°≈42'19 27°≈30'07 0° H 27° H38'35 28° H14'01 0° Y 1° Y52'49 0° Y55'34 30° R H 25° H19'11 25° H21'10 22° H57'15 19° H07'05 16° H17'07 19° H41'24 24° H07'35 0° Y 0° B 17° B58'56 27° B00'11 0° II 4° II 50'27 4° II 56'57 9° II 40'27 20° II 22'04 0° © 23° © 36'58 29° \$44'52	1°35'59  18°38'10  3°33'54 3°33'52 0.65032 AU  27°08'11  1.33827 AU  -0°23'35 0°23'20	minimum elong max. Earth dist.  evening rise greatest brilliancy  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise  direct  desc. node morning max el  morning set max. Earth dist.  superior conj minimum elong asc. node	4481 Jan 01 10:09 4481 Jan 03 17:01 4481 Jan 13 05:52 4481 Jan 17 22:15 4481 Jan 29 08:54 4481 Feb 01 15:08 4481 Feb 10 15:21 4481 Feb 13 14:27 4481 Feb 26 17:11 4481 Feb 26 17:11 4481 Feb 26 15:26 4481 Feb 28 01:05 4481 Mar 04 01:24 4481 Mar 04 01:24 4481 Mar 10 07:54 4481 Mar 12 08:03 4481 Mar 22 08:18 4481 Mar 22 08:18 4481 Mar 22 1:51 4481 Apr 09 14:18 4481 Apr 27 14:47 4481 Apr 28 01:49 4481 May 07 05:26 4481 May 07 05:26 4481 May 12 13:45 4481 May 12 17:38 4481 May 15 01:20	11°る29'31 15°る05'04 0°≈ 7°≈19'01 25°≈05'55 0° 光 11° X44'55 14° X18'48 15° X48'49 14° X38'20 8° X46'12 8° X51'54 7° X02'48 2° X31'56 30° R≈ 29°≈45'09 0° X 6° X40'40 7° X14'28 0° Y 0° 8 0° 851'00 8° 815'57 18° 839'25 18° 854'02 29° 839'55 0° II 4° II47'34	0°54'21 1.45263 AU -0.7m 19°20'15 3°21'04 3°20'49 0.66399 AU 26°03'35 1.35351 AU -0°53'01 0°52'28

retrograde	4481 Jun 13 06:43	9° <b>©</b> 55'33		evening set	4482 May 27 04:41	20° <b>Ⅲ</b> 32'01	
evening set	4481 Jun 15 06:17	9° <b>9</b> 35'35		inferior conj	4482 Jun 04 16:57	16° <b>∏</b> 24'12	0°08'32
desc. node	4481 Jun 18 07:29	8° <b>9</b> 55'35		minimum elong	4482 Jun 04 17:18	16° <b>Ⅲ</b> 23'36	0°08'23
inferior conj	4481 Jun 24 10:44	5° <b>©</b> 47'57	-1°48'58	transit middle	4482 Jun 04 17:18	16° <b>Ⅲ</b> 23'36	0°08'23
minimum elong	4481 Jun 24 05:37	5° <b>©</b> 55'24	1°47'06	transit begin	4482 Jun 04 14:01	16° <b>Ⅲ</b> 29'00	0 00 23
min. Earth dist.	4481 Jun 25 20:09	4° <b>9</b> 59'14	0.54985 AU	transit end	4482 Jun 04 20:35	16° <b>Ⅱ</b> 18'11	
morning rise	4481 Jul 03 03:53	1°936'51	0.0 1900 110	desc. node	4482 Jun 05 04:32	16° <b>Ⅱ</b> 05'04	
direct	4481 Jul 07 01:37	1°503'54		min. Earth dist.	4482 Jun 07 10:33	14° <b>∏</b> 36'46	0.56026 AU
morning max el	4481 Jul 20 12:16	7° <b>©</b> 35'39	23°32'17	morning rise	4482 Jun 13 02:57	11° <b>Ⅲ</b> 39'40	
Ü	4481 Aug 05 13:36	$0^{\circ}\Omega$		direct	4482 Jun 17 22:36	10° <b>Ⅱ</b> 46'32	
asc. node	4481 Aug 08 13:01	5° <b>Ω</b> 37'38		morning max el	4482 Jul 02 01:59	17° <b>Ⅲ</b> 57'39	25°13'43
morning set	4481 Aug 13 05:03	15° <b>Ω</b> 09'21			4482 Jul 12 01:18	0°9	
	•			asc. node	4482 Jul 26 10:03	25° <b>©</b> 16'57	
superior conj	4481 Aug 20 05:16	0° Mp 14′25	1°35'38	morning set	4482 Jul 28 16:42	0° <b>Ω</b> 02'04	
minimum elong	4481 Aug 20 03:30	0° Mp 04'57	1°35'30		4482 Jul 28 16:19	$0^{\circ}\Omega$	
	4481 Aug 20 02:35	0° <b>m</b>					
max. Earth dist.	4481 Aug 22 15:52	5°₩27'36	1.33421 AU	superior conj	4482 Aug 04 15:14	15° <b>Ω</b> 06'55	1°23'11
evening rise	4481 Aug 27 18:32	16° Mp 00'09		minimum elong	4482 Aug 04 12:58	14° <b>Ω</b> 54'33	1°22'54
	4481 Sep 04 03:44	0∘ <b>⊽</b>		max. Earth dist.	4482 Aug 05 21:38	17° <b>Ω</b> 53'04	1.32535 AU
desc. node	4481 Sep 14 06:46	16° <b>≙</b> 41'12		evening rise	4482 Aug 11 18:12	0°m/21'10	
	4481 Sep 24 00:53	0°M			4482 Aug 11 14:06	0° <b>m</b> )	
evening max el	4481 Sep 30 19:11	7° <b>™</b> 21'49	27°22'33		4482 Aug 28 04:13	0∘ <b>⊽</b>	
retrograde	4481 Oct 14 08:18	14° <b>M</b> 40'14		desc. node	4482 Sep 01 03:48	5° <b>≙</b> 53'30	
evening set	4481 Oct 21 09:37	12°M00'38		evening max el	4482 Sep 13 04:37	20° <b>≙</b> 15'45	27°23'27
min. Earth dist.	4481 Oct 25 03:37	8°M36'05	0.64254 AU	retrograde	4482 Sep 26 23:26	27° <b>≗</b> 30'45	
inferior conj	4481 Oct 27 13:34	6°№03'04	-2°35'55	evening set	4482 Oct 04 03:46	25° <b>≙</b> 02'49	
minimum elong	4481 Oct 27 18:01	5° <b>™</b> 51'17	2°34'15	min. Earth dist.	4482 Oct 07 18:40	22° <b>≏</b> 07'07	0.62479 AU
morning rise	4481 Nov 03 03:43	0°M38'38		inferior conj	4482 Oct 10 15:52	19° <b>≏</b> 23'52	-3°36'41
asc. node	4481 Nov 04 12:14	0°M13'15		minimum elong	4482 Oct 10 21:43	19° <b>≏</b> 10′04	3°34'54
direct	4481 Nov 05 16:25	0°M06'11		morning rise	4482 Oct 17 17:20	14° <b>≏</b> 17'25	
morning max el	4481 Nov 12 04:37	3°M31'41	17°54'32	direct	4482 Oct 20 02:15	13° <b>≏</b> 52'06	
morning set	4481 Nov 29 05:49	29°M26'23		asc. node	4482 Oct 22 09:16	14° <b>≙</b> 16′28	
	4481 Nov 29 13:45	0° <b>∡</b> 7		morning max el	4482 Oct 26 20:53	17° <b>≙</b> 19'50	17°50'38
desc. node	4481 Dec 11 06:04	19° <b>∡</b> 27'30			4482 Nov 04 21:26	0° <b>M</b> ₊	
				morning set	4482 Nov 11 21:01	12°M14'55	
superior conj	4481 Dec 12 09:23	21° <b>₹</b> 18'13	-0°07'54		4482 Nov 22 00:04	0° <b>∡</b> ¹	
minimum elong	4481 Dec 12 08:28	21° <b>≯</b> 14'31	0°07'46				
behind sun begin							
oemma sam oegm	4481 Dec 11 23:29	20° <b>≯</b> 38'10		superior conj	4482 Nov 23 03:08	1° <b>∡</b> ′54'59	0°34'37
behind sun end	4481 Dec 12 17:27	21° <b>∡</b> 750'48		superior conj minimum elong	4482 Nov 23 06:14	2° <b>₹</b> '08'09	0°34'37 0°34'12
2		21° <b>尽</b> 50'48 29° <b>尽</b> 27'11	1.44683 AU	minimum elong desc. node	4482 Nov 23 06:14 4482 Nov 28 03:05		
behind sun end	4481 Dec 12 17:27	21° <b>∡</b> 750'48	1.44683 AU	minimum elong	4482 Nov 23 06:14	2° 🗷 08'09 10° 🗷 14'45 13° 🗷 31'08	
behind sun end	4481 Dec 12 17:27 4481 Dec 17 11:35 4481 Dec 17 19:52 4481 Dec 28 10:58	21° <b>メ</b> 50'48 29° <b>メ</b> 27'11 0°る 16°る33'42	1.44683 AU	minimum elong desc. node	4482 Nov 23 06:14 4482 Nov 28 03:05 4482 Nov 30 03:16 4482 Dec 07 22:05	2° 🗷 08'09 10° 🗷 14'45 13° 🗷 31'08 25° 🗷 51'47	0°34'12
behind sun end max. Earth dist. evening rise	4481 Dec 12 17:27 4481 Dec 17 11:35 4481 Dec 17 19:52 4481 Dec 28 10:58 4482 Jan 06 06:45	21°♂50'48 29°♂27'11 0°♂ 16°♂33'42 0°≈		minimum elong desc. node max. Earth dist.	4482 Nov 23 06:14 4482 Nov 28 03:05 4482 Nov 30 03:16 4482 Dec 07 22:05 4482 Dec 10 14:24	2° ₹ 08'09 10° ₹ 14'45 13° ₹ 31'08 25° ₹ 51'47 0° ₹	0°34'12
behind sun end max. Earth dist. evening rise evening max el	4481 Dec 12 17:27 4481 Dec 17 11:35 4481 Dec 17 19:52 4481 Dec 28 10:58 4482 Jan 06 06:45 4482 Jan 24 18:49	21°♂50'48 29°♂27'11 0°♂ 16°♂33'42 0°≈ 25°≈17'32	1.44683 AU 20°17'38	minimum elong desc. node max. Earth dist. evening rise	4482 Nov 23 06:14 4482 Nov 28 03:05 4482 Nov 30 03:16 4482 Dec 07 22:05 4482 Dec 10 14:24 4482 Dec 31 06:37	2° ₹08'09 10° ₹14'45 13° ₹31'08 25° ₹51'47 0° ₹ 0° ≈	0°34'12 1.43443 AU
behind sun end max. Earth dist. evening rise evening max el asc. node	4481 Dec 12 17:27 4481 Dec 17 11:35 4481 Dec 17 19:52 4481 Dec 28 10:58 4482 Jan 06 06:45 4482 Jan 24 18:49 4482 Jan 31 11:30	21° ₹50'48 29° ₹27'11 0° ₹5 16° ₹33'42 0° ≈ 25° ≈17'32 29° ≈47'10		minimum elong desc. node max. Earth dist. evening rise	4482 Nov 23 06:14 4482 Nov 28 03:05 4482 Nov 30 03:16 4482 Dec 07 22:05 4482 Dec 10 14:24 4482 Dec 31 06:37 4483 Jan 07 16:53	2° ₹08'09 10° ₹14'45 13° ₹31'08 25° ₹51'47 0° ₹ 0° ≈ 8° ≈ 52'01	0°34'12
behind sun end max. Earth dist. evening rise evening max el asc. node retrograde	4481 Dec 12 17:27 4481 Dec 17 11:35 4481 Dec 17 19:52 4481 Dec 28 10:58 4482 Jan 06 06:45 4482 Jan 24 18:49 4482 Jan 31 11:30 4482 Feb 01 16:01	21° ₹50'48 29° ₹27'11 0° ₹5 16° ₹33'42 0° ≈ 25° ≈17'32 29° ≈47'10 29° ≈54'48		minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	4482 Nov 23 06:14 4482 Nov 28 03:05 4482 Nov 30 03:16 4482 Dec 07 22:05 4482 Dec 10 14:24 4482 Dec 31 06:37 4483 Jan 07 16:53 4483 Jan 16 13:38	2° ₹08'09 10° ₹14'45 13° ₹31'08 25° ₹51'47 0° ₹ 0° ≈ 8° ≈ 52'01 14° ≈ 07'36	0°34'12 1.43443 AU
behind sun end max. Earth dist.  evening rise  evening max el asc. node retrograde evening set	4481 Dec 12 17:27 4481 Dec 17 11:35 4481 Dec 17 19:52 4481 Dec 28 10:58 4482 Jan 06 06:45 4482 Jan 24 18:49 4482 Jan 31 11:30 4482 Feb 01 16:01 4482 Feb 05 11:42	21° ₹50'48 29° ₹27'11 0° ₹ 16° ₹33'42 0° ≈ 25° ≈17'32 29° ≈47'10 29° ≈54'48 28° ≈30'08	20°17'38	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	4482 Nov 23 06:14 4482 Nov 28 03:05 4482 Nov 30 03:16 4482 Dec 07 22:05 4482 Dec 10 14:24 4482 Dec 31 06:37 4483 Jan 07 16:53 4483 Jan 16 13:38 4483 Jan 18 08:32	2° 🛪 08'09 10° 🛪 14'45 13° 🛪 31'08 25° 🛪 51'47 0° 云 0° ≈ 8° ≈ 52'01 14° ≈ 07'36 13° ≈ 50'20	0°34'12 1.43443 AU
behind sun end max. Earth dist.  evening rise  evening max el asc. node retrograde evening set inferior conj	4481 Dec 12 17:27 4481 Dec 17 11:35 4481 Dec 17 19:52 4481 Dec 28 10:58 4482 Jan 06 06:45 4482 Jan 24 18:49 4482 Feb 01 16:01 4482 Feb 05 11:42 4482 Feb 10 20:50	21° ₹50'48 29° ₹27'11 0° ₹ 16° ₹33'42 0° ≈ 25° ≈17'32 29° ≈47'10 29° ≈54'48 28° ≈30'08 22° ≈24'42	20°17'38 2°56'49	minimum elong desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set	4482 Nov 23 06:14 4482 Nov 28 03:05 4482 Nov 30 03:16 4482 Dec 07 22:05 4482 Dec 10 14:24 4482 Dec 31 06:37 4483 Jan 07 16:53 4483 Jan 16 13:38 4483 Jan 18 08:32 4483 Jan 20 19:25	2° ₹08'09 10° ₹14'45 13° ₹31'08 25° ₹51'47 0° ₹5 0° ≈ 8° ≈52'01 14° ≈07'36 13° ≈50'20 12° ≈27'40	0°34'12 1.43443 AU 21°27'12
behind sun end max. Earth dist.  evening rise  evening max el asc. node retrograde evening set inferior conj minimum elong	4481 Dec 12 17:27 4481 Dec 17 11:35 4481 Dec 17 19:52 4481 Dec 28 10:58 4482 Jan 06 06:45 4482 Jan 24 18:49 4482 Jan 31 11:30 4482 Feb 01 16:01 4482 Feb 05 11:42 4482 Feb 10 20:50 4482 Feb 10 18:30	21° ₹50'48 29° ₹27'11 0° ₹ 16° ₹33'42 0° ≈ 25° ≈17'32 29° ≈47'10 29° ≈54'48 28° ≈30'08 22° ≈24'42 22° ≈32'39	20°17'38 2°56'49 2°56'16	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj	4482 Nov 23 06:14 4482 Nov 28 03:05 4482 Nov 30 03:16 4482 Dec 07 22:05 4482 Dec 10 14:24 4482 Dec 31 06:37 4483 Jan 07 16:53 4483 Jan 16 13:38 4483 Jan 18 08:32 4483 Jan 20 19:25 4483 Jan 26 03:37	2° ₹08'09 10° ₹14'45 13° ₹31'08 25° ₹51'47 0° ₹ 0° ≈ 8° ≈52'01 14° ≈07'36 13° ≈50'20 12° ≈27'40 6° ≈11'52	0°34'12 1.43443 AU 21°27'12 2°23'17
behind sun end max. Earth dist.  evening rise  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	4481 Dec 12 17:27 4481 Dec 17 11:35 4481 Dec 17 19:52 4481 Dec 28 10:58 4482 Jan 06 06:45 4482 Jan 24 18:49 4482 Jan 31 11:30 4482 Feb 01 16:01 4482 Feb 05 11:42 4482 Feb 10 20:50 4482 Feb 10 18:30 4482 Feb 11 14:54	21° \$\times 50'48 29° \$\times 27'11 0° \$\times 6 16° \$\times 33'42 0° \$\approx 25° \$\approx 17'32 29° \$\approx 47'10 29° \$\approx 54'48 28° \$\approx 30'08 22° \$\approx 24'42 22° \$\approx 32'39 21° \$\approx 23'26	20°17'38 2°56'49	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	4482 Nov 23 06:14 4482 Nov 28 03:05 4482 Nov 30 03:16 4482 Dec 07 22:05 4482 Dec 10 14:24 4482 Dec 31 06:37 4483 Jan 07 16:53 4483 Jan 16 13:38 4483 Jan 18 08:32 4483 Jan 20 19:25 4483 Jan 26 03:37 4483 Jan 26 01:11	2° ₹08'09 10° ₹14'45 13° ₹31'08 25° ₹51'47 0° ₹ 0° ≈ 8° ≈52'01 14° ≈07'36 13° ≈50'20 12° ≈27'40 6° ≈11'52 6° ≈20'18	0°34'12  1.43443 AU  21°27'12  2°23'17 2°22'32
behind sun end max. Earth dist.  evening rise  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	4481 Dec 12 17:27 4481 Dec 17 11:35 4481 Dec 17 19:52 4481 Dec 28 10:58 4482 Jan 06 06:45 4482 Jan 24 18:49 4482 Jan 31 11:30 4482 Feb 01 16:01 4482 Feb 10 20:50 4482 Feb 10 18:30 4482 Feb 11 14:54 4482 Feb 16 01:03	21° \$\times 50'48 29° \$\times 27'11 0° \$\times 633'42 0° \$\infty 25' \$\infty 17'32 29° \$\infty 47'10 29° \$\infty 54'48 28° \$\infty 30'08 22° \$\infty 24'42 22° \$\infty 32'39 21° \$\infty 23'26 16° \$\infty 10'34	20°17'38 2°56'49 2°56'16	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	4482 Nov 23 06:14 4482 Nov 28 03:05 4482 Nov 30 03:16 4482 Dec 07 22:05 4482 Dec 10 14:24 4482 Dec 31 06:37 4483 Jan 07 16:53 4483 Jan 16 13:38 4483 Jan 18 08:32 4483 Jan 20 19:25 4483 Jan 26 03:37 4483 Jan 26 01:11 4483 Jan 26 09:12	2° ₹08'09 10° ₹14'45 13° ₹31'08 25° ₹51'47 0° ₹ 0° ≈ 8° ≈52'01 14° ≈07'36 13° ≈50'20 12° ≈27'40 6° ≈11'52 6° ≈20'18 5° ≈52'31	0°34'12 1.43443 AU 21°27'12 2°23'17
behind sun end max. Earth dist.  evening rise  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	4481 Dec 12 17:27 4481 Dec 17 11:35 4481 Dec 17 19:52 4481 Dec 28 10:58 4482 Jan 06 06:45 4482 Jan 24 18:49 4482 Feb 01 16:01 4482 Feb 05 11:42 4482 Feb 10 20:50 4482 Feb 10 18:30 4482 Feb 11 14:54 4482 Feb 16 01:03 4482 Feb 21 18:29	21° ₹50'48 29° ₹27'11 0° ₹5 16° ₹33'42 0° ≈ 25° ≈17'32 29° ≈47'10 29° ≈54'48 28° ≈30'08 22° ≈24'42 22° ≈32'39 21° ≈23'26 16° ≈10'34 13° ≈37'07	20°17'38 2°56'49 2°56'16 0.67352 AU	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	4482 Nov 23 06:14 4482 Nov 28 03:05 4482 Nov 30 03:16 4482 Dec 07 22:05 4482 Dec 10 14:24 4482 Dec 31 06:37 4483 Jan 07 16:53 4483 Jan 16 13:38 4483 Jan 18 08:32 4483 Jan 20 19:25 4483 Jan 26 03:37 4483 Jan 26 01:11 4483 Jan 26 09:12 4483 Jan 31 06:45	2° ₹08'09 10° ₹14'45 13° ₹31'08 25° ₹51'47 0° ₹ 0° ≈ 8° ≈52'01 14° ≈07'36 13° ≈50'20 12° ≈27'40 6° ≈11'52 6° ≈20'18 5° ≈52'31 29° ₹59'34	0°34'12  1.43443 AU  21°27'12  2°23'17 2°22'32
behind sun end max. Earth dist.  evening rise  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	4481 Dec 12 17:27 4481 Dec 17 11:35 4481 Dec 17 19:52 4481 Dec 28 10:58 4482 Jan 06 06:45 4482 Jan 24 18:49 4482 Feb 01 16:01 4482 Feb 05 11:42 4482 Feb 10 20:50 4482 Feb 10 18:30 4482 Feb 11 14:54 4482 Feb 16 01:03 4482 Feb 21 18:29 4482 Mar 05 06:31	21° ₹50'48 29° ₹27'11 0° ₹5 16° ₹33'42 0° ≈ 25° ≈17'32 29° ≈47'10 29° ≈54'48 28° ≈30'08 22° ≈24'42 22° ≈32'39 21° ≈23'26 16° ≈10'34 13° ≈37'07 20° ≈29'56	20°17'38 2°56'49 2°56'16	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	4482 Nov 23 06:14 4482 Nov 28 03:05 4482 Nov 30 03:16 4482 Dec 07 22:05 4482 Dec 10 14:24 4482 Dec 31 06:37 4483 Jan 07 16:53 4483 Jan 16 13:38 4483 Jan 18 08:32 4483 Jan 20 19:25 4483 Jan 26 03:37 4483 Jan 26 01:11 4483 Jan 26 09:12 4483 Jan 31 06:45 4483 Jan 31 06:45	2° ₹08'09 10° ₹14'45 13° ₹31'08 25° ₹51'47 0° ₹ 0° ≈ 8° ≈52'01 14° ≈07'36 13° ≈50'20 12° ≈27'40 6° ≈11'52 6° ≈20'18 5° ≈52'31 29° ₹59'34 30° ₹₹	0°34'12  1.43443 AU  21°27'12  2°23'17 2°22'32
behind sun end max. Earth dist.  evening rise  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	4481 Dec 12 17:27 4481 Dec 17 11:35 4481 Dec 17 19:52 4481 Dec 28 10:58 4482 Jan 06 06:45 4482 Jan 24 18:49 4482 Jan 31 11:30 4482 Feb 01 16:01 4482 Feb 10 20:50 4482 Feb 10 18:30 4482 Feb 11 14:54 4482 Feb 16 01:03 4482 Feb 21 18:29 4482 Mar 05 06:31 4482 Mar 09 05:20	21° ₹50'48 29° ₹27'11 0° ₹5 16° ₹33'42 0° ≈ 25° ≈17'32 29° ≈47'10 29° ≈54'48 28° ≈30'08 22° ≈24'42 22° ≈32'39 21° ≈23'26 16° ≈10'34 13° ≈37'07 20° ≈29'56 24° ≈49'16	20°17'38 2°56'49 2°56'16 0.67352 AU	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	4482 Nov 23 06:14 4482 Nov 28 03:05 4482 Nov 30 03:16 4482 Dec 07 22:05 4482 Dec 10 14:24 4482 Dec 31 06:37 4483 Jan 07 16:53 4483 Jan 16 13:38 4483 Jan 18 08:32 4483 Jan 26 03:37 4483 Jan 26 03:37 4483 Jan 26 01:11 4483 Jan 31 06:45 4483 Jan 31 06:45 4483 Jan 31 06:34 4483 Feb 05 09:39	2°水08'09 10°水14'45 13°水31'08 25°水51'47 0°云 0°≈ 8°≈52'01 14°≈07'36 13°≈50'20 12°≈27'40 6°≈11'52 6°≈20'18 5°≈52'31 29°♂59'34 30°R♂ 27°♂46'06	0°34'12  1.43443 AU  21°27'12  2°23'17 2°22'32
behind sun end max. Earth dist.  evening rise  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	4481 Dec 12 17:27 4481 Dec 17 11:35 4481 Dec 17 19:52 4481 Dec 28 10:58 4482 Jan 06 06:45 4482 Jan 24 18:49 4482 Jan 31 11:30 4482 Feb 01 16:01 4482 Feb 10 20:50 4482 Feb 10 18:30 4482 Feb 11 14:54 4482 Feb 16 01:03 4482 Feb 21 18:29 4482 Mar 05 06:31 4482 Mar 09 05:20 4482 Mar 13 10:24	21° ₹50'48 29° ₹27'11 0° ₹ 16° ₹33'42 0° ≈ 25° ≈17'32 29° ≈47'10 29° ≈54'48 28° ≈30'08 22° ≈24'42 22° ≈32'39 21° ≈23'26 16° ≈10'34 13° ≈37'07 20° ≈29'56 24° ≈49'16 0° ₹	20°17'38 2°56'49 2°56'16 0.67352 AU	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	4482 Nov 23 06:14 4482 Nov 28 03:05 4482 Nov 30 03:16 4482 Dec 07 22:05 4482 Dec 10 14:24 4482 Dec 31 06:37 4483 Jan 07 16:53 4483 Jan 16 13:38 4483 Jan 18 08:32 4483 Jan 26 03:37 4483 Jan 26 03:37 4483 Jan 26 09:12 4483 Jan 31 06:45 4483 Jan 31 06:34 4483 Feb 05 09:39 4483 Feb 11 05:00	2° 🛪 08'09 10° 🛪 14'45 13° 🛪 31'08 25° 🛪 51'47 0° 云 0° ≈ 8° ≈ 52'01 14° ≈ 07'36 13° ≈ 50'20 12° ≈ 27'40 6° ≈ 11'52 6° ≈ 20'18 5° ≈ 52'31 29° 云 59'34 30° R 云 27° 云 46'06 0° ≈	0°34'12  1.43443 AU  21°27'12  2°23'17  2°22'32  0.67901 AU
behind sun end max. Earth dist.  evening rise  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	4481 Dec 12 17:27 4481 Dec 17 11:35 4481 Dec 17 19:52 4481 Dec 28 10:58 4482 Jan 06 06:45 4482 Jan 24 18:49 4482 Feb 01 16:01 4482 Feb 05 11:42 4482 Feb 10 20:50 4482 Feb 10 18:30 4482 Feb 11 14:54 4482 Feb 16 01:03 4482 Feb 21 18:29 4482 Mar 05 06:31 4482 Mar 09 05:20 4482 Mar 13 10:24 4482 Apr 02 18:58	21° ₹50'48 29° ₹27'11 0° ₹ 16° ₹33'42 0° ≈ 25° ≈17'32 29° ≈47'10 29° ≈54'48 28° ≈30'08 22° ≈24'42 22° ≈32'39 21° ≈23'26 16° ≈10'34 13° ≈37'07 20° ≈29'56 24° ≈49'16 0° ₹ 0° ♀	20°17'38 2°56'49 2°56'16 0.67352 AU	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	4482 Nov 23 06:14 4482 Nov 28 03:05 4482 Nov 30 03:16 4482 Dec 07 22:05 4482 Dec 10 14:24 4482 Dec 31 06:37 4483 Jan 07 16:53 4483 Jan 16 13:38 4483 Jan 20 19:25 4483 Jan 26 03:37 4483 Jan 26 01:11 4483 Jan 26 09:12 4483 Jan 31 06:45 4483 Jan 31 06:45 4483 Feb 05 09:39 4483 Feb 11 05:00 4483 Feb 15 15:29	2° 🛪 08'09 10° 🛪 14'45 13° 🛪 31'08 25° 🛪 51'47 0° 🛪 0° 🕿 8° ※52'01 14° ※07'36 13° ※50'20 12° ※27'40 6° ※11'52 6° ※20'18 5° ※52'31 29° ♂59'34 30° ₨ 27° ♂46'06 0° ※ 3° ※51'02	0°34'12  1.43443 AU  21°27'12  2°23'17  2°22'32  0.67901 AU
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behind sun end max. Earth dist.  evening rise  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.	4481 Dec 12 17:27 4481 Dec 17 11:35 4481 Dec 17 19:52 4481 Dec 28 10:58 4482 Jan 06 06:45 4482 Jan 24 18:49 4482 Feb 01 16:01 4482 Feb 05 11:42 4482 Feb 10 20:50 4482 Feb 10 18:30 4482 Feb 11 14:54 4482 Feb 16 01:03 4482 Feb 21 18:29 4482 Mar 05 06:31 4482 Mar 09 05:20 4482 Mar 13 10:24 4482 Apr 02 18:58 4482 Apr 10 07:10 4482 Apr 13 22:10 4482 Apr 20 14:26 4482 Apr 20 18:45 4482 Apr 20 03:23 4482 Apr 29 03:23 4482 Apr 29 03:23	21° ₹50'48 29° ₹27'11 0° ₹ 16° ₹33'42 0° ≈ 25° ≈17'32 29° ≈47'10 29° ≈54'48 28° ≈30'08 22° ≈24'42 22° ≈32'39 21° ≈23'26 16° ≈10'34 13° ≈37'07 20° ≈29'56 24° ≈49'16 0° ₹ 0° ₹ 12° ₹46'00 19° ₹16'44 0° ₹ 1° ₹53'18 2° ₹14'20 18° ₹51'23 19° ₹28'18	20°17'38 2°56'49 2°56'16 0.67352 AU 24°41'35 1.37282 AU	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	4482 Nov 23 06:14 4482 Nov 28 03:05 4482 Dec 07 22:05 4482 Dec 10 14:24 4482 Dec 31 06:37 4483 Jan 07 16:53 4483 Jan 16 13:38 4483 Jan 26 03:37 4483 Jan 26 03:37 4483 Jan 26 01:11 4483 Jan 31 06:45 4483 Jan 31 06:45 4483 Jan 31 06:34 4483 Feb 05 09:39 4483 Feb 11 05:00 4483 Feb 15 15:29 4483 Mar 07 15:23 4483 Mar 26 08:13 4483 Mar 26 08:13 4483 Mar 26 17:11	2° ₹08'09 10° ₹14'45 13° ₹31'08 25° ₹51'47 0° ₹ 0° ≈ 8° ≈52'01 14° ≈07'36 13° ≈50'20 12° ≈27'40 6° ≈11'52 6° ≈20'18 5° ≈52'31 29° ₹59'34 30° ₹₹ 27° ₹46'06 0° ≈ 3° ≈51'02 13° ≈47'45 0° ₹ 23° ₹27'59 0° ₹ 0° ₹38'49	0°34'12  1.43443 AU  21°27'12  2°23'17  2°22'32  0.67901 AU  23°12'35
behind sun end max. Earth dist.  evening rise  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.  superior conj minimum elong evening rise asc. node	4481 Dec 12 17:27 4481 Dec 17 11:35 4481 Dec 17 19:52 4481 Dec 28 10:58 4482 Jan 06 06:45 4482 Jan 24 18:49 4482 Feb 01 16:01 4482 Feb 05 11:42 4482 Feb 10 20:50 4482 Feb 10 18:30 4482 Feb 11 14:54 4482 Feb 16 01:03 4482 Feb 21 18:29 4482 Mar 05 06:31 4482 Mar 09 05:20 4482 Mar 13 10:24 4482 Apr 02 18:58 4482 Apr 10 07:10 4482 Apr 13 22:10 4482 Apr 20 14:26 4482 Apr 20 18:45 4482 Apr 20 03:23 4482 Apr 29 03:23 4482 May 04 21:28	21° ₹50'48 29° ₹27'11 0° ₹ 16° ₹33'42 0° ≈ 25° ≈17'32 29° ≈47'10 29° ≈54'48 28° ≈30'08 22° ≈24'42 22° ≈32'39 21° ≈23'26 16° ≈10'34 13° ≈37'07 20° ≈29'56 24° ≈49'16 0° ₹ 0° ₹ 12° ₹46'00 19° ₹16'44 0° ₹ 1° ₹53'18 2° ₹14'20 18° ₹51'23 19° ₹28'18 0° ¶	20°17'38  2°56'49 2°56'16 0.67352 AU  24°41'35  1.37282 AU  -1°21'33 1°20'54	minimum elong desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise  direct  morning max el desc. node  morning set max. Earth dist.  superior conj minimum elong	4482 Nov 23 06:14 4482 Nov 28 03:05 4482 Dec 07 22:05 4482 Dec 10 14:24 4482 Dec 31 06:37 4483 Jan 07 16:53 4483 Jan 16 13:38 4483 Jan 20 19:25 4483 Jan 26 03:37 4483 Jan 26 01:11 4483 Jan 31 06:45 4483 Jan 31 06:45 4483 Jan 31 06:34 4483 Feb 05 09:39 4483 Feb 11 05:00 4483 Feb 15 15:29 4483 Mar 07 15:23 4483 Mar 26 08:13 4483 Mar 26 17:11  4483 Apr 03 08:57 4483 Apr 03 13:48 4483 Apr 03 13:48 4483 Apr 11 14:38	2° ₹08'09 10° ₹14'45 13° ₹31'08 25° ₹51'47 0° ₹ 0° ≈ 8° ≈52'01 14° ≈07'36 13° ≈50'20 12° ≈27'40 6° ≈11'52 6° ≈20'18 5° ≈52'31 29° ₹59'34 30° ₹₹ 27° ₹46'06 0° ≈ 3° ≈51'02 13° ≈47'45 0° ₹ 23° ₹27'59 0° ₹ 0° ₹38'49 14° ₹22'28 14° ₹44'53 0° ₹	0°34'12  1.43443 AU  21°27'12  2°23'17  2°22'32  0.67901 AU  23°12'35
behind sun end max. Earth dist.  evening rise  evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node  morning set max. Earth dist.  superior conj minimum elong evening rise	4481 Dec 12 17:27 4481 Dec 17 11:35 4481 Dec 17 19:52 4481 Dec 28 10:58 4482 Jan 06 06:45 4482 Jan 24 18:49 4482 Feb 01 16:01 4482 Feb 05 11:42 4482 Feb 10 20:50 4482 Feb 10 18:30 4482 Feb 11 14:54 4482 Feb 16 01:03 4482 Feb 21 18:29 4482 Mar 05 06:31 4482 Mar 09 05:20 4482 Mar 13 10:24 4482 Apr 02 18:58 4482 Apr 10 07:10 4482 Apr 13 22:10 4482 Apr 20 14:26 4482 Apr 20 18:45 4482 Apr 20 03:23 4482 Apr 29 03:23 4482 Apr 29 03:23	21° ₹50'48 29° ₹27'11 0° ₹ 16° ₹33'42 0° ≈ 25° ≈17'32 29° ≈47'10 29° ≈54'48 28° ≈30'08 22° ≈24'42 22° ≈32'39 21° ≈23'26 16° ≈10'34 13° ≈37'07 20° ≈29'56 24° ≈49'16 0° ₹ 0° ₹ 12° ₹46'00 19° ₹16'44 0° ₹ 1° ₹53'18 2° ₹14'20 18° ₹51'23 19° ₹28'18 0° ∏	20°17'38  2°56'49 2°56'16 0.67352 AU  24°41'35  1.37282 AU  -1°21'33 1°20'54	minimum elong desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise  direct  morning max el desc. node  morning set  max. Earth dist.	4482 Nov 23 06:14 4482 Nov 28 03:05 4482 Dec 07 22:05 4482 Dec 10 14:24 4482 Dec 31 06:37 4483 Jan 07 16:53 4483 Jan 16 13:38 4483 Jan 26 03:37 4483 Jan 26 03:37 4483 Jan 26 01:11 4483 Jan 31 06:45 4483 Jan 31 06:45 4483 Jan 31 06:34 4483 Feb 05 09:39 4483 Feb 11 05:00 4483 Feb 15 15:29 4483 Mar 07 15:23 4483 Mar 26 08:13 4483 Mar 26 08:13 4483 Mar 26 17:11	2° ₹08'09 10° ₹14'45 13° ₹31'08 25° ₹51'47 0° ₹ 0° ≈ 8° ≈52'01 14° ≈07'36 13° ≈50'20 12° ≈27'40 6° ≈11'52 6° ≈20'18 5° ≈52'31 29° ₹59'34 30° ₹₹ 27° ₹46'06 0° ≈ 3° ≈51'02 13° ≈47'45 0° ₹ 23° ₹27'59 0° ₹ 0° ₹38'49	0°34'12  1.43443 AU  21°27'12  2°23'17  2°22'32  0.67901 AU  23°12'35

evening max el	4483 Apr 29 01:54	28° <b>8</b> 32'14	18°35'47	asc. node	4484 Apr 02 04:50	28° <b>Ƴ</b> 11'52	
* · · · · · · · · · · · · · · · · · · ·	4483 Apr 30 17:58	0°П			4484 Apr 03 06:13	0°8	
retrograde	4483 May 06 21:27	2° <b>Ⅲ</b> 23′02		evening max el	4484 Apr 11 10:39	11° <b>8</b> 20'11	18°11'49
evening set	4483 May 09 03:12	2° <b>Ⅱ</b> 05′10		retrograde	4484 Apr 18 08:37	14° <b>8</b> 49'09	
	4483 May 13 13:06	30° <b>₹</b> 8		evening set	4484 Apr 20 21:01	14° <b>8</b> 22'09	
inferior conj	4483 May 16 19:26	27° <b>8</b> 38'33	1°44'00	inferior conj	4484 Apr 27 19:11	9° <b>8</b> 34'45	2°47'47
minimum elong	4483 May 16 22:44	27° <b>8</b> 32'11	1°42'57	minimum elong	4484 Apr 27 22:31	9° <b>8</b> 27'14	2°47'03
min. Earth dist.	4483 May 20 04:20	25° <b>8</b> 04'13	0.57782 AU	min. Earth dist.	4484 May 01 03:57	6° <b>8</b> 34'47	0.59909 AU
desc. node	4483 May 23 01:33	23° <b>8</b> 09'25		morning rise	4484 May 04 21:31	3° <b>8</b> 49'29	
morning rise	4483 May 24 15:04	22° <b>8</b> 19'39		desc. node	4484 May 08 22:34	2° <b>8</b> 07'44	
direct	4483 May 30 09:33	20° <b>8</b> 55'56		direct	4484 May 11 09:06	1° <b>8</b> 51'03	
morning max el	4483 Jun 13 18:30	28° <b>8</b> 32'25	26°38'53	morning max el	4484 May 25 17:21	9° <b>8</b> 42'57	27°34'11
C	4483 Jun 15 05:14	$\Pi^{\circ}0$		C	4484 Jun 10 08:13	$\Pi^{\circ}$	
	4483 Jul 05 16:11	0°ಅ		morning set	4484 Jun 26 10:16	29° <b>Ⅲ</b> 25'55	
morning set	4483 Jul 13 03:00	14° <b>©</b> 49'16		Č	4484 Jun 26 16:49	0°©	
asc. node	4483 Jul 13 07:04	15° <b>©</b> 10'42		asc. node	4484 Jun 29 04:05	5° <b>©</b> 13'56	
				max. Earth dist.	4484 Jul 02 19:44	13° <b>©</b> 11'10	1.32005 AU
superior conj	4483 Jul 20 02:51	0° <b>Ω</b> 01'56	1°06'06				
minimum elong	4483 Jul 20 00:34	29° <b>©</b> 49'22	1°05'42	superior conj	4484 Jul 03 14:24	14° <b>©</b> 53'58	0°44'58
8	4483 Jul 20 02:30	0°N		minimum elong	4484 Jul 03 12:35	14°9543'53	0°44'35
max. Earth dist.	4483 Jul 20 08:10	0° <b>Ω</b> 31'17	1.32067 AU	evening rise	4484 Jul 10 09:52	29°9645'53	050
evening rise	4483 Jul 27 00:05	14° <b>Ω</b> 58'48	1.52007 110	evening rise	4484 Jul 10 12:31	0° <b>Ω</b>	
evening rise	4483 Aug 03 13:45	0° m)			4484 Jul 26 22:56	0° <b>m</b> )	
desc. node	4483 Aug 19 00:49	24° Mp 16'40		desc. node	4484 Aug 04 21:50	11° <b>m</b> ) 30'59	
desc. Hode	4483 Aug 23 21:53	ე∘ <u>ი</u>		evening max el	4484 Aug 07 05:27	13° m) 51'57	25°46'30
arraning may al	•		26951101	=	•		25 40 50
evening max el	4483 Aug 26 08:48	2° <b>Ω</b> 28'17	26°51'01	retrograde	4484 Aug 21 04:31	20° m 58'39	
retrograde	4483 Sep 09 06:37	9° <u>0</u> 38'38		evening set	4484 Aug 27 08:16	19° <b>m</b> 28'59	0.50410.411
evening set	4483 Sep 16 04:54	7° <b>Ω</b> 34'34	0.60470.441	min. Earth dist.	4484 Aug 31 17:35	16° Mp 52'18	0.58419 AU
min. Earth dist.	4483 Sep 19 22:53	4° <b>Ω</b> 56'51	0.60479 AU	inferior conj	4484 Sep 03 22:22	14° m 34'36	
inferior conj	4483 Sep 23 03:58	2° <b>Ω</b> 17'30		minimum elong	4484 Sep 04 01:39	14° Mp 28'40	5°05'57
minimum elong	4483 Sep 23 09:50	2° <b>₾</b> 05'18	4°28'50	morning rise	4484 Sep 11 21:17	10° <b>m</b> 12'43	
	4483 Sep 26 01:36	30°R Mp		direct	4484 Sep 14 08:16	9° <b>m</b> 53'24	
morning rise	4483 Sep 30 16:43	27° TD 32'18		morning max el	4484 Sep 22 15:53	13° <b>m</b> 51'39	18°41'15
direct	4483 Oct 03 01:01	27° Mp 11'07		asc. node	4484 Sep 25 03:19	16° <b>m</b> 32'44	
asc. node	4483 Oct 09 06:18	29° Mp 47'28			4484 Oct 03 17:55	0∘ <b>⊽</b>	
	4483 Oct 09 12:13	0∘ <b>⊽</b>		morning set	4484 Oct 08 23:04	9° <b>≏</b> 55'03	
morning max el	4483 Oct 10 09:43	0° <b>ჲ</b> 49'18	18°05'45				
morning set	4483 Oct 26 04:23	25° <b>≏</b> 48'58		superior conj	4484 Oct 17 15:17	26° <b>≏</b> 39'49	1°28'46
	4483 Oct 28 10:08	0° <b>M</b>		minimum elong	4484 Oct 17 18:25	26° <b>≏</b> 54'34	1°28'28
					4484 Oct 19 10:09	0° <b>M</b> ₊	
superior conj	4483 Nov 04 22:38	13°M46'28	1°07'08	max. Earth dist.	4484 Oct 24 20:30	9° <b>M</b> 48′26	1.39643 AU
minimum elong	4483 Nov 05 02:42	14°M04'36	1°06'38	evening rise	4484 Oct 28 21:35	16° <b>M</b> 46′36	
max. Earth dist.	4483 Nov 12 14:21	27° <b>M</b> 01'37	1.41690 AU	desc. node	4484 Oct 31 21:07	21°M44'15	
	4483 Nov 14 09:12	0° <b>∡</b> 7			4484 Nov 06 00:57	0° <b>∡</b> 7	
desc. node	4483 Nov 15 00:06	1° <b>∡</b> 01'27					
evening rise					4484 Nov 27 10:45	0°ರ	
	4483 Nov 17 22:48	5° <b>√</b> 49'04		evening max el	4484 Nov 27 10:45 4484 Dec 02 23:40	0°궁 6° <b>궁</b> 07'08	24°04'38
	4483 Nov 17 22:48 4483 Dec 03 20:26	5°⊀⁴49'04 0°る		evening max el retrograde			24°04'38
evening max el			22°44'45	_	4484 Dec 02 23:40	6° <b>ろ</b> 07'08	24°04'38
evening max el retrograde	4483 Dec 03 20:26	5°0	22°44'45	retrograde	4484 Dec 02 23:40 4484 Dec 14 01:25	6°る07'08 12°る37'44	24°04'38
Č	4483 Dec 03 20:26 4483 Dec 21 09:59	0°중 22°중28'10	22°44'45	retrograde evening set	4484 Dec 02 23:40 4484 Dec 14 01:25 4484 Dec 19 07:56	6° ප්07'08 12° ප්37'44 10° ප්25'57	24°04'38 0.67850 AU
retrograde	4483 Dec 03 20:26 4483 Dec 21 09:59 4483 Dec 31 09:10	0°පි 22°පි28'10 28°පි23'10	22°44'45	retrograde evening set asc. node	4484 Dec 02 23:40 4484 Dec 14 01:25 4484 Dec 19 07:56 4484 Dec 22 02:35	6°ප07'08 12°ප37'44 10°ප25'57 7°ප30'53	
retrograde evening set asc. node	4483 Dec 03 20:26 4483 Dec 21 09:59 4483 Dec 31 09:10 4484 Jan 05 02:40	0°පි 22°පි28'10 28°පි23'10 26°පි27'12	22°44'45 1°41'56	retrograde evening set asc. node min. Earth dist. inferior conj	4484 Dec 02 23:40 4484 Dec 14 01:25 4484 Dec 19 07:56 4484 Dec 22 02:35 4484 Dec 24 02:01	6°ප07'08 12°ප37'44 10°ප25'57 7°ප30'53 4°ප56'50	0.67850 AU 0°53'52
retrograde evening set	4483 Dec 03 20:26 4483 Dec 21 09:59 4483 Dec 31 09:10 4484 Jan 05 02:40 4484 Jan 05 05:33	0°පි 22°පි28'10 28°පි23'10 26°පි27'12 26°පි21'08		retrograde evening set asc. node min. Earth dist.	4484 Dec 02 23:40 4484 Dec 14 01:25 4484 Dec 19 07:56 4484 Dec 22 02:35 4484 Dec 24 02:01 4484 Dec 24 18:48	6°ට07'08 12°ට37'44 10°ට25'57 7°ට30'53 4°ට56'50 4°ට00'04	0.67850 AU 0°53'52
retrograde evening set asc. node inferior conj	4483 Dec 03 20:26 4483 Dec 21 09:59 4483 Dec 31 09:10 4484 Jan 05 02:40 4484 Jan 05 05:33 4484 Jan 10 11:31	0° ත් 22° ත්28'10 28° ත්23'10 26° ත්27'12 26° ත්21'08 20° ත්04'23	1°41'56	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	4484 Dec 02 23:40 4484 Dec 14 01:25 4484 Dec 19 07:56 4484 Dec 22 02:35 4484 Dec 24 02:01 4484 Dec 24 18:48 4484 Dec 24 17:34	6°ට07'08 12°ට37'44 10°ට25'57 7°ට30'53 4°ට56'50 4°ට00'04 4°ට04'16	0.67850 AU 0°53'52
retrograde evening set asc. node inferior conj minimum elong min. Earth dist.	4483 Dec 03 20:26 4483 Dec 21 09:59 4483 Dec 31 09:10 4484 Jan 05 02:40 4484 Jan 05 05:33 4484 Jan 10 11:31 4484 Jan 10 09:28	0°ට 22°ට28'10 28°ට23'10 26°ට27'12 26°ට21'08 20°ට04'23 20°ට11'30	1°41'56 1°41'12	retrograde evening set asc. node min. Earth dist. inferior conj	4484 Dec 02 23:40 4484 Dec 14 01:25 4484 Dec 19 07:56 4484 Dec 22 02:35 4484 Dec 24 02:01 4484 Dec 24 18:48 4484 Dec 24 17:34 4484 Dec 27 22:37	6°307'08 12°337'44 10°325'57 7°330'53 4°356'50 4°300'04 4°304'16 30°8メ	0.67850 AU 0°53'52
retrograde evening set asc. node inferior conj minimum elong	4483 Dec 03 20:26 4483 Dec 21 09:59 4483 Dec 31 09:10 4484 Jan 05 02:40 4484 Jan 05 05:33 4484 Jan 10 11:31 4484 Jan 10 09:28 4484 Jan 10 05:38	0° ප් 22° ප්28'10 28° ප්23'10 26° ප්27'12 26° ප්21'08 20° ප්04'23 20° ප්011'30 20° ප්24'45 13° ප්55'34	1°41'56 1°41'12	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	4484 Dec 02 23:40 4484 Dec 14 01:25 4484 Dec 19 07:56 4484 Dec 22 02:35 4484 Dec 24 02:01 4484 Dec 24 18:48 4484 Dec 24 17:34 4484 Dec 27 22:37 4484 Dec 30 03:14	6°♂07'08 12°♂37'44 10°♂25'57 7°♂30'53 4°♂56'50 4°♂00'04 4°♂04'16 30°₹₹ 27°₹56'27	0.67850 AU 0°53'52
retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct	4483 Dec 03 20:26 4483 Dec 21 09:59 4483 Dec 31 09:10 4484 Jan 05 02:40 4484 Jan 05 05:33 4484 Jan 10 11:31 4484 Jan 10 05:38 4484 Jan 10 05:38 4484 Jan 15 16:09 4484 Jan 20 04:24	0° පි 22° පි28'10 28° පි23'10 26° පි27'12 26° පි21'08 20° පි04'23 20° පි11'30 20° පි24'45	1°41'56 1°41'12	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	4484 Dec 02 23:40 4484 Dec 14 01:25 4484 Dec 19 07:56 4484 Dec 22 02:35 4484 Dec 24 02:01 4484 Dec 24 18:48 4484 Dec 24 17:34 4484 Dec 27 22:37 4484 Dec 30 03:14 4485 Jan 03 01:43 4485 Jan 09 22:50	6°307'08 12°337'44 10°325'57 7°330'53 4°356'50 4°300'04 4°304'16 30°8メ 27°メ56'27 26°メ28'26 0°3	0.67850 AU 0°53'52 0°53'22
retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise	4483 Dec 03 20:26 4483 Dec 21 09:59 4483 Dec 31 09:10 4484 Jan 05 02:40 4484 Jan 05 05:33 4484 Jan 10 11:31 4484 Jan 10 05:38 4484 Jan 10 05:38 4484 Jan 15 16:09 4484 Jan 20 04:24 4484 Jan 29 04:24	0°පි 22°පි28'10 28°පි23'10 26°පි27'12 26°පි21'08 20°පි04'23 20°පි11'30 20°පි24'45 13°පි55'34 12°පි04'57	1°41'56 1°41'12 0.68060 AU	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	4484 Dec 02 23:40 4484 Dec 14 01:25 4484 Dec 19 07:56 4484 Dec 22 02:35 4484 Dec 24 02:01 4484 Dec 24 18:48 4484 Dec 24 17:34 4484 Dec 27 22:37 4484 Dec 30 03:14 4485 Jan 03 01:43 4485 Jan 09 22:50 4485 Jan 11 00:21	6°307'08 12°337'44 10°325'57 7°330'53 4°356'50 4°300'04 4°304'16 30°8メ 27°メ56'27 26°メ28'26 0°3 1°301'06	0.67850 AU 0°53'52 0°53'22
retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	4483 Dec 03 20:26 4483 Dec 21 09:59 4483 Dec 31 09:10 4484 Jan 05 02:40 4484 Jan 05 05:33 4484 Jan 10 11:31 4484 Jan 10 09:28 4484 Jan 10 05:38 4484 Jan 15 16:09 4484 Jan 20 04:24 4484 Jan 29 04:24 4484 Feb 08 13:07	0°る 22°る28'10 28°る23'10 26°る27'12 26°る21'08 20°る04'23 20°る11'30 20°る24'45 13°る55'34 12°る04'57 17°る20'23 0°≈	1°41'56 1°41'12 0.68060 AU	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	4484 Dec 02 23:40 4484 Dec 14 01:25 4484 Dec 19 07:56 4484 Dec 22 02:35 4484 Dec 24 02:01 4484 Dec 24 18:48 4484 Dec 24 17:34 4484 Dec 27 22:37 4484 Dec 30 03:14 4485 Jan 03 01:43 4485 Jan 09 22:50 4485 Jan 11 00:21 4485 Jan 27 20:22	6°307'08 12°337'44 10°325'57 7°330'53 4°356'50 4°300'04 4°304'16 30°8* 27°\$56'27 26°\$28'26 0°3 1°301'06 23°321'33	0.67850 AU 0°53'52 0°53'22
retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct	4483 Dec 03 20:26 4483 Dec 21 09:59 4483 Dec 31 09:10 4484 Jan 05 02:40 4484 Jan 05 05:33 4484 Jan 10 11:31 4484 Jan 10 09:28 4484 Jan 10 05:38 4484 Jan 15 16:09 4484 Jan 20 04:24 4484 Jan 29 04:24 4484 Feb 08 13:07 4484 Feb 10 23:21	0°る 22°る28'10 28°る23'10 26°る27'12 26°る21'08 20°る04'23 20°る11'30 20°る24'45 13°る55'34 12°る04'57 17°る20'23 0°≈ 3°≈21'46	1°41'56 1°41'12 0.68060 AU	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	4484 Dec 02 23:40 4484 Dec 14 01:25 4484 Dec 19 07:56 4484 Dec 22 02:35 4484 Dec 24 02:01 4484 Dec 24 18:48 4484 Dec 24 17:34 4484 Dec 27 22:37 4484 Dec 30 03:14 4485 Jan 03 01:43 4485 Jan 09 22:50 4485 Jan 11 00:21 4485 Jan 27 20:22 4485 Feb 01 06:52	6°♂07'08 12°♂37'44 10°♂25'57 7°♂30'53 4°♂56'50 4°♂00'04 4°♂04'16 30°₹¾ 27°¾56'27 26°¾28'26 0°♂ 1°♂01'06 23°♂21'33 0°≈	0.67850 AU 0°53'52 0°53'22
retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el  desc. node	4483 Dec 03 20:26 4483 Dec 21 09:59 4483 Dec 31 09:10 4484 Jan 05 02:40 4484 Jan 05 05:33 4484 Jan 10 11:31 4484 Jan 10 09:28 4484 Jan 10 05:38 4484 Jan 15 16:09 4484 Jan 20 04:24 4484 Feb 08 13:07 4484 Feb 10 23:21 4484 Feb 28 18:00	0°る 22°る28'10 28°る23'10 26°る27'12 26°る21'08 20°る04'23 20°る11'30 20°る24'45 13°る55'34 12°る04'57 17°る20'23 0°≈ 3°≈21'46 0° ★	1°41'56 1°41'12 0.68060 AU	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	4484 Dec 02 23:40 4484 Dec 14 01:25 4484 Dec 19 07:56 4484 Dec 22 02:35 4484 Dec 24 02:01 4484 Dec 24 18:48 4484 Dec 24 17:34 4484 Dec 27 22:37 4484 Dec 30 03:14 4485 Jan 03 01:43 4485 Jan 09 22:50 4485 Jan 11 00:21 4485 Jan 27 20:22 4485 Feb 01 06:52 4485 Feb 08 13:15	6°307'08 12°337'44 10°325'57 7°330'53 4°356'50 4°300'04 4°304'16 30°8* 27°*56'27 26°*728'26 0°3 1°301'06 23°321'33 0°≈ 11°≈07'18	0.67850 AU 0°53'52 0°53'22 20°28'37
retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	4483 Dec 03 20:26 4483 Dec 21 09:59 4483 Dec 31 09:10 4484 Jan 05 02:40 4484 Jan 05 05:33 4484 Jan 10 11:31 4484 Jan 10 09:28 4484 Jan 10 05:38 4484 Jan 15 16:09 4484 Jan 20 04:24 4484 Feb 08 13:07 4484 Feb 10 23:21 4484 Feb 28 18:00 4484 Mar 01 12:24	0°る 22°る28'10 28°る23'10 26°る27'12 26°る21'08 20°る04'23 20°る11'30 20°る24'45 13°る55'34 12°る04'57 17°る20'23 0°≈ 3°≈21'46 0°升 2°升48'23	1°41'56 1°41'12 0.68060 AU 21°45'58	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	4484 Dec 02 23:40 4484 Dec 14 01:25 4484 Dec 19 07:56 4484 Dec 22 02:35 4484 Dec 24 02:01 4484 Dec 24 18:48 4484 Dec 24 17:34 4484 Dec 27 22:37 4484 Dec 30 03:14 4485 Jan 03 01:43 4485 Jan 09 22:50 4485 Jan 11 00:21 4485 Jan 27 20:22 4485 Feb 01 06:52 4485 Feb 08 13:15 4485 Feb 17 23:09	6°307'08 12°337'44 10°325'57 7°330'53 4°356'50 4°300'04 4°304'16 30°8* 27°*56'27 26°*728'26 0°3 1°301'06 23°321'33 0°≈ 11°≈07'18 25°≈59'00	0.67850 AU 0°53'52 0°53'22
retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el  desc. node	4483 Dec 03 20:26 4483 Dec 21 09:59 4483 Dec 31 09:10 4484 Jan 05 02:40 4484 Jan 05 05:33 4484 Jan 10 11:31 4484 Jan 10 09:28 4484 Jan 10 05:38 4484 Jan 15 16:09 4484 Jan 20 04:24 4484 Feb 08 13:07 4484 Feb 10 23:21 4484 Feb 28 18:00	0°る 22°る28'10 28°る23'10 26°る27'12 26°る21'08 20°る04'23 20°る11'30 20°る24'45 13°る55'34 12°る04'57 17°る20'23 0°≈ 3°≈21'46 0° ★	1°41'56 1°41'12 0.68060 AU	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	4484 Dec 02 23:40 4484 Dec 14 01:25 4484 Dec 19 07:56 4484 Dec 22 02:35 4484 Dec 24 02:01 4484 Dec 24 18:48 4484 Dec 24 17:34 4484 Dec 27 22:37 4484 Dec 30 03:14 4485 Jan 03 01:43 4485 Jan 09 22:50 4485 Jan 11 00:21 4485 Jan 27 20:22 4485 Feb 01 06:52 4485 Feb 08 13:15	6°307'08 12°337'44 10°325'57 7°330'53 4°356'50 4°300'04 4°304'16 30°8* 27°*56'27 26°*728'26 0°3 1°301'06 23°321'33 0°≈ 11°≈07'18	0.67850 AU 0°53'52 0°53'22 20°28'37
retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	4483 Dec 03 20:26 4483 Dec 21 09:59 4483 Dec 31 09:10 4484 Jan 05 02:40 4484 Jan 05 05:33 4484 Jan 10 11:31 4484 Jan 10 05:38 4484 Jan 10 05:38 4484 Jan 15 16:09 4484 Jan 20 04:24 4484 Jan 29 04:24 4484 Feb 08 13:07 4484 Feb 10 23:21 4484 Feb 28 18:00 4484 Mar 01 12:24 4484 Mar 07 16:34	0°る 22°る28'10 28°る23'10 26°る27'12 26°る21'08 20°る04'23 20°る11'30 20°る24'45 13°る55'34 12°る04'57 17°る20'23 0°≈ 3°≈21'46 0°米 2°升48'23 12°升51'51	1°41'56 1°41'12 0.68060 AU 21°45'58	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	4484 Dec 02 23:40 4484 Dec 14 01:25 4484 Dec 19 07:56 4484 Dec 22 02:35 4484 Dec 24 02:01 4484 Dec 24 18:48 4484 Dec 24 17:34 4484 Dec 27 22:37 4484 Dec 30 03:14 4485 Jan 03 01:43 4485 Jan 09 22:50 4485 Jan 11 00:21 4485 Feb 01 06:52 4485 Feb 08 13:15 4485 Feb 17 23:09 4485 Feb 20 10:38	6°307'08 12°337'44 10°325'57 7°330'53 4°356'50 4°300'04 4°304'16 30°8* 27°*56'27 26°*728'26 0°3 1°301'06 23°321'33 0°\$ 11°\$07'18 25°\$59'00 0°)	0.67850 AU 0°53'52 0°53'22 20°28'37
retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	4483 Dec 03 20:26 4483 Dec 21 09:59 4483 Dec 31 09:10 4484 Jan 05 02:40 4484 Jan 05 05:33 4484 Jan 10 11:31 4484 Jan 10 05:38 4484 Jan 10 05:38 4484 Jan 15 16:09 4484 Jan 20 04:24 4484 Jan 29 04:24 4484 Feb 08 13:07 4484 Feb 10 23:21 4484 Feb 10 23:21 4484 Feb 28 18:00 4484 Mar 01 12:24 4484 Mar 07 16:34	0°る 22°る28'10 28°る23'10 26°る27'12 26°る21'08 20°る04'23 20°る11'30 20°る24'45 13°る55'34 12°る04'57 17°る20'23 0°≈ 3°≈21'46 0°米 2°升48'23 12°升51'51	1°41'56 1°41'12 0.68060 AU 21°45'58 1.41592 AU -2°03'32	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	4484 Dec 02 23:40 4484 Dec 14 01:25 4484 Dec 19 07:56 4484 Dec 22 02:35 4484 Dec 24 02:01 4484 Dec 24 18:48 4484 Dec 24 17:34 4484 Dec 27 22:37 4484 Dec 30 03:14 4485 Jan 03 01:43 4485 Jan 09 22:50 4485 Jan 11 00:21 4485 Feb 01 06:52 4485 Feb 01 06:52 4485 Feb 08 13:15 4485 Feb 17 23:09 4485 Feb 20 10:38	6°307'08 12°337'44 10°325'57 7°330'53 4°356'50 4°300'04 4°304'16 30°8* 27°*56'27 26°*728'26 0°3 1°301'06 23°321'33 0°≈ 11°≈07'18 25°≈59'00 0°)	0.67850 AU 0°53'52 0°53'22 20°28'37 1.43406 AU -2°07'45
retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	4483 Dec 03 20:26 4483 Dec 21 09:59 4483 Dec 31 09:10 4484 Jan 05 02:40 4484 Jan 05 05:33 4484 Jan 10 11:31 4484 Jan 10 05:38 4484 Jan 10 05:38 4484 Jan 15 16:09 4484 Jan 20 04:24 4484 Jan 29 04:24 4484 Feb 08 13:07 4484 Feb 10 23:21 4484 Feb 28 18:00 4484 Mar 01 12:24 4484 Mar 07 16:34  4484 Mar 15 08:08 4484 Mar 15 11:25	0°云 22°云28'10 28°云23'10 26°云27'12 26°云21'08 20°云04'23 20°云11'30 20°云24'45 13°云55'34 12°云04'57 17°云20'23 0°≈ 3°≈21'46 0°景 2°景48'23 12°景51'51 25°景55'14 26°景09'38	1°41'56 1°41'12 0.68060 AU 21°45'58 1.41592 AU -2°03'32	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	4484 Dec 02 23:40 4484 Dec 14 01:25 4484 Dec 19 07:56 4484 Dec 22 02:35 4484 Dec 24 02:01 4484 Dec 24 18:48 4484 Dec 24 17:34 4484 Dec 27 22:37 4484 Dec 30 03:14 4485 Jan 03 01:43 4485 Jan 09 22:50 4485 Jan 11 00:21 4485 Feb 01 06:52 4485 Feb 01 06:52 4485 Feb 01 06:52 4485 Feb 01 10:38 4485 Feb 24 07:10 4485 Feb 24 07:10 4485 Feb 24 05:48	6°307'08 12°337'44 10°325'57 7°330'53 4°356'50 4°300'04 4°304'16 30°8* 27°*56'27 26°*728'26 0°3 1°301'06 23°321'33 0°≈ 11°≈07'18 25°≈59'00 0°) 6° + 20'58 6° + 20'58 6° + 15'16	0.67850 AU 0°53'52 0°53'22 20°28'37 1.43406 AU -2°07'45
retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	4483 Dec 03 20:26 4483 Dec 21 09:59 4483 Dec 31 09:10 4484 Jan 05 02:40 4484 Jan 05 05:33 4484 Jan 10 11:31 4484 Jan 10 05:38 4484 Jan 10 05:38 4484 Jan 15 16:09 4484 Jan 20 04:24 4484 Jan 29 04:24 4484 Feb 08 13:07 4484 Feb 10 23:21 4484 Feb 10 23:21 4484 Feb 28 18:00 4484 Mar 01 12:24 4484 Mar 07 16:34	0°る 22°る28'10 28°る23'10 26°る27'12 26°る21'08 20°る04'23 20°る11'30 20°る24'45 13°る55'34 12°る04'57 17°る20'23 0°≈ 3°≈21'46 0°米 2°升48'23 12°升51'51	1°41'56 1°41'12 0.68060 AU 21°45'58 1.41592 AU -2°03'32	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	4484 Dec 02 23:40 4484 Dec 14 01:25 4484 Dec 19 07:56 4484 Dec 22 02:35 4484 Dec 24 02:01 4484 Dec 24 18:48 4484 Dec 24 17:34 4484 Dec 27 22:37 4484 Dec 30 03:14 4485 Jan 03 01:43 4485 Jan 09 22:50 4485 Jan 11 00:21 4485 Feb 01 06:52 4485 Feb 01 06:52 4485 Feb 08 13:15 4485 Feb 17 23:09 4485 Feb 20 10:38	6°307'08 12°337'44 10°325'57 7°330'53 4°356'50 4°300'04 4°304'16 30°8* 27°*56'27 26°*728'26 0°3 1°301'06 23°321'33 0°≈ 11°≈07'18 25°≈59'00 0°)	0.67850 AU 0°53'52 0°53'22 20°28'37 1.43406 AU -2°07'45

asc. node	4485 Mar 20 01:52	16° <b>Ƴ</b> 53'54		minimum elong	4486 Feb 03 21:26	15° <b>≈</b> 10'50	1°53'22
evening max el	4485 Mar 25 22:50	24°Υ28'46	18°07'21	minimum ciong	4486 Feb 13 01:08	0° <b>₩</b>	1 33 22
retrograde	4485 Apr 01 10:30	27° <b>Υ</b> 51'12	10 07 21	evening rise	4486 Feb 18 08:56	8° <b>¥</b> 49'26	
evening set	4485 Apr 04 05:01	27° <b>Υ</b> 13'23		evening rise	4486 Mar 03 08:50	0°Υ	
inferior conj	4485 Apr 10 13:00	22° <b>Υ</b> 05'59	3°22'42	asc. node	4486 Mar 06 22:56	4° <b>Υ</b> 58'11	
minimum elong	4485 Apr 10 14:54	22° <b>Υ</b> 01'06	3°22'29	evening max el	4486 Mar 09 11:33	7°Υ50'54	18°21'45
min. Earth dist.	4485 Apr 13 11:48	19° <b>Υ</b> 05'00	0.62084 AU	retrograde	4486 Mar 15 22:30	11° <b>Y</b> 20'12	10 21 13
morning rise	4485 Apr 16 23:12	16° <b>Y</b> ′04'35	0.02001110	evening set	4486 Mar 18 23:05	10° <b>Υ</b> 30'23	
direct	4485 Apr 23 19:16	13° <b>Ƴ</b> 36'11		inferior conj	4486 Mar 24 20:47	5° <b>Υ</b> '04'22	3°34'54
desc. node	4485 Apr 25 19:36	13° <b>Ƴ</b> 48'07		minimum elong	4486 Mar 24 20:59		3°34'54
morning max el	4485 May 07 22:20		27°52'23	min. Earth dist.	4486 Mar 27 05:00	2° <b>Y</b> 23'37	0.64055 AU
5 5	4485 May 15 06:15	0°8			4486 Mar 29 12:24	30°R <b>)</b> €	
	4485 Jun 03 10:14	0°II		morning rise	4486 Mar 30 18:03	28° <b>) (</b> 54'44	
morning set	4485 Jun 10 12:28	13° <b>Ⅱ</b> 44'19		direct	4486 Apr 06 14:00	26° <b>)</b> €08'19	
max. Earth dist.	4485 Jun 16 04:13	25° <b>Ⅱ</b> 37'54	1.32359 AU	desc. node	4486 Apr 12 16:38	27° <b>)</b> 58'43	
asc. node	4485 Jun 16 01:07	25° <b>Ⅱ</b> 21'14			4486 Apr 15 17:02	$_0$ ° $\gamma$	
				morning max el	4486 Apr 20 07:09	4° <b>Υ</b> 05'45	27°33'36
superior conj	4485 Jun 18 00:07	29° <b>Ⅱ</b> 36′07	0°20'23	, and the second	4486 May 09 18:59	0°8	
minimum elong	4485 Jun 17 23:11	29° <b>Ⅱ</b> 31'01	0°20'10	morning set	4486 May 25 07:06	27° <b>8</b> 37'09	
	4485 Jun 18 04:30	0 ಲ			4486 May 26 11:49	0°II	
evening rise	4485 Jun 24 21:27	14°934'27		max. Earth dist.	4486 May 30 05:39		1.33158 AU
8 21	4485 Jul 02 14:08	$0^{\circ}\Omega$			., .,		
evening max el	4485 Jul 19 19:27	24° <b>Ω</b> 32'12	24°18'20	superior conj	4486 Jun 02 06:10	14° <b>Ⅱ</b> 03'00	-0°06'58
desc. node	4485 Jul 22 18:52	27°Ω08'03		minimum elong	4486 Jun 02 06:31	14° <b>Ⅱ</b> 04'53	
	4485 Jul 27 08:01	0° m		behind sun begin	4486 Jun 02 01:37	13° <b>Ⅱ</b> 38'43	
retrograde	4485 Aug 02 15:30	1° m) 30'47		behind sun end	4486 Jun 02 11:25	14° <b>∏</b> 31′03	
evening set	4485 Aug 07 11:22	0° m 38'52		asc. node	4486 Jun 02 22:11	15° <b>Ⅱ</b> 28'43	
8	4485 Aug 09 02:16	30°R <b>Ω</b>		evening rise	4486 Jun 09 09:03	29° <b>Ⅱ</b> 18'55	
min. Earth dist.	4485 Aug 13 06:17		0.56566 AU	<i>y</i>	4486 Jun 09 16:50	0∘ <b>ௐ</b>	
inferior conj	4485 Aug 15 20:37	26° <b>Ω</b> 06'32			4486 Jun 26 23:15	$0^{\circ}\Omega$	
minimum elong	4485 Aug 15 18:16	26° <b>Ω</b> 10'14		evening max el	4486 Jul 01 08:56	4°Ω55'05	22°41'06
morning rise	4485 Aug 24 03:45	22° <b>Ω</b> 05'27		desc. node	4486 Jul 09 15:54	10° <b>Ω</b> 33'57	
direct	4485 Aug 26 20:15	21° <b>Ω</b> 46'14		retrograde	4486 Jul 14 13:54	11° <b>Ω</b> 29'25	
morning max el	4485 Sep 05 12:12	26° <b>Ω</b> 16'41	19°38'24	evening set	4486 Jul 17 21:14	11° <b>Ω</b> 05'27	
	4485 Sep 08 21:54	0° m)		min. Earth dist.	4486 Jul 25 16:55	7° <b>Ω</b> 39'11	0.55267 AU
asc. node	4485 Sep 12 00:22	4° m) 16'31		inferior conj	4486 Jul 27 00:18	6° <b>Ω</b> 54'20	
morning set	4485 Sep 23 01:30	24° m 22'50		minimum elong	4486 Jul 26 16:29	7° <b>Ω</b> 05'31	4°26'21
8	4485 Sep 25 20:11	0∘ <del>⊽</del>		morning rise	4486 Aug 04 13:50	3° <b>Ω</b> 03'43	
				direct	4486 Aug 07 14:22	2°Ω42'36	
superior conj	4485 Sep 30 23:36	10° <b>≏</b> 19'05	1°40'33	morning max el	4486 Aug 18 20:37	7° <b>Ω</b> 56'59	20°56'52
minimum elong	4485 Oct 01 01:08	10° <b>≏</b> 26'40	1°40'28	asc. node	4486 Aug 29 21:25	22° <b>Ω</b> 45'38	
max. Earth dist.	4485 Oct 07 00:55	21° <b>£</b> 56'15	1.37556 AU		4486 Sep 02 20:18	0° m)	
evening rise	4485 Oct 10 19:07	28° <b>≏</b> 46'33		morning set	4486 Sep 07 09:02	9° m 05'12	
8 21	4485 Oct 11 11:41	0° <b>M</b> ,		. <i>8</i>		4	
desc. node	4485 Oct 18 18:09	12° <b>M</b> .18'57		superior conj	4486 Sep 14 19:05	24° mp31'10	1°43'58
	4485 Oct 30 09:24	0° <b>∡</b> 7		minimum elong	4486 Sep 14 19:03	24° m 31'01	1°43'58
evening max el	4485 Nov 15 12:06	19° <b>х</b> 49'25	25°20'14		4486 Sep 17 11:45	0∘ <b>⊽</b>	
retrograde	4485 Nov 27 13:27	26° <b>х</b> 46′39		max. Earth dist.	4486 Sep 19 09:39		1.35670 AU
evening set	4485 Dec 03 09:34	24° <b>҂</b> 20'46		evening rise	4486 Sep 23 12:00	11° <b>≏</b> 40'38	
min. Earth dist.	4485 Dec 07 20:01	19° <b>∡</b> ¹25'57	0.67288 AU	· ·	4486 Oct 03 23:21	0°M	
inferior conj	4485 Dec 08 23:40	17° <b>∡</b> 756′25	0°00'03	desc. node	4486 Oct 05 15:11	2°M40'30	
minimum elong	4485 Dec 08 23:40	17° <b>∡</b> 756'26	0°00'03		4486 Oct 25 15:00	0° <b>∡</b> ¹	
transit middle	4485 Dec 08 23:40	17° <b>∡</b> 756'26	0°00'03	evening max el	4486 Oct 29 00:44	3° <b>∡</b> ³31′26	26°24'01
transit begin	4485 Dec 08 20:53	18° <b>∡</b> 05'29		retrograde	4486 Nov 10 20:19	10° <b>∡</b> ¹43'44	
transit end	4485 Dec 09 02:28	17° <b>∡</b> 747′24		evening set	4486 Nov 17 05:41	8° <b>√</b> 07'24	
asc. node	4485 Dec 08 23:37	17° <b>∡</b> 756'37		min. Earth dist.	4486 Nov 21 09:17	3° <b>∡</b> ¹47'52	0.66384 AU
morning rise	4485 Dec 14 14:04	12° <b>₹</b> 00'04		inferior conj	4486 Nov 23 00:12	1° <b>∡</b> ¹49'37	-0°58'25
direct	4485 Dec 18 00:23	10° <b>≯</b> 52'15		minimum elong	4486 Nov 23 01:48	1° <b>√</b> 44'45	
morning max el	4485 Dec 25 04:12	14° <b>≯</b> 52'46	19°24'45	<i>U</i>	4486 Nov 24 13:00	30°RM	
<b>5</b>	4486 Jan 05 17:10	0°₹		asc. node	4486 Nov 25 20:41	28°M33'16	
greatest brilliancy	4486 Jan 07 09:34	2° <b>ප</b> 30'27	-0.7m	morning rise	4486 Nov 28 22:31	26°M03'06	
desc. node	4486 Jan 14 17:24	13° <b>る</b> 40'03	<del></del>	direct	4486 Dec 01 22:41	25°M11'57	
morning set	4486 Jan 18 11:32	19° <b>る</b> 27'50		morning max el	4486 Dec 08 14:50	28°M51'09	18°36'29
	4486 Jan 25 06:16	0°≈			4486 Dec 09 16:59	0° <b>√</b>	
max. Earth dist.	4486 Jan 31 12:24	9° <b>≈</b> 49'16	1.44676 AU	morning set	4486 Dec 29 06:47	28° <b>х</b> 56'07	
		., -0		5	4486 Dec 29 22:54	0°궁	
superior conj	4486 Feb 04 04:50	15° <b>≈</b> 40′23	-1°53'52	desc. node	4487 Jan 01 14:25	<sup>0</sup> <b>ਰ</b> 11'27	
					01 11.20	. 0.1.2/	

superior conj	4487 Jan 14 09:14	24°る18'07	-1°20'41	minimum elong	4487 Dec 24 11:09	2° <b>ප</b> 50'41	0°34'31
minimum elong	4487 Jan 14 00:10	23° <b>る</b> 42'36		max. Earth dist.	4487 Dec 28 01:57	8° <b>ප</b> 33'45	1.45110 AU
max. Earth dist.	4487 Jan 14 06:16	24° <b>පි</b> 06'31	1.45264 AU	evening rise	4488 Jan 09 23:08	28°る38'04	
	4487 Jan 18 00:21	0° <b>≈</b>		<b>&amp;</b>	4488 Jan 10 20:20	0° <b>≈</b>	
evening rise	4487 Jan 30 02:28	19° <b>≈</b> 07'11		greatest brilliancy	4488 Jan 23 06:37	19° <b>≈</b> 00'00	-0.7m
Č	4487 Feb 05 22:12	0° <b>)</b> €			4488 Jan 31 01:15	0° <b>)</b> €	
greatest brilliancy	4487 Feb 07 13:33	2° <b>∺</b> 35'56	-0.8m	evening max el	4488 Feb 04 04:38	4° <b>₩</b> 51'32	19°42'55
evening max el	4487 Feb 20 22:09	21° <b>∺</b> 19'48	18°54'07	asc. node	4488 Feb 08 17:01	8° <b>)</b> 24′03	
asc. node	4487 Feb 21 19:59	22° <b>)</b> 12'46		retrograde	4488 Feb 11 14:09	9° <b>₩</b> 08'19	
retrograde	4487 Feb 27 16:44	25° <b>)</b> €07'45		evening set	4488 Feb 15 04:57	7° <b>)</b> 51'44	
evening set	4487 Mar 02 23:54	24° <b>)</b> €05'01		inferior conj	4488 Feb 20 15:28	1° <b>)</b> 53′37	3°11'59
inferior conj	4487 Mar 08 14:39	18° <b>∺</b> 21'56	3°30'00	minimum elong	4488 Feb 20 13:24	2° <b>ℋ</b> 00′28	3°11'37
minimum elong	4487 Mar 08 13:28	18° <b>∺</b> 25'37	3°29'53	min. Earth dist.	4488 Feb 21 17:15	0° <b>₩</b> 28'13	0.66863 AU
min. Earth dist.	4487 Mar 10 07:12	16° <b>∺</b> 15′29	0.65669 AU		4488 Feb 22 01:52	30° <b>₹</b> ≈	
morning rise	4487 Mar 14 02:38	12° <b>)</b> €08'45		morning rise	4488 Feb 25 21:38	25° <b>≈</b> 39'27	
direct	4487 Mar 20 15:35	9° <b>)</b> 18′26		direct	4488 Mar 02 22:54	22° <b>≈</b> 57'27	
desc. node	4487 Mar 30 13:40	14° <b>∺</b> 05'17			4488 Mar 14 21:30	0° <b>ℋ</b>	
morning max el	4487 Apr 02 17:02	17° <b>)</b> €01'26	26°43'23	morning max el	4488 Mar 15 02:17	0° <b>₩</b> 12'03	25°30'13
	4487 Apr 13 12:22	$0$ ° $\mathbf{\Upsilon}$		desc. node	4488 Mar 16 10:42	1° <b>)</b> 36′22	
	4487 May 02 16:14	$0^{\circ}B$			4488 Apr 06 10:34	$0$ ° $\mathbf{\Upsilon}$	
morning set	4487 May 08 14:54	10° <b>8</b> 54'20		morning set	4488 Apr 20 07:28	23° <b>Y</b> 23'23	
max. Earth dist.	4487 May 12 20:45	19° <b>8</b> 10'29	1.34421 AU		4488 Apr 23 21:10	$_{0\circ}$ 8	
				max. Earth dist.	4488 Apr 24 00:49	0° <b>8</b> 17'15	1.36134 AU
superior conj	4487 May 17 06:19	28° <b>8</b> 07'50					
minimum elong	4487 May 17 08:14	28° <b>8</b> 17'48	0°35'38	superior conj	4488 Apr 29 21:49	11° <b>8</b> 42'45	
	4487 May 18 03:53	$\Pi^{\circ}0$		minimum elong	4488 Apr 30 01:21	12° <b>8</b> 00'27	1°04'45
asc. node	4487 May 20 19:16	5° <b>Ⅱ</b> 32'13		asc. node	4488 May 06 16:18	25° <b>8</b> 27'24	
evening rise	4487 May 24 18:43	13° <b>Ⅱ</b> 53'04		evening rise	4488 May 08 00:16	28° <b>8</b> 10'08	
	4487 Jun 02 01:02	0ංම			4488 May 08 21:59	$\Pi^{\circ}0$	
evening max el	4487 Jun 13 05:43	15° <b>©</b> 33'15	21°09'50	evening max el	4488 May 25 14:20	26° <b>∏</b> 47'58	19°54'20
retrograde	4487 Jun 25 02:59	21°523'45			4488 May 29 16:24	0°©	
desc. node	4487 Jun 26 12:54	21°519'03		retrograde	4488 Jun 04 18:35	1°5945'59	
evening set	4487 Jun 27 09:12	21°511'52		evening set	4488 Jun 06 17:05	1°535'58	
inferior conj	4487 Jul 06 17:53	17°513'50			4488 Jun 11 09:07	30°RⅡ	
minimum elong	4487 Jul 06 10:06	17°524'45		desc. node	4488 Jun 12 09:56	29° <b>Ⅱ</b> 28'08	0055140
min. Earth dist.	4487 Jul 07 03:48	16°959'53	0.54812 AU	inferior conj	4488 Jun 15 15:35	27° <b>II</b> 35'06	
morning rise	4487 Jul 15 11:21	13°5516'18		minimum elong	4488 Jun 15 12:55	27° <b>I</b> 39'11	0°56'48
direct	4487 Jul 18 23:50	12°549'34	22022140	min. Earth dist.	4488 Jun 17 16:21	26° <b>Ⅲ</b> 21'01 23° <b>Ⅲ</b> 11'15	0.55323 AU
morning max el	4487 Jul 31 17:52	18°953'22	22°32′48	morning rise	4488 Jun 24 06:49	23° <b>I</b> 11'13 22° <b>I</b> 31'17	
asc. node	4487 Aug 09 19:46	0° <b>Ω</b> 11° <b>Ω</b> 49'07		direct	4488 Jun 28 13:19 4488 Jul 12 08:33	29° <b>II</b> 20'34	24016'20
morning set	4487 Aug 16 18:29	23° <b>Ω</b> 56'27		morning max el	4488 Jul 13 00:55	29 <b>11</b> 2034 0° <b>9</b>	24 10 29
morning set	4487 Aug 22 19:36 4487 Aug 25 16:07	0°m)			4488 Aug 01 23:57	0° <b>U</b>	
	446/ Aug 23 10.0/	V III		asc. node	4488 Aug 02 15:31	1° <b>Ω</b> 17'25	
superior conj	4487 Aug 29 22:17	9° <b>m</b> 05'55	1°40'25	morning set	4488 Aug 06 07:19	8° <b>Ω</b> 50'10	
minimum elong	4487 Aug 29 21:02	8° <b>m</b> <sub>2</sub> 59'15	1°40'21	morning set	4400 Mug 00 07.17	0 000010	
max. Earth dist.	4487 Sep 02 02:53	15° Mp 47'56	1.34128 AU	superior conj	4488 Aug 13 06:24	23° <b>Ω</b> 53'52	1°30'59
evening rise	4487 Sep 06 19:53	25° m) 17'23	1.5 1120 110	minimum elong	4488 Aug 13 04:23	23° <b>Ω</b> 42'51	1°30'45
	4487 Sep 09 06:37	0° <b>ي</b>		max. Earth dist.	4488 Aug 15 04:45	28° <b>Ω</b> 04'18	1.32995 AU
desc. node	4487 Sep 22 12:13	22° <b>≏</b> 42'46			4488 Aug 16 02:21	0° m/	
	4487 Sep 27 10:10	0°M		evening rise	4488 Aug 20 14:43	9° <b>m</b> ) 24'40	
evening max el	4487 Oct 11 13:29	17°ML05'00	27°08'26	Č	4488 Aug 31 15:31	0∘ <u>⊽</u>	
retrograde	4487 Oct 24 21:23	24°M22'23		desc. node	4488 Sep 08 09:14	12° <b>£</b> 16′27	
evening set	4487 Oct 31 18:06	21°M41'38			4488 Sep 22 17:45	0° <b>M</b> .	
min. Earth dist.	4487 Nov 04 15:22	17°ML57'37	0.65136 AU	evening max el	4488 Sep 23 00:39	0°M16'30	27°26'44
inferior conj	4487 Nov 06 18:14	15°M235'31	-1°59'57	retrograde	4488 Oct 06 16:11	7°ML33'10	
minimum elong	4487 Nov 06 21:38	15°M25'58	1°58'35	evening set	4488 Oct 13 19:53	4°M56'57	
asc. node	4487 Nov 12 17:42	10°ML12'37		min. Earth dist.	4488 Oct 17 12:06	1°M45'52	0.63542 AU
morning rise	4487 Nov 13 02:12	10°ML01'59			4488 Oct 19 06:17	30° <b>₹</b> Ω	
direct	4487 Nov 15 18:29	9°M23'39		inferior conj	4488 Oct 20 03:05	29° <b>≏</b> 07'08	-3°02'08
morning max el	4487 Nov 22 05:58	12°M51'21	18°04'53	minimum elong	4488 Oct 20 08:14	28° <b>≏</b> 54'10	3°00'21
	4487 Dec 04 07:38	0° <b>∡</b> ¹		morning rise	4488 Oct 26 22:00	23° <b>≏</b> 50'02	
morning set	4487 Dec 10 07:43	9° <b>∡</b> 153'54		direct	4488 Oct 29 08:51	23° <b>≏</b> 20'55	
desc. node	4487 Dec 19 11:28	24° <b>∡</b> 751′57		asc. node	4488 Oct 29 14:43	23° <b>≏</b> 21'12	
	4487 Dec 22 16:16	0°₹		morning max el	4488 Nov 04 22:44	26° <b>≙</b> 45'57	17°50'40
					4488 Nov 07 18:17	0° <b>M</b> ₊	
superior conj	4487 Dec 24 15:31	3° <b>⋜</b> 08′02	-0°35'08	morning set	4488 Nov 21 10:45	22°M07'15	

	4488 Nov 26 00:21	0° <b>∡</b> 7		superior conj	4489 Nov 14 23:04	24°M09'16	
superior conj	4488 Dec 03 17:59	12° <b>∡</b> 59'40	0°11'11	minimum elong	4489 Nov 15 02:54 4489 Nov 18 09:07	24°M25'52 0°⊀	0°49'15
minimum elong	4488 Dec 03 17:39 4488 Dec 03 19:10	12 × 39 40 13° × 04'33	0°11'11	desc. node	4489 Nov 22 05:30	6° <b>₹</b> ¹24'45	
behind sun begin	4488 Dec 03 12:04	12° 🗷 35'20	0 11 02	max. Earth dist.	4489 Nov 22 09:39	6°×741'06	1.42746 AU
behind sun end	4488 Dec 04 02:15	13°×733'44		evening rise	4489 Nov 29 00:19	17°×718'53	1.42/40/10
desc. node	4488 Dec 05 08:30	15° <b>×</b> 33'44		evening rise	4489 Dec 07 06:27	0°る	
max. Earth dist.	4488 Dec 09 19:59	22° <b>×</b> <sup>7</sup> 51'25	1.44233 AU		4489 Dec 29 04:57	0° <b>≈</b>	
max. Dartii dist.	4488 Dec 14 08:21	0°る	1.11233 110	evening max el	4489 Dec 31 01:20	1°≈58'16	21°59'32
evening rise	4488 Dec 19 09:07	7° <b>る</b> 48'55		retrograde	4490 Jan 09 09:22	7° <b>≈</b> 31'31	
	4489 Jan 03 03:45	0° <b>≈</b>		asc. node	4490 Jan 12 11:01	6°≈41'11	
evening max el	4489 Jan 17 05:43	18° <b>≈</b> 24'18	20°45'55	evening set	4490 Jan 13 19:53	5° <b>≈</b> 44'49	
retrograde	4489 Jan 25 12:22	23° <b>≈</b> 17'33		C	4490 Jan 18 18:10	30°R₹	
asc. node	4489 Jan 25 14:01	23° <b>≈</b> 17'31		inferior conj	4490 Jan 19 04:10	29° <b>る</b> 25'20	2°06'38
evening set	4489 Jan 29 12:12	21° <b>≈</b> 46′18		minimum elong	4490 Jan 19 01:50	29° <b>る</b> 33'26	2°05'52
inferior conj	4489 Feb 03 20:41	15° <b>≈</b> 35'49	2°43'36	min. Earth dist.	4490 Jan 19 04:45	29° <b>る</b> 23'17	0.68007 AU
minimum elong	4489 Feb 03 18:15	15° <b>≈</b> 44'12	2°42'58	morning rise	4490 Jan 24 07:37	23° <b>る</b> 14'07	
min. Earth dist.	4489 Feb 04 09:11	14° <b>≈</b> 52'54	0.67632 AU	direct	4490 Jan 29 04:06	21° <b>る</b> 10'19	
morning rise	4489 Feb 09 00:07	9° <b>≈</b> 22'21		morning max el	4490 Feb 07 21:13	26° <b>る</b> 54'34	22°34'58
direct	4489 Feb 14 11:20	6° <b>≈</b> 57'09			4490 Feb 10 17:59	0° <b>≈</b>	
morning max el	4489 Feb 25 10:58	13° <b>≈</b> 30′30	24°04'05	desc. node	4490 Feb 18 04:44	9° <b>≈</b> 22'47	
desc. node	4489 Mar 03 07:43	20° <b>≈</b> 08′02			4490 Mar 04 09:59	0° <b>∀</b>	
	4489 Mar 10 19:23	0° <b>∀</b>		morning set	4490 Mar 13 20:10	14° <b>¥</b> 56′30	
	4489 Mar 30 07:16	$0$ ° $\mathbf{\Upsilon}$		max. Earth dist.	4490 Mar 18 16:55	23° <b>)</b> €03'52	1.40379 AU
morning set	4489 Apr 02 03:14	4° <b>Ƴ</b> 49'21			4490 Mar 22 17:14	$0$ ° $\Upsilon$	
max. Earth dist.	4489 Apr 05 21:14	11° <b>Y</b> 24'29	1.38188 AU				
				superior conj	4490 Mar 26 12:03	6° <b>Ƴ</b> 44'36	
superior conj	4489 Apr 13 01:12	24° <b>Ƴ</b> 38'47		minimum elong	4490 Mar 26 16:34	7° <b>Y</b> 05'02	1°54'34
minimum elong	4489 Apr 13 05:55	25° <b>Y</b> 01'17	1°32'08	evening rise	4490 Apr 05 12:08	25° <b>Y</b> 22'16	
	4489 Apr 15 19:56	0°8			4490 Apr 07 23:08	0°8	
evening rise	4489 Apr 21 23:09	12° <b>8</b> 02'56		asc. node	4490 Apr 10 10:21	4° <b>8</b> 33'35	
asc. node	4489 Apr 23 13:20	15° <b>8</b> 09'49		evening max el	4490 Apr 21 15:59	21° <b>8</b> 15'50	18°23'13
	4489 May 01 17:55	0°II		retrograde	4490 Apr 29 01:02	24° <b>8</b> 55'25	
evening max el	4489 May 08 10:44	8° <b>Ⅱ</b> 44'28	18°58'38	evening set	4490 May 01 09:33	24° <b>8</b> 34'04	
retrograde	4489 May 17 00:29	12° <b>Ⅱ</b> 55'59		inferior conj	4490 May 08 17:43	19° <b>8</b> 58'59	2°14'52
evening set	4489 May 19 02:14	12° <b>II</b> 42'16	0050120	minimum elong	4490 May 08 21:19	19° <b>8</b> 51'34	
inferior conj	4489 May 27 05:59	8° <b>Ⅱ</b> 26'50	0°52'38	min. Earth dist.	4490 May 12 04:19	17° <b>8</b> 10'25	0.58657 AU
minimum elong	4489 May 27 08:00	8° <b>Ⅱ</b> 23'16	0°51'55	morning rise	4490 May 16 06:02	14° <b>8</b> 27'20	
desc. node	4489 May 30 06:56	6° <b>Ⅱ</b> 19'21	0.50000 ATT	desc. node	4490 May 17 03:58	14° <b>8</b> 00'17	
min. Earth dist. morning rise	4489 May 30 08:03 4489 Jun 04 10:31	6°Ⅲ17'28 3°Ⅲ26'51	0.56696 AU	direct morning max el	4490 May 22 08:45 4490 Jun 05 18:11	12° <b>8</b> 48'32 20° <b>8</b> 33'35	27006126
direct	4489 Jun 09 15:52	2° <b>Π</b> 22'02		morning max er	4490 Jun 13 21:23	20 <b>Ο</b> 33 33	27 00 30
morning max el	4489 Jun 23 23:08	2 <b>H</b> 22 02 9° <b>H</b> 45'44	25°52'54		4490 Jul 13 21:23 4490 Jul 02 00:47	0°©	
morning max ci	4489 Jul 09 06:58	0°9	23 32 34	morning set	4490 Jul 06 03:50	8°924'28	
asc. node	4489 Jul 20 12:34	21°903'47		asc. node	4490 Jul 07 09:37	11° <b>©</b> 01'53	
morning set	4489 Jul 21 18:37	23°541'28		use. noue	11,50 041 07 05.57	11 00103	
morning sec	4489 Jul 24 17:03	0° <b>Ω</b>		superior conj	4490 Jul 13 05:08	23° <b>©</b> 42'35	0°57'36
				minimum elong	4490 Jul 13 02:59	23° <b>©</b> 30'46	0°57'12
superior conj	4489 Jul 28 17:19	8° <b>Ω</b> 48′20	1°16'29	max. Earth dist.	4490 Jul 13 00:09		1.31986 AU
minimum elong	4489 Jul 28 14:59	8° <b>Ω</b> 35'34	1°16'08		4490 Jul 16 01:37	$0^{\circ}\Omega$	
max. Earth dist.	4489 Jul 29 12:57	10° <b>Ω</b> 36'16	1.32285 AU	evening rise	4490 Jul 20 01:07	8° <b>Ω</b> 35'34	
evening rise	4489 Aug 04 17:20	23° <b>Ω</b> 53'32		-	4490 Jul 31 03:07	0° <b>m</b> y	
	4489 Aug 07 17:17	0° <b>m</b>		desc. node	4490 Aug 13 03:15	19° <b>m</b> 06'24	
	4489 Aug 25 09:58	0∘ <b>ত</b>		evening max el	4490 Aug 18 08:58	24° <b>m</b> 44'48	26°27'12
desc. node	4489 Aug 26 06:14	1° <b>≙</b> 09'45			4490 Aug 25 09:26	0∘ <b>⊽</b>	
evening max el	4489 Sep 05 07:54	12° <b>≏</b> 53′00	27°13'37	retrograde	4490 Sep 01 08:03	1° <b>≙</b> 54'19	
retrograde	4489 Sep 19 04:10	20° <b>ഫ</b> 06'33		evening set	4490 Sep 07 23:54	0° <b>ჲ</b> 03'56	
evening set	4489 Sep 26 07:23	17° <b>≏</b> 46'50			4490 Sep 08 02:48	30°₽,₩)	
min. Earth dist.	4489 Sep 29 22:21	15° <b>≙</b> 00'46	0.61653 AU	min. Earth dist.	4490 Sep 11 22:28		0.59592 AU
inferior conj	4489 Oct 02 23:44	12° <b>≏</b> 16'53	-4°00'44	inferior conj	4490 Sep 15 04:43	24° <b>m</b> 56'07	
minimum elong	4489 Oct 03 05:49	12° <b>ഫ</b> 03'13	3°59'04	minimum elong	4490 Sep 15 09:54	24° <b>m</b> 45'59	4°47'29
morning rise	4489 Oct 10 06:08	7° <b>£</b> 19'27		morning rise	4490 Sep 22 22:02	20° <b>m</b> 20'47	
direct	4489 Oct 12 14:20	6° <b>£</b> 56'19		direct	4490 Sep 25 06:53	20° m 00'47	
asc. node	4489 Oct 16 11:45	8° <b>Ω</b> 02'44		morning max el	4490 Oct 03 00:27	23° m 46'35	18°18'14
morning max el	4489 Oct 19 13:59	10° <b>£</b> 27'13	17°54'40	asc. node	4490 Oct 03 08:48	24° Mp 07'06	
•	4489 Nov 01 11:41	0°M			4490 Oct 08 01:44	0° <b>⊽</b>	
morning set	4489 Nov 04 09:27	5°M16'23		morning set	4490 Oct 18 22:10	19° <b>≏</b> 05'29	

	4490 Oct 24 16:15	0° <b>M</b> .		superior conj	4491 Oct 11 04:12	19° <b>≏</b> 43'23	1°34'51
				minimum elong	4491 Oct 11 06:42	19° <b>≏</b> 55'20	1°34'41
superior conj	4490 Oct 28 04:17	6°M29'01	1°17'36		4491 Oct 16 15:46	$0^{\circ}$ M	
minimum elong	4490 Oct 28 08:06	6°M46'27	1°17'10	max. Earth dist.	4491 Oct 17 22:58	2°M21'17	1.38748 AU
max. Earth dist.	4490 Nov 04 17:51	19°M51'41	1.40838 AU	evening rise	4491 Oct 21 18:45	9°M05'53	
evening rise	4490 Nov 09 09:59	27°M40'56		desc. node	4491 Oct 26 23:34	17°M50'13	
desc. node	4490 Nov 09 02:32	27°M10'23			4491 Nov 03 17:16	0°⊀	
	4490 Nov 10 20:06	0° <b>∡</b>		evening max el	4491 Nov 26 05:57	29° <b>∡</b> 17'06	24°37'49
	4490 Nov 30 21:45	0°ಕ			4491 Nov 26 23:39	0° <b>ろ</b>	
evening max el	4490 Dec 13 16:49	15° <b>る</b> 35'56	23°18'54	retrograde	4491 Dec 07 18:07	5° <b>る</b> 59'37	
retrograde	4490 Dec 24 03:43	21°る47'07		evening set	4491 Dec 13 06:24	3° <b>ප්</b> 41'43	
evening set	4490 Dec 29 02:29	19° <b>る</b> 44'37		•	4491 Dec 16 16:35	30°₹ <b>⋌</b> 7	
asc. node	4490 Dec 30 08:02	18° <b>る</b> 35'08	0.60011.477	asc. node	4491 Dec 17 05:06	29° 🖈 19'58	0.65650.433
min. Earth dist.	4491 Jan 03 01:34	13° <b>る</b> 55'59	0.68011 AU	min. Earth dist.	4491 Dec 17 21:14	28° 🗷 27'03	0.67659 AU
inferior conj	4491 Jan 03 12:03	13° <b>る</b> 19'58	1°22'20	inferior conj	4491 Dec 18 18:33	27° ₹ 16'10	0°31'43
minimum elong	4491 Jan 03 10:17	13°る26'02 7°る12'51	1°21'40	minimum elong	4491 Dec 18 17:47	27° 🖈 18'43	0°31'24
morning rise	4491 Jan 08 18:00			morning rise	4491 Dec 24 05:15	21° <b>х</b> 15'17	
direct	4491 Jan 13 00:16	5°る31'52 10°る28'11	21°11'32	direct	4491 Dec 27 22:27	19° <b>尽</b> 56'01 24° <b>尽</b> 13'14	10050125
morning max el desc. node	4491 Jan 21 12:44 4491 Feb 05 01:46	10 <sup>-</sup> <b>る</b> 2811 29° <b>る</b> 08'57	21-11-32	morning max el	4492 Jan 04 11:59 4492 Jan 09 11:31	24° <b>x</b> '13'14	19-39-33
desc. node	4491 Feb 05 01.46 4491 Feb 05 15:56	29 <b>3</b> 00 3 7 0° <b>≈</b>		desc. node	4492 Jan 09 11.31 4492 Jan 22 22:48	0 3 19° <b>3</b> 17'16	
morning sat	4491 Feb 03 13:50 4491 Feb 21 08:53	0 ∞ 23°≈45'15		desc. Hode	4492 Jan 29 23:33	0°≈	
morning set	4491 Feb 21 08:33 4491 Feb 25 07:14	23 <b>≈</b> 43 13 0° <b>∀</b>		morning set	4492 Jan 31 05:23	0 ∞ 1°≈54'55	
max. Earth dist.	4491 Feb 28 18:48	5° <b>)</b> 38'47	1.42421 AU	max. Earth dist.	4492 Jan 31 03:23 4492 Feb 11 04:48	1 ≈34 33 19°≈07'17	1.44031 AU
max. Latur dist.	7471160 20 10.40	3 <b>N</b> 30 47	1.42421 AU	max. Larm dist.	4472100 11 04.40	17 ~07 17	1.44031 AO
superior conj	4491 Mar 08 01:29	17° <b>)</b> 49'55	-2°07'15	superior conj	4492 Feb 16 13:29	27° <b>≈</b> 46'15	-2°04'18
minimum elong	4491 Mar 08 03:10	17° <b>)</b> 57'09		minimum elong	4492 Feb 16 09:27	27°≈29'45	
g	4491 Mar 15 00:29	0°Υ	2 0, 13	g	4492 Feb 17 22:11	0° <b>∀</b>	2 0.00
evening rise	4491 Mar 19 11:25	8° <b>Ƴ</b> 00'11		evening rise	4492 Feb 29 16:32	19° <b>)(</b> 47'41	
asc. node	4491 Mar 28 07:22	23° <b>Y</b> 32'52		<i>S</i>	4492 Mar 06 15:32	0°Υ	
	4491 Apr 01 13:08	0°8		asc. node	4492 Mar 14 04:24	11° <b>Υ</b> 59'51	
evening max el	4491 Apr 05 02:39	4° <b>8</b> 13'35	18°07'35	evening max el	4492 Mar 18 15:26	17° <b>Ƴ</b> 28'49	18°11'13
retrograde	4491 Apr 11 18:47	7° <b>8</b> 37'35		retrograde	4492 Mar 25 01:31	20° <b>Y</b> 52'22	
evening set	4491 Apr 14 09:57	7° <b>8</b> 06'04		evening set	4492 Mar 27 22:43	20° <b>Y</b> ′09'23	
inferior conj	4491 Apr 21 01:36	2° <b>8</b> 10'13	3°05'45	inferior conj	4492 Apr 03 01:51	14° <b>Y</b> 53'40	3°30'18
minimum elong	4491 Apr 21 04:25	2° <b>8</b> 03'29	3°05'15	minimum elong	4492 Apr 03 03:01	14° <b>Y</b> 50'31	3°30'12
	4491 Apr 23 08:05	30° <b>₹</b> Υ		min. Earth dist.	4492 Apr 05 18:39	11° <b>Y</b> 59'26	0.62964 AU
min. Earth dist.	4491 Apr 24 07:07	29° <b>Ƴ</b> 06'47	0.60854 AU	morning rise	4492 Apr 09 06:08	8° <b>Y</b> 48'15	
morning rise	4491 Apr 27 20:47	26° <b>Ƴ</b> 17'11		direct	4492 Apr 16 03:10	6° <b>Ƴ</b> 10'46	
desc. node	4491 May 04 01:00	24° <b>Y</b> 05'23		desc. node	4492 Apr 19 22:02	6° <b>Ƴ</b> 53'06	
direct	4491 May 04 13:22	24° <b>Y</b> 04'37		morning max el	4492 Apr 30 02:23	14° <b>Y</b> ′09'42	27°48'45
	4491 May 16 16:17	$9^{\circ}$ 8			4492 May 12 21:20	$9^{\circ}$ 8	
morning max el	4491 May 18 19:33	_	27°46'30		4492 May 30 18:38	$\Pi$ $^{\circ}0$	
	4491 Jun 08 05:30	$\Pi^{\circ}0$		morning set	4492 Jun 03 08:32	7° <b>Ⅱ</b> 01'53	
morning set	4491 Jun 20 09:11	22° <b>Ⅱ</b> 53'23		max. Earth dist.	4492 Jun 08 16:54		1.32645 AU
	4491 Jun 23 18:13	$0$ $\circ$ $\odot$		asc. node	4492 Jun 10 03:43	21° <b>Ⅱ</b> 14'42	
asc. node	4491 Jun 24 06:40	1° <b>©</b> 06'52				_	
max. Earth dist.	4491 Jun 26 10:46	5° <b>©</b> 49'47	1.32102 AU	superior conj	4492 Jun 11 00:33	23° <b>Ⅱ</b> 07'12	
	4401 Y 27 11 2	00-20	0024:55	minimum elong	4492 Jun 11 00:07	23° <b>Ⅱ</b> 04'51	0°08'59
superior conj	4491 Jun 27 16:08	8°930'41	0°34'55	behind sun begin	4492 Jun 10 19:45	22° <b>II</b> 41'14	
minimum elong	4491 Jun 27 14:38	8°\$22'26	0°34'36	behind sun end	4492 Jun 11 04:29	23° <b>∏</b> 28′28	
evening rise	4491 Jul 04 11:54	23°523'40			4492 Jun 14 04:33	0°55	
	4491 Jul 07 15:57	0° <b>Ω</b>		evening rise	4492 Jun 17 23:47	8°©11'40 0° <b>Ω</b>	
avaning may al	4491 Jul 25 19:40 4491 Jul 31 02:40	0°M) 5°M-48!44	25011115	avanina may al	4492 Jun 29 08:15 4492 Jul 11 15:35	16° <b>Ω</b> 17'55	22027100
evening max el desc. node	4491 Jul 31 02:40 4491 Jul 31 00:17	5° Mp 48'44	25°11'15	evening max el desc. node	4492 Jul 16 21:18	20°Ω29'02	23 37 08
retrograde	4491 Jul 31 00.17 4491 Aug 14 01:28	5° Mp 42'59 12° Mp 52'29		retrograde	4492 Jul 16 21:18 4492 Jul 25 06:37	20 <b>δι</b> 29 02 23° <b>Ω</b> 08'10	
evening set	4491 Aug 19 16:51	11° <b>m</b> 39'33		evening set	4492 Jul 29 10:57	22° <b>Ω</b> 29'50	
min. Earth dist.	4491 Aug 24 14:21	8° Mp 57'15	0.57583 AU	min. Earth dist.	4492 Aug 05 01:29	19° <b>Ω</b> 23'39	0.55928 AU
inferior conj	4491 Aug 27 14:45	6° Mp 54'48		inferior conj	4492 Aug 07 04:36	$19^{\circ} \Omega 2339$ $18^{\circ} \Omega 07'17$	
minimum elong	4491 Aug 27 14:43 4491 Aug 27 15:56	6° Mp 52'47		minimum elong	4492 Aug 06 23:34	18° <b>Ω</b> 14'50	
morning rise	4491 Sep 04 17:20	2° Mp 42'02	2 12 00	morning rise	4492 Aug 15 14:40	14°Ω12'33	1 2021
direct	4491 Sep 07 06:22	2° m/ 22'53		direct	4492 Aug 18 10:31	13°Ω52'40	
morning max el	4491 Sep 16 02:43	6° Mp 33'42	19°02'50	morning max el	4492 Aug 28 18:02	18° <b>Ω</b> 40'05	20°09'19
asc. node	4491 Sep 20 05:52	11° mp 18'53		asc. node	4492 Sep 06 02:57	29° <b>Ω</b> 23'34	/
<del></del>	4491 Oct 01 03:28	0∘ <b>ರ</b>			4492 Sep 06 11:57	0° my	
morning set	4491 Oct 02 20:35	3° <b>≏</b> 21'59		morning set	4492 Sep 16 01:32	17° <b>m</b> 57'19	
Č				Č			

	4492 Sep 21 22:40	0∘ <b>ত</b>			4493 Aug 30 02:52	0° <b>m</b>	
	4402 G 22 17 40	20 0 20110	1040155	morning set	4493 Aug 31 10:33	2° m 43'43	
superior conj minimum elong	4492 Sep 23 17:49 4492 Sep 23 18:40	3° <b>△</b> 38'19 3° <b>△</b> 42'34	1°42'55 1°42'54	superior conj	4493 Sep 07 16:57	18° <b>m</b> 01'00	1°43'15
max. Earth dist.	4492 Sep 29 04:59	3 <b>=</b> 42 34 14° <b>£</b> 21'21	1.36722 AU	minimum elong	4493 Sep 07 16:21	17° Mp 57'52	1°43'14
evening rise	4492 Oct 03 01:05	21° <b>Ω</b> 30'15	1.30/22 AC	max. Earth dist.	4493 Sep 11 16:52	26° My 13'11	1.34961 AU
* · · · · · · · · · · · · · · · · · · ·	4492 Oct 07 20:24	0°M			4493 Sep 13 14:25	0∘ <b>⊽</b>	-10 17 01 110
desc. node	4492 Oct 12 20:36	8°M20'06		evening rise	4493 Sep 16 00:48	4° <b>£</b> 43'11	
	4492 Oct 27 14:39	0°⊀		desc. node	4493 Sep 29 17:39	28° <b>≙</b> 34'08	
evening max el	4492 Nov 07 18:24	13° <b>х</b> 00′00	25°49'08		4493 Sep 30 15:35	$0^{\circ}$ M	
retrograde	4492 Nov 20 03:53	20° <b>≯</b> 04′22		evening max el	4493 Oct 21 06:57	26°M38'45	26°45'37
evening set	4492 Nov 26 05:56	17° <b>∡</b> 33'18			4493 Oct 25 03:41	0° <b>∡</b>	
min. Earth dist.	4492 Nov 30 13:23	12° <b>х</b> 53'39	0.66957 AU	retrograde	4493 Nov 03 08:27	3° <b>₹</b> 54'48	
inferior conj	4492 Dec 01 21:48	11° <b>х</b> 11'19		evening set	4493 Nov 09 23:06 4493 Nov 11 08:53	1° <b>√</b> 15'19	
minimum elong asc. node	4492 Dec 01 22:27 4492 Dec 03 02:09	11° <b>尽</b> 09'19 9° <b>尽</b> 42'58	0°23'58	min. Earth dist.	4493 Nov 11 08:53 4493 Nov 13 23:46	30°Rጤ 27°ጤ11'16	0.65896 AU
morning rise	4492 Dec 07 15:22	5°×19'03		inferior conj	4493 Nov 15 23:40 4493 Nov 15 19:50	25°M01'48	
direct	4492 Dec 10 21:11	4°×18'45		minimum elong	4493 Nov 15 17:30	24°M54'53	1°23'17
morning max el	4492 Dec 17 19:00	8° <b>≯</b> 08'26	19°02'12	asc. node	4493 Nov 19 23:11	20°M40'58	1 23 17
S	4493 Jan 02 14:03	0°ರ		morning rise	4493 Nov 21 22:06	19°M20'43	
desc. node	4493 Jan 08 19:49	9° <b>る</b> 41'39		direct	4493 Nov 24 18:33	18°M35'38	
morning set	4493 Jan 09 10:24	10° <b>る</b> 38'27		morning max el	4493 Dec 01 07:58	22°M08'51	18°20'59
	4493 Jan 21 19:46	0° <b>≈</b>			4493 Dec 07 13:43	0°⊀	
max. Earth dist.	4493 Jan 23 20:48	3°≈12'34	1.45019 AU	morning set	4493 Dec 20 18:11	20° <b>∡</b> °45′03	
				desc. node	4493 Dec 26 16:52	0° <b>る</b> 17'32	
superior conj	4493 Jan 26 01:56	6°≈41'59			4493 Dec 26 12:28	0° <b>ප</b>	
minimum elong	4493 Jan 25 16:57 4493 Feb 09 23:36	6°≈06'32 0° <b>)</b> (38'24	1°41'08	gunariar agni	4494 Jan 05 04:33	15° <b>る</b> 18'10	1902112
evening rise	4493 Feb 09 25:36 4493 Feb 09 14:11	0 ₹3824 0°¥		superior conj minimum elong	4494 Jan 04 20:58		1°01'15
asc. node	4493 Mar 01 01:27	29° <b>)</b> 44'12		max. Earth dist.	4494 Jan 06 15:38		1.45285 AU
use. Houe	4493 Mar 01 07:07	0°Υ		max. Earth dist.	4494 Jan 14 13:45	0°≈	1.13203710
evening max el	4493 Mar 02 03:27	0° <b>Υ</b> 53'49	18°33'22	evening rise	4494 Jan 21 07:35	10° <b>≈</b> 34'21	
retrograde	4493 Mar 08 16:44	4° <b>Ƴ</b> 29'57		greatest brilliancy	4494 Feb 01 01:16	27° <b>≈</b> 21'28	-0.8m
evening set	4493 Mar 11 20:01	3° <b>Y</b> 34'40			4494 Feb 02 18:45	0° <b>∀</b>	
	4493 Mar 15 21:24	30° <b>₹</b>		evening max el	4494 Feb 13 12:26	14° <b>)</b> 24′11	19°12'58
inferior conj	4493 Mar 17 14:21	28° <b>₩</b> 00'52		asc. node	4494 Feb 15 22:29	16° <b>)</b> 33′50	
minimum elong	4493 Mar 17 13:54	28° <b>)</b> €02'11	3°34'38	retrograde	4494 Feb 20 12:45	18° <b>)</b> €23'44	
min. Earth dist.	4493 Mar 19 15:46	25° <b>)</b> (33'39	0.64786 AU	evening set	4494 Feb 23 22:54	17° <b>)</b> 15′22	2022115
morning rise	4493 Mar 23 07:12 4493 Mar 30 00:42	21° <b>米</b> 49'09 18° <b>米</b> 59'44		inferior conj	4494 Mar 01 11:32 4494 Mar 01 09:55	11° <b>)</b> 25'33	3°23'45 3°23'34
direct desc. node	4493 Mai 30 00.42 4493 Apr 06 19:04	21° <b>H</b> 57'00		minimum elong min. Earth dist.	4494 Mar 02 21:40	9° <b>H</b> 35'54	0.66223 AU
morning max el	4493 Apr 12 12:10	26°\(\frac{1}{3}\)700	27°15'45	morning rise	4494 Mar 06 20:37	5° <b>¥</b> 11'24	0.00223 AO
morning max or	4493 Apr 15 10:20	0°Υ	27 13 13	direct	4494 Mar 13 04:55	2° <b>H</b> 23'14	
	4493 May 06 12:33	0°8		desc. node	4494 Mar 24 16:04	8° <b>)</b> 43′05	
morning set	4493 May 17 22:59	20° <b>8</b> 40'42		morning max el	4494 Mar 25 22:07	9° <b>)</b> 56′53	26°14'29
max. Earth dist.	4493 May 22 14:32	29° <b>8</b> 58'12	1.33638 AU		4494 Apr 10 18:18	$0$ ° $\Upsilon$	
	4493 May 22 14:53	$\Pi^{\circ}0$			4494 Apr 29 01:20	$0^{\circ}$ 8	
				morning set	4494 May 01 00:55	3° <b>8</b> 39'25	
superior conj	4493 May 26 04:20	7° <b>Ⅱ</b> 25'03		max. Earth dist.	4494 May 05 00:44	11° <b>8</b> 16'28	1.35096 AU
minimum elong	4493 May 26 05:20	7° <b>Ⅱ</b> 30′18	0°18'57		4404 M 10 01-00	210 1 10100	0040122
asc. node evening rise	4493 May 28 00:45 4493 Jun 02 10:47	11° <b>Ⅲ</b> 20'38 22° <b>Ⅲ</b> 52'20		superior conj minimum elong	4494 May 10 01:08 4494 May 10 03:46	21° <b>8</b> 18'00 21° <b>8</b> 31'26	
evening rise	4493 Jun 05 21:53	0°9		minimum ciong	4494 May 14 06:13	0° <b>Ⅱ</b>	0 40 03
evening max el	4493 Jun 23 07:01	26°542'20	22°00'43	asc. node	4494 May 14 21:47	1° <b>∏</b> 21′00	
* · · · · · · · · · · · · · · · · · · ·	4493 Jun 27 06:03	0°N		evening rise	4494 May 17 18:57	7° <b>Ⅱ</b> 19'49	
desc. node	4493 Jul 03 18:21	2° <b>Ω</b> 48'59		C	4494 May 30 04:38	$0$ $\circ$ $\odot$	
retrograde	4493 Jul 06 00:26	3° <b>Ω</b> 00'49		evening max el	4494 Jun 05 08:33	7° <b>5</b> 34'18	20°35'26
evening set	4493 Jul 08 19:01	2° <b>Ω</b> 43'38		retrograde	4494 Jun 16 13:12	13° <b>©</b> 02'48	
	4493 Jul 15 16:02	30° <b>₹</b> 5		evening set	4494 Jun 18 13:52	12° <b>©</b> 52'45	
min. Earth dist.	4493 Jul 17 11:44		0.54956 AU	desc. node	4494 Jun 20 15:20	12°523'16	2005:00
inferior conj	4493 Jul 18 02:24	28°539'14		inferior conj	4494 Jun 27 19:54	8°955'28	
minimum elong	4493 Jul 17 17:45	28°951'22	3~51′56	minimum elong	4494 Jun 27 13:58	9° <b>©</b> 03'59 8° <b>©</b> 15'41	
morning rise direct	4493 Jul 26 18:08 4493 Jul 29 22:58	24°\$48'32 24°\$25'51		min. Earth dist. morning rise	4494 Jun 28 23:31 4494 Jul 06 13:20	8°9915'41 4°9948'19	0.54911 AU
direct	4493 Jul 29 22.38 4493 Aug 10 21:08	24 <b>2</b> 23 31 0° <b>Ω</b>		direct	4494 Jul 10 08:29	4 9 4 8 1 9 4° 9 1 7' 1 2	
morning max el	4493 Aug 10 21:27	0° <b>Ω</b> 00'44	21°36'05	morning max el	4494 Jul 23 15:16	10°542'10	23°16'45
asc. node	4493 Aug 23 23:59	18° <b>Ω</b> 07'59			4494 Aug 06 21:11	0° <b>Ω</b>	
	<u>.                                    </u>	-			Č		

asc. node	4494 Aug 10 21:01	7° <b>Ω</b> 22'29		min. Earth dist.	4495 Jun 10 13:23	17° <b>∏</b> 47'57	0.55818 AU
morning set	4494 Aug 15 21:45	17° <b>Ω</b> 35'58		morning rise	4495 Jun 16 11:11	14° <b>I</b> I48'05	0.00010110
	4494 Aug 21 16:24	0° m)		direct	4495 Jun 21 03:25	13° <b>I</b> I58'40	
				morning max el	4495 Jul 05 04:57	21° <b>II</b> 04'26	24°59'19
superior conj	4494 Aug 22 22:30	2° m/41'57	1°37'05	Č	4495 Jul 12 22:29	0°©	
minimum elong	4494 Aug 22 20:52	2° m/33'09	1°36'57	asc. node	4495 Jul 28 18:04	26°©59'21	
max. Earth dist.	4494 Aug 25 13:32	8° <b>m</b> 17'20	1.33590 AU		4495 Jul 30 05:05	$0^{\circ}\Omega$	
evening rise	4494 Aug 30 13:45	18° <b>m</b> 33'46		morning set	4495 Jul 31 09:29	2° <b>Ω</b> 29'16	
	4494 Sep 05 13:46	0∘ <b>亚</b>					
desc. node	4494 Sep 16 14:40	18° <b>≙</b> 25'04		superior conj	4495 Aug 07 08:03	17° <b>Ω</b> 33'41	1°25'24
	4494 Sep 24 20:51	0° <b>M</b>		minimum elong	4495 Aug 07 05:51	17° <b>Ω</b> 21'36	1°25'07
evening max el	4494 Oct 03 19:08	10°M03'49	27°19'51	max. Earth dist.	4495 Aug 08 18:27	20° <b>Ω</b> 41'15	1.32642 AU
retrograde	4494 Oct 17 07:10	17° <b>M</b> 22'19			4495 Aug 13 03:05	O° <b>m</b>	
evening set	4494 Oct 24 07:23	14°M42'13		evening rise	4495 Aug 14 12:16	2° <b>m</b> 51'51	
min. Earth dist.	4494 Oct 28 02:12	11°M12'39	0.64488 AU		4495 Aug 29 09:04	0ಂ <b>ರ</b>	
inferior conj	4494 Oct 30 10:17	8°M42'11		desc. node	4495 Sep 03 11:40	7° <b>£</b> 43′26	
minimum elong	4494 Oct 30 14:28	8°M30'56	2°24'55	evening max el	4495 Sep 16 05:13	23° <b>£</b> 03'15	27°25'22
morning rise	4494 Nov 05 22:47	3°M 15'15			4495 Sep 27 08:43	0°M	
asc. node	4494 Nov 06 20:13	2°M55'52		retrograde	4495 Sep 29 23:12	0°M18'25	
direct	4494 Nov 08 12:18	2°M41'25	15056140		4495 Oct 02 11:58	30°R <u>Ω</u>	
morning max el	4494 Nov 15 00:09	6°M07'20	17°56'40	evening set	4495 Oct 07 03:37	27° <b>£</b> 48'03	0.62764.444
	4494 Nov 30 22:27	0°⊀7 2°∗₹1.7011		min. Earth dist.	4495 Oct 10 18:47	24° <b>£</b> 48'35	0.62764 AU
morning set desc. node	4494 Dec 02 06:58	2° <b>х</b> 17'11 21° <b>х</b> 00'32		inferior conj	4495 Oct 13 14:24	22° <b>♀</b> 06'14 21° <b>♀</b> 52'32	
desc. node	4494 Dec 13 13:54	21 <b>x</b> ·00 32		minimum elong morning rise	4495 Oct 13 20:05 4495 Oct 20 14:08	21 <b>2</b> 52 32 16° <b>2</b> 56'46	3 20 00
superior coni	4494 Dec 15 17:51	24° <b>∡</b> ³30′23	0°14'58	direct	4495 Oct 22 23:29	16° <b>⊆</b> 30'40	
superior conj minimum elong	4494 Dec 15 17:31 4494 Dec 15 16:04	24° <b>x</b> 23'13		asc. node	4495 Oct 24 17:15	16° <b>⊆</b> 30'32	
behind sun begin	4494 Dec 15 11:44	24° <b>x</b> 2515	0 1441	morning max el	4495 Oct 29 16:37		17°50'03
behind sun end	4494 Dec 15 20:24	24°×740'40		morning max ci	4495 Nov 06 03:14	0° <b>M</b>	17 30 03
oeimia sun ena	4494 Dec 19 04:21	0°중		morning set	4495 Nov 14 19:14	14°ML57'15	
max. Earth dist.	4494 Dec 20 10:26	°る59'13	1.44815 AU	morning sec	4495 Nov 23 09:56	0° <b>∡</b> 7	
evening rise	4494 Dec 31 21:56	19°る52'05	1.1.015110		1.501.07 25 05.50		
<i>8</i>	4495 Jan 07 12:56	0° <b>≈</b>		superior conj	4495 Nov 26 07:32	4° <b>₹</b> 755'03	0°28'47
greatest brilliancy	4495 Jan 15 13:14	12° <b>≈</b> 00'18	-0.6m	minimum elong	4495 Nov 26 10:15	5° <b>∡</b> 06'27	0°28'23
evening max el	4495 Jan 27 16:44	27° <b>≈</b> 56'39	20°08'12	desc. node	4495 Nov 30 10:57	11° <b>√</b> 47'28	
C	4495 Jan 29 21:56	0° <b>∀</b>		max. Earth dist.	4495 Dec 03 02:57	16° <b>₹</b> 07'41	1.43669 AU
asc. node	4495 Feb 02 19:30	2° <b>)</b> 13′54		evening rise	4495 Dec 11 08:16	29° <b>₹</b> 07'00	
retrograde	4495 Feb 04 10:42	2° <b>)</b> 28′16			4495 Dec 11 21:58	0°ರ	
evening set	4495 Feb 08 05:05	1° <b>)</b> €05'46			4496 Jan 01 06:59	0° <b>≈</b>	
	4495 Feb 09 12:03	30° <b>₹</b> ≈		evening max el	4496 Jan 10 15:36	11° <b>≈</b> 30′39	21°16'11
inferior conj	4495 Feb 13 14:31	25° <b>≈</b> 02'15	3°01'04	retrograde	4496 Jan 19 08:29	16° <b>≈</b> 40′09	
minimum elong	4495 Feb 13 12:14	25° <b>≈</b> 09'57	3°00'35	asc. node	4496 Jan 20 16:30	16° <b>≈</b> 30'31	
min. Earth dist.	4495 Feb 14 10:34	23° <b>≈</b> 54'37	0.67243 AU	evening set	4496 Jan 23 12:43	15° <b>≈</b> 02'26	
morning rise	4495 Feb 18 19:09	18° <b>≈</b> 48′05		inferior conj	4496 Jan 28 20:57	8° <b>≈</b> 47'57	
direct	4495 Feb 24 14:43	16° <b>≈</b> 12'05		minimum elong	4496 Jan 28 18:30	8°≈56'25	2°28'10
morning max el	4495 Mar 08 06:48	23° <b>≈</b> 10'49	24°54'25	min. Earth dist.	4496 Jan 29 04:16	8° <b>≈</b> 22'37	0.67848 AU
desc. node	4495 Mar 11 13:05	26°≈42'18		morning rise	4496 Feb 03 00:06	2°≈35'24	
	4495 Mar 14 07:39	0° <b>∀</b>		direct	4496 Feb 08 05:10	0°≈18'47	22025154
	4495 Apr 04 02:56	0° <b>Υ</b>		morning max el	4496 Feb 18 15:35	6°≈30'57	23°25'54
morning set	4495 Apr 13 09:21	15° <b>Y</b> 43'28	1 2 ( ) 7 ( ) 1 1	desc. node	4496 Feb 26 10:08	15°≈34'05	
max. Earth dist.	4495 Apr 17 00:15	22° <b>Y</b> 16′57	1.36976 AU		4496 Mar 07 20:29	0° <b>∀</b>	
	4495 Apr 21 02:41	0° <b>8</b>		morning set	4496 Mar 24 18:18	26° <b>升</b> 37'08 0° <b>⋎</b>	
aumariar aani	4405 Amr 22 11:56	4° <b>8</b> 37'31	1017/22	may Earth dist	4496 Mar 26 17:58 4496 Mar 28 19:33	0° γ 3° <b>Υ</b> 34'46	1.39129 AU
superior conj minimum elong	4495 Apr 23 11:56 4495 Apr 23 16:04	4° <b>8</b> 57'48		max. Earth dist.	4490 Mai 28 19.33	3 1 34 40	1.39129 AU
evening rise	4495 May 01 21:58	21° <b>8</b> 27'02	1 1043	superior conj	4496 Apr 05 08:55	17° <b>Ƴ</b> 14'00	1943'02
asc. node	4495 May 01 18:48	21° <b>8</b> 11'11		minimum elong	4496 Apr 05 13:47	17° <b>Υ</b> 36'43	
use. Houe	4495 May 06 06:23	0° <b>I</b>		minimum ciong	4496 Apr 12 01:44	0° <b>8</b>	1 72 30
evening max el	4495 May 18 22:31	19° <b>Ⅱ</b> 07'28	19°28'11	evening rise	4496 Apr 14 17:04	5° <b>8</b> 06'45	
retrograde	4495 May 28 09:19	23° <b>II</b> 43'42	1, 2011	asc. node	4496 Apr 17 15:50	10° <b>8</b> 46'25	
evening set	4495 May 30 08:28	23° <b>I</b> I32'38		acc. noue	4496 Apr 29 16:33	0°Ⅱ	
inferior conj	4495 Jun 07 23:33	19° <b>∏</b> 27'00	-0°08'19	evening max el	4496 Apr 30 23:08	1° <b>I</b> I20'00	18°41'03
minimum elong	4495 Jun 07 23:12	19° <b>Ⅱ</b> 27'36	0°08'11	retrograde	4496 May 08 22:59	5° <b>Ⅱ</b> 15'43	
transit middle	4495 Jun 07 23:12	19° <b>Ⅱ</b> 27'36		evening set	4496 May 11 03:41	4° <b>Ⅱ</b> 59'00	
transit begin	4495 Jun 07 19:51	19° <b>Ⅲ</b> 32'58		inferior conj	4496 May 18 22:51	0° <b>Ⅲ</b> 35'17	1°31'29
transit end	4495 Jun 08 02:32	19° <b>Ⅲ</b> 22'13		minimum elong	4496 May 19 01:56	0°Ⅱ29′29	1°30'30
desc. node	4495 Jun 07 12:18	19° <b>Ⅱ</b> 45′04		3	4496 May 19 17:32	30° <b>₹</b> 8	

min. Earth dist.	4496 May 22 06:27	28° <b>8</b> 06'53	0.57483 AU	inferior conj	4497 Apr 30 19:39	12° <b>8</b> 25'57	2°40'04
desc. node	4496 May 24 09:20	26° <b>8</b> 41'40		minimum elong	4497 Apr 30 23:07	12° <b>8</b> 18'19	2°39'14
morning rise	4496 May 26 20:56	25° <b>8</b> 21'07		min. Earth dist.	4497 May 04 05:13	9° <b>8</b> 28'07	0.59579 AU
direct	4496 Jun 01 12:07	24° <b>8</b> 02'38		morning rise	4497 May 08 00:33	6° <b>8</b> 43'46	
	4496 Jun 14 03:22	$\Pi^{\circ}0$		desc. node	4497 May 11 06:22	5° <b>8</b> 17'57	
morning max el	4496 Jun 15 20:52	1° <b>Ⅱ</b> 35'57	26°27'56	direct	4497 May 14 10:02	4° <b>8</b> 50'22	
	4496 Jul 06 01:01	0ංම		morning max el	4497 May 28 18:52	12° <b>8</b> 40'54	27°28'12
morning set	4496 Jul 14 20:06	17° <b>©</b> 17'54			4497 Jun 11 11:15	$\Pi$ $^{\circ}0$	
asc. node	4496 Jul 14 15:06	16° <b>©</b> 51'28			4497 Jun 28 05:30	0°€	
	4496 Jul 20 16:35	$0$ $^{\circ}$ $\Omega$		morning set	4497 Jun 29 03:58	1° <b>5</b> 56'27	
				asc. node	4497 Jul 01 12:09	6° <b>©</b> 53'34	
superior conj	4496 Jul 21 19:33	2° <b>Ω</b> 28'46	1°08'58	max. Earth dist.	4497 Jul 05 16:13	15° <b>©</b> 58'38	1.31987 AU
minimum elong	4496 Jul 21 17:15	2° <b>Ω</b> 16′04	1°08'35				
max. Earth dist.	4496 Jul 22 04:36	3° <b>Ω</b> 18'45	1.32110 AU	superior conj	4497 Jul 06 07:16	17° <b>©</b> 21'32	0°48'24
evening rise	4496 Jul 28 17:23	17° <b>Ω</b> 27'32		minimum elong	4497 Jul 06 05:20	17° <b>©</b> 10'55	0°48'02
	4496 Aug 03 23:44	0° <b>m</b> )			4497 Jul 12 01:47	$0$ $\circ$ $\Omega$	
desc. node	4496 Aug 20 08:40	26° Mp 15'07		evening rise	4497 Jul 13 02:44	2° <b>Ω</b> 13′22	
	4496 Aug 23 09:13	0∘ <b>⊽</b>			4497 Jul 28 00:58	0°Щ	
evening max el	4496 Aug 28 10:16	5° <b>≙</b> 22'23	26°57'56	desc. node	4497 Aug 07 05:40	13° <b>m</b> 41'05	
retrograde	4496 Sep 11 07:33	12° <b>≙</b> 33'20		evening max el	4497 Aug 10 07:59	16° <b>m</b> 52'44	25°57'52
evening set	4496 Sep 18 07:37	10° <b>≙</b> 24'46		retrograde	4497 Aug 24 07:11	24° Mp 00'28	
min. Earth dist.	4496 Sep 22 00:29	7° <b>£</b> 45'27	0.60791 AU	evening set	4497 Aug 30 14:32	22° m 25'07	
inferior conj	4496 Sep 25 04:50	5° <b>≙</b> 04'25		min. Earth dist.	4497 Sep 03 20:26	19° <b>m</b> 49'28	0.58720 AU
minimum elong	4496 Sep 25 10:51	4° <b>£</b> 51'40	4°21'28	inferior conj	4497 Sep 07 02:03	17° mp 27'11	
morning rise	4496 Oct 02 15:59	0° <b>≙</b> 15'59		minimum elong	4497 Sep 07 05:57	17° <b>m</b> 20'01	5°02'02
	4496 Oct 03 19:41	30°R, Mp		morning rise	4497 Sep 14 23:37	13° <b>m</b> 01'59	
direct	4496 Oct 05 00:12	29° <b>m</b> 54'21		direct	4497 Sep 17 09:55	12° m/42'34	
	4496 Oct 06 04:25	0∘ <b>⊽</b>		morning max el	4497 Sep 25 13:37	16° Mp 37'11	18°34'36
asc. node	4496 Oct 10 14:18	2° <b>⊆</b> 03'19		asc. node	4497 Sep 27 11:22	18° My 38'16	
morning max el	4496 Oct 12 06:12	3° <b>₾</b> 30'10	18°02'14		4497 Oct 05 02:04	0° <b>⊽</b>	
morning set	4496 Oct 28 00:31	28° <b>≏</b> 25'19		morning set	4497 Oct 11 17:45	12° <b>≏</b> 27'02	
	4496 Oct 28 20:55	0° <b>M</b>			4407.0 4 20 12 10	200 0 21107	1026100
	4406NL 06 22 20	1.60 <b>M</b> 2.610.6	1000155	superior conj	4497 Oct 20 13:19	29° <b>£</b> 21'07	1°26'08
superior conj	4496 Nov 06 23:28	16°M36'06	1°02'55	minimum elong	4497 Oct 20 16:39	29° <b>≏</b> 36'43 0° <b>™</b>	1°25'49
minimum elong max. Earth dist.	4496 Nov 07 03:33	16°M54'07	1°02'24	Family dist	4497 Oct 20 21:39		1.39954 AU
max. Earm dist.	4496 Nov 14 14:48 4496 Nov 14 18:40	29° <b>M</b> .43'54 0° <b>∡</b> 7	1.41977 AU	max. Earth dist. evening rise	4497 Oct 27 21:18 4497 Nov 01 01:27	12°M36'07 19°M44'07	1.39934 AU
desc. node	4496 Nov 16 07:59	0 <b>x</b> ⁴ 2° <b>x</b> ⁴34'24		desc. node	4497 Nov 01 01:27 4497 Nov 03 05:00	23°M17'57	
evening rise	4496 Nov 10 07.39 4496 Nov 20 06:10	2 <b>x</b> ·34 24 8° <b>x</b> 756'15		desc. node	4497 Nov 03 03:00 4497 Nov 07 08:49	23 IIG1/3/ 0° <b>√</b> 7	
evening rise	4496 Nov 20 00:10 4496 Dec 04 01:22	0°名			4497 Nov 28 07:34	0°ਤ	
evening max el	4496 Dec 23 09:18	0 ප 25° <b>පි</b> 06'11	22032154	evening max el	4497 Dec 05 23:20	8° <b>る</b> 44'27	23052155
evening max er	4496 Dec 29 15:11	23 <b>3</b> 00 11 0° <b>≈</b>	22 32 34	retrograde	4497 Dec 16 21:25	15° <b>ठ</b> 10'36	23 32 33
retrograde	4497 Jan 02 04:31	0°≈55'43		evening set	4497 Dec 22 01:52	13°る10'30	
renograde	4497 Jan 05 11:15	30°Rる		asc. node	4497 Dec 24 10:36	19 <b>3</b> 0109	
evening set	4497 Jan 06 20:11	29°る02'03		min. Earth dist.	4497 Dec 26 21:10	7° <b>る</b> 26'56	0.67899 AU
asc. node	4497 Jan 06 13:32	29° <b>る</b> 15'25		inferior conj	4497 Dec 27 12:21	6° <b>る</b> 35'21	1°01'36
inferior conj	4497 Jan 12 04:50	22° <b>る</b> 39'56	1°48'42	minimum elong	4497 Dec 27 10:57	6° <b>ප</b> 40'05	1°01'02
minimum elong	4497 Jan 12 02:42	22° <b>る</b> 47'22	1°47'56	morning rise	4498 Jan 01 20:04	0° <b>る</b> 30'43	
min. Earth dist.	4497 Jan 12 00:35	22° <b>る</b> 54'42	0.68056 AU		4498 Jan 02 13:47	30°R. <b>✓</b>	
morning rise	4497 Jan 17 09:05	16° <b>පි</b> 30'31		direct	4498 Jan 05 20:28	28° <b>₹</b> 59'29	
direct	4497 Jan 21 23:25	14° <b>る</b> 36'33			4498 Jan 09 08:47	0°⋜	
morning max el	4497 Jan 31 03:48	19° <b>る</b> 59'19	21°58'28	morning max el	4498 Jan 13 22:34	3°₹38′08	20°39'20
S	4497 Feb 08 13:47	0° <b>≈</b>		desc. node	4498 Jan 30 04:14	25° <b>る</b> 00'03	
desc. node	4497 Feb 12 07:12	5° <b>≈</b> 03'40			4498 Feb 02 13:04	0° <b>≈</b>	
	4497 Mar 01 01:45	0° <b>₩</b>		morning set	4498 Feb 12 02:21	14° <b>≈</b> 34'53	
morning set	4497 Mar 04 23:00	6° <b>₩</b> 10'09		max. Earth dist.	4498 Feb 20 23:16	28° <b>≈</b> 38'17	1.43163 AU
max. Earth dist.	4497 Mar 10 18:03	15° <b>¥</b> 39'53	1.41284 AU		4498 Feb 21 19:26	0° <b>∀</b>	
superior conj	4497 Mar 18 11:21	28° <b>¥</b> 56'13	-2°01'39	superior conj	4498 Feb 27 14:13	9° <b>)</b> 32′13	-2°08'11
minimum elong	4497 Mar 18 15:04	29° <b>∺</b> 12'36		minimum elong	4498 Feb 27 13:44	9° <b>)</b> 30′13	2°08'11
3	4497 Mar 19 01:46	$0^{\circ}$ Y		3	4498 Mar 11 10:31	$0^{\circ}\mathbf{\Upsilon}$	
evening rise	4497 Mar 29 00:50	18° <b>Ƴ</b> 10'46		evening rise	4498 Mar 11 16:58	0° <b>Υ</b> 28'32	
asc. node	4497 Apr 04 12:51	0° <b>8</b> 01'19		asc. node	4498 Mar 22 09:54	18° <b>Ƴ</b> 48'15	
	4497 Apr 04 12:33	$9^{\circ}$ 8		evening max el	4498 Mar 28 19:02	27° <b>Y</b> 10'23	18°06'48
evening max el	4497 Apr 14 07:07	14° <b>8</b> 04'17	18°14'07		4498 Apr 01 17:38	0°8	
retrograde	4497 Apr 21 07:41	17° <b>8</b> 35'38		retrograde	4498 Apr 04 07:33	0° <b>8</b> 32'49	
evening set	4497 Apr 23 19:01	17° <b>8</b> 10'14			4498 Apr 06 22:05	30° <b>₹Ƴ</b>	

evening set	4498 Apr 07 01:12	29° <b>Y</b> 56'43			4499 Mar 04 11:44	0°Υ	
inferior conj	4498 Apr 13 11:03	24° <b>Y</b> 52'23	3°18'58	asc. node	4499 Mar 09 06:56	6° <b>Υ</b> 58'49	
minimum elong	4498 Apr 13 13:12	24° <b>Y</b> 46'57	3°18'40	evening max el	4499 Mar 12 07:51	10° <b>Ƴ</b> 30'56	18°18'28
min. Earth dist.	4498 Apr 16 11:49	21° <b>Y</b> 49'55	0.61770 AU	retrograde	4499 Mar 18 18:16	13° <b>Y</b> 58'13	
morning rise	4498 Apr 19 23:29	18° <b>Υ</b> 52'48		evening set	4499 Mar 21 17:59	13° <b>Ƴ</b> 10'11	
direct	4498 Apr 26 18:56	16° <b>Y</b> 28′05		inferior conj	4499 Mar 27 16:59	7° <b>Ƴ</b> 46'52	3°34'13
desc. node	4498 Apr 28 03:24	16° <b>Ƴ</b> 33'27		minimum elong	4499 Mar 27 17:25	7° <b>Ƴ</b> 45'37	3°34'12
morning max el	4498 May 10 23:00	24° <b>Y</b> 27'11	27°52'00	min. Earth dist.	4499 Mar 30 03:29	5° <b>Y</b> 02'06	0.63785 AU
•	4498 May 15 23:43	$9^{\circ}$ 8		morning rise	4499 Apr 02 15:57	1° <b>Y</b> 38'14	
	4498 Jun 04 19:44	$\Pi^{\circ}0$			4499 Apr 05 03:23	30° <b>₹</b>	
morning set	4498 Jun 13 07:05	16° <b>Ⅱ</b> 17'54		direct	4499 Apr 09 12:31	28° <b>)</b> 53′37	
asc. node	4498 Jun 18 09:12	27° <b>Ⅱ</b> 00′24			4499 Apr 14 05:16	$0^{\circ}\mathbf{\Upsilon}$	
max. Earth dist.	4498 Jun 19 01:19	28° <b>Ⅲ</b> 27′29	1.32278 AU	desc. node	4499 Apr 15 00:27	0° <b>Y</b> 23′07	
	4498 Jun 19 18:22	$0$ $\circ$ $\odot$		morning max el	4499 Apr 23 07:16	6° <b>Y</b> 51'43	27°38'33
					4499 May 11 00:16	$9^{\circ}$ 8	
superior conj	4498 Jun 20 17:24	2° <b>©</b> 05'34	0°24'18		4499 May 27 23:59	$\Pi^{\circ}0$	
minimum elong	4498 Jun 20 16:18	1° <b>9</b> 59'33	0°24'04	morning set	4499 May 28 03:01	0° <b>Ⅱ</b> 15′01	
evening rise	4498 Jun 27 14:12	17° <b>©</b> 02'01		max. Earth dist.	4499 Jun 02 04:00	10° <b>Ⅱ</b> 33'37	1.33010 AU
	4498 Jul 03 23:27	$0^{\circ}\Omega$					
evening max el	4498 Jul 22 22:50	27° <b>Ω</b> 38'40	24°32'28	superior conj	4499 Jun 05 00:07	16° <b>Ⅱ</b> 35'14	
desc. node	4498 Jul 25 02:41	29° <b>Ω</b> 34'56		minimum elong	4499 Jun 05 00:15	16° <b>Ⅱ</b> 35'57	0°02'39
	4498 Jul 25 14:59	0° <b>™</b>		behind sun begin	4499 Jun 04 18:58	16° <b>Ⅱ</b> 07'36	
retrograde	4498 Aug 05 20:03	4° <b>™</b> 39'07		behind sun end	4499 Jun 05 05:33	17° <b>Ⅱ</b> 04'20	
evening set	4498 Aug 10 21:09	3° <b>m</b> 42'01		asc. node	4499 Jun 05 06:16	17° <b>Ⅱ</b> 08'12	
min. Earth dist.	4498 Aug 16 09:57	0° <b>т</b> 51'08	0.56812 AU		4499 Jun 11 05:39	$0$ $\circ$ $\odot$	
	4498 Aug 17 18:11	30°R <b>Ω</b>		evening rise	4499 Jun 12 01:55	1°547'40	
inferior conj	4498 Aug 19 03:24	29° <b>Ω</b> 06′26			4499 Jun 27 17:16	$0$ $^{\circ}\Omega$	
minimum elong	4498 Aug 19 02:01	29° <b>Ω</b> 08'39	5°12'44	evening max el	4499 Jul 04 11:56	8° <b>Ω</b> 02'23	22°55'31
morning rise	4498 Aug 27 09:24	25° <b>Ω</b> 02'32		desc. node	4499 Jul 11 23:42	13° <b>Ω</b> 23'12	
direct	4498 Aug 30 00:50	24° <b>Ω</b> 43'25		retrograde	4499 Jul 17 20:00	14° <b>Ω</b> 41'17	
morning max el	4498 Sep 08 11:36	29° <b>Ω</b> 08'36	19°28'30	evening set	4499 Jul 21 08:32	14° <b>Ω</b> 14'10	0.55410.444
1	4498 Sep 09 08:34	0° <b>Т</b> р		min. Earth dist.	4499 Jul 28 20:39		0.55412 AU
asc. node	4498 Sep 14 08:26	6° Mp 14'27		inferior conj	4499 Jul 30 09:30	10° <b>Ω</b> 00'25	
morning set	4498 Sep 25 19:16	26° M 52'31 0° <u>₽</u>		minimum elong	4499 Jul 30 02:15	10° <b>Ω</b> 10'54	4°36'31
	4498 Sep 27 08:35	0.77		morning rise	4499 Aug 07 22:09	6° <b>Ω</b> 09'12 5° <b>Ω</b> 48'27	
superior conj	4498 Oct 03 19:38	12° <b>£</b> 54'46	1°39'18	direct morning max el	4499 Aug 10 21:27 4499 Aug 21 21:45	10° <b>Ω</b> 55'40	20°43'56
minimum elong	4498 Oct 03 19:38 4498 Oct 03 21:26	12 <b>⊆</b> 34 40 13° <b>⊆</b> 03'33	1°39'13	asc. node	4499 Sep 01 05:29	24° <b>Ω</b> 37'40	20 43 30
max. Earth dist.	4498 Oct 10 01:41	13 <b>≗</b> 03 33 24° <b>£</b> 49'11	1.37859 AU	asc. node	4499 Sep 01 05:29 4499 Sep 04 05:51	0° m)	
max. Earm dist.	4498 Oct 10 01:41 4498 Oct 12 22:14	24 <b>=</b> 4911 0° <b>M</b>	1.37639 AU	morning set	4499 Sep 10 02:12	11° Mp 33'26	
evening rise	4498 Oct 13 19:50	1°M35'51		morning set	ччээ вер 10 02.12	11 11/05/20	
desc. node	4498 Oct 21 02:01	13°M54'22		superior conj	4499 Sep 17 13:43	27° m 02'50	1°43'55
dese. Hode	4498 Oct 31 13:28	0° <b>√</b>		minimum elong	4499 Sep 17 13:54	27° m 02'30	1°43'55
evening max el	4498 Nov 18 11:56	22° <b>∡</b> ¹26'57	25°09'35	minimum crong	4499 Sep 19 00:33	0ಂ <b>ರ</b>	1 13 33
retrograde	4498 Nov 30 10:07	29° <b>х</b> 20'49		max. Earth dist.	4499 Sep 22 09:37	6° <b>£</b> 42'56	1.35932 AU
evening set	4498 Dec 06 04:08	26° <b>₹</b> 56'59		evening rise	4499 Sep 26 10:07	14° <b>£</b> 22'50	
min. Earth dist.	4498 Dec 10 15:44	21° <b>≯</b> 56'53	0.67394 AU	<i>5</i>	4499 Oct 05 07:32	0°M	
asc. node	4498 Dec 11 07:39	21° <b>₹</b> 05'01		desc. node	4499 Oct 07 23:02	4°M18'25	
inferior conj	4498 Dec 11 17:42	20° <b>∡</b> °32′07	0°08'35		4499 Oct 26 07:19	0°⊀	
minimum elong	4498 Dec 11 17:29	20° <b>х</b> 32′49	0°08'29	evening max el	4499 Nov 01 00:34	6° <b>₹</b> 09'51	26°15'31
transit middle	4498 Dec 11 17:29	20° <b>∡</b> ³32'49	0°08'29	retrograde	4499 Nov 13 17:39	13° <b>∡</b> 20′09	
transit begin	4498 Dec 11 15:07	20° <b>х</b> 40′33		evening set	4499 Nov 20 01:11	10° <b>∡</b> ¹45′08	
transit end	4498 Dec 11 19:51	20° <b>х</b> 25′06		min. Earth dist.	4499 Nov 24 05:48	6° <b>х</b> 20′20	0.66547 AU
morning rise	4498 Dec 17 07:04	14° <b>₹</b> 34'24		inferior conj	4499 Nov 25 18:59	4° <b>х</b> 26′09	-0°49'18
direct	4498 Dec 20 19:07	13° <b>∡</b> 23'41		minimum elong	4499 Nov 25 20:19	4° <b>≯</b> 22'03	0°48'43
morning max el	4498 Dec 28 01:13	17° <b>∡</b> 728'16	19°33'15	asc. node	4499 Nov 28 04:41	1° <b>∡</b> ³36′25	
	4499 Jan 06 20:48	0°₹			4499 Nov 29 19:30	30°RM₊	
greatest brilliancy	4499 Jan 10 03:34	4° <b>る</b> 49'07	-0.7m	morning rise	4499 Dec 01 16:01	28°M37'59	
desc. node	4499 Jan 17 01:17	15° <b>ප</b> 16'12		direct	4499 Dec 04 17:37	27°M44'31	
morning set	4499 Jan 21 23:15	22° <b>る</b> 49'56			4499 Dec 09 21:15	0° <b>∡</b> ″	
	4499 Jan 26 14:12	0° <b>≈</b>		morning max el	4499 Dec 11 10:56	1° <b>∡</b> °25'59	18°42'36
max. Earth dist.	4499 Feb 03 11:34	12° <b>≈</b> 22'48	1.44531 AU		4499 Dec 31 06:32	0° <b>ろ</b>	
	4400 5	100 000	1055:15	morning set	4500 Jan 01 14:24	2°る05'45	
superior conj	4499 Feb 07 15:26	19°≈00'41		desc. node	4500 Jan 03 22:17	5° <b>る</b> 46'02	
minimum elong	4499 Feb 07 08:48	18°≈34'08	1°56'52	max. Earth dist.	4500 Jan 17 05:05	26° <b>る</b> 37'48	1.45228 AU
i. ·	4499 Feb 14 09:51	0° <del>)(</del>		· ·	4500 L 17 21 12	2707 41124	100/14/
evening rise	4499 Feb 21 13:05	11° <b>米</b> 52'18		superior conj	4500 Jan 17 21:18	27° <b>る</b> 41'24	-1-20.40

		<del></del>					
minimum elong	4500 Jan 17 12:01	27° <b>る</b> 04'58	1°25'46		4501 Jan 12 03:45	0° <b>≈</b>	
	4500 Jan 19 08:35	0° <b>≈</b>		evening rise	4501 Jan 13 09:21	1° <b>≈</b> 54'51	
evening rise	4500 Feb 02 10:02	22°≈18'15		greatest brilliancy	4501 Jan 26 01:48	21° <b>≈</b> 25'14	-0.7m
	4500 Feb 07 05:05	0° <b>∀</b>			4501 Jan 31 23:36	0° <b>∀</b>	
greatest brilliancy	4500 Feb 09 21:44	4° <b>₩</b> 18'46	-0.9m	evening max el	4501 Feb 07 01:58	7° <b>∺</b> 30'12	19°34'42
evening max el	4500 Feb 23 18:52	23° <b>¥</b> 59′00	18°48'14	asc. node	4501 Feb 11 00:58	10° <b>)</b> 43′27	
asc. node	4500 Feb 24 03:58	24° <b>)</b> €21'40		retrograde	4501 Feb 14 08:54	11° <b>)</b> 42′19	
retrograde	4500 Mar 02 11:46	27° <b>) (</b> 43′27		evening set	4501 Feb 17 22:28	10° <b>)</b> €27'50	
evening set	4500 Mar 05 17:57	26° <b>)</b> 42′35		inferior conj	4501 Feb 23 09:27	4° <b>)</b> €31'41	3°15'25
inferior conj	4500 Mar 11 09:31	21° <b>₭</b> 01'50	3°31'37	minimum elong	4501 Feb 23 07:29	4° <b>¥</b> 38′08	3°15'06
minimum elong	4500 Mar 11 08:31	21° <b>)</b> €04'55	3°31'33	min. Earth dist.	4501 Feb 24 13:19	3° <b>∺</b> 00′00	0.66707 AU
min. Earth dist.	4500 Mar 13 04:20	18° <b>) (</b> 49′50	0.65452 AU		4501 Feb 26 23:54	30° <b>R</b> ≈	
morning rise	4500 Mar 16 22:40	14° <b>) (</b> 49′02		morning rise	4501 Feb 28 16:16	28° <b>≈</b> 17′26	
direct	4500 Mar 23 12:57	11° <b>)</b> 58'38		direct	4501 Mar 06 19:24	25° <b>≈</b> 33'40	
desc. node	4500 Apr 01 21:29	16° <b>¥</b> 14'21			4501 Mar 16 00:17	0° <b>∀</b>	
morning max el	4500 Apr 05 17:09	19° <b>) (</b> 44′23	26°52'39	morning max el	4501 Mar 19 02:39	2° <b>)</b> 53'44	25°42'14
Č	4500 Apr 14 11:29	$0^{\circ}\Upsilon$		desc. node	4501 Mar 19 18:30	3° <b>)</b> €34'25	
	4500 May 04 01:34	0°8			4501 Apr 08 16:38	0° <b>Υ</b>	
morning set	4500 May 11 12:40	13° <b>K</b> 38'29		morning set	4501 Apr 24 07:47	26° <b>Y</b> 15′27	
max. Earth dist.	4500 May 15 20:59	22° <b>8</b> 10'12	1.34202 AU	morning sec	4501 Apr 26 08:20	0°8	
max. Earth dist.	4500 May 19 16:49	0°II	1.54202 110	max. Earth dist.	4501 Apr 28 02:37	3° <b>8</b> 19'31	1.35849 AU
	4300 Way 17 10.47	од		max. Lartii dist.	4301 Apr 20 02.37	3 01731	1.55647 AC
superior conj	4500 May 20 01:17	0° <b>Ⅱ</b> 44'05	0021/22	superior conj	4501 May 03 18:12	14° <b>8</b> 23'38	1000150
		0° <b>П</b> 52'49			•		
minimum elong	4500 May 20 02:58	0°Щ32′49 7°Щ12′35	0-31-12	minimum elong	4501 May 03 21:31	_	1°00'24
asc. node	4500 May 23 03:15			asc. node	4501 May 10 00:16	27° <b>8</b> 09'11	
evening rise	4500 May 27 12:00	16° <b>Ⅱ</b> 24'13			4501 May 11 09:37	0°II	
	4500 Jun 03 08:20	0.20		evening rise	4501 May 11 18:16	0° <b>Ⅱ</b> 44'07	
evening max el	4500 Jun 16 07:10	18° <b>©</b> 36'40	21°22'35	evening max el	4501 May 29 13:52	29° <b>∏</b> 45′00	20°04'26
retrograde	4500 Jun 28 09:57	24° <b>©</b> 34'50			4501 May 29 20:05	0∘ <b>ௐ</b>	
desc. node	4500 Jun 28 20:43	24° <b>©</b> 34'22		retrograde	4501 Jun 09 00:33	4° <b>9</b> 51'06	
evening set	4500 Jun 30 18:54	24° <b>©</b> 21'55		evening set	4501 Jun 10 23:09	4°9341'17	
inferior conj	4500 Jul 10 03:46	20°522'41		desc. node	4501 Jun 15 17:44	3° <b>5</b> 04'14	
minimum elong	4500 Jul 09 19:33	20° <b>©</b> 34'11	3°09'57	inferior conj	4501 Jun 19 23:56	0°941'41	
min. Earth dist.	4500 Jul 10 07:13	20° <b>©</b> 17'52	0.54821 AU	minimum elong	4501 Jun 19 20:23	0° <b>©</b> 47'00	1°14'42
morning rise	4500 Jul 18 20:58	16° <b>5</b> 27'43			4501 Jun 21 03:43	30°RⅡ	
direct	4500 Jul 22 07:21	16° <b>©</b> 02'14		min. Earth dist.	4501 Jun 21 19:29	29° <b>Ⅲ</b> 36′32	0.55184 AU
morning max el	4500 Aug 03 20:28	21° <b>©</b> 58'18	22°17'42	morning rise	4501 Jun 28 16:00	26° <b>Ⅱ</b> 22'36	
	4500 Aug 10 18:29	$0^{\circ}\Omega$		direct	4501 Jul 02 19:15	25° <b>Ⅱ</b> 45'23	
asc. node	4500 Aug 19 02:31	13° <b>Ω</b> 36'37			4501 Jul 13 14:12	$0$ $\circ$ $\mathfrak{S}$	
morning set	4500 Aug 25 12:25	26° <b>Ω</b> 23'50		morning max el	4501 Jul 16 11:49	2°\$28'40	24°01'04
	4500 Aug 27 05:24	0° <b>m</b> y			4501 Aug 04 10:22	$0 ^{\circ} \Omega$	
				asc. node	4501 Aug 05 23:32	3° <b>Ω</b> 01'35	
superior conj	4500 Sep 01 15:56	11° <b>m</b> 34'50	1°41'22	morning set	4501 Aug 10 00:03	11° <b>Ω</b> 17'29	
minimum elong	4500 Sep 01 14:50	11°M)29'03	1°41'18	•	•		
max. Earth dist.	4500 Sep 05 01:31	18° <b>m</b> 40'39	1.34335 AU	superior conj	4501 Aug 16 23:28	26° <b>Ω</b> 21'21	1°32'45
evening rise	4500 Sep 09 16:00	27° m 53'48		minimum elong	4501 Aug 16 21:31	26° <b>Ω</b> 10'51	1°32'34
8 21	4500 Sep 10 18:09	0∘ <b>⊽</b>			4501 Aug 18 16:01	0° m)	
desc. node	4500 Sep 24 20:03	24° <b>≏</b> 24'04		max. Earth dist.	4501 Aug 19 02:04		1.33138 AU
	4500 Sep 28 13:09	0°M		evening rise	4501 Aug 24 09:25	11° <b>m</b> ) 57'05	
evening max el	4500 Oct 14 13:17	19°M45'02	27°03'13	0 / 4 · · · · · · · · · · · · · · · · · ·	4501 Sep 02 23:52	0∘ <b>⊽</b>	
retrograde	4500 Oct 27 19:33	27°M02'04	27 03 13	desc. node	4501 Sep 11 17:04	ა <b>_</b> 14° <b>ჲ</b> 02'43	
evening set	4500 Nov 03 14:51	24°M21'21		dese. Hode	4501 Sep 24 01:37	0°M	
min. Earth dist.	4500 Nov 07 12:59		0.65349 AU	evening max el	4501 Sep 27 00:42	3°M00'16	27°25'51
				•	•	10°M17'45	27 23 31
inferior conj	4500 Nov 09 14:05	18°M13'15 18°M04'21		retrograde	4501 Oct 10 15:25 4501 Oct 17 18:28	7°M40'03	
minimum elong	4500 Nov 09 17:14		1°49'15	evening set			0.62700 ATT
asc. node	4500 Nov 15 01:43	13°M03'36		min. Earth dist.	4501 Oct 21 11:14	4°M24'26	0.63798 AU
morning rise	4500 Nov 15 20:33	12°M37'43		inferior conj	4501 Oct 24 00:30	1°M47'26	
direct	4500 Nov 18 13:52	11°M57'44	10000120	minimum elong	4501 Oct 24 05:24	1°M34'50	2~51.06
morning max el	4500 Nov 25 01:34	15°M26'24	18°08'30		4501 Oct 25 19:27	30° <b>₹</b> Ω	
	4500 Dec 05 14:06	0° <b>⊼</b>		morning rise	4501 Oct 30 17:44	26° <b>Ω</b> 27'48	
morning set	4500 Dec 13 10:55	12° <b>₹</b> 50′29		asc. node	4501 Nov 01 22:44	25° <b>Ω</b> 57'59	
desc. node	4500 Dec 21 19:18	26° <b>₹</b> 25'25		direct	4501 Nov 02 05:10	25° <b>Ω</b> 57'37	
	4500 Dec 24 00:51	0°ප		morning max el	4501 Nov 08 18:19	29° <b>ჲ</b> 22'37	17°51'40
					4501 Nov 09 08:51	0°M₊	
superior conj	4500 Dec 28 01:54	6° <b>る</b> 25'42		morning set	4501 Nov 25 10:30	24°M54'07	
minimum elong	4500 Dec 27 20:37	6° <b>る</b> 04'47			4501 Nov 28 09:45	0° <b>∡</b> ¹	
max. Earth dist.	4500 Dec 31 00:49	11° <b>る</b> 05'15	1.45181 AU				

superior conj	4501 Dec 08 00:45	16° <b>₹</b> 07'03	0°04'33	minimum elong	4502 Nov 19 05:33	27° <b>M</b> 20'54	0°44'05
minimum elong	4501 Dec 08 01:14	16° <b>₹</b> 09'05	0°04'28	Č	4502 Nov 20 18:50	0° <b>∡</b> ¹	
behind sun begin	4501 Dec 07 15:45	15° <b>∡</b> ³30'14		desc. node	4502 Nov 25 13:23	7° <b>∡</b> °58'07	
behind sun end	4501 Dec 08 10:44	16° <b>∡</b> 747'50		max. Earth dist.	4502 Nov 26 09:15	9° <b>√</b> 19'29	1.42999 AU
desc. node	4501 Dec 08 16:21	17° <b>∡</b> 10'46		evening rise	4502 Dec 03 09:30	20° <b>∡</b> ³31'49	
max. Earth dist.	4501 Dec 13 19:06	25° <b>∡</b> ¹25′07	1.44403 AU		4502 Dec 09 13:05	5°0	
	4501 Dec 16 16:33	0° <b>ට</b>			4502 Dec 30 21:28	0° <b>≈</b>	
evening rise	4501 Dec 23 20:03	11° <b>ට</b> 06'48		evening max el	4503 Jan 04 00:23	4° <b>≈</b> 37'26	21°48'04
	4502 Jan 05 08:15	0° <b>≈</b>		retrograde	4503 Jan 13 04:28	10° <b>≈</b> 04'33	
evening max el	4502 Jan 21 03:53	21° <b>≈</b> 03′08	20°35'43	asc. node	4503 Jan 15 19:03	9° <b>≈</b> 28′04	
asc. node	4502 Jan 28 21:59	25° <b>≈</b> 50′02		evening set	4503 Jan 17 13:16	8° <b>≈</b> 20′19	
retrograde	4502 Jan 29 07:10	25° <b>≈</b> 50'50		inferior conj	4503 Jan 22 21:29	2° <b>≈</b> 02'03	2°12'45
evening set	4502 Feb 02 05:30	24° <b>≈</b> 21'54		minimum elong	4503 Jan 22 19:06	2°≈10′18	
inferior conj	4502 Feb 07 14:10	18° <b>≈</b> 13'05	2°48'30	min. Earth dist.	4503 Jan 22 23:49	1° <b>≈</b> 53'56	0.67980 AU
minimum elong	4502 Feb 07 11:45	18° <b>≈</b> 21'20	2°47'54		4503 Jan 24 09:01	30°Rる	
min. Earth dist.	4502 Feb 08 04:35	17°≈23'44	0.67544 AU	morning rise	4503 Jan 28 00:46	25°る50'22	
morning rise	4502 Feb 12 17:49	11°≈59'15		direct	4503 Feb 01 23:30	23°る43'05	
direct	4502 Feb 18 07:12	9° <b>≈</b> 31'04		morning max el	4503 Feb 11 21:03	29° <b>ට</b> 34'40	22°47'59
morning max el	4502 Mar 01 11:19	16°≈11'34	24°17'16		4503 Feb 12 07:00	0° <b>≈</b>	
desc. node	4502 Mar 06 15:33	21°≈58'30		desc. node	4503 Feb 21 12:36	11°≈07'56	
	4502 Mar 12 21:06	0° <b>∀</b> 0° <b>Ƴ</b>		. ,	4503 Mar 06 16:24	0° <b>)</b> {	
	4502 Apr 01 16:04	0° <b>γ</b> 7° <b>Υ</b> 51'49		morning set	4503 Mar 18 04:16	18° <b>)</b> 11'33	1 400C1 ATT
morning set	4502 Apr 06 07:01	14° <b>Υ</b> 23'15	1 270/0 AII	max. Earth dist.	4503 Mar 22 18:43	25° <b>¥</b> 55'55 0° <b>Ƴ</b>	1.40061 AU
max. Earth dist.	4502 Apr 09 23:28	14"   23 13	1.37868 AU		4503 Mar 25 03:11	0-1	
superior conj	4502 Apr 16 23:37	27° <b>Y</b> 25'51	-1°28'52	superior conj	4503 Mar 30 13:17	9° <b>Ƴ</b> 40'17	-1°52'05
minimum elong	4502 Apr 17 04:13	27° <b>Y</b> 47'56	1°28'14	minimum elong	4503 Mar 30 17:58	10° <b>Y</b> ′01'38	1°51'40
	4502 Apr 18 07:35	$9^{\circ}$ 8		evening rise	4503 Apr 09 09:01	28° <b>Y</b> °05'39	
evening rise	4502 Apr 25 18:19	14° <b>8</b> 40'40			4503 Apr 10 09:06	$0^{\circ}$ 8	
asc. node	4502 Apr 26 21:18	16° <b>8</b> 53'41		asc. node	4503 Apr 13 18:21	6° <b>8</b> 20'46	
	4502 May 03 22:02	$\Pi^{\circ}0$		evening max el	4503 Apr 25 12:50	24° <b>8</b> 02'12	18°27'12
evening max el	4502 May 12 08:38	11° <b>Ⅱ</b> 35'13	19°05'40	retrograde	4503 May 03 01:17	27° <b>8</b> 45'16	
retrograde	4502 May 21 03:39	15° <b>Ⅱ</b> 52'44		evening set	4503 May 05 08:50	27° <b>8</b> 25'11	
evening set	4502 May 23 04:30	15° <b>Ⅱ</b> 39'53		inferior conj	4503 May 12 19:46	22° <b>8</b> 53'11	2°04'30
inferior conj	4502 May 31 11:16	11° <b>Ⅱ</b> 27'18	0°37'27	minimum elong	4503 May 12 23:19	22° <b>8</b> 46'02	2°03'28
minimum elong	4502 May 31 12:46	11° <b>Ⅱ</b> 24'43	0°36'55	min. Earth dist.	4503 May 16 06:09	20° <b>8</b> 09'02	0.58342 AU
desc. node	4502 Jun 02 14:44	9° <b>∏</b> 58'48		morning rise	4503 May 20 10:40	17° <b>8</b> 25'49	
min. Earth dist.	4502 Jun 03 10:46	9° <b>Ⅱ</b> 25'15	0.56444 AU	desc. node	4503 May 20 11:46	17° <b>8</b> 24'26	
morning rise	4502 Jun 08 17:49	6° <b>∏</b> 32'36		direct	4503 May 26 10:43	15° <b>8</b> 52'16	
direct	4502 Jun 13 19:46	5° <b>Ⅱ</b> 32'03	25020140	morning max el	4503 Jun 09 20:04	23° <b>8</b> 34'39	26°57'42
morning max el	4502 Jun 28 01:58	12° <b>Ⅱ</b> 51'51	25°39'40		4503 Jun 15 14:49	0° <b>I</b> I	
1	4502 Jul 11 11:00	0°95		. ,	4503 Jul 04 11:40	0°95	
asc. node	4502 Jul 23 20:35	22°545'29		morning set	4503 Jul 09 21:11	10°554'12	
morning set	4502 Jul 25 11:31 4502 Jul 27 06:39	26° <b>©</b> 09'20 0° <b>Ω</b>		asc. node	4503 Jul 10 17:39	12° <b>©</b> 42'21	
	4302 Jul 27 00.39	0 06		superior conj	4503 Jul 16 21:55	26° <b>©</b> 10'19	1°00'44
superior conj	4502 Aug 01 10:05	11° <b>Ω</b> 15'20	1°18'59	minimum elong	4503 Jul 16 19:43	25°\$58'10	1°00'44 1°00'21
minimum elong	4502 Aug 01 07:47	11° <b>Ω</b> 02'39	1°18'39	max. Earth dist.	4503 Jul 16 20:29	26° <b>©</b> 02'29	1.31999 AU
max. Earth dist.	4502 Aug 02 09:25	13° <b>Ω</b> 23'23	1.32361 AU	max. Earth dist.	4503 Jul 18 15:32	0°Ω	1.51777710
evening rise	4502 Aug 08 11:03	26° <b>Ω</b> 23'19	1.52501110	evening rise	4503 Jul 23 18:14	11° <b>Ω</b> 04'21	
e vennig 1190	4502 Aug 10 05:20	0° m)		o ronning rise	4503 Aug 02 10:41	0° m)	
	4502 Aug 27 10:25	0∘ <b>ರ</b>		desc. node	4503 Aug 16 11:04	21° mp 10'05	
desc. node	4502 Aug 29 14:04	3° <b>ഫ</b> 03'11		evening max el	4503 Aug 22 11:04	27° m 43'15	26°36'18
evening max el	4502 Sep 09 08:45	15° <b>≏</b> 43'12	27°17'45	· ·	4503 Aug 25 01:24	0∘ <b>⊽</b>	
retrograde	4502 Sep 23 04:40	22° <b>£</b> 57'27		retrograde	4503 Sep 05 09:48	4° <b>£</b> 53'00	
evening set	4502 Sep 30 08:25	20° <b>£</b> 34'35		evening set	4503 Sep 12 04:09	2° <b>≏</b> 57'40	
min. Earth dist.	4502 Oct 03 23:12	17° <b>£</b> 45′23	0.61946 AU	min. Earth dist.	4503 Sep 16 00:51	0° <b>£</b> 21'55	0.59903 AU
inferior conj	4502 Oct 06 23:12	15° <b>≏</b> 01'21	-3°52'22		4503 Sep 16 12:12	30°₽, <b>Т</b> р	
minimum elong	4502 Oct 07 05:15	14° <b>≏</b> 47'32	3°50'40	inferior conj	4503 Sep 19 06:51	27° m 46'35	-4°42'17
morning rise	4502 Oct 14 03:54	10° <b>≏</b> 00'43		minimum elong	4503 Sep 19 12:20	27° <b>m</b> 35'36	4°41'17
direct	4502 Oct 16 12:14	9° <b>£</b> 36'55		morning rise	4503 Sep 26 22:36	23° <b>m</b> 07'40	
asc. node	4502 Oct 19 19:48	10° <b>≏</b> 26′05		direct	4503 Sep 29 07:09	22° <b>m</b> 47'19	
morning max el	4502 Oct 23 10:02	13° <b>≏</b> 06'38	17°52'51	asc. node	4503 Oct 06 16:53	26° Mp 19'23	
	4502 Nov 03 20:31	0° <b>M</b> ₊		morning max el	4503 Oct 06 21:27	26° Mp 30'18	18°13'22
morning set	4502 Nov 08 06:43	7°M56'24			4503 Oct 09 23:12	0∘ <b>ত</b>	
				morning set	4503 Oct 22 17:42	21° <b>Ω</b> 41'02	
superior conj	4502 Nov 19 01:54	27°M05'17	0~44'34		4503 Oct 27 03:26	0°M₊	

superior conj	4503 Nov 01 03:52	9°M15'50	1°14'03	minimum elong	4504 Oct 14 04:05	22° <b>£</b> 36'13	1°32'38
minimum elong	4503 Nov 01 07:48	9°M33'39	1°13'36		4504 Oct 18 02:51	0°M	
max. Earth dist.	4503 Nov 08 18:38	22°M37'44	1.41147 AU	max. Earth dist.	4504 Oct 21 00:10	5°M13'50	1.39064 AU
desc. node	4503 Nov 12 10:25	28°M44'26		evening rise	4504 Oct 24 21:17	12°M00'55	
	4503 Nov 13 04:51	0°⊀		desc. node	4504 Oct 29 07:25	19°M25'27	
evening rise	4503 Nov 13 15:58	0° <b>∡</b> °45'24			4504 Nov 04 23:38	0° <b>∡</b>	
	4503 Dec 03 00:19	0° <b>ろ</b>			4504 Nov 27 08:57	0° <b>ろ</b>	
evening max el	4503 Dec 17 16:27	18°る14'47	23°06'55	evening max el	4504 Nov 29 05:46	1°る55'30	24°26'18
retrograde	4503 Dec 27 23:15	24° <b>る</b> 20'16		retrograde	4504 Dec 10 14:18	8° පි33'52 6° පි18'02	
evening set asc. node	4504 Jan 01 20:09 4504 Jan 02 16:06	22°る20'05 21°る34'53		evening set asc. node	4504 Dec 16 00:35 4504 Dec 19 13:09	6°67802 2° <b>6</b> 27'58	
inferior conj	4504 Jan 07 05:27	15° <b>る</b> 56'03	1°29'31	min. Earth dist.	4504 Dec 20 16:31	2 <b>3</b> 2738 0° <b>る</b> 58'22	0.67738 AU
minimum elong	4504 Jan 07 03:34	16° <b>පි</b> 02'32	1°28'48	iiiii. Lartii dist.	4504 Dec 21 09:58	30°R <i>X</i> <sup>7</sup>	0.07750710
min. Earth dist.	4504 Jan 06 20:35	16° <b>පි</b> 26'37	0.68040 AU	inferior conj	4504 Dec 21 12:16	29° <b>х</b> 52'19	0°39'47
morning rise	4504 Jan 12 10:53	9° <b>ප</b> 48'19		minimum elong	4504 Dec 21 11:19	29° <b>₹</b> 55'28	0°39'23
direct	4504 Jan 16 19:15	8° <b>ප</b> 03'55		morning rise	4504 Dec 26 22:08	23° <b>х</b> 50′30	
morning max el	4504 Jan 25 11:35	13° <b>る</b> 06'38	21°23'17	direct	4504 Dec 30 17:10	22° <b>₹</b> 28'14	
	4504 Feb 07 19:36	0° <b>≈</b>		morning max el	4505 Jan 07 09:41	26° <b>₹</b> 50'26	20°09'24
desc. node	4504 Feb 08 09:39	0° <b>≈</b> 50'03			4505 Jan 10 06:41	0°ප	
morning set	4504 Feb 25 20:51	27°≈10'45		desc. node	4505 Jan 25 06:42	20° <b>る</b> 55'40	
	4504 Feb 27 15:28	0° <b>∀</b>			4505 Jan 31 06:27	0° <b>≈</b>	
max. Earth dist.	4504 Mar 03 19:43	8° <b>)</b> €23′22	1.42142 AU	morning set	4505 Feb 03 18:23	5°≈22'27	
	450434 11 06 15	200 1/ 55126	2007115	max. Earth dist.	4505 Feb 14 04:42	21°≈45'32	1.43826 AU
superior conj	4504 Mar 11 06:15 4504 Mar 11 08:34	20°\(\frac{1}{55}\)'36 21°\(\frac{1}{105}\)'40			4505 Feb 19 06:54	0° <b>∀</b>	
minimum elong	4504 Mar 16 10:22	21 <del>χ</del> 03 40 0° <b>γ</b>	2 00 11	superior conj	4505 Feb 19 22:08	1° <b>)</b> €02'25	2005156
evening rise	4504 Mar 22 10:37	10° <b>Υ</b> 50'41		minimum elong	4505 Feb 19 19:03	0° <b>)</b> 49'46	
asc. node	4504 Mar 30 15:23	25° <b>Υ</b> 24'31		evening rise	4505 Mar 04 18:46	22° <b>)</b> 46'45	2 03 31
	4504 Apr 02 12:08	0°8		0.0	4505 Mar 08 23:00	0°Υ	
evening max el	4504 Apr 07 22:56	6° <b>8</b> 56'58	18°08'39	asc. node	4505 Mar 17 12:25	13° <b>Y</b> 57'22	
retrograde	4504 Apr 14 16:50	10° <b>8</b> 22'17		evening max el	4505 Mar 22 11:35	20° <b>Y</b> 10′18	18°09'27
evening set	4504 Apr 17 07:04	9° <b>8</b> 52'22		retrograde	4505 Mar 28 22:01	23° <b>Y</b> '33'16	
inferior conj	4504 Apr 24 00:54	4° <b>8</b> 59'24	2°59'52	evening set	4505 Mar 31 18:17	22° <b>Y</b> 52'05	
minimum elong	4504 Apr 24 03:55	4° <b>8</b> 52'19	2°59'17	inferior conj	4505 Apr 06 23:01	17° <b>Ƴ</b> 39'10	3°27'56
min. Earth dist.	4504 Apr 27 07:44	1° <b>8</b> 56'43	0.60525 AU	minimum elong	4505 Apr 07 00:27	17° <b>Y</b> 35′22	3°27'49
	4504 Apr 29 16:52	30°RƳ		min. Earth dist.	4505 Apr 09 17:57	14° <b>Υ</b> 42'13	0.62662 AU
morning rise	4504 Apr 30 22:34	29°Υ08'56		morning rise	4505 Apr 13 05:18	11° <b>Υ</b> 34'58	
desc. node	4504 May 06 08:49	27° <b>Υ</b> 05'18 27° <b>Υ</b> 01'11		direct	4505 Apr 20 02:07	9° <b>Υ</b> '00'30 9° <b>Υ</b> '29'54	
direct	4504 May 07 13:38 4504 May 15 23:07	0° <b>8</b>		desc. node morning max el	4505 Apr 23 05:51 4505 May 04 02:49	16° <b>Υ</b> 59'44	27050146
morning max el	4504 May 21 20:31	4° <b>8</b> 55'38	27°43'03	morning max er	4505 May 14 21:29	0° <b>8</b>	27 30 40
morning max cr	4504 Jun 09 11:49	0°Ⅱ	27 43 03		4505 Jun 02 05:18	0°II	
morning set	4504 Jun 23 03:14	25° <b>I</b> I25'42		morning set	4505 Jun 07 03:36	9° <b>П</b> 37'52	
5 - 5	4504 Jun 25 07:31	0°©		max. Earth dist.	4505 Jun 12 14:35	21° <b>Ⅱ</b> 00′52	1.32538 AU
asc. node	4504 Jun 26 14:41	2°5546'36		asc. node	4505 Jun 13 11:42	22° <b>∏</b> 54′18	
max. Earth dist.	4504 Jun 29 07:30	8° <b>5</b> 39'00	1.32057 AU				
				superior conj	4505 Jun 14 18:01	25° <b>Ⅱ</b> 38'14	0°13'11
superior conj	4504 Jun 30 09:08	10° <b>©</b> 59'44		minimum elong	4505 Jun 14 17:24	25° <b>Ⅱ</b> 34'51	0°13'02
minimum elong	4504 Jun 30 07:30	10° <b>©</b> 50'46	0°38'15	behind sun begin	4505 Jun 14 14:23	25° <b>Ⅱ</b> 18'30	
evening rise	4504 Jul 07 04:42	25°\$52'06		behind sun end	4505 Jun 14 20:25	25° <b>∏</b> 51'13	
	4504 Jul 09 03:52	0° <b>N</b>			4505 Jun 16 18:07	0°55	
desc. node	4504 Jul 26 12:57 4504 Aug 02 08:06	0° <b>Т</b> р 8° <b>Тр</b> 00'38		evening rise	4505 Jun 21 16:31 4505 Jul 01 13:38	10° <b>©</b> 40'24 0° <b>Ω</b>	
evening max el	4504 Aug 03 05:47	8° Mp 53'47	25°24'07	evening max el	4505 Jul 15 18:50	19° <b>Ω</b> 25'37	23°51'36
retrograde	4504 Aug 17 04:43	15° Mp 58'32	23 2407	desc. node	4505 Jul 20 05:05	23°Ω05'15	23 31 30
evening set	4504 Aug 23 00:46	14° mp 39'45		retrograde	4505 Jul 29 11:51	26° <b>Ω</b> 19'12	
min. Earth dist.	4504 Aug 27 17:36	•	0.57868 AU	evening set	4505 Aug 02 21:43	25° <b>Ω</b> 36'18	
inferior conj	4504 Aug 30 19:50	9° m 51'46		min. Earth dist.	4505 Aug 09 05:02	22° <b>Ω</b> 34'31	0.56137 AU
minimum elong	4504 Aug 30 21:50	9° <b>m</b> 48'17		inferior conj	4505 Aug 11 12:27	21° <b>Ω</b> 10'22	
morning rise	4504 Sep 07 21:11	5° m 35'52		minimum elong	4505 Aug 11 08:21	21° <b>Ω</b> 16'38	5°03'50
direct	4504 Sep 10 09:29	5° Mp 16′39		morning rise	4505 Aug 19 21:32	17° <b>Ω</b> 13'46	
morning max el	4504 Sep 19 01:07	9° <b>™</b> 22'48	18°54'49	direct	4505 Aug 22 16:12	16° <b>Ω</b> 54'09	
asc. node	4504 Sep 22 13:56	13°My21'55		morning max el	4505 Sep 01 18:09	21° <b>Ω</b> 35′19	19°58'08
	4504 Oct 02 14:00	0° <b>⊽</b>		-	4505 Sep 08 14:26	0° <b>m</b> )	
morning set	4504 Oct 05 14:53	5° <b>£</b> 54'15		asc. node	4505 Sep 09 10:58	1° mp 19'01	
avma=i==	4504 0-4 14 01 21	220 0 22112	1022151	morning set	4505 Sep 19 18:58	20° m/26'45	
superior conj	4504 Oct 14 01:21	22° <b>£</b> 23'13	1-32/31		4505 Sep 24 11:21	0∘ <b>ত</b>	

superior conj	4505 Sep 27 13:10	6° <b>£</b> 12'41	1°42'14	direct	4506 Aug 03 06:15	27° <b>©</b> 35'02	
minimum elong	4505 Sep 27 14:15	6° <b>£</b> 18'08	1°42'11		4506 Aug 11 01:03	0°Ω	
max. Earth dist.	4505 Oct 03 05:27	17° <b>£</b> 15'50	1.37006 AU	morning max el	4506 Aug 14 23:16	3° <b>Ω</b> 02'47	21°22'07
evening rise	4505 Oct 07 00:32	24° <b>£</b> 16'34		asc. node	4506 Aug 27 07:59	19° <b>Ω</b> 58'06	
S	4505 Oct 10 06:04	0° <b>M</b> .			4506 Sep 01 14:32	0° <b>m</b>	
desc. node	4505 Oct 16 04:26	9° <b>M</b> 56'57		morning set	4506 Sep 04 03:29	5° m 11'50	
	4505 Oct 29 15:23	0° <b>∡</b> ¹		Č	•	•	
evening max el	4505 Nov 11 18:07	15° <b>∡</b> ³38′05	25°39'18	superior conj	4506 Sep 11 11:04	20° Mp 31'56	1°43'38
retrograde	4505 Nov 24 00:51	22° <b>∡</b> ¹40'18		minimum elong	4506 Sep 11 10:40	20° <b>m</b> 29'51	1°43'38
evening set	4505 Nov 30 00:52	20° <b>х</b> 10′53		max. Earth dist.	4506 Sep 15 16:02	29° Mp 06'53	1.35196 AU
min. Earth dist.	4505 Dec 04 09:19	15° <b>∡</b> 25'59	0.67081 AU		4506 Sep 16 02:42	0∘ <b>ত</b>	
inferior conj	4505 Dec 05 16:06	13° <b>∡</b> ¹47'56	-0°15'28	evening rise	4506 Sep 19 21:57	7° <b>£</b> 23'14	
minimum elong	4505 Dec 05 16:30	13° <b>∡</b> ⁴46'39	0°15'17		4506 Oct 02 21:57	0°M₊	
transit middle	4505 Dec 05 16:30	13° <b>∡</b> ⁴46'39	0°15'17	desc. node	4506 Oct 03 01:25	0°M13'46	
transit begin	4505 Dec 05 15:35	13° <b>х</b> 49′34		evening max el	4506 Oct 25 06:39	29°M18'16	26°38'31
transit end	4505 Dec 05 17:25	13° <b>≯</b> 43'45			4506 Oct 26 00:17	0° <b>∡</b> ¹	
asc. node	4505 Dec 06 10:11	12° <b>≯</b> 50′38		retrograde	4506 Nov 07 06:18	6° <b>≯</b> 33′28	
morning rise	4505 Dec 11 08:31	7° <b>∡</b> 754'15		evening set	4506 Nov 13 19:06	3° <b>≯</b> 54'56	
direct	4505 Dec 14 15:51	6° <b>₹</b> 51′26			4506 Nov 17 15:47	30°RM₁	
morning max el	4505 Dec 21 15:38	10° <b>₹</b> 44'40	19°09'45	min. Earth dist.	4506 Nov 17 20:46	29°M45'28	0.66071 AU
greatest brilliancy	4506 Jan 04 15:25	29° <b>х</b> 43′13	-0.8m	inferior conj	4506 Nov 19 15:02	27°M39'44	
	4506 Jan 04 19:49	0°る		minimum elong	4506 Nov 19 17:07	27°M33'33	1°14'05
desc. node	4506 Jan 12 03:42	11°る18'03		asc. node	4506 Nov 23 07:13	23°M40'15	
morning set	4506 Jan 13 20:34	13° <b>る</b> 56'42		morning rise	4506 Nov 25 15:53	21°M.56'41	
Family 33-4	4506 Jan 24 03:41	0°≈ 5°≈ • 45!50	1 44015 ATT	direct	4506 Nov 28 13:34	21°M09'35	10027105
max. Earth dist.	4506 Jan 27 19:48	5°≈45°59	1.44915 AU	morning max el	4506 Dec 05 03:50	24°M44'48 0°⊀	18°26'05
superior conj	4506 Jan 30 13:33	10° <b>≈</b> 05'37	1046!25	morning set	4506 Dec 09 13:28 4506 Dec 24 23:55	0° <b>x</b> ¹ 23° <b>x</b> ¹50'06	
minimum elong	4506 Jan 30 04:59	9°≈31'44		morning set	4506 Dec 28 20:28	23 <b>メ</b> -3000	
minimum clong	4506 Feb 11 22:11	0° <b>\</b>	1 43 33	desc. node	4506 Dec 30 00:44	0 0 1° <b>る</b> 52'34	
evening rise	4506 Feb 14 05:16	3° <b>)</b> 46′05		desc. Hode	4300 DCC 30 00.44	1 03234	
evening rise	4506 Mar 02 22:14	0° <b>Υ</b>		superior conj	4507 Jan 09 16:25	18° <b>ප්</b> 41'41	-1°09'00
asc. node	4506 Mar 04 09:27	1° <b>Y</b> 49'00		minimum elong	4507 Jan 09 08:11	18° <b>る</b> 09'23	1°08'01
evening max el	4506 Mar 05 23:51	3° <b>Υ</b> 34'09	18°28'55	max. Earth dist.	4507 Jan 10 14:13	20° <b>ප</b> 07'10	1.45295 AU
retrograde	4506 Mar 12 12:10	7° <b>Υ</b> 07'44	10 2000	man. Bartir dist.	4507 Jan 16 21:32	0°≈	1.10290110
evening set	4506 Mar 15 14:28	6°Υ14'25		evening rise	4507 Jan 25 16:33	13° <b>≈</b> 49'37	
inferior conj	4506 Mar 21 09:55	0° <b>Υ</b> 43'19	3°35'00	greatest brilliancy	4507 Feb 04 16:12	29° <b>≈</b> 32'14	-0.8m
minimum elong	4506 Mar 21 09:42	0° <b>Ƴ</b> 43'57	3°35'00	· ·	4507 Feb 04 23:22	0° <b>)</b> €	
Č	4506 Mar 22 00:33	30° <b>₹</b> ₩		evening max el	4507 Feb 17 09:25	17° <b>₩</b> 04'08	19°06'00
min. Earth dist.	4506 Mar 23 13:43	28° <b>)</b> 11′03	0.64539 AU	asc. node	4507 Feb 19 06:28	18° <b>)</b> 47′53	
morning rise	4506 Mar 27 04:14	24° <b>)</b> 32′08		retrograde	4507 Feb 24 07:36	20° <b>)</b> 59′25	
direct	4506 Apr 02 22:41	21° <b>)</b> 43′30		evening set	4507 Feb 27 16:40	19° <b>¥</b> 53′04	
desc. node	4506 Apr 10 02:54	24° <b>∺</b> 15′19		inferior conj	4507 Mar 05 06:00	14° <b>∺</b> 05'37	3°26'12
morning max el	4506 Apr 16 12:21	29° <b>∺</b> 38'31	27°22'35	minimum elong	4507 Mar 05 04:32	14° <b>∺</b> 10'18	3°26'02
	4506 Apr 16 20:49	$0$ ° $\mathbf{\gamma}$		min. Earth dist.	4507 Mar 06 18:24	12° <b>)</b> €09'53	0.66042 AU
	4506 May 08 19:44	$0^{\circ}S$		morning rise	4507 Mar 10 16:02	7° <b>₩</b> 51'44	
morning set	4506 May 21 19:34	23° <b>8</b> 21'44		direct	4507 Mar 17 02:03	5° <b>)</b> 02′29	
	4506 May 25 03:24	0°II		desc. node	4507 Mar 27 23:56	10° <b>)</b> 47′55	
max. Earth dist.	4506 May 26 13:35	2° <b>Ⅱ</b> 55'03	1.33461 AU	morning max el	4507 Mar 29 22:16	12° <b>)</b> 39'48	26°24'57
					4507 Apr 12 21:05	0° <b>Υ</b>	
superior conj	4506 May 29 22:36	9° <b>Ⅱ</b> 59'17			4507 May 01 11:30	0° <b>8</b>	
minimum elong	4506 May 29 23:22	10° <b>Ⅱ</b> 03'18	0°14'3'/	morning set	4507 May 04 23:37	6° <b>8</b> 27'03	1.24050 444
behind sun begin	4506 May 29 21:08	9° <b>Ⅱ</b> 51′26		max. Earth dist.	4507 May 09 01:22	14° <b>8</b> 16'48	1.34850 AU
behind sun end	4506 May 30 01:36	10° <b>Ⅱ</b> 15'11			4507 M 12 20-27	220 0 5 6 12 5	0944105
asc. node evening rise	4506 May 31 08:43 4506 Jun 06 03:44	13° <b>Ⅱ</b> 00'48 25° <b>Ⅱ</b> 22'22		superior conj minimum elong	4507 May 13 20:37 4507 May 13 23:00	23° <b>8</b> 56'25 24° <b>8</b> 08'38	
evening rise	4506 Jun 08 09:06	0°95		minimum ciong	4507 May 16 18:50	0°II	0 43 36
evening max el	4506 Jun 27 09:20	29°5948'34	22°14'36	asc. node	4507 May 10 18:30 4507 May 18 05:45	3° <b>Ⅱ</b> 02'12	
Svening max ci	4506 Jun 27 14:04	29 €948 34 0°Ω	22 17 JU	evening rise	4507 May 21 12:27	9° <b>∏</b> 52'08	
desc. node	4506 Jul 07 02:06	5° <b>Ω</b> 49'13		0,0111115 1130	4507 Jun 01 05:19	0°9	
retrograde	4506 Jul 10 07:13	6° <b>Ω</b> 13'09		evening max el	4507 Jun 09 09:10	10° <b>©</b> 35'28	20°47'07
evening set	4506 Jul 13 05:54	5° <b>Ω</b> 53'55		retrograde	4507 Jun 20 19:47	16°9511'42	
min. Earth dist.	4506 Jul 21 15:24	2° <b>Ω</b> 16'28	0.55044 AU	evening set	4507 Jun 22 22:00	16°901'12	
inferior conj	4506 Jul 22 12:04	1° <b>Ω</b> 47'21		desc. node	4507 Jun 23 23:08	15°5948'27	
minimum elong	4506 Jul 22 03:34			inferior conj	4507 Jul 02 05:18	12°504'06	-2°24'53
<b>U</b>	4506 Jul 25 18:57	30° <b>₹</b> 5		minimum elong	4507 Jul 01 22:38	12° <b>©</b> 13'36	
morning rise	4506 Jul 31 03:03	27° <b>©</b> 57'03		min. Earth dist.	4507 Jul 03 02:55	11° <b>©</b> 33'18	
-							

morning rise	4507 Jul 10 22:51	8° <b>©</b> 00'39		morning rise	4508 Jun 19 19:47	17° <b>∏</b> 58'32	
direct	4507 Jul 10 22.31 4507 Jul 14 15:35	7° <b>9</b> 31'13		direct	4508 Jun 24 08:37	17 <b>П</b> 38 32 17° <b>П</b> 12'40	
morning max el	4507 Jul 27 18:10	13°949'03	23°01'18	morning max el	4508 Jul 08 08:06	24° <b>I</b> 12'45	24944121
morning max ci	4507 Aug 09 02:51	0°Ω	23 01 18	morning max ci	4508 Jul 13 15:08	0°95	24 44 31
asc. node	4507 Aug 07 02:31 4507 Aug 14 05:01	9° <b>Ω</b> 08'47		asc. node	4508 Jul 31 02:03	28° <b>©</b> 42'51	
morning set	4507 Aug 14 05:01 4507 Aug 19 14:28	20° <b>Ω</b> 03'35		ase. Houe	4508 Jul 31 17:12	0°Ω	
morning set	4507 Aug 24 05:59	0°m		morning set	4508 Aug 03 02:16	4° <b>Ω</b> 57'22	
	4307 Mug 24 03.37	עויי		morning set	4300 Mug 03 02.10	7 0637 22	
superior conj	4507 Aug 26 15:50	5° <b>m</b> 10'40	1°38'23	superior conj	4508 Aug 10 00:57	20° <b>Ω</b> 01'21	1°27'29
minimum elong	4507 Aug 26 14:19	5° m 02'35	1°38'17	minimum elong	4508 Aug 09 22:48		1°27'15
max. Earth dist.	4507 Aug 29 11:28	11° mp 08'57	1.33768 AU	max. Earth dist.	4508 Aug 11 15:29	23° <b>Ω</b> 30'53	1.32760 AU
evening rise	4507 Sep 03 09:10	21°M 09'03			4508 Aug 14 16:13	O° Mp	
•	4507 Sep 08 00:04	0∘ <b>ত</b>		evening rise	4508 Aug 17 06:31	5° m 23'44	
desc. node	4507 Sep 19 22:26	20° <b>≏</b> 08'42			4508 Aug 30 14:54	0∘ <b>ত</b>	
	4507 Sep 26 19:06	0°M		desc. node	4508 Sep 05 19:27	9° <b>ჲ</b> 32'42	
evening max el	4507 Oct 07 19:06	12°M46'31	27°16'30	evening max el	4508 Sep 19 05:41	25° <b>≏</b> 50'23	27°26'30
retrograde	4507 Oct 21 05:52	20°M04'44			4508 Sep 24 08:12	$0^{\circ}$ M	
evening set	4507 Oct 28 04:53	17° <b>M</b> 24'19		retrograde	4508 Oct 02 22:47	3°M05'51	
min. Earth dist.	4507 Nov 01 00:33	13°M49'41	0.64718 AU	evening set	4508 Oct 10 03:08	0°M33'15	
inferior conj	4507 Nov 03 06:47	11°M22'01	-2°17'03		4508 Oct 10 21:14	30° <b>₽</b> Ω	
minimum elong	4507 Nov 03 10:42	11°M11'20	2°15'31	min. Earth dist.	4508 Oct 13 18:37	27° <b>≙</b> 29'50	0.63044 AU
morning rise	4507 Nov 09 17:40	5°M52'37		inferior conj	4508 Oct 16 12:38	24° <b>≙</b> 48'37	-3°18'46
asc. node	4507 Nov 10 04:15	5°M41'44		minimum elong	4508 Oct 16 18:08	24° <b>£</b> 35′07	3°16'57
direct	4507 Nov 12 08:06	5° <b>M</b> 17'17		morning rise	4508 Oct 23 10:40	19° <b>ჲ</b> 36′20	
morning max el	4507 Nov 18 19:41	8°M43'44	17°59'12	direct	4508 Oct 25 20:30	19° <b>ഫ</b> 09'08	
	4507 Dec 03 06:30	0°⊀		asc. node	4508 Oct 27 01:18	19° <b>≏</b> 16′03	
morning set	4507 Dec 06 08:40	5° <b>≯</b> 10'30		morning max el	4508 Nov 01 12:18	22° <b>≏</b> 35'04	17°49'52
desc. node	4507 Dec 16 21:44	22° <b>≯</b> 34'32			4508 Nov 07 06:49	0°M₊	
		_		morning set	4508 Nov 17 17:48	17° <b>M</b> 41'12	
superior conj	4507 Dec 20 02:54	27° <b>₹</b> '45'05			4508 Nov 24 19:36	0°⊀	
minimum elong	4507 Dec 20 00:13	27° <b>₹</b> 34'20	0°21'43				
D d F.	4507 Dec 21 12:42	0°る	1 44024 444	superior conj	4508 Nov 29 12:32	7° 🖍 57'28	0°22'41
max. Earth dist.	4507 Dec 24 09:22	4° <b>る</b> 32'14	1.44934 AU	minimum elong	4508 Nov 29 14:46	8° <b>₹</b> 06'48	0°22'23
evening rise	4508 Jan 05 08:51 4508 Jan 09 19:18	23°る11'17 0°≈		desc. node	4508 Dec 02 18:46 4508 Dec 06 02:34	13° <b>х</b> 20′38 18° <b>х</b> 44′16	1.43878 AU
greatest brilliancy	4508 Jan 19 16:02	0 ≈ 14°≈53'22	-0.6m	max. Earth dist.	4508 Dec 10 02.34 4508 Dec 13 05:37	18 X·44 10	1.436/6 AU
greatest brilliancy	4508 Jan 31 00:33	0° <b>)</b>	-0.0111	evening rise	4508 Dec 13 03:37 4508 Dec 14 18:40	0 8 2° <b>る</b> 23'34	
evening max el	4508 Jan 31 14:33	0° <b>)</b> 36'42	19°59'04	evening rise	4509 Jan 02 08:42	2°≈	
asc. node	4508 Feb 06 03:31	4° <b>)</b> (30'42	17 37 04	evening max el	4509 Jan 13 14:13	0 <b>~</b> 14° <b>≈</b> 10'10	21°05'25
retrograde	4508 Feb 08 05:24	5° <b>∺</b> 02'49		retrograde	4509 Jan 22 03:24	19° <b>≈</b> 13'53	21 03 23
evening set	4508 Feb 11 22:31	3° <b>¥</b> 42'24		asc. node	4509 Jan 23 00:34	19° <b>≈</b> 09'39	
	4508 Feb 15 13:46	30°R≈		evening set	4509 Jan 26 06:05	17° <b>≈</b> 38'21	
inferior conj	4508 Feb 17 08:18	27°≈40'48	3°05'11	inferior conj	4509 Jan 31 14:21	11° <b>≈</b> 25'12	2°34'19
minimum elong	4508 Feb 17 06:05	27° <b>≈</b> 48'14	3°04'43	minimum elong	4509 Jan 31 11:54	11° <b>≈</b> 33'40	2°33'38
min. Earth dist.	4508 Feb 18 06:20	26° <b>≈</b> 26'54	0.67121 AU	min. Earth dist.	4509 Jan 31 23:27	10° <b>≈</b> 53'50	0.67781 AU
morning rise	4508 Feb 22 13:25	21° <b>≈</b> 26′37		morning rise	4509 Feb 05 17:33	5°≈12'23	
direct	4508 Feb 28 11:03	18° <b>≈</b> 48′20		direct	4509 Feb 11 00:48	2° <b>≈</b> 52'42	
morning max el	4508 Mar 11 07:08	25° <b>≈</b> 52'45	25°07'08	morning max el	4509 Feb 21 15:50	9° <b>≈</b> 12'15	23°39'18
desc. node	4508 Mar 13 20:59	28° <b>≈</b> 37'42		desc. node	4509 Feb 28 18:01	17° <b>≈</b> 22'31	
	4508 Mar 15 01:52	0° <b>∀</b>			4509 Mar 10 00:37	0° <b>∀</b>	
	4508 Apr 05 10:16	$0^{\circ}\mathbf{\Upsilon}$		morning set	4509 Mar 28 23:57	29° <b>)</b> 45′45	
morning set	4508 Apr 16 11:04	18° <b>Ƴ</b> 40′29			4509 Mar 29 03:18	$0^{\circ}\Upsilon$	
max. Earth dist.	4508 Apr 20 02:27	25° <b>Y</b> 19'18	1.36675 AU	max. Earth dist.	4509 Apr 01 22:07	6° <b>Ƴ</b> 33'15	1.38800 AU
	4508 Apr 22 14:03	$9^{\circ}$ 8					
				superior conj	4509 Apr 09 08:32	20° <b>Y</b> ′05'31	
superior conj	4508 Apr 26 09:11	7° <b>8</b> 21'57		minimum elong	4509 Apr 09 13:23	20° <b>Y</b> 28'19	1°38'56
minimum elong	4508 Apr 26 13:08	7° <b>8</b> 41'24	1~12'31		4509 Apr 14 12:53	0°8	
asc. node	4508 May 04 02:47	22° <b>8</b> 54'30		evening rise	4509 Apr 18 12:59	7° <b>8</b> 47'52	
evening rise	4508 May 04 16:27	24° <b>႘</b> 03'20		asc. node	4509 Apr 20 23:51	12° <b>႘</b> 32'26	
avanina ma1	4508 May 07 16:09	0°Ⅱ 22°Ⅱ02'42	10026156	ovening ma1	4509 May 01 06:54	0°Ⅱ 4°Ⅱ09'29	10016115
evening max el	4508 May 21 21:23	26° <b>I</b> I46'17	17 30 30	evening max el	4509 May 04 20:34	4°П09'29 8°П10'29	18°46'45
retrograde evening set	4508 May 31 14:07 4508 Jun 02 12:54	26°Щ4617 26°Щ35'40		retrograde evening set	4509 May 13 01:04 4509 May 15 04:41	8°Щ10′29 7°Щ54′53	
desc. node	4508 Jun 02 12:54 4508 Jun 09 20:10	26° II 35'40 23° II 25'42		inferior conj	4509 May 13 04:41 4509 May 23 02:50	7°Щ34'33 3°Щ34'01	1°18'17
inferior conj	4508 Jun 11 06:44	23 <b>H</b> 23 42 22° <b>H</b> 31'56	-0°25'40	minimum elong	4509 May 23 02:36 4509 May 23 05:36	3° <b>П</b> 28'56	1°17'21
minimum elong	4508 Jun 11 05:35	22° <b>I</b> I31'30'		min. Earth dist.	4509 May 26 08:48	1° <b>П</b> 11'58	0.57198 AU
min. Earth dist.	4508 Jun 13 16:17		0.55628 AU	desc. node	4509 May 27 17:13	0° <b>П</b> 17'19	3.5,170710
Darm dist.	.500 5411 15 10.17	2. 20154	3.00020710	acco. noue	.50, may 21 11.15	· <u></u> 1/1/	

	4509 May 28 04:08	30° <b>₹</b> 8		morning rise	4510 May 12 04:00	9° <b>8</b> 39'26	
morning rise	4509 May 31 03:15	28° <b>8</b> 24'43		desc. node	4510 May 14 14:16	8° <b>8</b> 32'11	
direct	4509 Jun 05 15:02	27° <b>8</b> 11'14		direct	4510 May 18 11:15	7° <b>8</b> 51'05	
	4509 Jun 14 03:52	0°П		morning max el	4510 Jun 01 20:29	15° <b>8</b> 40'02	27°21'23
morning max el	4509 Jun 19 23:28	4° <b>∏</b> 41'17	26°16'16	Ü	4510 Jun 13 12:18	0°II	
C	4509 Jul 08 08:42	0ಂಣ			4510 Jun 30 17:43	$0$ $\circ$ $\mathfrak{S}$	
asc. node	4509 Jul 17 23:06	18° <b>5</b> 32'49		morning set	4510 Jul 02 21:35	4° <b>5</b> 27'01	
morning set	4509 Jul 18 13:12	19° <b>5</b> 346'58		asc. node	4510 Jul 04 20:09	8° <b>©</b> 33'21	
	4509 Jul 23 06:33	$0^{\circ}\Omega$		max. Earth dist.	4510 Jul 09 12:36	18° <b>5</b> 45'58	1.31977 AU
	4500 X 1 05 10 10	10.05.01.2	1011145		4510 7 1 10 00 05	1000101	0051145
superior conj	4509 Jul 25 12:18 4509 Jul 25 09:59	4°Ω56'13 4°Ω43'26	1°11'45 1°11'23	superior conj	4510 Jul 10 00:05	19°549'24	0°51'47
minimum elong max. Earth dist.	4509 Jul 25 09:59 4509 Jul 26 01:04	6°Ω06'33	1.32164 AU	minimum elong	4510 Jul 09 22:05 4510 Jul 14 15:15	19° <b>©</b> 38'18 0° <b>Ω</b>	0°51'23
evening rise	4509 Aug 01 10:50	19° <b>Ω</b> 57'01	1.32104 AU	evening rise	4510 Jul 16 19:40	4° <b>Ω</b> 41'21	
evening rise	4509 Aug 06 10:22	0° Mp		evening rise	4510 Jul 30 04:53	0°M)	
desc. node	4509 Aug 23 16:29	28° Mp 12'22		desc. node	4510 Aug 10 13:30	15° Mp 49'42	
dese. Hode	4509 Aug 25 01:40	0° <b>ʊ</b>		evening max el	4510 Aug 14 10:22	19° <b>m</b> 53'07	26°08'41
evening max el	4509 Sep 01 11:32	° <b>-</b> 8° <b>-</b> 15'34	27°04'03	retrograde	4510 Aug 28 09:40	27° Mp 01'41	20 00 11
retrograde	4509 Sep 15 08:24	15° <b>£</b> 27'22	2, 0.03	evening set	4510 Sep 03 20:15	25° m) 20'53	
evening set	4509 Sep 22 09:52	13° <b>≏</b> 14'36		min. Earth dist.	4510 Sep 07 23:11	22° m 45'49	0.59021 AU
min. Earth dist.	4509 Sep 26 01:51	10° <b>Ω</b> 33'18	0.61097 AU	inferior conj	4510 Sep 11 05:19	20° m 19'28	-4°58'04
inferior conj	4509 Sep 29 05:19	7° <b>Ω</b> 50'54	-4°15'16	minimum elong	4510 Sep 11 09:44	20° m 11'09	
minimum elong	4509 Sep 29 11:25	7° <b>≏</b> 37'44	4°13'47	morning rise	4510 Sep 19 01:27	15° <b>m</b> 50'48	
morning rise	4509 Oct 06 14:51	2° <b>₽</b> 59'21		direct	4510 Sep 21 11:07	15° <b>m</b> 31'16	
direct	4509 Oct 08 23:00	2° <b>≏</b> 37'14		morning max el	4510 Sep 29 11:09	19° <b>m</b> 22'38	18°28'26
asc. node	4509 Oct 13 22:21	4° <b>£</b> 21'35		asc. node	4510 Sep 30 19:24	20° Mp 45'52	
morning max el	4509 Oct 16 02:34	6° <b>₽</b> 11'02	17°59'11		4510 Oct 07 08:24	0∘ <b>ত</b>	
	4509 Oct 31 07:15	$0^{\circ}$ M		morning set	4510 Oct 15 12:38	15° <b>≏</b> 00'16	
morning set	4509 Oct 31 20:54	1°M02'54			4510 Oct 23 09:02	0°M	
superior conj	4509 Nov 11 00:47	19° <b>M</b> 27'46	0°58'26	superior conj	4510 Oct 24 11:42	2° <b>M</b> 04'11	1°23'17
minimum elong	4509 Nov 11 04:49	19°M45'29	0°57'55	minimum elong	4510 Oct 24 15:14	2°M20'31	1°22'55
8	4509 Nov 17 04:08	0° <b>⊼</b> 7		max. Earth dist.	4510 Oct 31 22:03	15°M23'41	1.40264 AU
max. Earth dist.	4509 Nov 18 15:03	2° <b>∡</b> ¹25'31	1.42251 AU	evening rise	4510 Nov 05 05:50	22°M43'51	
desc. node	4509 Nov 19 15:47	4° <b>∡</b> °07'38		desc. node	4510 Nov 06 12:47	24° <b>M</b> 51'47	
evening rise	4509 Nov 24 14:00	12° <b>₹</b> 05'22			4510 Nov 09 16:52	0°⊀	
	4509 Dec 06 06:43	ರ°ರ			4510 Nov 30 06:22	ರ°ರ	
evening max el	4509 Dec 27 08:32	27° <b>る</b> 45'00	22°21'09	evening max el	4510 Dec 09 22:58	11° <b>る</b> 22'32	23°41'06
	4509 Dec 29 18:10	0° <b>≈</b>		retrograde	4510 Dec 20 17:16	17° <b>る</b> 43'49	
retrograde	4510 Jan 05 23:50	3° <b>≈</b> 29′00		evening set	4510 Dec 25 19:41	15° <b>る</b> 36'47	
asc. node	4510 Jan 09 21:37	2° <b>≈</b> 08'21		asc. node	4510 Dec 27 18:40	13° <b>る</b> 39'38	
evening set	4510 Jan 10 13:41	1° <b>≈</b> 37'44		min. Earth dist.	4510 Dec 30 16:16	9° <b>る</b> 57'28	0.67944 AU
	4510 Jan 12 06:10	30°Rる		inferior conj	4510 Dec 31 05:49	9° <b>ರ</b> 11'14	1°09'07
inferior conj	4510 Jan 15 22:09	25°る16'23	1°55'16	minimum elong	4510 Dec 31 04:17	9°る16'28	1°08'32
minimum elong	4510 Jan 15 19:56	25° <b>る</b> 24'05	1°54'30	morning rise	4511 Jan 05 12:51	3° <b>そ</b> 05'39	
min. Earth dist.	4510 Jan 15 19:33	25° <b>る</b> 25'25	0.68044 AU	direct	4511 Jan 09 15:16	1°る31'01	20050110
morning rise	4510 Jan 21 02:04 4510 Jan 25 18:31	19°る06'18 17°る08'58		morning max el desc. node	4511 Jan 17 20:54	6°る15'49 26°る39'26	20°50'19
direct morning max el	4510 Feb 04 03:21	17 008 38 22° <b>る</b> 39'13	22011108	desc. node	4511 Feb 02 12:03 4511 Feb 04 18:37	20 <b>⊘</b> 3920	
morning max ci	4510 Feb 10 12:20	0° <b>≈</b>	22 1108	morning set	4511 Feb 16 15:12	0 ∞ 18°≈02'27	
desc. node	4510 Feb 15 15:03	6°≈46'56		morning sec	4511 Feb 24 04:00	0° <b>∀</b>	
dese. Hode	4510 Mar 03 09:03	0° <b>∀</b>		max. Earth dist.	4511 Feb 24 23:25		1.42911 AU
morning set	4510 Mar 09 08:59	9° <b>)</b> 30′51		man. Darin digi.	1011100 21 20.20	1 /(1050	12,11110
max. Earth dist.	4510 Mar 14 19:36	18° <b>)</b> 29′21	1.40972 AU	superior conj	4511 Mar 03 20:36	12° <b>)</b> 42'12	-2°08'13
	4510 Mar 21 11:51	$0$ ° $\Upsilon$		minimum elong	4511 Mar 03 20:58	12° <b>)</b> 43'41	
				C	4511 Mar 13 19:53	$0^{\circ}$ Y	
superior conj	4510 Mar 22 14:03	1° <b>Y</b> 56'14	-1°59'29	evening rise	4511 Mar 15 17:21	3° <b>Y</b> 22'10	
minimum elong	4510 Mar 22 18:06	2° <b>Y</b> 14'20	1°59'14	asc. node	4511 Mar 25 17:57	20° <b>Y</b> 42'16	
evening rise	4510 Apr 01 22:42	20° <b>Y</b> 57'34		evening max el	4511 Apr 01 15:12	29° <b>Y</b> ′52'39	18°06'43
	4510 Apr 06 20:11	$0^{\circ}$ 8			4511 Apr 01 18:12	$0^{\circ}$ 8	
asc. node	4510 Apr 07 20:55	1° <b>8</b> 50'46		retrograde	4511 Apr 08 04:47	3° <b>8</b> 15'18	
evening max el	4510 Apr 18 03:40	16° <b>8</b> 49'18	18°16'50	evening set	4511 Apr 10 21:34	2° <b>8</b> 40'51	
retrograde	4510 Apr 25 06:59	20° <b>8</b> 23'15			4511 Apr 14 21:50	30° <b>₹</b> Υ	
evening set	4510 Apr 27 17:18	19° <b>8</b> 59'21		inferior conj	4511 Apr 17 09:22	27° <b>Y</b> 39'33	3°14'40
inferior conj	4510 May 04 20:31	15° <b>8</b> 18'17	2°31'39	minimum elong	4511 Apr 17 11:46		3°14'19
minimum elong	4510 May 05 00:04	15° <b>8</b> 10'38	2°30'45	min. Earth dist.	4511 Apr 20 11:58	24° <b>Y</b> 36'12	0.61451 AU
min. Earth dist.	4510 May 08 06:42	12° <b>5</b> 23'06	0.59255 AU	morning rise	4511 Apr 24 00:06	21° <b>Y</b> 42'04	

direct	4511 Apr 30 18:46	19° <b>Ƴ</b> 21'16		minimum elong	4512 Mar 30 14:02	10° <b>Y</b> 27'54	3°33'07
desc. node	4511 May 01 11:17	19° <b>Υ</b> 22'39		min. Earth dist.	4512 Apr 02 02:06	7° <b>Υ</b> 41'26	0.63502 AU
morning max el	4511 May 14 23:39		27°50'53	morning rise	4512 Apr 05 14:06	4°Υ22'18	
5 5	4511 May 17 12:41	0°8		direct	4512 Apr 12 11:01	1° <b>Y</b> 39'53	
	4511 Jun 07 04:26	0° <b>I</b> I		desc. node	4512 Apr 17 08:18	2° <b>Y</b> 50'35	
morning set	4511 Jun 17 01:31	18° <b>Ⅱ</b> 51'27		morning max el	4512 Apr 26 07:21	9° <b>Y</b> 38'21	27°42'52
asc. node	4511 Jun 21 17:12	28° <b>Ⅲ</b> 39'49			4512 May 12 04:22	$9^{\circ}$ 8	
	4511 Jun 22 08:03	0°9			4512 May 29 11:45	$\Pi^{\circ}0$	
max. Earth dist.	4511 Jun 22 22:15	1°9517'04	1.32205 AU	morning set	4512 May 30 22:39	2° <b>Ⅱ</b> 52'27	
				max. Earth dist.	4512 Jun 05 02:11	13° <b>Ⅱ</b> 27'35	1.32871 AU
superior conj	4511 Jun 24 10:34	4°935'17	0°28'12				
minimum elong	4511 Jun 24 09:19	4° <b>©</b> 28'25	0°27'55	superior conj	4512 Jun 07 17:54	19° <b>Ⅱ</b> 07′20	0°01'37
evening rise	4511 Jul 01 06:56	19° <b>©</b> 30'11		minimum elong	4512 Jun 07 17:49	19° <b>Ⅱ</b> 06'54	0°01'35
	4511 Jul 06 09:36	$0^{\circ}\Omega$		behind sun begin	4512 Jun 07 12:32	18° <b>∏</b> 38′28	
	4511 Jul 26 07:39	0° <b>m</b>		behind sun end	4512 Jun 07 23:07	19° <b>Ⅲ</b> 35′22	
evening max el	4511 Jul 27 02:12	0° m/45'29	24°46'24	asc. node	4512 Jun 07 14:13	18° <b>Ⅱ</b> 47'30	
desc. node	4511 Jul 28 10:31	1° m 59'50			4512 Jun 12 18:42	0°95	
retrograde	4511 Aug 10 00:14	7° Mp 47'20		evening rise	4512 Jun 14 18:43	4°916'40	
evening set min. Earth dist.	4511 Aug 15 06:30	6° Mp 44'50	0.57072 AU	avanina may al	4512 Jun 28 15:45 4512 Jul 07 15:05	0°Ω 11°Ω10'25	22910/05
inferior conj	4511 Aug 20 13:35 4511 Aug 23 09:45	2° Mp 06'04		evening max el desc. node	4512 Jul 14 07:33	11 <b>δ</b> €10 23	23 10 03
minimum elong	4511 Aug 23 09:20	2° m 06'46		retrograde	4512 Jul 21 01:50	10 <b>δ2</b> 09 20	
minimum ciong	4511 Aug 26 18:54	2 11,000 40 30°RΩ	3 1331	evening set	4512 Jul 24 19:52	17° <b>Ω</b> 22'47	
morning rise	4511 Aug 31 14:36	27° <b>Ω</b> 59'07		min. Earth dist.	4512 Aug 01 00:19	14°Ω07'32	0.55579 AU
direct	4511 Sep 03 05:05	27° <b>Ω</b> 40'04		inferior conj	4512 Aug 02 18:26	13° <b>Ω</b> 06'09	
	4511 Sep 09 23:58	0° m/		minimum elong	4512 Aug 02 11:53	13° <b>Ω</b> 15'44	
morning max el	4511 Sep 12 10:42	2° m 00'05	19°19'01	morning rise	4512 Aug 11 06:11	9° <b>Ω</b> 14'00	
asc. node	4511 Sep 17 16:26	8° m 13'48		direct	4512 Aug 14 04:19	8° <b>Ω</b> 53'33	
morning set	4511 Sep 29 13:09	29° m 23'05		morning max el	4512 Aug 24 22:37	13° <b>Ω</b> 53'37	20°31'23
	4511 Sep 29 20:33	0∘ <b>亚</b>		asc. node	4512 Sep 03 13:27	26° <b>Ω</b> 30'19	
					4512 Sep 05 14:03	0° <b>™</b>	
superior conj	4511 Oct 07 15:55	15° <b>≏</b> 31'38	1°37'53	morning set	4512 Sep 12 19:25	14° Mp 02'02	
minimum elong	4511 Oct 07 17:57	15° <b>≏</b> 41'35	1°37'45				
max. Earth dist.	4511 Oct 14 02:33	27° <b>£</b> 42'17	1.38171 AU	superior conj	4512 Sep 20 08:30	29° <b>m</b> 35'08	1°43'42
	4511 Oct 15 08:55	0°M		minimum elong	4512 Sep 20 08:55	29° <b>m</b> 37'17	1°43'42
evening rise	4511 Oct 17 20:58	4°M26'51		F 4 F	4512 Sep 20 13:23	0∘ <b>⊽</b>	1.00000 177
desc. node	4511 Oct 24 09:48	15°M29'41		max. Earth dist.	4512 Sep 25 09:48	9° <b>£</b> 37'55	1.36206 AU
	4511 Nov 02 18:15	0° <b>⊼</b> 7	24050127	evening rise	4512 Sep 29 08:34	17° <b>≏</b> 06'01	
evening max el	4511 Nov 22 11:44 4511 Nov 28 12:29	25° <b>メ</b> 04'44 0° <b>る</b>	24°58'37	desc. node	4512 Oct 06 16:11 4512 Oct 10 06:50	0°M 5°M55'53	
retrograde	4511 Nov 28 12.29 4511 Dec 04 06:33	0 3 1° <b>る</b> 54'46		desc. node	4512 Oct 10 06.50 4512 Oct 27 02:58	o iicoo oo	
retrograde	4511 Dec 04 00:33 4511 Dec 09 09:12	30°R.✓		evening max el	4512 Nov 04 00:22	8° <b>∡</b> ¹47'57	26°06'35
evening set	4511 Dec 09 22:32	29° <b>х</b> 33'04		retrograde	4512 Nov 16 14:50	15° <b>×</b> <sup>7</sup> 56'08	20 00 33
min. Earth dist.	4511 Dec 14 11:17	24° <b>×</b> <sup>7</sup> 27'45	0.67498 AU	evening set	4512 Nov 22 20:28	13° <b>₹</b> 22'26	
asc. node	4511 Dec 14 15:40	24° <b>∡</b> 13′23		min. Earth dist.	4512 Nov 27 02:06	8° <b>≯</b> 52'26	0.66701 AU
inferior conj	4511 Dec 15 11:35	23° <b>х</b> 07′50	0°16'57	inferior conj	4512 Nov 28 13:36	7° <b>∡</b> °02′22	-0°40'14
minimum elong	4511 Dec 15 11:10	23° <b>₹</b> 09'13	0°16'47	minimum elong	4512 Nov 28 14:41	6° <b>₹</b> 59'01	0°39'46
morning rise	4511 Dec 20 23:59	17° <b>∡</b> 08'53		asc. node	4512 Nov 30 12:41	4° <b>х</b> 40′43	
direct	4511 Dec 24 13:48	15° <b>≯</b> 55'13		morning rise	4512 Dec 04 09:23	1° <b>≯</b> 12'42	
morning max el	4511 Dec 31 22:19	20° <b>∡</b> 03'55	19°42'03	direct	4512 Dec 07 12:26	0° <b>≯</b> 16'52	
	4512 Jan 08 22:57	0°ಕ		morning max el	4512 Dec 14 07:08	4° <b>∡</b> °00'53	18°49'05
greatest brilliancy	4512 Jan 14 01:10	7° <b>る</b> 21'13	-0.7m		4513 Jan 01 13:47	0° <b>ろ</b>	
desc. node	4512 Jan 20 09:04	16° <b>ප</b> 52'42		morning set	4513 Jan 04 22:40	5°る17'23	
morning set	4512 Jan 26 11:17	26° <b>ප</b> 13'17		desc. node	4513 Jan 06 06:06	7°る20'47	1 45152 411
max. Earth dist.	4512 Jan 28 21:54 4512 Feb 07 10:47	0° <b>≈</b> 14° <b>≈</b> 57'01	1.44371 AU	max. Earth dist.	4513 Jan 20 04:04 4513 Jan 20 16:50	29°る09'52 0°≈	1.45173 AU
max. Earm dist.	4312 100 07 10.47	14 🗫 3 / 01	1.443/1 AU		4515 Jan 20 10.50	0 ~	
superior conj	4512 Feb 12 01:26	22° <b>≈</b> 19'34	-2°00'12	superior conj	4513 Jan 21 09:18	1° <b>≈</b> 04'44	-1°32'29
minimum elong	4512 Feb 11 19:40	22 ≈1934 21°≈56'21		minimum elong	4513 Jan 20 23:58	0°≈28'02	
	4512 Feb 16 18:35	0° <b>∀</b>		evening rise	4513 Feb 05 17:07	25°≈28'21	
evening rise	4512 Feb 25 16:36	14° <b>)</b> 53'38			4513 Feb 08 12:23	0° <b>∀</b>	
<i>5</i>	4512 Mar 05 16:28	0°Υ		asc. node	4513 Feb 26 11:58	26° <b>∺</b> 29'18	
asc. node	4512 Mar 11 14:58	8° <b>Y</b> 58'35		evening max el	4513 Feb 26 15:27	26° <b>)</b> 38′12	18°42'41
evening max el	4512 Mar 15 04:02	13° <b>Y</b> 11'08	18°15'37	-	4513 Mar 03 09:54	$0^{\circ}\mathbf{\Upsilon}$	
retrograde	4512 Mar 21 14:07	16° <b>Ƴ</b> 36'47		retrograde	4513 Mar 05 06:53	0° <b>Ƴ</b> 19′28	
evening set	4512 Mar 24 12:59	15° <b>Ƴ</b> 50′29			4513 Mar 07 03:09	30° <b>₹</b> ₩	
inferior conj	4512 Mar 30 13:20	10° <b>Y</b> 29'51	3°33'08	evening set	4513 Mar 08 12:03	29° <b>)</b> €20'31	

inferior conj	4513 Mar 14 04:31	23° <b>¥</b> 42'06	3°32'58	minimum elong	4514 Feb 26 01:43	7° <b>¥</b> 16'19	3°18'20
minimum elong	4513 Mar 14 03:43	23° <b>)</b> (44'35	3°32'55	min. Earth dist.	4514 Feb 27 09:35	5° <b>¥</b> 32'17	0.66548 AU
min. Earth dist.	4513 Mar 16 01:37	21° <b>)</b> 24'40	0.65226 AU	morning rise	4514 Mar 03 11:07	0° <b>¥</b> 55'59	
morning rise	4513 Mar 19 18:54	17° <b>¥</b> 29'39		5 5	4514 Mar 04 14:24	30°R≈	
direct	4513 Mar 26 10:24	14° <b>)</b> 39′25		direct	4514 Mar 09 16:05	28° <b>≈</b> 10'32	
desc. node	4513 Apr 04 05:19	18° <b>¥</b> 25'38			4514 Mar 15 08:11	0° <b>₩</b>	
morning max el	4513 Apr 08 17:16	22° <b>)</b> 27'51	27°01'19	morning max el	4514 Mar 22 03:01	5° <b>升</b> 35'45	25°53'51
C	4513 Apr 15 08:27	$0^{\circ}\mathbf{\Upsilon}$		desc. node	4514 Mar 22 02:22	5° <b>)</b> 34′07	
	4513 May 05 10:25	$9^{\circ}$ 8			4514 Apr 09 22:04	$0$ ° $\mathbf{\Upsilon}$	
morning set	4513 May 14 10:03	16° <b>8</b> 21'17		morning set	4514 Apr 27 07:40	29° <b>Ƴ</b> 05'55	
max. Earth dist.	4513 May 18 20:54	25° <b>8</b> 09'01	1.33995 AU	•	4514 Apr 27 19:22	0° <b>႘</b>	
	4513 May 21 05:44	$\Pi^{\circ}0$		max. Earth dist.	4514 May 01 04:06	6° <b>8</b> 20'47	1.35576 AU
	451234 22 20 01	2011.011.6	0007107		451434 06 14 21	170 170	0056125
superior conj	4513 May 22 20:01 4513 May 22 21:27	3° <b>Ⅱ</b> 19'16 3° <b>Ⅱ</b> 26'45		superior conj	4514 May 06 14:21 4514 May 06 17:26	17° <b>8</b> 03'17	0°56'00
minimum elong asc. node	4513 May 25 11:15	8° <b>П</b> 52'38	0 2046	minimum elong asc. node	4514 May 12 08:18	28° <b>8</b> 50'28	0 30 00
evening rise	4513 May 30 05:09	18° <b>I</b> I54'41		asc. node	4514 May 12 08:18	0°II	
evening rise	4513 Jun 04 17:08	0°95		evening rise	4514 May 14 12:08	3° <b>Ⅱ</b> 17'03	
evening max el	4513 Jun 19 08:49	21° <b>©</b> 40'22	21°35'40	evening rise	4514 May 30 01:52	0°9	
desc. node	4513 Jul 01 04:33	21°940'22 27°945'22	21 33 40	evening max el	4514 Jun 01 13:38	2° <b>9</b> 42'18	20°14'54
retrograde	4513 Jul 01 04:53	27°945'59		retrograde	4514 Jun 12 06:44	7°956'24	20 14 34
evening set	4513 Jul 04 04:58	27° <b>9</b> 31'47		evening set	4514 Jun 14 05:42	7°936'39	
inferior conj	4513 Jul 13 13:38	27 S3147 23°S30'57	-3°28'13	desc. node	4514 Jun 18 01:35	6°936'59	
minimum elong	4513 Jul 13 05:07	23° <b>©</b> 42'51		inferior conj	4514 Jun 23 08:34	3°948'07	1034'16
min. Earth dist.	4513 Jul 13 10:36	23° <b>©</b> 35'10	0.54850 AU	minimum elong	4514 Jun 23 04:08	3°954'39	
morning rise	4513 Jul 22 06:24	19° <b>©</b> 38'00	0.54650 AC	min. Earth dist.	4514 Jun 24 22:44	2° <b>9</b> 51'49	
direct	4513 Jul 25 14:47	19° <b>©</b> 13'37		iiiii. Eartii tist.	4514 Jun 30 16:43	2 <b>⊙</b> 31 49 30°R <b>Ⅱ</b>	0.55000 AU
morning max el	4513 Aug 06 22:53	25° <b>©</b> 02'03	22°02'54	morning rise	4514 Jul 02 01:15	29° <b>I</b> I33'29	
morning max ci	4513 Aug 11 12:33	0° <b>Ω</b>	22 02 34	direct	4514 Jul 06 01:26	28° <b>I</b> 58'40	
asc. node	4513 Aug 21 10:30	15° <b>Ω</b> 24'08		uncet	4514 Jul 11 07:12	0°95	
morning set	4513 Aug 28 05:15	28° <b>Ω</b> 51'00		morning max el	4514 Jul 19 15:01	5° <b>93</b> 5'51	23°45'40
morning set	4513 Aug 28 18:26	0° m		morning max ci	4514 Aug 05 19:58	0° <b>Ω</b>	23 43 40
	4515 Aug 26 16.20	V III		asc. node	4514 Aug 08 07:34	4° <b>Ω</b> 45'38	
superior conj	4513 Sep 04 09:41	14° <b>m</b> 03'49	1°42'09	morning set	4514 Aug 12 16:48	13° <b>Ω</b> 44'25	
minimum elong	4513 Sep 04 09:41 4513 Sep 04 08:46	13° Mp 58'57	1°42'07	morning set	4314 Aug 12 10.46	13 6644 23	
max. Earth dist.	4513 Sep 04 00:40 4513 Sep 08 00:17	21°m/33'12		superior conj	4514 Aug 19 16:37	28° <b>Ω</b> 48'48	1°34'24
max. Darm dist.	4513 Sep 12 06:03	0ಂ <del>ರ</del>	1.5 15 17 110	minimum elong	4514 Aug 19 14:46	28° <b>Ω</b> 38'51	1°34'15
evening rise	4513 Sep 12 12:22	o° <b>—</b> 0° <b>—</b> 30'34		minimum ciong	4514 Aug 20 05:49	0° <b>m</b> )	1 3 1 13
desc. node	4513 Sep 27 03:51	26° <b>₽</b> 04'28		max. Earth dist.	4514 Aug 21 23:30		1.33283 AU
	4513 Sep 29 17:22	0° <b>M</b> ,		evening rise	4514 Aug 27 04:18	14° <b>m</b> ) 29'45	
evening max el	4513 Oct 17 13:01	22°M24'20	26°57'31	· · · · · · · · · · · · · · · · · · ·	4514 Sep 04 08:59	0∘ <b>⊽</b>	
retrograde	4513 Oct 30 17:39	29° <b>M</b> .41'09		desc. node	4514 Sep 14 00:52	15° <b>≏</b> 47'53	
evening set	4513 Nov 06 11:26	27°ML00'39			4514 Sep 24 15:30	0° <b>M</b>	
min. Earth dist.	4513 Nov 10 10:26	23°M06'26	0.65547 AU	evening max el	4514 Sep 30 00:44	5°M43'29	27°24'23
inferior conj	4513 Nov 12 09:47	20°M50'36		retrograde	4514 Oct 13 14:39	13°ML01'38	
minimum elong	4513 Nov 12 12:38	20°M42'23		evening set	4514 Oct 20 16:49	10°ML22'47	
asc. node	4513 Nov 17 09:43	15°M56'32		min. Earth dist.	4514 Oct 24 10:13		0.64045 AU
morning rise	4513 Nov 18 14:45	15°ML13'08		inferior conj	4514 Oct 26 21:43	4° <b>ጤ</b> 27'26	-2°43'29
direct	4513 Nov 21 09:07	14°M31'27		minimum elong	4514 Oct 27 02:23	4° <b>ጤ</b> 15'16	2°41'47
morning max el	4513 Nov 27 21:16	18°ML01'26	18°12'33	_	4514 Oct 31 20:35	30° <b>₹</b> Ω	
-	4513 Dec 06 19:30	0° <b>∡</b> ¹		morning rise	4514 Nov 02 13:18	29° <b>≏</b> 05'14	
morning set	4513 Dec 16 14:48	15° <b>∡</b> ¹49'05		asc. node	4514 Nov 04 06:47	28° <b>♀</b> 36'55	
desc. node	4513 Dec 24 03:08	27° <b>₹</b> ¹58'58		direct	4514 Nov 05 01:22	28° <b>♀</b> 33'53	
	4513 Dec 25 09:22	0°రె			4514 Nov 09 05:12	0° <b>M</b>	
				morning max el	4514 Nov 11 13:57	1°M59'04	17°53'03
superior conj	4513 Dec 31 12:50	9° <b>ප</b> 45'11	-0°49'29	morning set	4514 Nov 28 10:47	27°M42'18	
minimum elong	4513 Dec 31 06:39	9° <b>ට</b> 20'51	0°48'41	-	4514 Nov 29 19:02	0° <b>∡</b> ¹	
max. Earth dist.	4514 Jan 02 23:40	13° <b>る</b> 36'37	1.45233 AU				
	4514 Jan 13 11:24	0° <b>≈</b>		superior conj	4514 Dec 11 08:10	19° <b>∡</b> 16′08	-0°02'20
evening rise	4514 Jan 16 19:23	5° <b>≈</b> 11'32		minimum elong	4514 Dec 11 07:54		0°02'17
greatest brilliancy	4514 Jan 28 20:01	23° <b>≈</b> 47'10	-0.7m	behind sun begin	4514 Dec 10 21:59	18° <b>∡</b> ³34'44	
,	4514 Feb 02 00:32	0° <b>)</b> €		behind sun end	4514 Dec 11 17:50	19° <b>∡</b> 55′22	
evening max el	4514 Feb 09 23:14	10° <b>)</b> 09′03	19°26'44	desc. node	4514 Dec 11 00:10	18° <b>∡</b> ⁴43'35	
asc. node	4514 Feb 13 09:01	13° <b>∺</b> 01'19		max. Earth dist.	4514 Dec 16 18:06	27° <b>∡</b> 757'54	1.44561 AU
retrograde	4514 Feb 17 03:44	14° <b>)</b> 16′40			4514 Dec 18 00:56	0°ರ	
evening set	4514 Feb 20 16:04	13° <b>)</b> €04'21		evening rise	4514 Dec 27 07:05	14° <b>♂</b> 24'56	
inferior conj	4514 Feb 26 03:34	7° <b>ℋ</b> 10'17	3°18'38	-	4515 Jan 06 13:33	0° <b>≈</b>	
ū							

	4515 1 24 02 02	220 - 12102	20025140	,	4516 1 10 02 05	100 - 10114	
evening max el	4515 Jan 24 02:02	23°≈42'03	20°25'48	asc. node	4516 Jan 18 03:07	12°≈12'14	
asc. node	4515 Jan 31 06:03	28° <b>≈</b> 20'21		evening set	4516 Jan 20 06:39	10° <b>≈</b> 55'14	
retrograde	4515 Feb 01 01:59	28° <b>≈</b> 24'05		inferior conj	4516 Jan 25 14:51	4° <b>≈</b> 38'16	2°18'40
evening set	4515 Feb 04 22:53	26° <b>≈</b> 57'28		minimum elong	4516 Jan 25 12:26	4° <b>≈</b> 46'38	2°17'55
inferior conj	4515 Feb 10 07:47	20° <b>≈</b> 50′26	2°53'11	min. Earth dist.	4516 Jan 25 18:55	4° <b>≈</b> 24'07	0.67944 AU
minimum elong	4515 Feb 10 05:25	20° <b>≈</b> 58'32	2°52'37		4516 Jan 29 04:38	30°Rる	
min. Earth dist.	4515 Feb 11 00:10	19° <b>≈</b> 54'38	0.67450 AU	morning rise	4516 Jan 30 18:01	28° <b>る</b> 26'15	
morning rise	4515 Feb 15 11:43	14° <b>≈</b> 36′22		direct	4516 Feb 04 19:01	26° <b>る</b> 15'33	
direct	4515 Feb 21 03:16	12° <b>≈</b> 05'17			4516 Feb 12 11:38	0° <b>≈</b>	
morning max el	4515 Mar 04 11:42	18° <b>≈</b> 52'30	24°30'19	morning max el	4516 Feb 14 21:00	2°≈14'22	23°01'08
desc. node	4515 Mar 08 23:25	23° <b>≈</b> 49'51		desc. node	4516 Feb 23 20:26	12°≈53'09	
	4515 Mar 13 21:30	0° <b>∀</b>			4516 Mar 06 22:27	0° <b>)</b> €	
	4515 Apr 03 00:41	0° <b>Υ</b>		morning set	4516 Mar 20 11:44	21° <b>)</b> 24'28	
morning set	4515 Apr 09 10:15	10° <b>Y</b> ′52'19		max. Earth dist.	4516 Mar 24 20:46	28° <b>)</b> (49'13	1.39736 AU
max. Earth dist.	4515 Apr 13 01:41		1.37553 AU	max. Lartii dist.	4516 Mar 25 13:08	20 <b>γ</b> (4)13	1.37/30 AC
max. Latin dist.	4313 Apr 13 01.41	17   22 13	1.57555 AC		4310 Wai 23 13.00	0 1	
aumorior comi	4515 Amr. 10 21:45	0° <b>8</b> 11'40	1924/52	aumorior aomi	4516 Apr 01 14:08	12° <b>Y</b> ′34'33	1940/01
superior conj	4515 Apr 19 21:45			superior conj			
minimum elong	4515 Apr 20 02:13	0° <b>8</b> 33'14	1°24'13	minimum elong	4516 Apr 01 18:56	12° <b>Y</b> 56'36	1°48'35
	4515 Apr 19 19:20	0° <b>8</b>			4516 Apr 10 19:37	0° <b>8</b>	
evening rise	4515 Apr 28 13:18	17° <b>8</b> 17'20		evening rise	4516 Apr 11 05:40	0° <b>8</b> 48'06	
asc. node	4515 Apr 29 05:21	18° <b>8</b> 36'55		asc. node	4516 Apr 15 02:24	8° <b>8</b> 07'22	
	4515 May 05 04:33	$\Pi$ $^{\circ}0$		evening max el	4516 Apr 27 09:52	26° <b>8</b> 49'10	18°31'37
evening max el	4515 May 15 06:47	14° <b>Ⅱ</b> 26′25	19°13'07		4516 May 02 00:24	$\Pi$ $\circ 0$	
retrograde	4515 May 24 07:08	18° <b>Ⅱ</b> 50'11		retrograde	4516 May 05 02:00	0°Ⅲ36′11	
evening set	4515 May 26 07:16	18° <b>Ⅲ</b> 38′04		evening set	4516 May 07 08:34	0° <b>Ⅱ</b> 17′20	
inferior conj	4515 Jun 03 17:02	14° <b>Ⅲ</b> 28'11	0°21'41		4516 May 08 06:11	30° <b>₹</b> 8	
minimum elong	4515 Jun 03 17:56	14° <b>Ⅱ</b> 26'40	0°21'21	inferior conj	4516 May 14 22:21	25° <b>8</b> 48'16	1°53'21
desc. node	4515 Jun 04 22:38	13° <b>Ⅲ</b> 38'19		minimum elong	4516 May 15 01:47	25° <b>8</b> 41'30	1°52'18
min. Earth dist.	4515 Jun 06 13:34	12° <b>Ⅱ</b> 33'49	0.56208 AU	min. Earth dist.	4516 May 18 08:05	23° <b>8</b> 09'12	0.58035 AU
morning rise	4515 Jun 12 01:28	9° <b>Ⅱ</b> 38'56		desc. node	4516 May 21 19:40	20° <b>8</b> 51'45	
direct	4515 Jun 17 00:03	8° <b>I</b> I42'27		morning rise	4516 May 22 15:49	20° <b>8</b> 25'26	
morning max el	4515 Jul 01 04:53	15° <b>I</b> 57'52	25°26'00	direct	4516 May 28 12:58	18° <b>8</b> 57'11	
morning max ci	4515 Jul 12 13:03	13 <b>H</b> 37 32	23 20 00	morning max el	4516 Jun 11 22:07	26° <b>8</b> 36'28	26°47'56
1-				morning max er		20 <b>Ο</b> 30 28	20 47 30
asc. node	4515 Jul 26 04:37	24°526'56			4516 Jun 15 03:28		
morning set	4515 Jul 28 04:23	28°536'39			4516 Jul 04 21:55	0°©	
	4515 Jul 28 20:04	$0$ $^{\circ}\Omega$		morning set	4516 Jul 11 14:26	13°522'59	
				asc. node	4516 Jul 12 01:39	14° <b>©</b> 22'14	
superior conj	4515 Aug 04 02:54		1°21'23				
minimum elong	4515 Aug 04 00:37	13° <b>Ω</b> 29'26	1°21'04	superior conj	4516 Jul 18 14:39	28° <b>©</b> 37'13	
max. Earth dist.	4515 Aug 05 06:01	16° <b>Ω</b> 10′28	1.32445 AU	minimum elong	4516 Jul 18 12:24	28° <b>©</b> 24'49	1°03'23
evening rise	4515 Aug 11 04:53	28° <b>Ω</b> 53'10		max. Earth dist.	4516 Jul 18 16:50	28° <b>©</b> 49'19	1.32030 AU
	4515 Aug 11 17:52	0° <b>m</b> y			4516 Jul 19 05:38	$0^{\circ}\Omega$	
	4515 Aug 28 12:55	0∘ <b>⊽</b>			4310 Jul 17 03.30	o 00	
desc. node		0 ==		evening rise	4516 Jul 25 11:25	13° <b>Ω</b> 32'38	
evening max el	4515 Aug 31 21:54	0 <u>≈</u> 4° <b>Ω</b> 55'04		evening rise			
cvennig max ci	4515 Aug 31 21:54 4515 Sep 12 09:35		27°21'12	evening rise  desc. node	4516 Jul 25 11:25	13° <b>Ω</b> 32'38	
=	- C	4° <b>£</b> 55'04	27°21'12	-	4516 Jul 25 11:25 4516 Aug 02 19:25 4516 Aug 17 18:56	13° <b>Ω</b> 32'38 0° <b>m</b>	
retrograde	4515 Sep 12 09:35 4515 Sep 26 04:59	4° <b>£</b> 55'04 18° <b>£</b> 32'32 25° <b>£</b> 47'15	27°21'12	desc. node	4516 Jul 25 11:25 4516 Aug 02 19:25 4516 Aug 17 18:56 4516 Aug 23 20:34	13° <b>Q</b> 32'38 0° <b>m</b> 23° <b>m</b> 11'14	26°44'33
retrograde evening set	4515 Sep 12 09:35 4515 Sep 26 04:59 4515 Oct 03 09:06	4° <b>Ω</b> 55'04 18° <b>Ω</b> 32'32 25° <b>Ω</b> 47'15 23° <b>Ω</b> 21'32		desc. node	4516 Jul 25 11:25 4516 Aug 02 19:25 4516 Aug 17 18:56 4516 Aug 23 20:34 4516 Aug 24 12:56	13° <b>Ω</b> 32'38 0° M 23° M 11'14 0° <u>Ω</u>	26°44'33
retrograde evening set min. Earth dist.	4515 Sep 12 09:35 4515 Sep 26 04:59 4515 Oct 03 09:06 4515 Oct 06 23:53	4° <b>£</b> 55'04 18° <b>£</b> 32'32 25° <b>£</b> 47'15 23° <b>£</b> 21'32 20° <b>£</b> 28'55	0.62235 AU	desc. node evening max el retrograde	4516 Jul 25 11:25 4516 Aug 02 19:25 4516 Aug 17 18:56 4516 Aug 23 20:34 4516 Aug 24 12:56 4516 Sep 07 11:10	13° <b>(</b> 32'38 0° <b>m</b> 23° <b>m</b> 11'14 0° <b>\Omega</b> 0° <b>\Omega</b> 39'25 7° <b>\Omega</b> 49'22	26°44'33
retrograde evening set min. Earth dist. inferior conj	4515 Sep 12 09:35 4515 Sep 26 04:59 4515 Oct 03 09:06 4515 Oct 06 23:53 4515 Oct 09 22:25	4° <b>\Omega</b> 55'04 18° <b>\Omega</b> 32'32 25° <b>\Omega</b> 47'15 23° <b>\Omega</b> 21'32 20° <b>\Omega</b> 28'55 17° <b>\Omega</b> 45'08	0.62235 AU -3°43'50	desc. node evening max el retrograde evening set	4516 Jul 25 11:25 4516 Aug 02 19:25 4516 Aug 17 18:56 4516 Aug 23 20:34 4516 Aug 24 12:56 4516 Sep 07 11:10 4516 Sep 14 07:46	13° A 32'38 0° M 23° M 11'14 0° <u>മ</u> 0° <u>മ</u> 39'25 7° <u>മ</u> 49'22 5° <u>മ</u> 49'16	
retrograde evening set min. Earth dist. inferior conj minimum elong	4515 Sep 12 09:35 4515 Sep 26 04:59 4515 Oct 03 09:06 4515 Oct 06 23:53 4515 Oct 09 22:25 4515 Oct 10 04:22	4° <b>£</b> 55'04 18° <b>£</b> 32'32 25° <b>£</b> 47'15 23° <b>£</b> 21'32 20° <b>£</b> 28'55 17° <b>£</b> 45'08 17° <b>£</b> 31'17	0.62235 AU -3°43'50	desc. node evening max el retrograde evening set min. Earth dist.	4516 Jul 25 11:25 4516 Aug 02 19:25 4516 Aug 17 18:56 4516 Aug 23 20:34 4516 Aug 24 12:56 4516 Sep 07 11:10 4516 Sep 14 07:46 4516 Sep 18 02:56	13° റ32'38 0° സ 23° സ 11'14 0° ഇ 0° ഇ39'25 7° ഇ49'16 3° ഇ12'35	0.60216 AU
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	4515 Sep 12 09:35 4515 Sep 26 04:59 4515 Oct 03 09:06 4515 Oct 06 23:53 4515 Oct 09 22:25 4515 Oct 10 04:22 4515 Oct 17 01:23	4° № 55'04 18° № 32'32 25° № 47'15 23° № 21'32 20° № 28'55 17° № 45'08 17° № 31'17 12° № 41'19	0.62235 AU -3°43'50	desc. node evening max el retrograde evening set min. Earth dist. inferior conj	4516 Jul 25 11:25 4516 Aug 02 19:25 4516 Aug 17 18:56 4516 Aug 23 20:34 4516 Aug 24 12:56 4516 Sep 07 11:10 4516 Sep 14 07:46 4516 Sep 18 02:56 4516 Sep 21 08:28	13° A 32'38 0° M 23° M 11'14 0° മ 0° മ39'25 7° മ49'22 5° മ49'16 3° മ12'35 0° മ34'58	0.60216 AU -4°35'48
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	4515 Sep 12 09:35 4515 Sep 26 04:59 4515 Oct 03 09:06 4515 Oct 06 23:53 4515 Oct 09 22:25 4515 Oct 10 04:22 4515 Oct 17 01:23 4515 Oct 19 09:58	4° \$\Omega 55'04 18° \$\Omega 32'32 25° \$\Omega 47'15 23° \$\Omega 21'32 20° \$\Omega 28'55 17° \$\Omega 45'08 17° \$\Omega 31'17 12° \$\Omega 41'19 12° \$\Omega 16'46	0.62235 AU -3°43'50	desc. node evening max el retrograde evening set min. Earth dist.	4516 Jul 25 11:25 4516 Aug 02 19:25 4516 Aug 17 18:56 4516 Aug 23 20:34 4516 Aug 24 12:56 4516 Sep 07 11:10 4516 Sep 14 07:46 4516 Sep 18 02:56 4516 Sep 21 08:28 4516 Sep 21 14:12	13° \alpha 32'38 0° \text{ m} 23° \text{ m} 11'14 0° \Lapha 0° \Lapha 39'25 7° \Lapha 49'22 5° \Lapha 49'16 3° \Lapha 12'35 0° \Lapha 34'58 0° \Lapha 23'15	0.60216 AU -4°35'48
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	4515 Sep 12 09:35 4515 Sep 26 04:59 4515 Oct 03 09:06 4515 Oct 06 23:53 4515 Oct 09 22:25 4515 Oct 10 04:22 4515 Oct 17 01:23 4515 Oct 19 09:58 4515 Oct 22 03:51	4° \$\Omega 55'04 18° \$\Omega 32'32 25° \$\Omega 47'15 23° \$\Omega 21'32 20° \$\Omega 28'55 17° \$\Omega 45'08 17° \$\Omega 31'17 12° \$\Omega 41'19 12° \$\Omega 16'46 12° \$\Omega 51'08	0.62235 AU -3°43'50 3°42'03	desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	4516 Jul 25 11:25 4516 Aug 02 19:25 4516 Aug 17 18:56 4516 Aug 23 20:34 4516 Aug 24 12:56 4516 Sep 07 11:10 4516 Sep 14 07:46 4516 Sep 18 02:56 4516 Sep 21 08:28 4516 Sep 21 14:12 4516 Sep 22 01:41	13° ቢ32'38 0° ነው 23° ነው 11'14 0°	0.60216 AU -4°35'48
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	4515 Sep 12 09:35 4515 Sep 26 04:59 4515 Oct 03 09:06 4515 Oct 06 23:53 4515 Oct 09 22:25 4515 Oct 10 04:22 4515 Oct 17 01:23 4515 Oct 19 09:58 4515 Oct 22 03:51 4515 Oct 26 06:01	4° \$\Omega 55'04 18° \$\Omega 32'32 25° \$\Omega 47'15 23° \$\Omega 21'32 20° \$\Omega 28'55 17° \$\Omega 45'08 17° \$\Omega 31'17 12° \$\Omega 41'19 12° \$\Omega 16'46 12° \$\Omega 51'08 15° \$\Omega 45'23	0.62235 AU -3°43'50	desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise	4516 Jul 25 11:25 4516 Aug 02 19:25 4516 Aug 17 18:56 4516 Aug 23 20:34 4516 Aug 24 12:56 4516 Sep 07 11:10 4516 Sep 14 07:46 4516 Sep 18 02:56 4516 Sep 21 08:28 4516 Sep 21 14:12 4516 Sep 22 01:41 4516 Sep 28 22:38	13° £ 32'38 0° \$\mathbf{m}\$ 23° \$\mathbf{m}\$ 11'14 0° \$\oldsymbol{\Omega}\$ 0° \$\oldsymbol{\Omega}\$ 39'25 7° \$\oldsymbol{\Omega}\$ 49'16 3° \$\oldsymbol{\Omega}\$ 12'35 0° \$\oldsymbol{\Omega}\$ 23'15 30° \$\mathbf{m}\$\$ 25° \$\mathbf{m}\$\$ 52'35	0.60216 AU -4°35'48
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	4515 Sep 12 09:35 4515 Sep 26 04:59 4515 Oct 03 09:06 4515 Oct 06 23:53 4515 Oct 10 04:22 4515 Oct 17 01:23 4515 Oct 19 09:58 4515 Oct 22 03:51 4515 Oct 26 06:01 4515 Nov 05 04:30	4° \$\Omega 55'04 18° \$\Omega 32'32 25° \$\Omega 47'15 23° \$\Omega 21'32 20° \$\Omega 28'55 17° \$\Omega 45'08 17° \$\Omega 31'17 12° \$\Omega 41'19 12° \$\Omega 16'46 12° \$\Omega 51'08 15° \$\Omega 45'23 0° \$\mathrm{M}\$.	0.62235 AU -3°43'50 3°42'03	desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise direct	4516 Jul 25 11:25 4516 Aug 02 19:25 4516 Aug 17 18:56 4516 Aug 23 20:34 4516 Aug 24 12:56 4516 Sep 07 11:10 4516 Sep 14 07:46 4516 Sep 18 02:56 4516 Sep 21 08:28 4516 Sep 21 14:12 4516 Sep 22 01:41 4516 Sep 28 22:38 4516 Oct 01 07:01	13° £ 32'38 0° m 23° m 11'14 0° Ω 0° Ω 39'25 7° Ω 49'22 5° Ω 49'16 3° Ω 12'35 0° Ω 34'58 0° Ω 23'15 30° R m 25° m 52'35 25° m 31'49	0.60216 AU -4°35'48
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	4515 Sep 12 09:35 4515 Sep 26 04:59 4515 Oct 03 09:06 4515 Oct 06 23:53 4515 Oct 09 22:25 4515 Oct 10 04:22 4515 Oct 17 01:23 4515 Oct 19 09:58 4515 Oct 22 03:51 4515 Oct 26 06:01	4° \$\Omega 55'04 18° \$\Omega 32'32 25° \$\Omega 47'15 23° \$\Omega 21'32 20° \$\Omega 28'55 17° \$\Omega 45'08 17° \$\Omega 31'17 12° \$\Omega 41'19 12° \$\Omega 16'46 12° \$\Omega 51'08 15° \$\Omega 45'23	0.62235 AU -3°43'50 3°42'03	desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise direct asc. node	4516 Jul 25 11:25 4516 Aug 02 19:25 4516 Aug 17 18:56 4516 Aug 23 20:34 4516 Aug 24 12:56 4516 Sep 07 11:10 4516 Sep 14 07:46 4516 Sep 18 02:56 4516 Sep 21 08:28 4516 Sep 21 14:12 4516 Sep 22 01:41 4516 Sep 28 22:38 4516 Oct 01 07:01 4516 Oct 08 00:53	13° £ 32'38 0° m 23° m 11'14 0° Ω 0° Ω 39'25 7° Ω 49'22 5° Ω 49'16 3° Ω 12'35 0° Ω 34'58 0° Ω 23'15 30° R m 25° m 52'35 25° m 31'49 28° m 32'00	0.60216 AU -4°35'48 4°34'39
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4515 Sep 12 09:35 4515 Sep 26 04:59 4515 Oct 03 09:06 4515 Oct 06 23:53 4515 Oct 09 22:25 4515 Oct 10 04:22 4515 Oct 17 01:23 4515 Oct 19 09:58 4515 Oct 22 03:51 4515 Oct 26 06:01 4515 Nov 05 04:30 4515 Nov 11 04:19	4° \$\Omega 55'04 18° \$\Omega 32'32 25° \$\Omega 47'15 23° \$\Omega 21'32 20° \$\Omega 28'55 17° \$\Omega 45'08 17° \$\Omega 31'17 12° \$\Omega 41'19 12° \$\Omega 16'46 12° \$\Omega 51'08 15° \$\Omega 45'23 0° \$\Omega 10' \$\Omega 37'07	0.62235 AU -3°43'50 3°42'03	desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise direct	4516 Jul 25 11:25 4516 Aug 02 19:25 4516 Aug 17 18:56 4516 Aug 23 20:34 4516 Aug 24 12:56 4516 Sep 07 11:10 4516 Sep 14 07:46 4516 Sep 18 02:56 4516 Sep 21 08:28 4516 Sep 22 01:41 4516 Sep 22 01:41 4516 Sep 28 22:38 4516 Oct 01 07:01 4516 Oct 08 00:53 4516 Oct 08 18:12	13° ብ32'38 0° ሙ 23° ሙ 11'14 0° Ω 0° Ω39'25 7° Ω49'22 5° Ω49'16 3° Ω12'35 0° Ω34'58 0° Ω23'15 30° R ሙ 25° ሙ 52'35 25° ሙ 31'49 28° ሙ 32'00 29° ሙ 12'07	0.60216 AU -4°35'48
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4515 Sep 12 09:35 4515 Sep 26 04:59 4515 Oct 03 09:06 4515 Oct 06 23:53 4515 Oct 10 04:22 4515 Oct 17 01:23 4515 Oct 19 09:58 4515 Oct 22 03:51 4515 Oct 26 06:01 4515 Nov 05 04:30 4515 Nov 11 04:19	4° \Omega 55'04 18° \Omega 32'32 25° \Omega 47'15 23° \Omega 21'32 20° \Omega 28'55 17° \Omega 45'08 17° \Omega 31'17 12° \Omega 41'19 12° \Omega 16'46 12° \Omega 51'08 15° \Omega 45'23 0° \Omega 10° \Omega 37'07	0.62235 AU -3°43'50 3°42'03 17°51'26	desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise direct asc. node morning max el	4516 Jul 25 11:25 4516 Aug 02 19:25 4516 Aug 17 18:56 4516 Aug 23 20:34 4516 Aug 24 12:56 4516 Sep 07 11:10 4516 Sep 14 07:46 4516 Sep 18 02:56 4516 Sep 21 08:28 4516 Sep 21 14:12 4516 Sep 22 01:41 4516 Sep 28 22:38 4516 Oct 01 07:01 4516 Oct 08 00:53 4516 Oct 09 13:04	13° A 32'38 0° M 23° M 11'14 0° A 0° A 39'25 7° A 49'22 5° A 49'16 3° A 12'35 0° A 34'58 0° A 23'15 30° R M 25° M 52'35 25° M 31'49 28° M 32'00 29° M 12'07 0° A	0.60216 AU -4°35'48 4°34'39
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4515 Sep 12 09:35 4515 Sep 26 04:59 4515 Oct 03 09:06 4515 Oct 06 23:53 4515 Oct 09 22:25 4515 Oct 10 04:22 4515 Oct 17 01:23 4515 Oct 19 09:58 4515 Oct 22 03:51 4515 Oct 26 06:01 4515 Nov 05 04:30 4515 Nov 11 04:19	4° \Omega 55'04 18° \Omega 32'32 25° \Omega 47'15 23° \Omega 21'32 20° \Omega 28'55 17° \Omega 45'08 17° \Omega 31'17 12° \Omega 41'19 12° \Omega 16'46 12° \Omega 51'08 15° \Omega 45'23 0° \mathred{m} 10° \mathred{m} 37'07	0.62235 AU -3°43'50 3°42'03	desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise direct asc. node	4516 Jul 25 11:25 4516 Aug 02 19:25 4516 Aug 17 18:56 4516 Aug 23 20:34 4516 Aug 24 12:56 4516 Sep 07 11:10 4516 Sep 14 07:46 4516 Sep 18 02:56 4516 Sep 21 08:28 4516 Sep 22 01:41 4516 Sep 22 01:41 4516 Sep 28 22:38 4516 Oct 01 07:01 4516 Oct 08 00:53 4516 Oct 08 18:12	13° A 32'38 0° M 23° M 11'14 0° A 0° A 39'25 7° A 49'22 5° A 49'16 3° A 12'35 0° A 34'58 0° A 23'15 30° R M 25° M 52'35 25° M 31'49 28° M 32'00 29° M 12'07 0° A 24° A 16'08	0.60216 AU -4°35'48 4°34'39
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4515 Sep 12 09:35 4515 Sep 26 04:59 4515 Oct 03 09:06 4515 Oct 06 23:53 4515 Oct 10 04:22 4515 Oct 17 01:23 4515 Oct 19 09:58 4515 Oct 22 03:51 4515 Oct 26 06:01 4515 Nov 05 04:30 4515 Nov 11 04:19	4° \Omega 55'04 18° \Omega 32'32 25° \Omega 47'15 23° \Omega 21'32 20° \Omega 28'55 17° \Omega 45'08 17° \Omega 31'17 12° \Omega 41'19 12° \Omega 16'46 12° \Omega 51'08 15° \Omega 45'23 0° \Omega 10° \Omega 37'07	0.62235 AU -3°43'50 3°42'03 17°51'26	desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise direct asc. node morning max el	4516 Jul 25 11:25 4516 Aug 02 19:25 4516 Aug 17 18:56 4516 Aug 23 20:34 4516 Aug 24 12:56 4516 Sep 07 11:10 4516 Sep 14 07:46 4516 Sep 18 02:56 4516 Sep 21 08:28 4516 Sep 21 14:12 4516 Sep 22 01:41 4516 Sep 28 22:38 4516 Oct 01 07:01 4516 Oct 08 00:53 4516 Oct 09 13:04	13° A 32'38 0° M 23° M 11'14 0° A 0° A 39'25 7° A 49'22 5° A 49'16 3° A 12'35 0° A 34'58 0° A 23'15 30° R M 25° M 52'35 25° M 31'49 28° M 32'00 29° M 12'07 0° A	0.60216 AU -4°35'48 4°34'39
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retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	4515 Sep 12 09:35 4515 Sep 26 04:59 4515 Oct 03 09:06 4515 Oct 06 23:53 4515 Oct 09 22:25 4515 Oct 10 04:22 4515 Oct 17 01:23 4515 Oct 19 09:58 4515 Oct 22 03:51 4515 Oct 26 06:01 4515 Nov 05 04:30 4515 Nov 11 04:19 4515 Nov 22 05:19 4515 Nov 22 08:41 4515 Nov 22 04:43 4515 Nov 27 21:11 4515 Nov 29 09:02 4515 Dec 06 19:06	4° \Omega 55'04 18° \Omega 32'32 25° \Omega 47'15 23° \Omega 21'32 20° \Omega 28'55 17° \Omega 45'08 17° \Omega 31'17 12° \Omega 41'19 12° \Omega 16'46 12° \Omega 51'08 15° \Omega 45'23 0° \Cmathred{m} 10° \Cmathred{m} 37'07  0° \Large 02'32 0° \Large 16'53 0° \Large 9° \Large 30'41 11° \Large 57'10 23° \Large 45'30	0.62235 AU -3°43'50 3°42'03 17°51'26 0°39'08 0°38'40	desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise direct asc. node morning max el morning set	4516 Jul 25 11:25 4516 Aug 02 19:25 4516 Aug 17 18:56 4516 Aug 23 20:34 4516 Aug 24 12:56 4516 Sep 07 11:10 4516 Sep 14 07:46 4516 Sep 18 02:56 4516 Sep 21 08:28 4516 Sep 21 14:12 4516 Sep 22 01:41 4516 Sep 28 22:38 4516 Oct 01 07:01 4516 Oct 08 00:53 4516 Oct 09 13:04 4516 Oct 24 13:24 4516 Oct 27 14:39 4516 Nov 03 03:50 4516 Nov 03 07:51	13° £ 32'38 0° \$\text{m}\$ 23° \$\text{m}\$ 11'14 0° \$\text{n}\$ 0° \$\text{n}\$ 39'25 7° \$\text{n}\$ 49'122 5° \$\text{n}\$ 49'16 3° \$\text{n}\$ 12'35 0° \$\text{n}\$ 34'58 0° \$\text{n}\$ 23'15 30° \$\text{m}\$ 52'35 25° \$\text{m}\$ 31'49 28° \$\text{m}\$ 32'00 29° \$\text{m}\$ 12'07 0° \$\text{n}\$ 24° \$\text{n}\$ 16'08 0° \$\text{m}\$.  12° \$\text{m}\$ .02'49 12° \$\text{m}\$ .20'52	0.60216 AU -4°35'48 4°34'39 18°09'01
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	4515 Sep 12 09:35 4515 Sep 26 04:59 4515 Oct 03 09:06 4515 Oct 06 23:53 4515 Oct 10 04:22 4515 Oct 17 01:23 4515 Oct 19 09:58 4515 Oct 22 03:51 4515 Oct 26 06:01 4515 Nov 05 04:30 4515 Nov 11 04:19 4515 Nov 22 05:19 4515 Nov 22 08:41 4515 Nov 22 04:43 4515 Nov 27 21:11 4515 Nov 29 09:02 4515 Dec 06 19:06 4515 Dec 10 20:11	4° \$\Omega 55'04 18° \$\Omega 32'32 25° \$\Omega 47'15 23° \$\Omega 21'32 20° \$\Omega 28'55 17° \$\Omega 45'08 17° \$\Omega 31'17 12° \$\Omega 41'19 12° \$\Omega 16'46 12° \$\Omega 51'08 15° \$\Omega 45'23 0° \$\mathred{m}\$ 10° \$\mathred{m}\$ 37'07 0° \$\napprox 902'32 0° \$\napprox 16'53 0° \$\napprox 16'	0.62235 AU -3°43'50 3°42'03 17°51'26 0°39'08 0°38'40 1.43246 AU	desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise direct asc. node morning max el morning set  superior conj minimum elong max. Earth dist.	4516 Jul 25 11:25 4516 Aug 02 19:25 4516 Aug 17 18:56 4516 Aug 23 20:34 4516 Aug 24 12:56 4516 Sep 07 11:10 4516 Sep 14 07:46 4516 Sep 18 02:56 4516 Sep 21 08:28 4516 Sep 21 14:12 4516 Sep 22 01:41 4516 Sep 28 22:38 4516 Oct 01 07:01 4516 Oct 08 00:53 4516 Oct 09 13:04 4516 Oct 24 13:24 4516 Oct 27 14:39 4516 Nov 03 03:50 4516 Nov 03 07:51 4516 Nov 10 19:18	13° \$\alpha 32'38 0° \$\text{m}\$ 23° \$\text{m} 11'14 0° \$\oldsymbol{\Omega}\$ 0° \$\oldsymbol{\Omega} 39'25 7° \$\oldsymbol{\Omega} 49'16 3° \$\oldsymbol{\Omega} 12'35 0° \$\oldsymbol{\Omega} 34'58 0° \$\oldsymbol{\Omega} 23'15 30° \$\text{R}\$ 25° \$\text{m} 52'35 25° \$\text{m} 52'35 25° \$\text{m} 31'49 28° \$\text{m} 32'00 29° \$\text{m} 12'07 0° \$\oldsymbol{\Omega}\$ 24° \$\oldsymbol{\Omega} 16'08 0° \$\text{m}\$ 12° \$\text{m} 02'49 12° \$\text{m} 20'52 25° \$\text{m} 21'51	0.60216 AU -4°35'48 4°34'39 18°09'01
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	4515 Sep 12 09:35 4515 Sep 26 04:59 4515 Oct 03 09:06 4515 Oct 06 23:53 4515 Oct 10 04:22 4515 Oct 17 01:23 4515 Oct 19 09:58 4515 Oct 22 03:51 4515 Oct 26 06:01 4515 Nov 05 04:30 4515 Nov 11 04:19 4515 Nov 22 05:19 4515 Nov 22 08:41 4515 Nov 22 04:43 4515 Nov 27 21:11 4515 Dec 06 19:06 4515 Dec 10 20:11 4515 Dec 31 17:58	4° \( \Omega \) 55'04 18° \( \Omega \) 32'32 25° \( \Omega \) 47'15 23° \( \Omega \) 21'32 20° \( \Omega \) 28'55 17° \( \Omega \) 45'08 17° \( \Omega \) 41'19 12° \( \Omega \) 16'46 12° \( \Omega \) 51'08 15° \( \Omega \) 45'23 0° \( \Omega \) 10° \( \Omega \) 30'41 11° \( \omega \) 57'10 23° \( \omega \) 45'30 0° \( \omega \) 0°	0.62235 AU -3°43'50 3°42'03 17°51'26 0°39'08 0°38'40 1.43246 AU	desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong  morning rise direct asc. node morning max el morning set  superior conj minimum elong max. Earth dist.	4516 Jul 25 11:25 4516 Aug 02 19:25 4516 Aug 17 18:56 4516 Aug 23 20:34 4516 Aug 24 12:56 4516 Sep 07 11:10 4516 Sep 14 07:46 4516 Sep 18 02:56 4516 Sep 21 08:28 4516 Sep 21 14:12 4516 Sep 22 01:41 4516 Sep 28 22:38 4516 Oct 01 07:01 4516 Oct 08 00:53 4516 Oct 09 13:04 4516 Oct 24 13:24 4516 Oct 27 14:39 4516 Nov 03 03:50 4516 Nov 03 07:51 4516 Nov 10 19:18 4516 Nov 11 19:18	13° £ 32'38 0° \$\text{m}\$ 23° \$\text{m}\$ 11'14 0° \$\oldsymbol{\Omega}\$ 0° \$\oldsymbol{\Omega}\$ 39'25 7° \$\oldsymbol{\Omega}\$ 49'16 3° \$\oldsymbol{\Omega}\$ 12'35 0° \$\oldsymbol{\Omega}\$ 34'58 0° \$\oldsymbol{\Omega}\$ 23'15 30° \$\text{R} \$\text{m}\$ 25° \$\text{m}\$ 52'35 25° \$\text{m}\$ 31'49 28° \$\text{m}\$ 32'00 29° \$\text{m}\$ 12'07 0° \$\oldsymbol{\Omega}\$ 24° \$\oldsymbol{\Omega}\$ 16'08 0° \$\text{m}\$ 12° \$\text{m}\$ 20'52 25° \$\text{m}\$ 21'51 0° \$\text{m}\$ 17'08	0.60216 AU -4°35'48 4°34'39 18°09'01

	4516 Dec 03 04:04	0°ठ			4517 Nov 28 00:19	0°ರ	
evening max el	4516 Dec 19 15:58	20° <b>ප</b> 52'49	22°54'59	evening max el	4517 Dec 02 05:28	4° <b>ਰ</b> 32'54	24°14'42
retrograde	4516 Dec 29 18:39	26°る52'39	22 343)	retrograde	4517 Dec 13 10:22	11° <b>る</b> 07'08	24 1442
evening set	4517 Jan 03 13:44	24°る54'43		evening set	4517 Dec 13 10:22 4517 Dec 18 18:37	8° <b>る</b> 53'27	
asc. node	4517 Jan 04 00:08	24°る3443		asc. node	4517 Dec 18 18:37 4517 Dec 21 21:09	5°る34'25	
		24 <b>3</b> 32 04 18° <b>る</b> 31'21	1927/20			3°る3423	0.67902 ATT
inferior conj	4517 Jan 08 22:47		1°36'29	min. Earth dist.	4517 Dec 23 11:41		0.67802 AU
minimum elong	4517 Jan 08 20:49	18°る38'12	1°35'46	inferior conj	4517 Dec 24 05:52	2°る27'34	0°47'42
min. Earth dist.	4517 Jan 08 15:32	18°る56'26	0.68056 AU	minimum elong	4517 Dec 24 04:45	2° <b>る</b> 31'19	0°47'15
morning rise	4517 Jan 14 03:46	12° <b>る</b> 23'02			4517 Dec 26 02:51	30°₽ <b>⋌</b>	
direct	4517 Jan 18 14:13	10° <b>る</b> 35'15		morning rise	4517 Dec 29 14:57	26° <b>₹</b> 24'50	
morning max el	4517 Jan 27 10:35	15° <b>る</b> 44'39	21°35'21	direct	4518 Jan 02 11:50	24° <b>₹</b> 59'29	
	4517 Feb 07 22:28	0° <b>≈</b>		morning max el	4518 Jan 10 07:33	29° <b>₹</b> 27'09	20°19'36
desc. node	4517 Feb 09 17:27	2° <b>≈</b> 30'40			4518 Jan 10 20:26	0°₹	
	4517 Feb 27 23:39	0° <b>∀</b>		desc. node	4518 Jan 27 14:28	22° <b>る</b> 33'14	
morning set	4517 Feb 28 08:23	0° <b>) (</b> 34′40			4518 Feb 01 13:14	0° <b>≈</b>	
max. Earth dist.	4517 Mar 06 20:53	11° <b>)</b> €08'59	1.41849 AU	morning set	4518 Feb 07 07:29	8° <b>≈</b> 49'48	
				max. Earth dist.	4518 Feb 17 04:42	24° <b>≈</b> 23'43	1.43607 AU
superior conj	4517 Mar 14 10:27	23° <b>¥</b> 59'15	-2°04'54		4518 Feb 20 15:47	0° <b>∀</b>	
minimum elong	4517 Mar 14 13:21	24° <b>) (</b> 11′50	2°04'48				
	4517 Mar 17 20:27	$0^{\circ}\mathbf{\Upsilon}$		superior conj	4518 Feb 23 06:11	4° <b>ℋ</b> 16'16	-2°07'09
evening rise	4517 Mar 25 09:28	13° <b>Y</b> 39'43		minimum elong	4518 Feb 23 04:03	4° <b>)</b> €07'28	2°07'06
asc. node	4517 Apr 01 23:26	27° <b>Ƴ</b> 15'12		evening rise	4518 Mar 07 20:28	25° <b>)</b> 43'37	
	4517 Apr 03 14:58	0°8		* · · · · · · · · · · · · · · · · · · ·	4518 Mar 10 07:18	0°Υ	
evening max el	4517 Apr 10 19:16	9° <b>8</b> 40'13	18°10'08	asc. node	4518 Mar 19 20:28	15° <b>Y</b> 53'17	
retrograde	4517 Apr 17 15:14	13° <b>8</b> 07'22	10 10 00	evening max el	4518 Mar 25 07:41	22° <b>Y</b> 51'03	18°08'07
evening set	4517 Apr 20 04:29	13° <b>8</b> 39'01		retrograde	4518 Mar 31 18:41	26°Υ13'37	10 00 07
inferior conj	4517 Apr 27 00:36	7° <b>8</b> 49'00	2°53'19	evening set	4518 Apr 03 14:01	26 Υ 13 3 7 25° <b>Υ</b> 34'16	
·		7° <b>8</b> 41'39	2°52'39	-		23 <b>γ</b> 34 10 20° <b>γ</b> 24'16	2025100
minimum elong	4517 Apr 27 03:48		2 32 39 0.60194 AU	inferior conj	4518 Apr 09 20:27	20 <b>γ</b> 24 16 20° <b>γ</b> 19'52	
min. Earth dist.	4517 Apr 30 08:33	4° <b>8</b> 47'35	0.60194 AU	minimum elong	4518 Apr 09 22:08		3°24'57
morning rise	4517 May 04 00:46	2° <b>8</b> 01'15		min. Earth dist.	4518 Apr 12 17:29	17° <b>Υ</b> 24'58	0.62354 AU
desc. node	4517 May 08 16:41	0° <b>8</b> 08'36		morning rise	4518 Apr 16 04:49	14° <b>Υ</b> 21'27	
	4517 May 09 20:25	30° <b>₹</b> Υ		direct	4518 Apr 23 01:17	11°Υ50'12	
direct	4517 May 10 14:02	29° <b>Y</b> 58′29		desc. node	4518 Apr 25 13:41	12° <b>Y</b> 08'53	
	4517 May 11 07:45	0°8		morning max el	4518 May 07 03:20	19° <b>Ƴ</b> 49'41	27°51'58
morning max el	4517 May 24 21:41	7° <b>8</b> 51'31	27°38'40		4518 May 15 19:47	0°8	
	4517 Jun 10 17:06	$\Pi$ $^{\circ}0$			4518 Jun 03 15:39	$\Pi$ $^{\circ}0$	
morning set	4517 Jun 25 21:07	27° <b>Ⅱ</b> 56'54		morning set	4518 Jun 09 22:28	12° <b>Ⅱ</b> 12'22	
	4517 Jun 26 20:42	0∘ <b>হ্</b>		max. Earth dist.	4518 Jun 15 12:01	23° <b>Ⅱ</b> 51'50	1.32438 AU
asc. node	4517 Jun 28 22:40	4° <b>5</b> 25'43		asc. node	4518 Jun 15 19:43	24° <b>Ⅲ</b> 33'13	
max. Earth dist.	4517 Jul 02 04:10	11° <b>©</b> 27'19	1.32026 AU				
				superior conj	4518 Jun 17 11:22	28° <b>Ⅱ</b> 08′03	0°17'13
superior conj	4517 Jul 03 02:02	13° <b>©</b> 27'39	0°42'12	minimum elong	4518 Jun 17 10:34	28° <b>Ⅱ</b> 03'41	0°17'02
minimum elong	4517 Jul 03 00:18	13° <b>©</b> 18'03	0°41'49		4518 Jun 18 07:55	$0$ $\circ$ $\odot$	
evening rise	4517 Jul 09 21:30	28° <b>©</b> 19'40		evening rise	4518 Jun 24 09:12	13° <b>©</b> 08'02	
	4517 Jul 10 16:27	$0^{\circ}\Omega$			4518 Jul 02 20:51	$0^{\circ}\Omega$	
	4517 Jul 27 10:32	0° <b>m</b> )		evening max el	4518 Jul 18 22:05	22° <b>Ω</b> 32'18	24°06'01
desc. node	4517 Aug 04 15:57	10° Mp 14'46		desc. node	4518 Jul 22 12:58	25° <b>Ω</b> 37'34	
evening max el	4517 Aug 06 08:37	11° Mp 56'22	25°36'21	retrograde	4518 Aug 01 16:52	29° <b>Ω</b> 28'46	
retrograde	4517 Aug 20 07:37	19° Mp 02'07		evening set	4518 Aug 06 08:09	28° <b>Ω</b> 41'05	
evening set	4517 Aug 26 07:59	17° <b>m</b> 37'27		min. Earth dist.	4518 Aug 12 08:37	25° <b>Ω</b> 43'23	0.56360 AU
min. Earth dist.	4517 Aug 30 20:34	14° m 59'29	0.58162 AU	inferior conj	4518 Aug 14 19:55	24° <b>Ω</b> 11'46	
inferior conj	4517 Sep 03 00:19	12° Mp 46'06		minimum elong	4518 Aug 14 16:47	24° <b>Ω</b> 16'39	
minimum elong	4517 Sep 03 03:03	12° Mp 41'14		morning rise	4518 Aug 23 03:58	20° <b>Ω</b> 12'54	2 000,
morning rise	4517 Sep 11 00:23	8° mp 27'02	3 00 47	direct	4518 Aug 25 21:25	19° <b>£</b> 53'31	
direct	4517 Sep 11 00:23 4517 Sep 13 11:58	8° Mp 07'46		morning max el	4518 Sep 04 18:00	24° <b>Ω</b> 28'51	19°47'22
	•		18°47'20	morning max er	-		19 47 22
morning max el	4517 Sep 21 23:12	12° Mp 09'34	18 47 20	4	4518 Sep 09 13:10	0°M)	
asc. node	4517 Sep 24 21:53 4517 Oct 03 23:57	15° Mp 24'40 0° <u> </u>		asc. node	4518 Sep 11 18:55	3°Mp14'28	
				morning set	4518 Sep 22 12:28	22° m 55'33	
morning set	4517 Oct 08 09:16	8° <b>£</b> 25'31			4518 Sep 26 00:03	0∘ <b>⊽</b>	
	4517.0 : 16.00 1:	250 2 02115	1020/20		4510.0 20.00.45	00.0 40.55	1041120
superior conj	4517 Oct 16 22:44	25° <b>Ω</b> 02'43	1°30'39	superior conj	4518 Sep 30 08:42	8° <b>£</b> 46'53	1°41'20
minimum elong	4517 Oct 17 01:42	25° <b>Ω</b> 16'43	1°30'23	minimum elong	4518 Sep 30 10:02	8° <b>£</b> 53'32	1°41'17
	4517 Oct 19 14:14	0° <b>™</b>		max. Earth dist.	4518 Oct 06 05:57	20° <b>♀</b> 09'02	1.37296 AU
max. Earth dist.	4517 Oct 24 01:12	8°M03'59	1.39374 AU	evening rise	4518 Oct 10 00:23	27° <b>Ω</b> 03'16	
evening rise	4517 Oct 28 00:11	14°M55'56			4518 Oct 11 16:12	0°M₊	
desc. node	4517 Oct 31 15:14	20°M59'17		desc. node	4518 Oct 18 12:15	11°M32'42	
	4517 Nov 06 06:45	0°⊀			4518 Oct 30 17:41	0°⊀	

evening max el	4518 Nov 14 17:48	18° <b>∡</b> 15'17	25°29'10		4519 Sep 17 15:17	0∘ <b>⊽</b>	
retrograde	4518 Nov 26 21:42	25° × 15'04	23 27 10	max. Earth dist.	4519 Sep 18 15:30		1.35447 AU
evening set	4518 Dec 02 19:38	22° <b>х</b> 47'30		evening rise	4519 Sep 22 19:27	10° <b>⊆</b> 03′50	1.55447 710
min. Earth dist.	4518 Dec 07 05:09	17° <b>×</b> 757'17	0.67196 AU	evening rise	4519 Oct 04 05:12	0°M	
inferior conj	4518 Dec 08 10:15	16° <b>₹</b> 23'42		desc. node	4519 Oct 05 09:18	1°M52'34	
minimum elong	4518 Dec 08 10:26	16°×23'09	0°06'40	dese. node	4519 Oct 26 07:54	0° <b>√</b>	
transit middle	4518 Dec 08 10:26	16° <b>×</b> <sup>2</sup> 23'09	0°06'40	evening max el	4519 Oct 28 06:25	1° <b>х</b> 56′53	26°30'51
transit begin	4518 Dec 08 07:53	16° <b>⊀</b> 31'22	0 00 10	retrograde	4519 Nov 10 03:59	9° <b>×</b> 10'40	20 3001
transit end	4518 Dec 08 12:59	16° <b>⊀</b> 14'57		evening set	4519 Nov 16 14:55	6° <b>х</b> 33'19	
asc. node	4518 Dec 08 18:10	15° <b>₹</b> '58'19		min. Earth dist.	4519 Nov 20 17:37	2° <b>х</b> 18′23	0.66245 AU
morning rise	4518 Dec 14 01:34	10° <b>х</b> 28′34		inferior conj	4519 Nov 22 10:05	0° <b>х</b> 16'36	
direct	4518 Dec 17 10:28	9° <b>∡</b> ¹23'07		minimum elong	4519 Nov 22 11:54	0° <b>х</b> 11′09	1°04'56
morning max el	4518 Dec 24 12:23	13° <b>₹</b> 20'10	19°17'39		4519 Nov 22 15:36	30°RM	
Č	4519 Jan 06 01:03	0°ಕ		asc. node	4519 Nov 25 15:11	26°M40'36	
greatest brilliancy	4519 Jan 06 23:29	1°る24'23	-0.7m	morning rise	4519 Nov 28 09:33	24°M31'39	
desc. node	4519 Jan 14 11:29	12° <b>る</b> 53'29		direct	4519 Dec 01 08:33	23°M42'24	
morning set	4519 Jan 17 07:19	17° <b>ප</b> 16'01		morning max el	4519 Dec 07 23:46	27° <b>™</b> 19'40	18°31'29
8-11	4519 Jan 25 11:42	0° <b>≈</b>			4519 Dec 10 09:24	0° <b>⊼</b>	
max. Earth dist.	4519 Jan 30 18:43	8°≈18'32	1.44796 AU	morning set	4519 Dec 28 06:17	26° <b>₹</b> 56'02	
				. 8	4519 Dec 30 04:31	0°ප	
superior conj	4519 Feb 03 00:50	13° <b>≈</b> 27'49	-1°50'48	desc. node	4520 Jan 01 08:32	3° <b>ට</b> 26'36	
minimum elong	4519 Feb 02 16:51		1°50'12				
	4519 Feb 13 06:35	0° <b>)</b> €		superior conj	4520 Jan 13 04:22	22° <b>る</b> 04'36	-1°15'34
evening rise	4519 Feb 17 10:23	6° <b>¥</b> 51'35		minimum elong	4520 Jan 12 19:37	21° <b>る</b> 30'18	
<b>3</b>	4519 Mar 03 19:51	$_{0}$ ° $\gamma$		max. Earth dist.	4520 Jan 13 12:48	22° <b>る</b> 37'40	1.45289 AU
asc. node	4519 Mar 06 17:29	3° <b>Y</b> 51'55			4520 Jan 18 05:37	0° <b>≈</b>	
evening max el	4519 Mar 08 20:11	6°Υ13'50	18°24'54	evening rise	4520 Jan 29 01:01	17° <b>≈</b> 02'49	
retrograde	4519 Mar 15 07:42	9° <b>Y</b> 45'01		8	4520 Feb 06 05:07	0° <b>)</b> €	
evening set	4519 Mar 18 09:04	8° <b>Y</b> 53'37		greatest brilliancy	4520 Feb 07 05:43	1° <b>)</b> 36'35	-0.8m
inferior conj	4519 Mar 24 05:42	3° <b>Y</b> 25'14	3°35'02	evening max el	4520 Feb 20 06:20	19° <b>)</b> 43'30	18°59'27
minimum elong	4519 Mar 24 05:42	3° <b>Y</b> 25'12	3°35'01	asc. node	4520 Feb 21 14:31	20° <b>)</b> 59'47	
min. Earth dist.	4519 Mar 26 11:53	0° <b>Υ</b> 48'14	0.64283 AU	retrograde	4520 Feb 27 02:30	23° <b>)</b> 34'41	
	4519 Mar 27 05:17	30° <b>₹</b>		evening set	4520 Mar 01 10:33	22° <b>)</b> 30'16	
morning rise	4519 Mar 30 01:34	27° <b>) (</b> 14'48		inferior conj	4520 Mar 07 00:37	16° <b>)</b> 45′12	3°28'22
direct	4519 Apr 05 20:52	24° <b>)</b> (27'12		minimum elong	4520 Mar 06 23:18	16° <b>)</b> 49′20	3°28'14
desc. node	4519 Apr 12 10:42	26° <b>)</b> €35'04		min. Earth dist.	4520 Mar 08 15:16	14° <b>)</b> 43'34	0.65847 AU
	4519 Apr 16 23:45	0° <b>Υ</b>		morning rise	4520 Mar 12 11:40	10° <b>)</b> 31'39	
morning max el	4519 Apr 19 12:30	2° <b>Y</b> 23'47	27°28'48	direct	4520 Mar 18 23:19	7° <b>)</b> (41'41	
	4519 May 10 02:24	0°8		desc. node	4520 Mar 29 07:45	12° <b>¥</b> 53'36	
morning set	4519 May 24 15:54	26° <b>8</b> 01'18		morning max el	4520 Mar 31 22:24	15° <b>)</b> €22'14	26°35'03
. 8	4519 May 26 15:52	0°П		. 8	4520 Apr 12 22:46	0°Υ	
max. Earth dist.	4519 May 29 12:20		1.33289 AU		4520 May 01 21:27	0°8	
				morning set	4520 May 06 22:01	9° <b>8</b> 13'16	
superior conj	4519 Jun 01 16:46	12° <b>Ⅱ</b> 32′29	-0°10'25	max. Earth dist.	4520 May 11 01:55		1.34612 AU
minimum elong	4519 Jun 01 17:18	12° <b>Ⅲ</b> 35'17				. •	
behind sun begin	4519 Jun 01 13:06	12° <b>Ⅱ</b> 12'59		superior conj	4520 May 15 15:58	26° <b>8</b> 33'59	-0°39'37
behind sun end	4519 Jun 01 21:29	12° <b>Ⅲ</b> 57'36		minimum elong	4520 May 15 18:06	26° <b>8</b> 44'58	
asc. node	4519 Jun 02 16:46	14° <b>Ⅱ</b> 40′34		8	4520 May 17 07:41	0°II	
evening rise	4519 Jun 08 20:39	27° <b>I</b> I51'36		asc. node	4520 May 19 13:50	4° <b>Ⅱ</b> 43'18	
<i>y</i>	4519 Jun 09 21:06	0°ಅ		evening rise	4520 May 23 05:54	12° <b>Ⅱ</b> 23'54	
	4519 Jun 27 18:10	0°N			4520 Jun 01 09:16	0ಂತಾ	
evening max el	4519 Jun 30 12:00	2° <b>£</b> 55′26	22°28'51	evening max el	4520 Jun 11 10:10	13° <b>©</b> 37'35	20°59'13
desc. node	4519 Jul 09 09:58	8° <b>Ω</b> 45'36		retrograde	4520 Jun 23 02:36	19° <b>©</b> 21'34	
retrograde	4519 Jul 13 13:54	9° <b>£</b> 25'35		evening set	4520 Jun 25 06:49	19° <b>©</b> 10'25	
evening set	4519 Jul 16 17:08	9° <b>Ω</b> 03'56		desc. node	4520 Jun 25 07:00	19°5010'20	
min. Earth dist.	4519 Jul 24 19:12		0.55152 AU	inferior conj	4520 Jul 04 15:00	15°5513'02	-2°42'23
inferior conj	4519 Jul 25 21:43	4° <b>£</b> 55'02		minimum elong	4520 Jul 04 07:40	15° <b>©</b> 23'23	
minimum elong	4519 Jul 25 13:32	5° <b>Ω</b> 06'41		min. Earth dist.	4520 Jul 05 06:21	14°951'20	
morning rise	4519 Aug 03 11:55	1° <b>Ω</b> 04'45	=0	morning rise	4520 Jul 13 08:32	11°S12'59	02.710
direct	4519 Aug 06 13:38	0°Ω43'16		direct	4520 Jul 16 22:59	10°545'02	
morning max el	4519 Aug 18 00:56		21°08'23	morning max el	4520 Jul 29 21:02	16°955'24	22°45'54
asc. node	4519 Aug 29 15:58	21° <b>Ω</b> 48'34	21 0025		4520 Aug 09 06:28	0°Ω	1557
450. Hode	4519 Sep 03 01:36	0° Mp		asc. node	4520 Aug 15 13:03	10° <b>Ω</b> 55'25	
morning set	4519 Sep 06 20:30	0 mg 7°mg39'44		morning set	4520 Aug 21 07:17	22° <b>Ω</b> 31'13	
morning set	1317 BCP 00 20.30	/ III/3944		morning set	4520 Aug 24 19:34	0° Mp	
superior conj	4519 Sep 14 05:23	23° m 02'52	1°43'52		1020 11ug 27 17.57	עויי	
minimum elong	4519 Sep 14 05:11	23° my 01'52	1°43'52	superior conj	4520 Aug 28 09:19	7° <b>m</b> 39'29	1°39'34
minimum ciong	.этэ бөр тү бэлт	25 mg 01 52	1 15 52	superior conj	1020 Hug 20 07.19	, אָנוי , בעניי ייבור אָנוי	1 37 37

minimum elong	4520 Aug 28 07:57	7° m 32'10	1°39'29	minimum elong	4521 Aug 12 15:50	22° <b>Ω</b> 17'19	1°29'15
max. Earth dist.	4520 Aug 31 09:46	14° mp 01'18	1.33959 AU	max. Earth dist.	4521 Aug 14 12:39	26° <b>Ω</b> 20'14	1.32883 AU
evening rise	4520 Sep 05 04:55	23° Mp 44'47			4521 Aug 16 05:40	0° <b>m</b>	
	4520 Sep 08 10:57	0∘ <b>ত</b>		evening rise	4521 Aug 20 00:55	7° <b>m</b> 55'29	
desc. node	4520 Sep 21 06:20	21° <b>≏</b> 51'34			4521 Aug 31 21:52	0∘ <b>ত</b>	
	4520 Sep 26 19:35	0°M₊		desc. node	4521 Sep 08 03:20	11° <b>≏</b> 20'55	
evening max el	4520 Oct 09 19:05		27°12'24	evening max el	4521 Sep 22 06:00	28° <b>△</b> 36'10	27°26'56
retrograde	4520 Oct 23 04:20	22°M45'51			4521 Sep 23 18:50	0°M,	
evening set	4520 Oct 30 02:08	20°M05'13	0.64047.411	retrograde	4521 Oct 05 22:15	5°M52'14 3°M17'36	
min. Earth dist. inferior conj	4520 Nov 02 22:41 4520 Nov 05 03:05	16°M25'31 14°M00'50	0.64947 AU 2°07'33	evening set	4521 Oct 13 02:20 4521 Oct 16 22:23	30°R <b>Ω</b>	
minimum elong	4520 Nov 05 05:03 4520 Nov 05 06:44	13°M50'45	2°06'07	min. Earth dist.	4521 Oct 16 22:23 4521 Oct 16 18:12	0° <b>™</b> 10'08	0.63314 AU
morning rise	4520 Nov 11 12:23	8°M29'07	2 00 07	inferior conj	4521 Oct 19 10:36	27° <b>£</b> 30'10	
asc. node	4520 Nov 11 12:14	8°M29'17		minimum elong	4521 Oct 19 15:55	27° <b>Ω</b> 16'56	
direct	4520 Nov 14 03:47	7°M52'13		morning rise	4521 Oct 26 06:58	22° <b>Ω</b> 15'17	
morning max el	4520 Nov 20 15:15	11° <b>M</b> .19'15	18°02'05	direct	4521 Oct 28 17:19	21° <b>≏</b> 47'05	
	4520 Dec 03 14:10	0° <b>∡</b> ¹		asc. node	4521 Oct 29 09:19	21° <b>≏</b> 49'14	
morning set	4520 Dec 08 10:52	8° <b>≯</b> 04'30		morning max el	4521 Nov 04 07:58	25° <b>≏</b> 12'24	17°50'06
desc. node	4520 Dec 18 05:35	24° <b>₹</b> 07'55			4521 Nov 08 07:23	$0^{\circ}$ M	
	4520 Dec 21 21:17	0°る		morning set	4521 Nov 20 16:46	20°M26'03	
					4521 Nov 26 05:13	0° <b>∡</b> ¹	
superior conj	4520 Dec 22 12:27	1°る00'30			4504 5 00 10 00	110 301122	001 (10.4
minimum elong	4520 Dec 22 08:50	0°る46'06 7°る04'29	0°28'48	superior conj	4521 Dec 02 18:09	11° <b>×</b> <sup>7</sup> 01'32	
max. Earth dist. evening rise	4520 Dec 26 08:21 4521 Jan 07 19:35	7°30429 26° <b>3</b> 29'32	1.45036 AU	minimum elong desc. node	4521 Dec 02 19:50 4521 Dec 05 02:36	11° <b>х</b> 08'30 14° <b>х</b> 53'46	0°16'10
evening rise	4521 Jan 10 02:11	20 <b>⊙</b> 29 32		max. Earth dist.	4521 Dec 09 02:02	21°×719'54	1.44073 AU
greatest brilliancy	4521 Jan 21 14:54		-0.7m	max. Lartii dist.	4521 Dec 14 13:32	0°る	1. <del>44</del> 073 AO
greatest offinaley	4521 Jan 30 14:55	0° <b>∀</b>	0.7111	evening rise	4521 Dec 18 05:19	。 5° <b>る</b> 40'39	
evening max el	4521 Feb 02 12:15	3° <b>)</b> 16'14	19°50'15		4522 Jan 03 11:42	0° <b>≈</b>	
asc. node	4521 Feb 07 11:32	7° <b>)</b> €03'04		evening max el	4522 Jan 16 12:40	16° <b>≈</b> 49'22	20°54'49
retrograde	4521 Feb 10 00:08	7° <b>)</b> €37'11		retrograde	4522 Jan 24 22:17	21° <b>≈</b> 47'27	
evening set	4521 Feb 13 16:01	6° <b>)</b> 18′48		asc. node	4522 Jan 25 08:34	21° <b>≈</b> 46′27	
inferior conj	4521 Feb 19 02:10	0° <b>₩</b> 19'05	3°09'02	evening set	4522 Jan 28 23:26	20° <b>≈</b> 14'11	
minimum elong	4521 Feb 19 00:02	0° <b>)</b> 26′12	3°08'37	inferior conj	4522 Feb 03 07:48	14° <b>≈</b> 02′26	2°39'33
	4521 Feb 19 07:53	30°R≈		minimum elong	4522 Feb 03 05:21	14°≈10'52	2°38'54
min. Earth dist.	4521 Feb 20 02:12	28°≈58'59	0.66987 AU	min. Earth dist.	4522 Feb 03 18:42	13°≈24'53	0.67705 AU
morning rise	4521 Feb 24 07:49	24°≈04'56		morning rise	4522 Feb 08 11:05	7°≈49'16	
direct morning max el	4521 Mar 02 07:27 4521 Mar 14 07:30	21°≈24'34 28°≈34'33	25010142	direct morning max el	4522 Feb 13 20:28 4522 Feb 24 16:09	5°≈26'35 11°≈53'36	22052140
morning max er	4521 Mar 15 16:19	20 <b>≈</b> 34 33	23 1942	desc. node	4522 Mar 03 01:49	11 ≈33 30 19°≈11'25	23 32 40
desc. node	4521 Mar 16 04:48	0° <b>)</b> 33'43		desc. Hode	4522 Mar 11 03:59	0° <b>∀</b>	
dese. node	4521 Apr 06 17:10	0°Υ			4522 Mar 30 12:26	0°Υ	
morning set	4521 Apr 19 12:19	21° <b>Υ</b> 35'41		morning set	4522 Apr 01 04:57	2° <b>Υ</b> ′52'15	
max. Earth dist.	4521 Apr 23 04:36	28° <b>Y</b> 21'50	1.36382 AU	max. Earth dist.	4522 Apr 05 00:39	9° <b>Y</b> 32'11	1.38474 AU
	4521 Apr 24 01:26	$9^{\circ}$ 8					
				superior conj	4522 Apr 12 07:43	22° <b>Y</b> 55'25	-1°35'48
superior conj	4521 Apr 29 06:11	10° <b>8</b> 05'06		minimum elong	4522 Apr 12 12:31	23° <b>Y</b> 18'08	1°35'13
minimum elong	4521 Apr 29 09:55	10° <b>8</b> 23'37	1°08'13		4522 Apr 16 00:15	0°8	
asc. node	4521 May 06 10:53	24° <b>8</b> 37'31		evening rise	4522 Apr 21 08:37	10° <b>8</b> 27'50	
evening rise	4521 May 07 10:48	26° <b>႘</b> 38'45		asc. node	4522 Apr 23 07:54	14° <b>႘</b> 17'57	
evening max el	4521 May 09 02:50 4521 May 24 20:28	0°Ⅲ 24°Ⅲ58'10	19°46'05	evening max el	4522 May 02 04:43 4522 May 07 18:07	0° <b>П</b> 6° <b>П</b> 59'13	10052152
retrograde	4521 May 24 20.28 4521 Jun 03 19:20	24 H 38 10 29° H 49'25	19 40 03	retrograde	4522 May 16 03:31	11° <b>Д</b> 05'48	16 32 33
evening set	4521 Jun 05 17:52	29° <b>II</b> 39'10		evening set	4522 May 18 06:04	10° <b>Д</b> 51'15	
desc. node	4521 Jun 12 04:01	27° <b>I</b> 104'37		inferior conj	4522 May 26 07:15	6° <b>Д</b> 33'17	1°04'19
inferior conj	4521 Jun 14 14:18	25° <b>I</b> I37'03	-0°43'21	minimum elong	4522 May 26 09:38	6° <b>Ⅱ</b> 29'01	1°03'30
minimum elong	4521 Jun 14 12:19	25° <b>Ⅱ</b> 40′07	0°42'37	min. Earth dist.	4522 May 29 11:17	4° <b>Ⅱ</b> 17'53	0.56924 AU
min. Earth dist.	4521 Jun 16 19:14	24° <b>∏</b> 15′27	0.55457 AU	desc. node	4522 May 30 01:03	3° <b>Ⅱ</b> 54'37	
morning rise	4521 Jun 23 04:35	21° <b>Ⅲ</b> 08'57		morning rise	4522 Jun 03 09:55	1° <b>Ⅱ</b> 28'55	
direct	4521 Jun 27 14:02	20° <b>Ⅱ</b> 26′20		direct	4522 Jun 08 18:13	0° <b>Ⅲ</b> 20′11	
morning max el	4521 Jul 11 11:17	27° <b>Ⅱ</b> 20'35	24°29'32	morning max el	4522 Jun 23 02:11	7° <b>Ⅱ</b> 46'55	26°04'01
	4521 Jul 14 01:47	0°©			4522 Jul 09 15:13	0.20	
asc. node	4521 Aug 02 10:08	0° <b>Ω</b> 26'32		asc. node	4522 Jul 20 07:11	20°5514'34	
	4521 Aug 02 04:51	0° <b>Ω</b>		morning set	4522 Jul 21 06:13	22°©15'35	
morning set	4521 Aug 05 19:04	7° <b>Ω</b> 25'00			4522 Jul 24 20:24	$0$ ° $\Omega$	
superior conj	4521 Aug 12 17:55	22° <b>Ω</b> 28'41	1°29'29	superior conj	4522 Jul 28 05:03	7° <b>Ω</b> 23'26	1°14'26

minimum elong	4522 Jul 28 02:44	7° <b>Ω</b> 10'38	1°14'04	max. Earth dist.	4523 Jul 12 08:52	21°933'17	1.31974 AU
max. Earth dist.	4522 Jul 28 21:30	8° <b>Ω</b> 53'58	1.32220 AU	man Barur dige.	4523 Jul 16 04:52	0°Ω	1.5197.110
evening rise	4522 Aug 04 04:20	22° <b>Ω</b> 26′28		evening rise	4523 Jul 19 12:37	7° <b>Ω</b> 09'47	
<i>y</i>	4522 Aug 07 21:36	0° m/		8	4523 Jul 31 10:21	0° m	
	4522 Aug 25 21:47	$0 \circ \overline{\mathbf{v}}$		desc. node	4523 Aug 12 21:22	17° <b>m</b> ) 57'01	
desc. node	4522 Aug 26 00:21	0° <b>ჲ</b> 08'37		evening max el	4523 Aug 17 12:40	22° m 53'14	26°18'59
evening max el	4522 Sep 04 12:39	11° <b>≏</b> 07'59	27°09'36	· ·	4523 Aug 30 12:04	0∘ <b>⊽</b>	
retrograde	4522 Sep 18 09:12	18° <b>≏</b> 20'48		retrograde	4523 Aug 31 11:55	0° <b>£</b> 02'26	
evening set	4522 Sep 25 11:44	16° <b>≙</b> 04'07			4523 Sep 01 11:40	30°₽, <b>Т</b> р	
min. Earth dist.	4522 Sep 29 03:02	13° <b>ഫ</b> 20′29	0.61395 AU	evening set	4523 Sep 07 01:27	28° Mp 16'23	
inferior conj	4522 Oct 02 05:29	10° <b>≏</b> 37'04	-4°07'25	min. Earth dist.	4523 Sep 11 01:52	25° Mp 41'26	0.59325 AU
minimum elong	4522 Oct 02 11:36	10° <b>≏</b> 23'35	4°05'50	inferior conj	4523 Sep 14 08:10	23°Mp11'31	-4°53'01
morning rise	4522 Oct 09 13:21	5° <b>£</b> 42'23		minimum elong	4523 Sep 14 13:02	23° <b>m</b> 02'09	4°52'18
direct	4522 Oct 11 21:28	5° <b>≙</b> 19'45		morning rise	4523 Sep 22 02:49	18° <b>m</b> 39'17	
asc. node	4522 Oct 16 06:22	6° <b>£</b> 42'04		direct	4523 Sep 24 11:58	18° <b>m</b> 19'34	
morning max el	4522 Oct 18 22:51	8° <b>£</b> 51'55	17°56'33	morning max el	4523 Oct 02 08:29	22° <b>m</b> 07'53	18°22'44
	4522 Nov 01 17:04	0°M₊		asc. node	4523 Oct 03 03:24	22° m 55'28	
morning set	4522 Nov 03 17:35	3°M41'39			4523 Oct 08 12:12	0∘ <b>ত</b>	
				morning set	4523 Oct 18 07:45	17° <b>≏</b> 34'48	
superior conj	4522 Nov 14 02:37	22°M21'20	0°53'42		4523 Oct 24 20:18	0°M₊	
minimum elong	4522 Nov 14 06:34	22°M38'31	0°53'11				
	4522 Nov 18 13:38	0° <b>∡</b> 7		superior conj	4523 Oct 27 10:31	4°M49'04	1°20'11
max. Earth dist.	4522 Nov 21 15:10	5° <b>₹</b> 06'26	1.42521 AU	minimum elong	4523 Oct 27 14:13	5°M06'03	1°19'48
desc. node	4522 Nov 21 23:37	5° <b>×</b> 741'13		max. Earth dist.	4523 Nov 03 22:48	18°M11'08	1.40577 AU
evening rise	4522 Nov 27 22:20	15° <b>∡</b> 16'14		evening rise	4523 Nov 08 10:50	25°M45'56	
	4522 Dec 07 12:34	5°0		desc. node	4523 Nov 08 20:38	26°M26'20	
·	4522 Dec 29 22:21	0°≈	22000126		4523 Nov 11 01:07	0°중	
evening max el	4522 Dec 30 07:41	0°≈23'54 6°≈02'11	22°09'26		4523 Dec 01 06:44	0°る 14° <b>る</b> 01'20	22920109
retrograde	4523 Jan 08 19:04			evening max el	4523 Dec 12 22:37	14°801'20 20° <b>る</b> 17'18	23°29'08
asc. node	4523 Jan 12 05:36 4523 Jan 13 07:06	4°≈59'18 4°≈13'22		retrograde	4523 Dec 23 12:59 4523 Dec 28 13:25	18° <b>る</b> 17'18	
evening set	4523 Jan 17 02:23	4 ≈13 22 30°Rる		evening set asc. node	4523 Dec 28 13.23 4523 Dec 30 02:38	16° <b>る</b> 42'48	
inferior conj	4523 Jan 18 15:27	30 KG 27° <b>る</b> 52'57	2°01'40	inferior conj	4524 Jan 02 23:14	10 <b>3</b> 4248	1°16'34
minimum elong	4523 Jan 18 13:10	28° <b>る</b> 00'53	2°00'54	minimum elong	4524 Jan 02 21:34	11° <b>ろ</b> 53'18	1°15'55
min. Earth dist.	4523 Jan 18 14:32	26 <b>3</b> 00033	0.68030 AU	min. Earth dist.	4524 Jan 02 11:21	11 <b>3</b> 33 16	0.67987 AU
morning rise	4523 Jan 23 19:05	21°る42'14	0.00030710	morning rise	4524 Jan 08 05:40	5° <b>ਰ</b> 41'08	0.07707710
direct	4523 Jan 28 13:41	19° <b>る</b> 41'25		direct	4524 Jan 12 10:08	4° <b>る</b> 03'04	
morning max el	4523 Feb 07 02:59	25° <b>る</b> 19'14	22°23'51	morning max el	4524 Jan 20 19:23	8° <b>ප</b> 54'00	21°01'33
	4523 Feb 11 08:15	0° <b>≈</b>		desc. node	4524 Feb 04 19:51	28° <b>る</b> 19'35	
desc. node	4523 Feb 17 22:50	8° <b>≈</b> 30'40			4524 Feb 05 23:28	0° <b>≈</b>	
	4523 Mar 04 16:01	0° <b>)</b> €		morning set	4524 Feb 20 03:47	21° <b>≈</b> 29'37	
morning set	4523 Mar 12 18:14	12° <b>)(</b> 49'24		Č	4524 Feb 25 12:23	0° <b>)</b> €	
max. Earth dist.	4523 Mar 17 21:06	21° <b>¥</b> 19′16	1.40657 AU	max. Earth dist.	4524 Feb 27 23:41	4° <b>)</b> 00'09	1.42649 AU
	4523 Mar 22 21:51	$0^{\circ}\Upsilon$					
				superior conj	4524 Mar 06 02:24	15° <b>)</b> 50′52	-2°07'52
superior conj	4523 Mar 25 16:07	4° <b>Y</b> 54'28	-1°57'04	minimum elong	4524 Mar 06 03:31	15° <b>)</b> 55′39	2°07'51
minimum elong	4523 Mar 25 20:28	5° <b>Ƴ</b> 13'59	1°56'46		4524 Mar 14 05:25	$0$ ° $\Upsilon$	
evening rise	4523 Apr 04 20:07	23° <b>Y</b> 42'58		evening rise	4524 Mar 17 17:17	6° <b>Ƴ</b> 14'50	
	4523 Apr 08 04:51	$_{0\circ}$ 8		asc. node	4524 Mar 27 01:56	22° <b>Y</b> 35'36	
asc. node	4523 Apr 10 04:55	3° <b>8</b> 39'29			4524 Apr 01 03:53	0°8	
evening max el	4523 Apr 21 00:16	19° <b>8</b> 34'49	18°20'03	evening max el	4524 Apr 03 11:23	2° <b>8</b> 35'39	18°07'03
retrograde	4523 Apr 28 06:34	23° <b>8</b> 11'39		retrograde	4524 Apr 10 02:15	5° <b>8</b> 58'53	
evening set	4523 Apr 30 15:53	22° <b>8</b> 49'10		evening set	4524 Apr 12 18:09	5° <b>8</b> 26'03	
inferior conj	4523 May 07 21:45	18° <b>8</b> 11'21	2°22'33	inferior conj	4524 Apr 19 07:59	0° <b>8</b> 27'43	3°09'52
minimum elong	4523 May 08 01:21	18° <b>8</b> 03'47	2°21'36	minimum elong	4524 Apr 19 10:38		3°09'25
min. Earth dist.	4523 May 11 08:17	15° <b>8</b> 19'26	0.58932 AU		4524 Apr 19 19:22	30°RƳ	
morning rise	4523 May 15 07:50	12° <b>8</b> 36'13		min. Earth dist.	4524 Apr 22 12:15	27° <b>Υ</b> 24'06	0.61126 AU
desc. node	4523 May 16 22:04	11° <b>8</b> 50'16		morning rise	4524 Apr 26 01:07	24° <b>Y</b> 32'35	
direct	4523 May 21 12:43	10° <b>8</b> 52'58	27012140	direct	4524 May 02 18:45	22°Υ16'07	
morning max el	4523 Jun 04 22:09	18° <b>8</b> 40'02	21-13.49	desc. node	4524 May 02 19:04	22° <b>Y</b> 16′07	
	4523 Jun 14 10:57	0° <b>∏</b>			4524 May 16 18:58	0° <b>8</b>	27040157
morning set	4523 Jul 02 05:24	0°छ 6° <i>छ</i> ऽराऽर		morning max el	4524 May 17 00:20	0° <b>႘</b> 13'15	21 48 30
morning set	4523 Jul 05 15:03 4523 Jul 07 04:11	6°957'27		morning sot	4524 Jun 07 12:11	0°Ⅲ 21°Ⅲ24'55	
asc. node	4525 Jul 07 04:11	10° <b>©</b> 13'53		morning set	4524 Jun 18 19:46 4524 Jun 22 21:30	21° <b>ய</b> 24'55 0° <b>©</b>	
superior conj	4523 Jul 12 16:52	22° <b>©</b> 17'28	0°55'05	asc. node	4524 Jun 22 21:30 4524 Jun 23 01:13	0°9319'57	
minimum elong	4523 Jul 12 16:32 4523 Jul 12 14:47	22°905'56		max. Earth dist.	4524 Jun 24 19:05	4°906'59	1.32146 AU
minimum ciong	1323 Jul 12 14.4/	22 -000 00	J J 7 7 1	max. Lattii uist.	1527 Jun 27 17.03	OO 39	1.52170 AU

	4504 7 06 00 40	<b>500005111</b>	0000100		4505 X 10 11 15	2101125152	0005145
superior conj	4524 Jun 26 03:40	7°905'11		minimum elong	4525 Jun 10 11:17	21° <b>I</b> I37'53	0°05'45
minimum elong	4524 Jun 26 02:16	6°957'31	0°31'42	behind sun begin	4525 Jun 10 06:20	21° <b>Ⅱ</b> 11'11	
evening rise	4524 Jul 02 23:40	21°958'52		behind sun end	4525 Jun 10 16:14	22° <b>Ⅱ</b> 04'37	
	4524 Jul 06 20:26	$0$ $^{\circ}$ $\Omega$			4525 Jun 14 07:55	$0$ $\circ$ $\odot$	
	4524 Jul 25 13:46	O° Mp		evening rise	4525 Jun 17 11:29	6° <b>©</b> 45'58	
evening max el	4524 Jul 29 05:29	3° m 52'00	24°59'56		4525 Jun 29 17:24	$0^{\circ}\Omega$	
desc. node	4524 Jul 29 18:23	4° M 22′23		evening max el	4525 Jul 10 18:17	14° <b>Ω</b> 18'44	23°24'38
retrograde	4524 Aug 12 03:59	10° <b>m</b> 54'50		desc. node	4525 Jul 16 15:24	18° <b>Ω</b> 52'21	
evening set	4524 Aug 17 15:17	9° <b>™</b> 46'47		retrograde	4525 Jul 24 07:26	21° <b>Ω</b> 05'44	
min. Earth dist.	4524 Aug 22 17:03	7° Mp 02'08	0.57346 AU	evening set	4525 Jul 28 07:02	20° <b>Ω</b> 31'01	
inferior conj	4524 Aug 25 15:36	5° <b>m</b> 04'48	-5°13'53	min. Earth dist.	4525 Aug 04 03:53	17° <b>Ω</b> 20'47	0.55764 AU
minimum elong	4524 Aug 25 16:06	5° <b>m</b> 03'59	5°13'54	inferior conj	4525 Aug 06 03:00	16° <b>Ω</b> 11'15	-4°53'59
morning rise	4524 Sep 02 19:16	0° <b>m</b> 54'42		minimum elong	4525 Aug 05 21:14	16° <b>Ω</b> 19'47	4°53'11
direct	4524 Sep 05 08:57	0° Mp 35'36		morning rise	4525 Aug 14 13:51	12° <b>Ω</b> 17'50	
morning max el	4524 Sep 14 09:30	4° m 50'38	19°10'05	direct	4525 Aug 17 10:48	11° <b>Ω</b> 57'40	
asc. node	4524 Sep 19 00:26	10° m 14'32		morning max el	4525 Aug 27 23:13	16° <b>Ω</b> 50'47	20°19'19
	4524 Sep 30 08:03	0∘ <u>⊽</u>		asc. node	4525 Sep 05 21:29	28° <b>Ω</b> 24'24	
morning set	4524 Oct 01 07:09	1° <b>£</b> 54'17			4525 Sep 06 20:29	0° <b>m</b> )	
morning sec	1021 001 01 07.05	1 —0.17		morning set	4525 Sep 15 12:43	16° Mp 31'08	
superior conj	4524 Oct 09 12:28	18° <b>ഫ</b> 09'32	1°36'15	morning sec	4525 Sep 22 02:11	0ಂ <b>ಹ</b>	
minimum elong	4524 Oct 09 14:46	18° <b>⊆</b> 20'37	1°36'06		4323 Sep 22 02.11	o <b>–</b>	
minimum clong	4524 Oct 15 19:46	0°M	1 30 00	superior conj	4525 Sep 23 03:28	2° <b>£</b> 08'17	1°43'19
Easth diet			1 20404 ATT		•	2° <b>£</b> 11'36	
max. Earth dist.	4524 Oct 16 03:31	0°M35'13	1.38484 AU	minimum elong	4525 Sep 23 04:07		1°43'18
evening rise	4524 Oct 19 22:35	7°M19'19		max. Earth dist.	4525 Sep 28 10:06	12° <b>£</b> 33'04	1.36481 AU
desc. node	4524 Oct 25 17:40	17°M05'23		evening rise	4525 Oct 02 07:20	19° <b>£</b> 50'22	
	4524 Nov 02 23:41	0° <b>∡</b>			4525 Oct 08 01:14	0°M	
evening max el	4524 Nov 24 11:35	27° <b>∡</b> ¹43'07	24°47'29	desc. node	4525 Oct 12 14:43	7°M33'40	
	4524 Nov 26 22:51	0°₹			4525 Oct 28 00:54	0° <b>∡</b>	
retrograde	4524 Dec 06 02:51	4° <b>る</b> 29'06		evening max el	4525 Nov 07 00:09	11° <b>≯</b> 26′26	25°57'23
evening set	4524 Dec 11 16:50	2° <b>る</b> 09'29		retrograde	4525 Nov 19 11:57	18° <b>≯</b> ³32'38	
	4524 Dec 13 20:34	30°Ŗ <b>⋌</b> 7		evening set	4525 Nov 25 15:40	16° <b>₹</b> ′00′18	
asc. node	4524 Dec 15 23:39	27° <b>҂</b> ²22'16		min. Earth dist.	4525 Nov 29 22:17	11° <b>₹</b> 25′10	0.66840 AU
min. Earth dist.	4524 Dec 16 06:43	26° <b>₹</b> 59'07	0.67591 AU	inferior conj	4525 Dec 01 08:08	9° <b>√</b> 39'12	-0°31'16
inferior conj	4524 Dec 17 05:25	25° <b>∡</b> ¹44'01	0°25'15	minimum elong	4525 Dec 01 08:58	9° <b>∡</b> ¹36'37	0°30'55
minimum elong	4524 Dec 17 04:47	25° <b>∡</b> ¹46'04	0°24'59	asc. node	4525 Dec 02 20:42	7° <b>∡¹</b> 46'56	
morning rise	4524 Dec 22 16:52	19° <b>₰</b> ⁴44'00		morning rise	4525 Dec 07 02:41	3° <b>҂</b> ¹48'09	
direct	4524 Dec 26 08:30	18° <b>⊀</b> 27'20		direct	4525 Dec 10 07:13	2° <b>҂</b> 749'55	
morning max el	4525 Jan 02 19:37	22° <b>∡</b> ¹40'24	19°51'17	morning max el	4525 Dec 17 03:31	6° <b>∡</b> ¹36'50	18°56'02
	4525 Jan 08 23:05	<sub>0°</sub> ප			4526 Jan 02 20:27	8°0	
desc. node	4525 Jan 21 16:53	18° <b>ප</b> 30'13		morning set	4526 Jan 08 07:43	8° <b>ප</b> 32'15	
morning set	4525 Jan 28 23:48	29° <b>る</b> 38'57		desc. node	4526 Jan 08 13:57	8° <b>ප</b> 56'38	
C	4525 Jan 29 05:15	0° <b>≈</b>			4526 Jan 22 00:51	0° <b>≈</b>	
max. Earth dist.	4525 Feb 09 10:23	17° <b>≈</b> 33'32	1.44194 AU	max. Earth dist.	4526 Jan 23 03:12	1° <b>≈</b> 43'32	1.45098 AU
superior conj	4525 Feb 14 11:02	25° <b>≈</b> 38'11	-2°02'40	superior conj	4526 Jan 24 21:19	4° <b>≈</b> 29'12	-1°37'52
minimum elong	4525 Feb 14 06:12	25°≈18'35		minimum elong	4526 Jan 24 12:06	3°≈52'54	
mmmum viong	4525 Feb 17 03:13	0° <b>∀</b>	_ 0/	evening rise	4526 Feb 08 23:48	28° <b>≈</b> 38'32	1 37 01
evening rise	4525 Feb 27 19:41	17° <b>)</b> 54'43		evening rise	4526 Feb 09 19:51	0° <b>∀</b>	
evening rise	4525 Mar 06 22:25	0°Υ		asc. node	4526 Feb 28 20:00	28° <b>)</b> 36'24	
asc. node	4525 Mar 13 22:57	10° <b>Υ</b> 57'47		evening max el	4526 Mar 01 12:00	29° <b>H</b> 18'24	18037128
evening max el	4525 Mar 18 00:13	15° <b>Υ</b> 52'14	18°13'06	evening max ci	4526 Mar 02 05:05	29 <b>γ</b> (1824	10 37 20
-		13 <b>γ</b> 32 14 19° <b>γ</b> 16'36	16 13 00	rotro ara do	4526 Mar 08 02:11	2° <b>Υ</b> 56'46	
retrograde	4525 Mar 24 10:11	19 <b>γ</b> 10 30 18° <b>γ</b> 32'04		retrograde		2 1 30 40 1° <b>Υ</b> 59'47	
evening set	4525 Mar 27 08:11		2021140	evening set	4526 Mar 11 06:20		
inferior conj	4525 Apr 02 09:59	13°Υ14'05	3°31'40		4526 Mar 13 18:36	30° <b>₹</b>	202215#
minimum elong	4525 Apr 02 10:56	13°Υ11'28	3°31'36	inferior conj	4526 Mar 16 23:46	26° <b>)</b> €23'48	
min. Earth dist.	4525 Apr 05 00:57	10° <b>Y</b> 22'23	0.63213 AU	minimum elong	4526 Mar 16 23:10	26° <b>₩</b> 25'37	
morning rise	4525 Apr 08 12:37	7° <b>Υ</b> 07'39		min. Earth dist.	4526 Mar 18 23:11	24° <b>)</b> (01'01	0.64995 AU
direct	4525 Apr 15 09:39	4° <b>Υ</b> 27'50		morning rise	4526 Mar 22 15:28	20° <b>)</b> 11'40	
desc. node	4525 Apr 19 16:06	5° <b>Y</b> 21'44		direct	4526 Mar 29 08:04	17° <b>∺</b> 21'49	
morning max el	4525 Apr 29 07:34		27°46'24	desc. node	4526 Apr 06 13:08	20° <b>)</b> 39'48	
	4525 May 13 07:04	$9^{\circ}$ 8		morning max el	4526 Apr 11 17:29	25° <b>)</b> 12'46	27°09'19
	4525 May 30 23:04	$\Pi^{\circ}0$			4526 Apr 16 02:20	$0$ ° $\Upsilon$	
morning set	4525 Jun 02 18:05	5° <b>Ⅱ</b> 29'42			4526 May 06 18:37	$9^{\circ}$ 8	
max. Earth dist.	4525 Jun 08 00:14	16° <b>Ⅱ</b> 21'41	1.32745 AU	morning set	4526 May 17 07:09	19° <b>8</b> 03'44	
asc. node	4525 Jun 09 22:14	20° <b>Ⅲ</b> 27'37		max. Earth dist.	4526 May 21 20:31	28° <b>8</b> 07'23	1.33799 AU
					4526 May 22 18:31	$\Pi^{\circ}0$	
superior conj	4525 Jun 10 11:34	21° <b>Ⅱ</b> 39′24	0°05'49				

superior conj	4526 May 25 14:36	5° <b>Ⅱ</b> 54'19	-0°22'40	max. Earth dist.	4527 May 04 05:19	9° <b>8</b> 22'15	1.35312 AU
minimum elong	4526 May 25 15:47	6° <b>Ⅱ</b> 00'33	0°22'25				
asc. node	4526 May 27 19:18	10° <b>Ⅱ</b> 33'05		superior conj	4527 May 09 10:18	19° <b>8</b> 43'03	-0°52'08
evening rise	4526 Jun 01 22:14	21° <b>Ⅱ</b> 25'14		minimum elong	4527 May 09 13:08	19° <b>8</b> 57'27	0°51'36
	4526 Jun 06 03:00	$0$ $\circ$ $\odot$			4527 May 14 10:08	$\Pi$ $^{\circ}0$	
evening max el	4526 Jun 22 10:42	24°9545'09	21°49'02	asc. node	4527 May 14 16:21	0°耳32′16	
	4526 Jun 30 01:20	$0^{\circ}\Omega$		evening rise	4527 May 17 05:54	5° <b>Ⅱ</b> 50'19	
desc. node	4526 Jul 03 12:24	0° <b>Ω</b> 52'48			4527 May 30 17:57	$0$ $\circ$ $\odot$	
retrograde	4526 Jul 04 23:58	0° <b>Ω</b> 57'56		evening max el	4527 Jun 04 13:43	5° <b>©</b> 41'31	20°25'47
evening set	4526 Jul 07 15:22	0° <b>Ω</b> 42'14		retrograde	4527 Jun 15 13:08	11° <b>©</b> 03'31	
	4526 Jul 10 04:08	30° <b>₹</b> 5		evening set	4527 Jun 17 12:49	10° <b>©</b> 53'42	
inferior conj	4526 Jul 16 23:29	26° <b>©</b> 39'34	-3°43'01	desc. node	4527 Jun 20 09:24	10° <b>©</b> 07'54	
minimum elong	4526 Jul 16 14:49	26° <b>©</b> 51'42	3°40'36	inferior conj	4527 Jun 26 17:31	6°€56'02	-1°52'29
min. Earth dist.	4526 Jul 16 14:08	26° <b>©</b> 52'39	0.54898 AU	minimum elong	4527 Jun 26 12:14	7° <b>©</b> 03'43	1°50'34
morning rise	4526 Jul 25 15:42	22°5648'05		min. Earth dist.	4527 Jun 28 02:06	6° <b>ॐ</b> 08'36	0.54967 AU
direct	4526 Jul 28 22:08	22°524'40		morning rise	4527 Jul 05 10:38	2°5945'36	
morning max el	4526 Aug 10 01:08	28° <b>©</b> 05'43	21°48'22	direct	4527 Jul 09 08:02	2° <b>©</b> 12'54	
	4526 Aug 11 23:01	$0^{\circ}\Omega$		morning max el	4527 Jul 22 18:10	8°5643'44	23°30'10
asc. node	4526 Aug 23 18:33	17° <b>Ω</b> 13'11			4527 Aug 07 04:12	$0 {\circ} \Omega$	
	4526 Aug 30 06:57	0° <b>m</b> )		asc. node	4527 Aug 10 15:37	6° <b>Ω</b> 31'09	
morning set	4526 Aug 30 22:08	1° <b>m</b> ) 18'55		morning set	4527 Aug 15 09:33	16° <b>Ω</b> 12'09	
					4527 Aug 21 19:29	0° <b>™</b>	
superior conj	4526 Sep 07 03:35	16° Mp 33'57					
minimum elong	4526 Sep 07 02:50	16° Mp 30′02	1°42'47	superior conj	4527 Aug 22 09:49	~	1°35'57
max. Earth dist.	4526 Sep 10 23:12	24° Mp 26'34	1.34766 AU	minimum elong	4527 Aug 22 08:05	1°Mp07'59	1°35'48
	4526 Sep 13 18:04	0∘ <b>⊽</b>		max. Earth dist.	4527 Aug 24 21:05	6° m 33'51	1.33441 AU
evening rise	4526 Sep 15 08:59	3° <b>Ω</b> 08'52		evening rise	4527 Aug 29 23:22	17° m 03'56	
desc. node	4526 Sep 29 11:45	27° <b>£</b> 45'21			4527 Sep 05 18:31	0° <b>⊽</b>	
	4526 Sep 30 22:25	0°M	26951120	desc. node	4527 Sep 16 08:45	17° <b>Ω</b> 33'15	
evening max el	4526 Oct 20 12:43	25°M04'03 0°⊀	26°51'20		4527 Sep 25 09:14	0°M	27922111
	4526 Oct 26 16:08	0°×' 2° <i>₹</i> <sup>1</sup> 20'37		evening max el	4527 Oct 03 00:44	8°M26'52 15°M45'17	2/22/11
retrograde	4526 Nov 02 15:43 4526 Nov 08 21:56	30°RM		retrograde evening set	4527 Oct 16 13:43 4527 Oct 23 14:51	13°M05'39	
evening set	4526 Nov 09 07:51	29°M40'35		min. Earth dist.	4527 Oct 27 08:59	9°M40'22	0.64290 AU
min. Earth dist.	4526 Nov 13 07:44	25°M41'07	0.65737 AU	inferior conj	4527 Oct 27 08:39 4527 Oct 29 18:40	7°M07'39	
inferior conj	4526 Nov 15 07:44 4526 Nov 15 05:20	23°M28'35		minimum elong	4527 Oct 29 18:40 4527 Oct 29 23:04	6°M55'59	
minimum elong	4526 Nov 15 07:55	23°M21'05		morning rise	4527 Nov 05 08:35	1°M42'51	2 32 20
asc. node	4526 Nov 19 17:46	18°M52'16	1 30 40	asc. node	4527 Nov 06 14:48	1°M18'34	
morning rise	4526 Nov 21 08:50	17° <b>M</b> .49'13		direct	4527 Nov 07 21:24	1°M10'13	
direct	4526 Nov 24 04:18	17°ML05'45		morning max el	4527 Nov 14 09:31	4°M35'45	17°54'46
morning max el	4526 Nov 30 17:04	20°MJ37'20	18°16'56	morning set	4527 Dec 01 11:27	0° <b>∡</b> 32'11	1, 0.10
	4526 Dec 07 23:11	0° <b>%</b>			4527 Dec 01 03:52	0° <b>⊼</b> ″	
morning set	4526 Dec 19 19:19	18° <b>∡</b> 750'15		desc. node	4527 Dec 13 08:02	20° <b>х</b> 17'14	
desc. node	4526 Dec 26 10:59	29° <b>х</b> 33′29				_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	4526 Dec 26 17:37	0°る		superior conj	4527 Dec 14 16:06	22° <b>₹</b> 27'07	-0°09'16
				minimum elong	4527 Dec 14 15:01	22° <b>∡</b> ¹22'44	
superior conj	4527 Jan 04 00:08	13° <b>る</b> 06'40	-0°56'35	behind sun begin	4527 Dec 14 06:32	21° <b>₹</b> ¹48'26	
minimum elong	4527 Jan 03 17:09	12° <b>る</b> 39'11	0°55'40	behind sun end	4527 Dec 14 23:29	22° <b>₰</b> 56'59	
max. Earth dist.	4527 Jan 05 22:22	16° <b>る</b> 08'13	1.45269 AU		4527 Dec 19 09:16	ರ°0	
	4527 Jan 14 19:02	0° <b>≈</b>		max. Earth dist.	4527 Dec 19 16:55	0° <b>る</b> 30'19	1.44708 AU
evening rise	4527 Jan 20 05:05	8° <b>≈</b> 28'18		evening rise	4527 Dec 30 18:02	17° <b>る</b> 43'20	
greatest brilliancy	4527 Jan 31 13:26	26° <b>≈</b> 07'05	-0.7m		4528 Jan 07 19:19	0° <b>≈</b>	
	4527 Feb 03 03:06	0° <b>∀</b>		evening max el	4528 Jan 27 00:02	26° <b>≈</b> 21′24	20°16'13
evening max el	4527 Feb 12 20:26	12° <b>)</b> 48′53	19°19'08		4528 Jan 31 12:08	0° <b>∀</b>	
asc. node	4527 Feb 15 17:03	15° <b>∺</b> 18'18		asc. node	4528 Feb 02 14:04	0° <b>)</b> 48′58	
retrograde	4527 Feb 19 22:37	16° <b>¥</b> 52'06		retrograde	4528 Feb 03 20:45	0° <b>) ₹</b> 57'47	
evening set	4527 Feb 23 09:47	15° <b>)</b> 41′55			4528 Feb 07 00:35	30°R <b>≈</b>	
inferior conj	4527 Feb 28 21:52	9° <b>₩</b> 50'05		evening set	4528 Feb 07 16:16	29° <b>≈</b> 33'24	
minimum elong	4527 Feb 28 20:08	9° <b>¥</b> 55'40		inferior conj	4528 Feb 13 01:26	23°≈28'15	2°57'37
min. Earth dist.	4527 Mar 02 06:05	8° <b>₩</b> 05'45	0.66381 AU	minimum elong	4528 Feb 12 23:06	23°≈36'08	2°57'06
morning rise	4527 Mar 06 06:12	3° <b>升</b> 35'46		min. Earth dist.	4528 Feb 13 19:46	22°≈26'02	0.67344 AU
direct	4527 Mar 12 12:58	0° <b>)</b> 48'46		morning rise	4528 Feb 18 05:42	17°≈14'04	
desc. node	4527 Mar 24 10:10	7° <b>∺</b> 35'58 8° <b>∺</b> 18'43	26005104	direct	4528 Feb 23 23:26	14°≈40'14	24942110
morning max el	4527 Mar 25 03:22 4527 Apr 11 02:30	8°π1843 0°Υ	26°05'04	morning max el desc. node	4528 Mar 06 12:02 4528 Mar 10 07:13	21°≈33'52 25°≈42'36	4 <del>4 43 19</del>
	4527 Apr 29 06:00	0°8		dese. Houc	4528 Mar 13 19:54	23 <b>≈</b> 42 36 0° <b>∀</b>	
morning set	4527 Apr 30 07:09	1° <b>8</b> 55'58			4528 Apr 03 08:44	0°Υ	
	p. 55 07.07	- 00000			тапара от от т	- •	

	4520 Apr. 11 12:50	13° <b>Y</b> 52'07		desc. node	4529 Feb 25 04:15	14° <b>≈</b> 39'42	
morning set	4528 Apr 11 12:58	13 γ 32 07 20° <b>Υ</b> 22'50	1 27220 AII	desc. node		14 <b>≈</b> 3942 0° <b>)</b>	
max. Earth dist.	4528 Apr 15 03:52		1.37239 AU		4529 Mar 08 03:43		
	4528 Apr 20 06:51	$9^{\circ}$ 8		morning set	4529 Mar 23 18:32	24° <b>)(</b> 36'08	
					4529 Mar 26 22:46	0° <b>Υ</b>	
superior conj	4528 Apr 21 19:35	2° <b>8</b> 57'36		max. Earth dist.	4529 Mar 27 23:00	1° <b>Y</b> 44'50	1.39408 AU
minimum elong	4528 Apr 21 23:52	3° <b>8</b> 18'31	1°20'07			• •	
evening rise	4528 Apr 30 08:07	19° <b>8</b> 54'28		superior conj	4529 Apr 04 14:29	15° <b>Y</b> ′28′07	
asc. node	4528 Apr 30 13:23	20° <b>8</b> 20'45		minimum elong	4529 Apr 04 19:21	15° <b>Y</b> 50′39	1°45'18
	4528 May 05 12:31	$\Pi$ °0			4529 Apr 12 06:20	$9^{\circ}$ 8	
evening max el	4528 May 17 05:12	17° <b>Ⅱ</b> 19'48	19°21'01	evening rise	4529 Apr 14 01:59	3° <b>8</b> 30'17	
retrograde	4528 May 26 11:05	21° <b>Ⅱ</b> 50′07		asc. node	4529 Apr 17 10:24	9° <b>8</b> 53'58	
evening set	4528 May 28 10:37	21° <b>Ⅱ</b> 38'38		evening max el	4529 Apr 30 07:00	_	18°36'30
inferior conj	4528 Jun 05 23:18	17° <b>Ⅲ</b> 31'10	0°05'15		4529 Apr 30 16:33	$\Pi$ $\circ$ 0	
minimum elong	4528 Jun 05 23:31	17° <b>Ⅲ</b> 30′48	0°05'10	retrograde	4529 May 08 03:10	3°Ⅱ28'48	
transit middle	4528 Jun 05 23:31	17° <b>Ⅲ</b> 30′48	0°05'10	evening set	4529 May 10 08:43	3° <b>Ⅱ</b> 11′07	
transit begin	4528 Jun 05 19:52	17° <b>Ⅲ</b> 36'48			4529 May 16 09:19	30°₽ <b>႘</b>	
transit end	4528 Jun 06 03:11	17° <b>Ⅲ</b> 24'48		inferior conj	4529 May 18 01:23	28° <b>8</b> 44'54	1°41'28
desc. node	4528 Jun 06 06:25	17° <b>Ⅱ</b> 19'28		minimum elong	4529 May 18 04:39	28° <b>8</b> 38'38	1°40'26
min. Earth dist.	4528 Jun 08 16:24	15° <b>Ⅱ</b> 44'56	0.55988 AU	min. Earth dist.	4529 May 21 10:07	26° <b>8</b> 11'25	0.57735 AU
morning rise	4528 Jun 14 09:29	12° <b>∏</b> 47'32		desc. node	4529 May 24 03:26	24° <b>8</b> 22'41	
direct	4528 Jun 19 04:42	11° <b>Ⅱ</b> 54'54		morning rise	4529 May 25 21:22	23° <b>8</b> 26'43	
morning max el	4528 Jul 03 07:51	19° <b>Ⅱ</b> 05'20	25°11'52	direct	4529 May 31 15:23	22° <b>8</b> 03'44	
S	4528 Jul 12 12:08	0°9		morning max el	4529 Jun 15 00:19	29° <b>8</b> 39'44	26°37'28
asc. node	4528 Jul 27 12:39	26°509'46			4529 Jun 15 08:35	0°II	
	4528 Jul 29 08:57	0°Ω			4529 Jul 06 07:13	0° <b>©</b>	
morning set	4528 Jul 29 21:13	1° <b>Ω</b> 04'45		morning set	4529 Jul 14 07:34	15° <b>©</b> 51'58	
morning sec	1320 Jul 27 21:13	1 0001 13		asc. node	4529 Jul 14 09:41	16° <b>©</b> 03'05	
superior conj	4528 Aug 05 19:43	16° <b>Ω</b> 09'29	1°23'41	asc. node	4529 Jul 20 19:41	0°Ω	
minimum elong	4528 Aug 05 17:28		1°23'23		432) Jul 20 17.41	0 00	
max. Earth dist.	4528 Aug 07 02:44		1.32544 AU	superior conj	4529 Jul 21 07:20	1° <b>Ω</b> 04'21	1°06'43
max. Earth dist.	4528 Aug 17 02:44 4528 Aug 12 06:34	0°M)	1.32344 AU	minimum elong	4529 Jul 21 07:20 4529 Jul 21 05:03	0°Ω51'45	1°06'20
ovanina rias	•			max. Earth dist.	4529 Jul 21 13:11	1°Ω36'39	1.32069 AU
evening rise	4528 Aug 12 22:52	1° Mp 24'17					1.32009 AU
1 1	4528 Aug 28 16:47	0° <b>⊽</b>		evening rise	4529 Jul 28 04:38	16° <b>Ω</b> 01'25	
desc. node	4528 Sep 02 05:45	6° <b>Ω</b> 46'29	27022146		4529 Aug 04 04:55	0° Mp	
evening max el	4528 Sep 14 10:15	21° <b>Ω</b> 21'23	27°23'46	desc. node	4529 Aug 20 02:45	25° m 10'58	
retrograde	4528 Sep 28 04:55	28° <b>Ω</b> 36'20			4529 Aug 24 03:14	0∘ <b>⊽</b>	
evening set	4528 Oct 05 09:17	26° <b>Ω</b> 08'03		evening max el	4529 Aug 27 14:33	3° <b>≙</b> 34'37	26°52'04
min. Earth dist.	4528 Oct 09 00:15	23° <b>≙</b> 11'47	0.62524 AU	retrograde	4529 Sep 10 12:16	10° <b>≏</b> 44'59	
inferior conj	4528 Oct 11 21:13	20° <b>≏</b> 28'40	-3°35'03	evening set	4529 Sep 17 10:51	8° <b>≏</b> 40'15	
minimum elong				•			
Č	4528 Oct 12 03:02	20° <b>≙</b> 14'51	3°33'15	min. Earth dist.	4529 Sep 21 04:40	6° <b>£</b> 02'19	0.60525 AU
morning rise	4528 Oct 18 22:28	20° <b>£</b> 14'51 15° <b>£</b> 21'44	3°33'15	min. Earth dist. inferior conj	4529 Sep 21 04:40 4529 Sep 24 09:38	6° <b>£</b> 02'19 3° <b>£</b> 22'44	-4°28'51
Č			3°33'15	min. Earth dist.	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33	6° <b>≏</b> 02'19	-4°28'51
morning rise	4528 Oct 18 22:28	15° <b>≏</b> 21'44	3°33'15	min. Earth dist. inferior conj	4529 Sep 21 04:40 4529 Sep 24 09:38	6° <b>£</b> 02'19 3° <b>£</b> 22'44	-4°28'51
morning rise direct	4528 Oct 18 22:28 4528 Oct 21 07:24	15° <b>£</b> 21'44 14° <b>£</b> 56'19	3°33'15 17°50'27	min. Earth dist. inferior conj	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33	6° <b>⊆</b> 02'19 3° <b>⊆</b> 22'44 3° <b>⊆</b> 10'24	-4°28'51
morning rise direct asc. node	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51	15° <b>Ω</b> 21'44 14° <b>Ω</b> 56'19 15° <b>Ω</b> 18'31		min. Earth dist. inferior conj minimum elong	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02	6° <b>Ω</b> 02'19 3° <b>Ω</b> 22'44 3° <b>Ω</b> 10'24 30°RM	-4°28'51
morning rise direct asc. node	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48	15° <b>£</b> 21'44 14° <b>£</b> 56'19 15° <b>£</b> 18'31 18° <b>£</b> 23'51		min. Earth dist. inferior conj minimum elong morning rise	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12	6° \(\Omega\) 02'19 3° \(\Omega\) 22'44 3° \(\Omega\) 10'24 30° R \(\Omega\) 28° \(\Omega\) 37'03	-4°28'51
morning rise direct asc. node morning max el	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05	15° <b>Ω</b> 21'44 14° <b>Ω</b> 56'19 15° <b>Ω</b> 18'31 18° <b>Ω</b> 23'51 0° <b>M</b> .		min. Earth dist. inferior conj minimum elong morning rise	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 04 06:28	6° № 02'19 3° № 22'44 3° № 10'24 30° R Mp 28° Mp 37'03 28° Mp 15'50	-4°28'51
morning rise direct asc. node morning max el	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05 4528 Nov 13 02:13	15° \$\Delta 21'44\) 14° \$\Delta 56'19\) 15° \$\Delta 18'31\) 18° \$\Delta 23'51\) 0° \$\mathbb{M}\$ 13° \$\mathbb{M} 19'07\)		min. Earth dist. inferior conj minimum elong morning rise direct	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 04 06:28 4529 Oct 09 08:00	6° <b>Ω</b> 02'19 3° <b>Ω</b> 22'44 3° <b>Ω</b> 10'24 30° R Mp 28° Mp 37'03 28° Mp 15'50 0° <b>Ω</b>	-4°28'51
morning rise direct asc. node morning max el	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05 4528 Nov 13 02:13	15° \$\Delta 21'44\) 14° \$\Delta 56'19\) 15° \$\Delta 18'31\) 18° \$\Delta 23'51\) 0° \$\mathbb{M}\$ 13° \$\mathbb{M} 19'07\)		min. Earth dist. inferior conj minimum elong morning rise direct asc. node	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 04 06:28 4529 Oct 09 08:00 4529 Oct 10 08:53	6°\$02'19 3°\$22'44 3°\$10'24 30°\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$28°\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	-4°28'51 4°27'36
morning rise direct asc. node morning max el morning set	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05 4528 Nov 13 02:13 4528 Nov 22 14:29	15° <b>2</b> 21'44 14° <b>2</b> 56'19 15° <b>2</b> 18'31 18° <b>2</b> 23'51 0° <b>M</b> 13° <b>M</b> 19'07 0° <b>₹</b>	17°50'27	min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 04 06:28 4529 Oct 09 08:00 4529 Oct 10 08:53 4529 Oct 11 14:45	6° \$\Omega 02'19 3° \$\Omega 22'44 3° \$\Omega 10'24 30° R M) 28° My 37'03 28° My 15'50 0° \$\Omega \text{46'45} 1° \$\Omega 53'39	-4°28'51 4°27'36
morning rise direct asc. node morning max el morning set	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05 4528 Nov 13 02:13 4528 Nov 22 14:29 4528 Nov 24 09:12	15° № 21'44 14° № 56'19 15° № 18'31 18° № 23'51 0° № 13° № 19'07 0° ৵ 3° ৵ 01'39	17°50'27 0°33'29	min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 04 06:28 4529 Oct 09 08:00 4529 Oct 10 08:53 4529 Oct 11 14:45 4529 Oct 27 09:17	6° \$\Omega 02'19 3° \$\Omega 22'44 3° \$\Omega 10'24 30° R Mp 28° Mp 37'03 28° Mp 15'50 0° \$\Omega 46'45 1° \$\Omega 53'39 26° \$\Omega 52'19	-4°28'51 4°27'36
morning rise direct asc. node morning max el morning set  superior conj minimum elong	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05 4528 Nov 13 02:13 4528 Nov 22 14:29 4528 Nov 24 09:12 4528 Nov 24 12:14	15° \$\Delta 21'44 14° \$\Delta 56'19 15° \$\Delta 18'31 18° \$\Delta 23'51 0° \$\mathbb{M}\$. 13° \$\mathbb{M}\$.19'07 0° \$\delta \delta \delta 01'39 3° \$\delta 14'28	17°50'27 0°33'29	min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 04 06:28 4529 Oct 09 08:00 4529 Oct 10 08:53 4529 Oct 11 14:45 4529 Oct 27 09:17	6°	-4°28'51 4°27'36
morning rise direct asc. node morning max el morning set  superior conj minimum elong desc. node	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05 4528 Nov 13 02:13 4528 Nov 22 14:29 4528 Nov 24 09:12 4528 Nov 24 12:14 4528 Nov 29 05:03	15° № 21'44 14° № 56'19 15° № 18'31 18° № 223'51 0° № 13° № 19'07 0° ৵ 3° ৵ 01'39 3° ৵ 14'28 11° ৵ 04'06	17°50'27 0°33'29 0°33'03	min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 04 06:28 4529 Oct 09 08:00 4529 Oct 10 08:53 4529 Oct 11 14:45 4529 Oct 27 09:17 4529 Oct 29 01:30	6°	-4°28'51 4°27'36 18°05'09
morning rise direct asc. node morning max el morning set  superior conj minimum elong desc. node max. Earth dist.	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05 4528 Nov 13 02:13 4528 Nov 22 14:29 4528 Nov 24 09:12 4528 Nov 24 12:14 4528 Nov 29 05:03 4528 Dec 01 08:40	15° \$\Delta 21'44 14° \$\Delta 56'19 15° \$\Delta 18'31 18° \$\Delta 23'51 0° \$\mathbb{M}\$ 13° \$\mathbb{M}\$ 19'07 0° \$\delta'\$ 3° \$\delta 01'39 3° \$\delta 14'28 11° \$\delta 04'06 14° \$\delta 34'24	17°50'27 0°33'29 0°33'03	min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 04 06:28 4529 Oct 09 08:00 4529 Oct 10 08:53 4529 Oct 11 14:45 4529 Oct 27 09:17 4529 Oct 29 01:30	6°	-4°28'51 4°27'36 18°05'09
morning rise direct asc. node morning max el morning set  superior conj minimum elong desc. node max. Earth dist.	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05 4528 Nov 13 02:13 4528 Nov 22 14:29 4528 Nov 24 09:12 4528 Nov 24 09:12 4528 Nov 29 05:03 4528 Dec 01 08:40 4528 Dec 09 04:58	15° \( \Omega \) 21'44 14° \( \Omega \) 56'19 15° \( \Omega \) 18'31 18° \( \Omega \) 23'51 0° \( \mathbb{M} \) 19'07 0° \( \string \) 7'01'39 3° \( \string \) 14'28 11° \( \string \) 04'06 14° \( \string \) 3'4'24 27° \( \string \) 00'26	17°50'27 0°33'29 0°33'03	min. Earth dist. inferior conj minimum elong  morning rise direct  asc. node morning max el morning set  superior conj minimum elong	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 04 06:28 4529 Oct 10 08:53 4529 Oct 11 14:45 4529 Oct 27 09:17 4529 Oct 29 01:30 4529 Nov 06 04:13 4529 Nov 06 08:17	6° \$\textit{\Omega}02'19 3° \$\textit{\Omega}22'44 3° \$\textit{\Omega}10'24 30° R \$\textit{\Psi} 28° \$\textit{\Omega}37'03 28° \$\textit{\Omega}15'50 0° \$\textit{\Omega} 0° \$\textit{\Omega}46'45 1° \$\textit{\Omega}53'39 26° \$\textit{\Omega}52'19 0° \$\textit{\Dmega} 14° \$\textit{\Cma}51'38 15° \$\textit{\Cma}09'44	-4°28'51 4°27'36 18°05'09 1°06'16 1°05'46
morning rise direct asc. node morning max el morning set  superior conj minimum elong desc. node max. Earth dist. evening rise	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05 4528 Nov 13 02:13 4528 Nov 22 14:29 4528 Nov 24 09:12 4528 Nov 24 12:14 4528 Nov 29 05:03 4528 Dec 01 08:40 4528 Dec 09 04:58 4528 Dec 11 03:26	15°至21'44 14°至56'19 15°至18'31 18°至23'51 0°肌 13°肌19'07 0°ズ 3°ズ101'39 3°ズ14'28 11°ズ04'06 14°ズ34'24 27°ズ00'26 0°云	17°50'27 0°33'29 0°33'03	min. Earth dist. inferior conj minimum elong  morning rise direct  asc. node morning max el morning set  superior conj minimum elong	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 09 08:00 4529 Oct 10 08:53 4529 Oct 11 14:45 4529 Oct 27 09:17 4529 Oct 29 01:30 4529 Nov 06 04:13 4529 Nov 06 08:17 4529 Nov 13 19:53	6° \$\textit{\Omega}02'19 3° \$\textit{\Omega}22'44 3° \$\textit{\Omega}10'24 30° R \$\textit{\Omega}7'03 28° \$\textit{\Omega}15'50 0° \$\textit{\Omega}46'45 1° \$\textit{\Omega}52'19 0° \$\textit{\Omega} 14° \$\textit{\Omega}51'38 15° \$\textit{\Omega}09'44 28° \$\textit{\Omega}05'44	-4°28'51 4°27'36 18°05'09 1°06'16 1°05'46
morning rise direct asc. node morning max el morning set  superior conj minimum elong desc. node max. Earth dist.	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05 4528 Nov 13 02:13 4528 Nov 22 14:29 4528 Nov 24 09:12 4528 Nov 24 12:14 4528 Nov 29 05:03 4528 Dec 01 08:40 4528 Dec 01 03:26 4528 Dec 31 16:54	15° \$\Delta 21'44 14° \$\Delta 56'19 15° \$\Delta 18'31 18° \$\Delta 23'51 0° \$\mathbb{M}\$ 13° \$\mathbb{M}\$ 19'07 0° \$\delta'\$ 3° \$\delta 01'39 3° \$\delta 14'28 11° \$\delta 04'06 14° \$\delta 34'24 27° \$\delta 00'26 0° \$\delta\$ 0° \$\delta\$	17°50'27 0°33'29 0°33'03 1.43482 AU	min. Earth dist. inferior conj minimum elong  morning rise direct  asc. node morning max el morning set  superior conj minimum elong max. Earth dist.	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 09 08:00 4529 Oct 10 08:53 4529 Oct 11 14:45 4529 Oct 27 09:17 4529 Oct 29 01:30 4529 Nov 06 04:13 4529 Nov 06 08:17 4529 Nov 13 19:53 4529 Nov 14 23:17	6° \( \Omega 02'19\) 3° \( \Omega 22'44\) 3° \( \Omega 10'24\) 30° \( \Omega N)\) 28° \( \Omega 37'03\) 28° \( \Omega 15'50\) 0° \( \Omega 46'45\) 1° \( \Omega 52'19\) 0° \( \Omega 52'19\) 0° \( \Omega 15'38\) 15° \( \Omega 09'44\) 28° \( \Omega 05'44\) 0° \( \nabla '\)	-4°28'51 4°27'36 18°05'09 1°06'16 1°05'46
morning rise direct asc. node morning max el morning set  superior conj minimum elong desc. node max. Earth dist. evening rise	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05 4528 Nov 13 02:13 4528 Nov 22 14:29 4528 Nov 24 09:12 4528 Nov 24 12:14 4528 Nov 29 05:03 4528 Dec 01 08:40 4528 Dec 09 04:58 4528 Dec 11 03:26 4528 Dec 31 16:54 4529 Jan 08 22:11	15° № 21'44 14° № 56'19 15° № 18'31 18° № 23'51 0° № 13° № 19'07 0° ※ 3° ※ 101'39 3° ※ 14'28 11° ※ 04'06 14° ※ 34'24 27° ※ 00'26 0° № 9° ≈ 55'32	17°50'27 0°33'29 0°33'03 1.43482 AU	min. Earth dist. inferior conj minimum elong  morning rise direct  asc. node morning max el morning set  superior conj minimum elong max. Earth dist.  desc. node	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 09 08:00 4529 Oct 10 08:53 4529 Oct 11 14:45 4529 Oct 27 09:17 4529 Oct 29 01:30  4529 Nov 06 04:13 4529 Nov 06 08:17 4529 Nov 13 19:53 4529 Nov 14 23:17 4529 Nov 16 02:04 4529 Nov 19 05:18	6° \( \Omega 02'19 \) 3° \( \Omega 22'44 \) 30° \( \Omega \) 28° \( \Omega 37'03 \) 28° \( \Omega 15'50 \) 0° \( \Omega \) 0° \( \Omega 46'45 \) 1° \( \Omega 52'19 \) 0° \( \Omega \) 14° \( \Omega 52'19 \) 0° \( \Omega \) 14° \( \Omega 51'38 \) 15° \( \Omega 09'44 \) 28° \( \Omega 05'44 \) 0° \( \neq '\) 1° \( \neq 50'42 \)	-4°28'51 4°27'36 18°05'09 1°06'16 1°05'46
morning rise direct asc. node morning max el morning set  superior conj minimum elong desc. node max. Earth dist. evening rise  evening max el retrograde asc. node	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05 4528 Nov 13 02:13 4528 Nov 22 14:29 4528 Nov 24 09:12 4528 Nov 24 12:14 4528 Nov 29 05:03 4528 Dec 01 08:40 4528 Dec 09 04:58 4528 Dec 11 03:26 4528 Dec 31 16:54 4529 Jan 08 22:11 4529 Jan 17 18:24	15° № 21'44 14° № 56'19 15° № 18'31 18° № 23'51 0° № 13° № 19'07 0° ※ 3° ※ 101'39 3° ※ 14'28 11° ※ 04'06 14° ※ 34'24 27° ※ 00'26 0° № 9° ≈ 55'32 15° ≈ 10'16	17°50'27 0°33'29 0°33'03 1.43482 AU	min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set  superior conj minimum elong max. Earth dist. desc. node evening rise	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 09 08:00 4529 Oct 10 08:53 4529 Oct 11 14:45 4529 Oct 27 09:17 4529 Oct 29 01:30  4529 Nov 06 04:13 4529 Nov 06 08:17 4529 Nov 13 19:53 4529 Nov 14 23:17 4529 Nov 16 02:04	6° \( \Omega 02'19 \) 3° \( \Omega 22'44 \) 30° \( \Omega \) 28° \( \Omega 37'03 \) 28° \( \Omega 15'50 \) 0° \( \Omega \) 0° \( \Omega 46'45 \) 1° \( \Omega 52'19 \) 0° \( \Omega \) 14° \( \Omega 52'19 \) 0° \( \Omega \) 14° \( \Omega 52'19 \) 0° \( \Omega \) 15° \( \Omega 09'44 \) 28° \( \Omega 05'44 \) 0° \( \neq '\) 1° \( \neq 50'42 \) 6° \( \neq '56'37 \)	-4°28'51 4°27'36 18°05'09 1°06'16 1°05'46 1.41736 AU
morning rise direct asc. node morning max el morning set  superior conj minimum elong desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05 4528 Nov 13 02:13 4528 Nov 22 14:29 4528 Nov 24 09:12 4528 Nov 24 12:14 4528 Nov 29 05:03 4528 Dec 01 08:40 4528 Dec 11 03:26 4528 Dec 31 16:54 4529 Jan 08 22:11 4529 Jan 17 18:24 4529 Jan 19 11:05 4529 Jan 21 23:59	15° № 21'44 14° № 56'19 15° № 18'31 18° № 23'51 0° № 13° № 19'07 0° ৵ 3° ৵ 01'39 3° ৵ 14'28 11° ৵ 04'06 14° ৵ 34'24 27° ৵ 00'26 0° № 9° ≈ 55'32 15° ≈ 10'16 14° ≈ 54'44 13° ≈ 30'36	17°50'27 0°33'29 0°33'03 1.43482 AU 21°25'39	min. Earth dist. inferior conj minimum elong  morning rise direct  asc. node morning max el morning set  superior conj minimum elong max. Earth dist.  desc. node evening rise  evening max el	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 04 06:28 4529 Oct 10 08:53 4529 Oct 11 14:45 4529 Oct 27 09:17 4529 Oct 29 01:30  4529 Nov 06 04:13 4529 Nov 13 19:53 4529 Nov 14 23:17 4529 Nov 16 02:04 4529 Nov 19 05:18 4529 Dec 04 08:23 4529 Dec 22 15:21	6° \( \Omega 02'19 \) 3° \( \Omega 22'44 \) 30° \( \Omega \) 28° \( \Omega 37'03 \) 28° \( \Omega 15'50 \) 0° \( \Omega \) 0° \( \Omega 46'45 \) 1° \( \Omega 53'39 \) 26° \( \Omega 52'19 \) 0° \( \Omega \) 14° \( \Omega 52'19 \) 0° \( \Omega \) 15° \( \Omega 09'44 \) 28° \( \Omega 05'44 \) 0° \( \omega \) 1° \( \omega 50'42 \) 6° \( \omega 56'37 \) 0° \( \omega \) 23° \( \omega 31'28 \)	-4°28'51 4°27'36 18°05'09 1°06'16 1°05'46 1.41736 AU
morning rise direct asc. node morning max el  morning set  superior conj minimum elong desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set inferior conj	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05 4528 Nov 13 02:13 4528 Nov 22 14:29  4528 Nov 24 09:12 4528 Nov 24 12:14 4528 Nov 29 05:03 4528 Dec 01 08:40 4528 Dec 09 04:58 4528 Dec 11 03:26 4528 Dec 31 16:54 4529 Jan 08 22:11 4529 Jan 17 18:24 4529 Jan 19 11:05 4529 Jan 21 23:59 4529 Jan 27 08:10	15° № 21'44 14° № 56'19 15° № 18'31 18° № 23'51 0° № 13° № 19'07 0° ※ 3° ※ 14'28 11° ※ 04'06 14° ※ 34'24 27° ※ 00'26 0° № 9° ≈ 55'32 15° ≈ 10'16 14° ≈ 54'44 13° ≈ 30'36 7° ≈ 15'00	17°50'27 0°33'29 0°33'03 1.43482 AU 21°25'39 2°24'26	min. Earth dist. inferior conj minimum elong  morning rise direct  asc. node morning max el morning set  superior conj minimum elong max. Earth dist.  desc. node evening rise  evening max el retrograde	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 09 08:00 4529 Oct 10 08:53 4529 Oct 11 14:45 4529 Oct 27 09:17 4529 Oct 29 01:30  4529 Nov 06 04:13 4529 Nov 06 08:17 4529 Nov 13 19:53 4529 Nov 14 23:17 4529 Nov 16 02:04 4529 Nov 19 05:18 4529 Dec 04 08:23 4529 Dec 22 15:21 4530 Jan 01 14:00	6° \$\textit{\Omega} 02'19 3° \$\textit{\Omega} 22'44 3° \$\textit{\Omega} 10'24 30° \$\textit{\Pi} \textit{\Omega} 37'03 28° \$\textit{\Pi} 15'50 0° \$\textit{\Omega} 46'45 1° \$\textit{\Omega} 53'39 26° \$\textit{\Omega} 52'19 0° \$\textit{\Comma} \textit{\Omega} \textit{\Omega} 52'19 0° \$\textit{\Comma} \textit{\Omega} \textit{\Omega} 52'19 0° \$\textit{\Comma} \textit{\Omega} \textit{\Omega} 52'19 0° \$\textit{\Omega} \textit{\Omega} 52'19 0° \$\textit{\Omega} \textit{\Omega} 52'19 0° \$\textit{\Omega} \textit{\Omega} 55'37 0° \$\textit{\Omega} 23" \$\textit{\Omega} 31'28 29" \$\textit{\Omega} 25'43	-4°28'51 4°27'36 18°05'09 1°06'16 1°05'46 1.41736 AU
morning rise direct asc. node morning max el morning set  superior conj minimum elong desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05 4528 Nov 13 02:13 4528 Nov 22 14:29  4528 Nov 24 09:12 4528 Nov 24 12:14 4528 Nov 29 05:03 4528 Dec 01 08:40 4528 Dec 09 04:58 4528 Dec 11 03:26 4528 Dec 31 16:54 4529 Jan 08 22:11 4529 Jan 17 18:24 4529 Jan 19 11:05 4529 Jan 27 08:10 4529 Jan 27 08:10 4529 Jan 27 05:44	15° № 21'44 14° № 56'19 15° № 18'31 18° № 23'51 0° № 13° № 19'07 0° ※ 3° ※ 14'28 11° ※ 04'06 14° ※ 34'24 27° ※ 00'26 0° ※ 9° ≈ 55'32 15° ≈ 10'16 14° ≈ 54'44 13° ≈ 30'36 7° ≈ 15'00 7° ≈ 23'26	17°50'27  0°33'29 0°33'03  1.43482 AU  21°25'39  2°24'26 2°23'42	min. Earth dist. inferior conj minimum elong  morning rise direct  asc. node morning max el morning set  superior conj minimum elong max. Earth dist.  desc. node evening rise  evening max el retrograde evening set	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 09 08:00 4529 Oct 10 08:53 4529 Oct 11 14:45 4529 Oct 27 09:17 4529 Oct 29 01:30  4529 Nov 06 04:13 4529 Nov 06 08:17 4529 Nov 13 19:53 4529 Nov 14 23:17 4529 Nov 16 02:04 4529 Nov 19 05:18 4529 Dec 04 08:23 4529 Dec 22 15:21 4530 Jan 01 14:00 4530 Jan 06 07:15	6° 202'19 3° 22'44 3° 210'24 30° 8 Mp 28° Mp 37'03 28° Mp 15'50 0° 2 0° 246'45 1° 253'39 26° 252'19 0° M.  14° M.51'38 15° M.09'44 28° M.05'44 0° ₹ 1° ₹ 50'42 6° ₹ 56'37 0° ₹ 23° ₹ 331'28 29° ₹ 25'43 27° ₹ 30'03	-4°28'51 4°27'36 18°05'09 1°06'16 1°05'46 1.41736 AU
morning rise direct asc. node morning max el  morning set  superior conj minimum elong desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05 4528 Nov 13 02:13 4528 Nov 22 14:29  4528 Nov 24 09:12 4528 Nov 24 12:14 4528 Nov 29 05:03 4528 Dec 01 08:40 4528 Dec 09 04:58 4528 Dec 11 03:26 4528 Dec 11 03:26 4528 Dec 31 16:54 4529 Jan 08 22:11 4529 Jan 17 18:24 4529 Jan 19 11:05 4529 Jan 27 08:10 4529 Jan 27 05:44 4529 Jan 27 05:44 4529 Jan 27 05:44 4529 Jan 27 14:00	15° \$\to 21'44\ 14° \$\to 56'19\ 15° \$\to 18'31\ 18° \$\to 23'51\ 0° \$\mathbb{M}\ 13° \$\mathbb{M}\ 19'07\ 0° \$\stacksquare{A}\ 3° \$\stacksquare{A}' 01'39\ 3° \$\stacksquare{A}' 04'06\ 14° \$\stacksquare{A}' 34'24\ 27° \$\stacksquare{A}' 00'26\ 0° \$\to \to \to \to \to \to \to \to \to \to	17°50'27 0°33'29 0°33'03 1.43482 AU 21°25'39 2°24'26	min. Earth dist. inferior conj minimum elong  morning rise direct  asc. node morning max el morning set  superior conj minimum elong max. Earth dist.  desc. node evening rise  evening max el retrograde evening set asc. node	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 09 08:00 4529 Oct 10 08:53 4529 Oct 11 14:45 4529 Oct 27 09:17 4529 Oct 29 01:30  4529 Nov 06 04:13 4529 Nov 06 08:17 4529 Nov 13 19:53 4529 Nov 14 23:17 4529 Nov 16 02:04 4529 Nov 19 05:18 4529 Dec 04 08:23 4529 Dec 22 15:21 4530 Jan 01 14:00 4530 Jan 06 07:15 4530 Jan 06 08:06	6° \$\textit{\Omega}02'19 3° \$\textit{\Omega}22'44 3° \$\textit{\Omega}10'24 30° R Mp 28° Mp 37'03 28° Mp 15'50 0° \$\textit{\Omega} 0° \$\textit{\Omega}46'45 1° \$\textit{\Omega}52'19 0° M.  14° M.51'38 15° M.09'44 28° M.05'44 0° \$\textit{\omega} 1° \$\textit{\omega}50'42 6° \$\textit{\omega}56'37 0° \$\textit{\omega}23° \$\textit{\omega}31'28 29° \$\textit{\omega}25'43 27° \$\textit{\omega}30'03 27° \$\textit{\omega}28'17	-4°28'51 4°27'36 18°05'09 1°06'16 1°05'46 1.41736 AU 22°43'05
morning rise direct asc. node morning max el morning set  superior conj minimum elong desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05 4528 Nov 13 02:13 4528 Nov 22 14:29  4528 Nov 24 09:12 4528 Nov 24 12:14 4528 Nov 29 05:03 4528 Dec 01 08:40 4528 Dec 09 04:58 4528 Dec 11 03:26 4528 Dec 11 03:26 4528 Dec 31 16:54 4529 Jan 08 22:11 4529 Jan 17 18:24 4529 Jan 19 11:05 4529 Jan 27 08:10 4529 Jan 27 08:10 4529 Jan 27 14:00 4529 Feb 01 11:18	15° \( \Omega \) 21'44  14° \( \Omega \) 56'19  15° \( \Omega \) 18'31  18° \( \Omega \) 23'51  0° \( \mathbb{M} \)  13° \( \mathbb{M} \) 19'07  0° \( \struct \)  3° \( \struct \) 01'39  3° \( \struct \) 14'28  11° \( \struct \) 04'06  14° \( \struct \) 3'4'24  27° \( \struct \) 00'26  0° \( \struct \)  0° \( \struct \) 3'00'26  0° \( \struct \) 3'00'26  15° \( \ind \) 10'16  14° \( \ind \) 54'44  13° \( \ind \) 30'36  7° \( \ind \) 15'00  7° \( \ind \) 23'26  6° \( \ind \) 54'49  1° \( \ind \) 02'41	17°50'27  0°33'29 0°33'03  1.43482 AU  21°25'39  2°24'26 2°23'42	min. Earth dist. inferior conj minimum elong  morning rise direct  asc. node morning max el morning set  superior conj minimum elong max. Earth dist.  desc. node evening rise  evening max el retrograde evening set asc. node inferior conj	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 09 08:00 4529 Oct 10 08:53 4529 Oct 11 14:45 4529 Oct 27 09:17 4529 Oct 29 01:30  4529 Nov 06 04:13 4529 Nov 06 08:17 4529 Nov 13 19:53 4529 Nov 14 23:17 4529 Nov 16 02:04 4529 Nov 19 05:18 4529 Dec 04 08:23 4529 Dec 22 15:21 4530 Jan 01 14:00 4530 Jan 06 07:15 4530 Jan 06 08:06 4530 Jan 11 16:05	6° \( \Omega 02'19 \) 3° \( \Omega 22'44 \) 3° \( \Omega 22'44 \) 3° \( \Omega 20'24 \) 30° \( \Omega \) 28° \( \Omega 37'03 \) 28° \( \Omega 15'50 \) 0° \( \Omega \) 0° \( \Omega 46'45 \) 1° \( \Omega 52'19 \) 0° \( \Omega \) 14° \( \Omega 52'19 \) 0° \( \Omega \) 14° \( \Omega 52'19 \) 0° \( \Omega \) 14° \( \Omega 52'19 \) 0° \( \Omega \) 18° \( \Omega 52'19 \) 0° \( \Omega \) 28° \( \Omega 35'138 \) 29° \( \Omega 25'43 \) 27° \( \Omega 30'03 \) 27° \( \Omega 28'17 \) 21° \( \Omega 07'18 \)	-4°28'51 4°27'36 18°05'09 1°06'16 1°05'46 1.41736 AU 22°43'05
morning rise direct asc. node morning max el  morning set  superior conj minimum elong desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05 4528 Nov 13 02:13 4528 Nov 22 14:29  4528 Nov 24 09:12 4528 Nov 24 12:14 4528 Nov 29 05:03 4528 Dec 01 08:40 4528 Dec 01 08:40 4528 Dec 11 03:26 4528 Dec 11 03:26 4528 Dec 31 16:54 4529 Jan 08 22:11 4529 Jan 17 18:24 4529 Jan 19 11:05 4529 Jan 27 08:10 4529 Jan 27 08:10 4529 Jan 27 14:00 4529 Feb 01 11:18 4529 Feb 02 20:03	15°至21'44 14°至56'19 15°至18'31 18°至23'51 0°肌 13°肌19'07 0°ズ 3°ズ01'39 3°ズ14'28 11°ズ04'06 14°ズ34'24 27°ズ00'26 0°云 0°≈ 9°≈55'32 15°≈10'16 14°≈54'44 13°≈30'36 7°≈15'00 7°≈23'26 6°≈54'49 1°≈02'41 30°Rろ	17°50'27  0°33'29 0°33'03  1.43482 AU  21°25'39  2°24'26 2°23'42	min. Earth dist. inferior conj minimum elong  morning rise direct  asc. node morning max el morning set  superior conj minimum elong max. Earth dist.  desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 09 08:00 4529 Oct 10 08:53 4529 Oct 11 14:45 4529 Oct 27 09:17 4529 Oct 29 01:30  4529 Nov 06 04:13 4529 Nov 06 08:17 4529 Nov 13 19:53 4529 Nov 14 23:17 4529 Nov 16 02:04 4529 Nov 19 05:18 4529 Dec 04 08:23 4529 Dec 22 15:21 4530 Jan 01 14:00 4530 Jan 06 08:06 4530 Jan 11 16:05 4530 Jan 11 16:05	6° \( \Omega 02'19 \) 3° \( \Omega 22'44 \) 3° \( \Omega 22'44 \) 3° \( \Omega 20'8 \) 28° \( \Omega 37'03 \) 28° \( \Omega 15'50 \) 0° \( \Omega \) 0° \( \Omega 46'45 \) 1° \( \Omega 52'19 \) 0° \( \Omega \) 14° \( \Omega 52'19 \) 0° \( \Omega \) 14° \( \Omega 52'19 \) 0° \( \Omega \) 14° \( \Omega 52'19 \) 0° \( \Omega \) 18° \( \Omega 50'44 \) 0° \( \Omega \) 1° \( \Omega 50'44 \) 0° \( \Omega \) 1° \( \Omega 50'42 \) 6° \( \Omega 55'43 \) 27° \( \Omega 30'03 \) 27° \( \Omega 28'17 \) 21° \( \Omega 07'18 \) 21° \( \Omega 14'30 \)	-4°28'51 4°27'36 18°05'09 1°06'16 1°05'46 1.41736 AU 22°43'05 1°43'22 1°42'37
morning rise direct asc. node morning max el  morning set  superior conj minimum elong desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05 4528 Nov 13 02:13 4528 Nov 22 14:29  4528 Nov 24 09:12 4528 Nov 24 12:14 4528 Nov 29 05:03 4528 Dec 01 08:40 4528 Dec 01 08:40 4528 Dec 11 03:26 4528 Dec 11 03:26 4528 Dec 31 16:54 4529 Jan 08 22:11 4529 Jan 17 18:24 4529 Jan 19 11:05 4529 Jan 27 08:10 4529 Jan 27 08:10 4529 Jan 27 05:44 4529 Jan 27 14:00 4529 Feb 01 11:18 4529 Feb 02 20:03 4529 Feb 06 14:30	15°至21'44 14°至56'19 15°至18'31 18°至23'51 0°肌 13°肌19'07 0°ズ 3°ズ01'39 3°ズ14'28 11°ズ04'06 14°ズ34'24 27°ズ00'26 0°云 0°≈ 9°≈55'32 15°≈10'16 14°≈54'44 13°≈30'36 7°≈15'00 7°≈23'26 6°≈54'49 1°≈02'41 30°尺式 28°云48'44	17°50'27  0°33'29 0°33'03  1.43482 AU  21°25'39  2°24'26 2°23'42	min. Earth dist. inferior conj minimum elong  morning rise direct  asc. node morning max el morning set  superior conj minimum elong max. Earth dist.  desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 09 08:00 4529 Oct 10 08:53 4529 Oct 11 14:45 4529 Oct 27 09:17 4529 Oct 29 01:30  4529 Nov 06 04:13 4529 Nov 06 08:17 4529 Nov 13 19:53 4529 Nov 14 23:17 4529 Nov 16 02:04 4529 Nov 19 05:18 4529 Dec 04 08:23 4529 Dec 22 15:21 4530 Jan 01 14:00 4530 Jan 06 07:15 4530 Jan 11 16:05 4530 Jan 11 16:05 4530 Jan 11 11:00 4530 Jan 11 11:00	6° \( \Omega 02'19 \) 3° \( \Omega 22'44 \) 3° \( \Omega 22'44 \) 3° \( \Omega 10'24 \) 30° \( \Omega \) 28° \( \Omega 37'03 \) 28° \( \Omega 15'50 \) 0° \( \Omega \) 46' \( \Omega 52'19 \) 0° \( \Omega \) 14° \( \Omega 52'19 \) 0° \( \Omega \) 14° \( \Omega 52'19 \) 0° \( \Omega \) 14° \( \Omega 52'19 \) 0° \( \Omega \) 1° \( \Omega 52'19 \) 0° \( \Omega \) 1° \( \Omega 52'19 \) 0° \( \Omega \) 1° \( \Omega 52'19 \) 23° \( \Omega 31'28 \) 29° \( \Omega 25'43 \) 27° \( \Omega 30'03 \) 27° \( \Omega 28'17 \) 21° \( \Omega 07'18 \) 21° \( \Omega 14'30 \) 21° \( \Omega 26'55 \)	-4°28'51 4°27'36 18°05'09 1°06'16 1°05'46 1.41736 AU 22°43'05
morning rise direct asc. node morning max el  morning set  superior conj minimum elong desc. node max. Earth dist. evening rise  evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	4528 Oct 18 22:28 4528 Oct 21 07:24 4528 Oct 23 11:51 4528 Oct 28 01:48 4528 Nov 05 11:05 4528 Nov 13 02:13 4528 Nov 22 14:29  4528 Nov 24 09:12 4528 Nov 24 12:14 4528 Nov 29 05:03 4528 Dec 01 08:40 4528 Dec 01 08:40 4528 Dec 11 03:26 4528 Dec 11 03:26 4528 Dec 31 16:54 4529 Jan 08 22:11 4529 Jan 17 18:24 4529 Jan 19 11:05 4529 Jan 27 08:10 4529 Jan 27 08:10 4529 Jan 27 14:00 4529 Feb 01 11:18 4529 Feb 02 20:03	15°至21'44 14°至56'19 15°至18'31 18°至23'51 0°肌 13°肌19'07 0°ズ 3°ズ01'39 3°ズ14'28 11°ズ04'06 14°ズ34'24 27°ズ00'26 0°云 0°≈ 9°≈55'32 15°≈10'16 14°≈54'44 13°≈30'36 7°≈15'00 7°≈23'26 6°≈54'49 1°≈02'41 30°Rろ	17°50'27 0°33'29 0°33'03 1.43482 AU 21°25'39 2°24'26 2°23'42 0.67896 AU	min. Earth dist. inferior conj minimum elong  morning rise direct  asc. node morning max el morning set  superior conj minimum elong max. Earth dist.  desc. node evening rise  evening max el retrograde evening set asc. node inferior conj minimum elong	4529 Sep 21 04:40 4529 Sep 24 09:38 4529 Sep 24 15:33 4529 Sep 28 22:02 4529 Oct 01 22:12 4529 Oct 09 08:00 4529 Oct 10 08:53 4529 Oct 11 14:45 4529 Oct 27 09:17 4529 Oct 29 01:30  4529 Nov 06 04:13 4529 Nov 06 08:17 4529 Nov 13 19:53 4529 Nov 14 23:17 4529 Nov 16 02:04 4529 Nov 19 05:18 4529 Dec 04 08:23 4529 Dec 22 15:21 4530 Jan 01 14:00 4530 Jan 06 08:06 4530 Jan 11 16:05 4530 Jan 11 16:05	6° \( \Omega 02'19 \) 3° \( \Omega 22'44 \) 3° \( \Omega 22'44 \) 3° \( \Omega 20'8 \) 28° \( \Omega 37'03 \) 28° \( \Omega 15'50 \) 0° \( \Omega \) 0° \( \Omega 46'45 \) 1° \( \Omega 52'19 \) 0° \( \Omega \) 14° \( \Omega 52'19 \) 0° \( \Omega \) 14° \( \Omega 52'19 \) 0° \( \Omega \) 14° \( \Omega 52'19 \) 0° \( \Omega \) 18° \( \Omega 50'44 \) 0° \( \Omega \) 1° \( \Omega 50'44 \) 0° \( \Omega \) 1° \( \Omega 50'42 \) 6° \( \Omega 55'43 \) 27° \( \Omega 30'03 \) 27° \( \Omega 28'17 \) 21° \( \Omega 07'18 \) 21° \( \Omega 14'30 \)	-4°28'51 4°27'36 18°05'09 1°06'16 1°05'46 1.41736 AU 22°43'05 1°43'22 1°42'37

morning max el	4530 Jan 30 09:47 4530 Feb 08 23:56	18° <b>පි</b> 23'43 0°≈	21°47'39	morning max el desc. node	4531 Jan 13 05:36 4531 Jan 29 22:20	2°る04'36 24°る11'55	20°30'03
desc. node	4530 Feb 12 01:17	4° <b>≈</b> 12'37			4531 Feb 02 19:35	0° <b>≈</b>	
	4530 Mar 01 07:25	0° <b>∀</b>		morning set	4531 Feb 10 20:36	12° <b>≈</b> 17'38	
morning set	4530 Mar 03 19:22	3° <b>)</b> €57'48	1 41550 177	max. Earth dist.	4531 Feb 20 04:41		1.43378 AU
max. Earth dist.	4530 Mar 09 22:15	13° <b>)</b> € 56'30	1.41550 AU		4531 Feb 22 00:31	0° <b>)</b> €	
superior conj	4530 Mar 17 14:04	27° <b>)</b> €01'40	-2°03'16	superior conj	4531 Feb 26 13:39	7° <b>)</b> €28'51	-2°07'55
minimum elong	4530 Mar 17 17:27	27° <b>)</b> 16'29		minimum elong	4531 Feb 26 12:27	7° <b>¥</b> 23'51	
	4530 Mar 19 06:29	$0^{\circ}\mathbf{\Upsilon}$		evening rise	4531 Mar 10 21:43	28° <b>)</b> 39′26	
evening rise	4530 Mar 28 07:54	16° <b>Y</b> 28′05		-	4531 Mar 11 16:04	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	4530 Apr 04 07:25	29° <b>Y</b> 05'23		asc. node	4531 Mar 22 04:26	17° <b>Y</b> 48'16	
	4530 Apr 04 20:07	$9^{\circ}$ 8		evening max el	4531 Mar 28 03:48	25° <b>Ƴ</b> 32'17	18°07'14
evening max el	4530 Apr 13 15:38	12° <b>8</b> 24'10	18°12'06	retrograde	4531 Apr 03 15:33	28° <b>Y</b> 54'40	
retrograde	4530 Apr 20 13:57	15° <b>8</b> 53'28		evening set	4531 Apr 06 09:57	28° <b>Y</b> 17'06	2021150
evening set	4530 Apr 23 02:11	15° <b>8</b> 26'43	2°46'10	inferior conj	4531 Apr 12 18:12	23°Υ10'08 23°Υ05'08	3°21'50 3°21'35
inferior conj minimum elong	4530 Apr 30 00:42 4530 Apr 30 04:03	10 <b>8</b> 3943	2°45'24	minimum elong min. Earth dist.	4531 Apr 12 20:08 4531 Apr 15 17:17	$20^{\circ}$ \begin{picture}(70.808) \\ 20^{\circ}\begin{picture}(70.808) \\ 20^{\circ}\b	0.62042 AU
min. Earth dist.	4530 May 03 09:35	7° <b>8</b> 40'01	0.59863 AU	morning rise	4531 Apr 19 04:43	17° <b>Υ</b> 08'54	0.02042 AU
morning rise	4530 May 07 03:24	4° <b>8</b> 54'50	0.57005710	direct	4531 Apr 26 00:42	14° <b>Y</b> 41'03	
desc. node	4530 May 11 00:28	3° <b>8</b> 15'57		desc. node	4531 Apr 27 21:31	14° <b>Υ</b> 51'19	
direct	4530 May 13 14:41	2° <b>8</b> 57'07		morning max el	4531 May 10 03:55	22° <b>Y</b> 40'33	27°52'23
morning max el	4530 May 27 23:02	10° <b>8</b> 48'50	27°33'25		4531 May 16 15:21	$9^{\circ}$ 8	
	4530 Jun 11 20:58	$\Pi^{\circ}0$			4531 Jun 05 01:26	$\Pi^{\circ}0$	
	4530 Jun 28 09:30	0ಂತಾ		morning set	4531 Jun 12 17:13	14° <b>Ⅱ</b> 46'45	
morning set	4530 Jun 28 14:54	0°528'02		asc. node	4531 Jun 18 03:45	26° <b>Ⅱ</b> 12'31	
asc. node	4530 Jul 01 06:42	6°505'28	1 21000 411	max. Earth dist.	4531 Jun 18 09:16	26° <b>∏</b> 42'21	1.32344 AU
max. Earth dist.	4530 Jul 05 00:43	14°©15'31	1.31999 AU		4531 Jun 19 21:43	0ಂತಾ	
superior conj	4530 Jul 05 18:54	15° <b>©</b> 55'40	0°45'42	superior conj	4531 Jun 20 04:42	0°\$38'02	0°21'12
minimum elong	4530 Jul 05 17:03	15°545'28	0°45'20	minimum elong	4531 Jun 20 03:43	0°532'44	0°21'00
	4530 Jul 12 05:25	$0^{\circ}\Omega$		evening rise	4531 Jun 27 01:56	15° <b>©</b> 36'01	
evening rise	4530 Jul 12 14:20	0° <b>Ω</b> 47'31			4531 Jul 04 05:22	$0^{\circ}\Omega$	
	4530 Jul 28 10:56	0° <b>т</b> р		evening max el	4531 Jul 22 01:28	25° <b>Ω</b> 39'35	24°20'24
desc. node	4530 Aug 06 23:45	12° <b>m</b> 27'01		desc. node	4531 Jul 24 20:46	28° <b>Ω</b> 07'19	
evening max el	4530 Aug 09 11:20	14° Mp 58'40	25°48'13		4531 Jul 27 12:40	0° My	
retrograde	4530 Aug 23 10:27	22° Mp 05'31		retrograde	4531 Aug 04 21:41	2° Mp 38'27	
evening set min. Earth dist.	4530 Aug 29 14:45 4530 Sep 02 23:31	20° m 35'00 17° m 58'32	0.58456 AU	evening set	4531 Aug 09 18:22 4531 Aug 13 13:57	1° Mp45'44 30° RΩ	
inferior conj	4530 Sep 02 25:31 4530 Sep 06 04:24	17 m/3832 15° m/40'12		min. Earth dist.	4531 Aug 15 12:21		0.56595 AU
minimum elong	4530 Sep 06 07:49	15° mp 34'01		inferior conj	4531 Aug 18 03:06	27° <b>Ω</b> 13'03	
morning rise	4530 Sep 14 03:09	11° mp 17'53		minimum elong	4531 Aug 18 00:56	27° <b>Ω</b> 16'29	
direct	4530 Sep 16 14:00	10° m 58'34		morning rise	4531 Aug 26 10:04	23° <b>Ω</b> 11'35	
morning max el	4530 Sep 24 21:06	14° Mp 56'23	18°40'20	direct	4531 Aug 29 02:24	22° <b>Q</b> 52'23	
asc. node	4530 Sep 27 05:56	17° <b>™</b> 29'43		morning max el	4531 Sep 07 17:40	27° <b>Ω</b> 22'11	19°37'02
	4530 Oct 05 08:45	0∘ <b>ত</b>			4531 Sep 10 05:36	0° <b>m</b>	
morning set	4530 Oct 11 03:50	10° <b>£</b> 57'57		asc. node	4531 Sep 14 02:59	5° m 11'55	
aumorior comi	4530 Oct 19 20:30	279 0 44102	1°28'11	morning set	4531 Sep 25 06:09	25° Mp 25'24 0° <u>₽</u>	
superior conj minimum elong	4530 Oct 19 20:30 4530 Oct 19 23:41	27° <b>£</b> 44'02 27° <b>£</b> 58'57	1°27'55		4531 Sep 27 12:32	0 ==	
minimum ciong	4530 Oct 19 25.41 4530 Oct 21 01:35	0°M	1 41 33	superior conj	4531 Oct 03 04:33	11° <b>≏</b> 22'27	1°40'16
max. Earth dist.	4530 Oct 27 02:13	10°M53'58	1.39685 AU	minimum elong	4531 Oct 03 06:09	11° <b>⊆</b> 30'18	1°40'11
evening rise	4530 Oct 31 03:39	17°M53'11		max. Earth dist.	4531 Oct 09 06:37	23° <b>ჲ</b> 02'27	1.37596 AU
desc. node	4530 Nov 02 23:05	22°M33'44		evening rise	4531 Oct 13 00:45	29° <b>ჲ</b> 51'58	
	4530 Nov 07 14:12	0°⊀			4531 Oct 13 02:34	$0^{\circ}$ M	
	4530 Nov 28 19:14	0° <b>ප</b>		desc. node	4531 Oct 20 20:07	13°M08'35	
evening max el	4530 Dec 05 05:08	7° <b>る</b> 10'47	24°02'57		4531 Oct 31 21:03	0° <b>∡</b> 7	
retrograde	4530 Dec 16 06:23	13°る40'47		evening max el	4531 Nov 17 17:36		25°18'41
evening set	4530 Dec 21 12:35	11°る29'20		retrograde	4531 Nov 29 18:31	27° 🖈 49'49	
asc. node inferior conj	4530 Dec 24 05:08 4530 Dec 26 23:25	8°る40'39 5°る03'25	0°55'32	evening set min. Earth dist.	4531 Dec 05 14:19 4531 Dec 10 00:56	25° <b>尽</b> 24'15 20° <b>尽</b> 28'41	0.67309 AU
minimum elong	4530 Dec 26 23:25 4530 Dec 26 22:09	5° <b>る</b> 03'23	0°55'32 0°55'01	inferior conj	4531 Dec 10 00:56 4531 Dec 11 04:22	18° <b>×</b> '28'41	0.67309 AU 0°01'51
min. Earth dist.	4530 Dec 26 22:09 4530 Dec 26 06:50	5°る59'32	0.67862 AU	minimum elong	4531 Dec 11 04:19	18° 🗷 59'56	0°01'51
	4530 Dec 31 03:35	30°R. <b>✓</b>		transit middle	4531 Dec 11 04:19	18° <b>∡</b> 59'56	0°01'51
morning rise	4531 Jan 01 07:45	28° <b>₹</b> 59'39		transit begin	4531 Dec 11 01:33	19° <b>∡</b> 08'55	
direct	4531 Jan 05 06:31	27° <b>∡</b> ³31'10		transit end	4531 Dec 11 07:05	18° <b>∡</b> 750′57	
	4531 Jan 10 22:31	0°ප		asc. node	4531 Dec 11 02:12	19° <b>₰</b> 06'50	

morning rise	4531 Dec 16 18:36	13° <b>₹</b> 03'13		inferior conj	4532 Nov 24 05:01	2° <b>∡</b> '53'01	0056122
direct	4531 Dec 10 18:30 4531 Dec 20 05:10	13 <b>x</b> 103 13		minimum elong	4532 Nov 24 05:01 4532 Nov 24 06:33	2° <b>×</b> <sup>7</sup> 48'19	
morning max el	4531 Dec 27 09:17	15° × 55'58	19°25'52	asc. node	4532 Nov 26 23:16	29°M42'08	0 33 32
morning max cr	4532 Jan 07 05:19	0°る	17 23 32	use. Houe	4532 Nov 26 16:30	30°RM	
greatest brilliancy	4532 Jan 09 14:20	³° <b>ට</b> 31'32	-0.7m	morning rise	4532 Nov 30 03:08	27°M06'17	
desc. node	4532 Jan 16 19:23	14° <b>る</b> 29'48	0.7111	direct	4532 Dec 03 03:31	26°M14'47	
morning set	4532 Jan 20 18:39	20° <b>る</b> 37'10		univer	4532 Dec 09 22:05	0° <b>⊼</b>	
morning sec	4532 Jan 26 19:38	0°≈		morning max el	4532 Dec 09 19:47	29°M54'14	18°37'17
max. Earth dist.	4532 Feb 02 17:42	10° <b>≈</b> 51'28	1.44662 AU	morning set	4532 Dec 30 13:19	0° <b>る</b> 03'46	
					4532 Dec 30 12:22	0°る	
superior conj	4532 Feb 06 11:49	16° <b>≈</b> 49'23	-1°54'34	desc. node	4533 Jan 02 16:25	5° <b>る</b> 00'53	
minimum elong	4532 Feb 06 04:32	16° <b>≈</b> 20'18	1°54'06				
Č	4532 Feb 14 15:09	0° <b>∀</b>		superior conj	4533 Jan 15 16:26	25° <b>る</b> 27'44	-1°21'53
evening rise	4532 Feb 20 15:01	9° <b>¥</b> 55'56		minimum elong	4533 Jan 15 07:19	24°る52'00	1°20'52
C	4532 Mar 03 21:04	$0^{\circ}\mathbf{\Upsilon}$		max. Earth dist.	4533 Jan 15 11:35	25° <b>る</b> 08'44	1.45264 AU
asc. node	4532 Mar 08 01:28	5° <b>Ƴ</b> 53'41			4533 Jan 18 13:49	0° <b>≈</b>	
evening max el	4532 Mar 10 16:30	8° <b>Y</b> 54'00	18°21'16	evening rise	4533 Jan 31 09:02	20°≈14'58	
retrograde	4532 Mar 17 03:22	12° <b>Ƴ</b> 22'58			4533 Feb 06 11:36	0° <b>∀</b>	
evening set	4532 Mar 20 03:50	11° <b>Y</b> 33'24		greatest brilliancy	4533 Feb 08 17:08	3° <b>)</b> 32′30	-0.8m
inferior conj	4532 Mar 26 01:42	6° <b>Ƴ</b> 07'47	3°34'39	evening max el	4533 Feb 22 03:11	22° <b>)</b> 22'57	18°53'14
minimum elong	4532 Mar 26 01:57	6° <b>Ƴ</b> 07'04	3°34'39	asc. node	4533 Feb 22 22:31	23° <b>)</b> 10′06	
min. Earth dist.	4532 Mar 28 10:16	3° <b>Y</b> 26'22	0.64017 AU	retrograde	4533 Feb 28 21:29	26° <b>ℋ</b> 10'18	
morning rise	4532 Mar 31 23:13	29° <b>ℋ</b> 58'15		evening set	4533 Mar 04 04:32	25° <b>)</b> €07'48	
	4532 Mar 31 22:22	30° <b>₹</b>		inferior conj	4533 Mar 09 19:22	19° <b>¥</b> 25′04	3°30'14
direct	4532 Apr 07 19:15	27° <b>升</b> 12′06		minimum elong	4533 Mar 09 18:14	19° <b>)</b> 28′38	3°30'08
desc. node	4532 Apr 13 18:34	28° <b>升</b> 57'42		min. Earth dist.	4533 Mar 11 12:16	17° <b>¥</b> 17'46	0.65640 AU
	4532 Apr 15 11:04	$0^{\circ}\mathbf{\Upsilon}$		morning rise	4533 Mar 15 07:32	13° <b>)</b> 11′53	
morning max el	4532 Apr 21 12:39	5° <b>Ƴ</b> 09'43	27°34'23	direct	4533 Mar 21 20:40	10° <b>¥</b> 21'36	
_	4532 May 10 08:12	$6^{\circ}B$		desc. node	4533 Mar 31 15:37	15° <b>)</b> 01′21	
morning set	4532 May 26 12:04	28° <b>8</b> 40'25		morning max el	4533 Apr 03 22:32	18° <b>¥</b> 05'03	26°44'44
	4532 May 27 04:06	$\Pi^{\circ}0$			4533 Apr 13 22:57	$0^{\circ}\mathbf{Y}$	
max. Earth dist.	4532 May 31 10:56	8° <b>Ⅱ</b> 45'16	1.33131 AU		4533 May 03 07:02	0°8	
	•			morning set	4533 May 09 20:05	11° <b>8</b> 58'15	
superior conj	4532 Jun 03 10:51	15° <b>Ⅲ</b> 05'34	-0°06'04	max. Earth dist.	4533 May 14 02:17	20° <b>8</b> 16'35	1.34388 AU
minimum elong	4532 Jun 03 11:10	15° <b>Ⅲ</b> 07'13	0°06'01				
behind sun begin	4532 Jun 03 06:08	14° <b>Ⅱ</b> 40′22		superior conj	4533 May 18 11:07	29° <b>8</b> 10'44	-0°35'06
behind sun end	4532 Jun 03 16:11	15° <b>Ⅲ</b> 34′05		minimum elong	4533 May 18 12:59	29° <b>8</b> 20'29	0°34'44
asc. node	4532 Jun 04 00:47	16° <b>Ⅱ</b> 20'09			4533 May 18 20:36	$\Pi^{\circ}0$	
	4532 Jun 10 09:36	$0$ $\circ$ $\odot$		asc. node	4533 May 21 21:49	6° <b>Ⅱ</b> 23'36	
evening rise	4532 Jun 10 13:34	0° <b>©</b> 20'57		evening rise	4533 May 25 23:15	14° <b>∏</b> 55'12	
	4532 Jun 27 08:02	$0^{\circ}\Omega$			4533 Jun 02 15:32	$0$ $\circ$ $\odot$	
evening max el	4532 Jul 02 14:54	6° <b>Ω</b> 02'58	22°43'13	evening max el	4533 Jun 14 11:24	16° <b>©</b> 40'06	21°11'38
desc. node	4532 Jul 10 17:47	11° <b>£</b> 38'13		retrograde	4533 Jun 26 09:30	22° <b>©</b> 31'45	
retrograde	4532 Jul 15 20:20	12° <b>Ω</b> 38′00		desc. node	4533 Jun 27 14:49	22° <b>5</b> 28'14	
evening set	4532 Jul 19 04:29	12° <b>Ω</b> 13'34		evening set	4533 Jun 28 16:05	22° <b>5</b> 19'44	
min. Earth dist.	4532 Jul 26 23:00	8° <b>Ω</b> 48'11	0.55285 AU	inferior conj	4533 Jul 08 00:48	18° <b>©</b> 21'32	-2°59'19
inferior conj	4532 Jul 28 07:12	8° <b>Ω</b> 02'08	-4°30'09	minimum elong	4533 Jul 07 16:55	18° <b>©</b> 32'35	2°56'47
minimum elong	4532 Jul 27 23:28	8° <b>Ω</b> 13'14	4°28'35	min. Earth dist.	4533 Jul 08 09:46	18° <b>©</b> 08'58	0.54813 AU
morning rise	4532 Aug 05 20:33	4° <b>Ω</b> 11'29		morning rise	4533 Jul 16 18:11	14° <b>©</b> 24'28	
direct	4532 Aug 08 20:59	3° <b>Ω</b> 50′24		direct	4533 Jul 20 06:26	13° <b>©</b> 57'53	
morning max el	4532 Aug 20 02:21	9° <b>Ω</b> 03'47	20°55'00	morning max el	4533 Aug 01 23:45	20° <b>©</b> 00'30	22°30'38
asc. node	4532 Aug 31 00:03	23° <b>Ω</b> 40′02			4533 Aug 10 07:27	$0 {\circ} \Omega$	
	4532 Sep 03 11:49	O° <b>m</b> y		asc. node	4533 Aug 17 21:06	12° <b>Ω</b> 42'14	
morning set	4532 Sep 08 13:37	10° <b>m</b> 07'39		morning set	4533 Aug 24 00:06	24° <b>Ω</b> 58'15	
					4533 Aug 26 09:04	0° <b>™</b>	
superior conj	4532 Sep 15 23:52	25° Mp 34'02	1°43'57				
minimum elong	4532 Sep 15 23:53	25° Mp 34'08	1°43'56	superior conj	4533 Aug 31 02:53	10° <b>m</b> 07'49	1°40'36
	4532 Sep 18 04:05	0∘ <b>⊽</b>		minimum elong	4533 Aug 31 01:40	10°M 01'21	1°40'32
max. Earth dist.	4532 Sep 20 15:13	4° <b>£</b> 54'37	1.35707 AU	max. Earth dist.	4533 Sep 03 08:13	16° Mp 53'21	1.34158 AU
evening rise	4532 Sep 24 17:17	12° <b>≏</b> 45'04		evening rise	4533 Sep 08 00:50	26° Mp 20'22	
	4532 Oct 04 13:08	$0^{\circ}$ M			4533 Sep 09 22:20	0∘ <b>⊽</b>	
desc. node	4532 Oct 06 17:07	3°M30'28		desc. node	4533 Sep 23 14:08	23° <b>△</b> 32'59	
	4532 Oct 25 21:42	0° <b>∡</b> ″			4533 Sep 27 21:49	$0^{\circ}$ M	
evening max el	4532 Oct 30 06:15	4° <b>≯</b> 35'10	26°22'47	evening max el	4533 Oct 12 18:58	18°M08'32	27°07'46
retrograde	4532 Nov 12 01:30	11° <b>₰</b> 747'08		retrograde	4533 Oct 26 02:39	25°M25'54	
evening set	4532 Nov 18 10:34	9° <b>∡</b> 11'02		evening set	4533 Nov 01 23:09	22°M45'12	
min. Earth dist.	4532 Nov 22 14:19	4° <b>≯</b> 50'45	0.66411 AU	min. Earth dist.	4533 Nov 05 20:34	19°M00'28	0.65164 AU

inferior conj	4533 Nov 07 23:10	16° <b>M</b> ₊38'47	1050107	retrograde	4534 Oct 08 21:36	8°M37'23	
				•			
minimum elong	4533 Nov 08 02:32	16°M29'21	1°56'45	evening set	4534 Oct 16 01:12	6°M00'59	0.62577.411
asc. node	4533 Nov 13 20:19	11°M18'30		min. Earth dist.	4534 Oct 19 17:30	2°M49'15	0.63577 AU
morning rise	4533 Nov 14 06:55	11°M04'59		inferior conj	4534 Oct 22 08:15	0°M10'44	
direct	4533 Nov 16 23:20	10°M26'26		minimum elong	4534 Oct 22 13:21	29° <b>Ω</b> 57'49	2°58'37
morning max el	4533 Nov 23 10:50	13°M54'14	18°05'22		4534 Oct 22 12:30	30° <b>ŖΩ</b>	
	4533 Dec 04 21:13	0° <b>∡</b> ¹		morning rise	4534 Oct 29 02:57	24° <b>≏</b> 53'18	
morning set	4533 Dec 11 13:37	10° <b>∡</b> 59'42		direct	4534 Oct 31 13:51	24° <b>≏</b> 24'04	
desc. node	4533 Dec 20 13:25	25° <b>∡</b> ¹41'07		asc. node	4534 Oct 31 17:22	24° <b>≏</b> 24'10	
	4533 Dec 23 05:56	0°る		morning max el	4534 Nov 07 03:36	27° <b>≏</b> 49'05	17°50'45
					4534 Nov 09 02:59	0° <b>M</b> ₊	
superior conj	4533 Dec 25 22:29	4° <b>る</b> 16'59	-0°36'31	morning set	4534 Nov 23 16:09	23°M11'35	
minimum elong	4533 Dec 25 17:56	3° <b>る</b> 58'57	0°35'54		4534 Nov 27 14:50	0° <b>∡</b> ¹	
max. Earth dist.	4533 Dec 29 07:19	9° <b>ප</b> 36'20	1.45119 AU				
evening rise	4534 Jan 11 06:05	29° <b>る</b> 46'58		superior conj	4534 Dec 06 00:22	14° <b>∡</b> ¹06'58	0°09'54
Č	4534 Jan 11 09:27	0° <b>≈</b>		minimum elong	4534 Dec 06 01:26	14° <b>∡</b> 11'19	0°09'45
greatest brilliancy	4534 Jan 24 11:36	20°≈02'16	-0.7m	behind sun begin	4534 Dec 05 17:40	13° <b>∡</b> ³39'22	
groutest oriniane)	4534 Jan 31 11:03	0° <b>∀</b>	0.7111	behind sun end	4534 Dec 06 09:12	14° <b>×</b> <sup>7</sup> 43'12	
evening max el	4534 Feb 05 09:46	5° <b>¥</b> 55'06	19°41'42	desc. node	4534 Dec 07 10:26	16° × 26'28	
asc. node	4534 Feb 05 09.40 4534 Feb 09 19:34	9° <b>\</b> 24'08	19 41 42	max. Earth dist.		23° <b>x</b> 54'08	1.44256 AU
				max. Earth dist.	4534 Dec 12 01:21		1.44230 AU
retrograde	4534 Feb 12 18:54	10° <b>)</b> 11'11			4534 Dec 15 21:46	0°る	
evening set	4534 Feb 16 09:32	8° <b>)</b> 54′52		evening rise	4534 Dec 21 16:07	8° <b>る</b> 57'43	
inferior conj	4534 Feb 21 20:05	2° <b>¥</b> 57′02			4535 Jan 04 15:48	0° <b>≈</b>	
minimum elong	4534 Feb 21 18:03		3°12'17	evening max el	4535 Jan 19 10:57	19° <b>≈</b> 27'46	20°44'26
min. Earth dist.	4534 Feb 22 22:10	1° <b>)</b> (30′43	0.66843 AU	retrograde	4535 Jan 27 17:07	24° <b>≈</b> 20'14	
	4534 Feb 24 02:22	30°R≈		asc. node	4535 Jan 27 16:36	24° <b>≈</b> 20′14	
morning rise	4534 Feb 27 02:21	26° <b>≈</b> 42'50		evening set	4535 Jan 31 16:45	22° <b>≈</b> 49'17	
direct	4534 Mar 05 03:53	24°≈00'34		inferior conj	4535 Feb 06 01:15	16° <b>≈</b> 39'03	2°44'36
	4534 Mar 16 00:51	0° <b>∀</b>		minimum elong	4535 Feb 05 22:49	16° <b>≈</b> 47'23	2°43'58
morning max el	4534 Mar 17 07:51	1° <b>)</b> 16′00	25°31'56	min. Earth dist.	4535 Feb 06 14:01	15° <b>≈</b> 55'11	0.67624 AU
desc. node	4534 Mar 18 12:38	2° <b>)(</b> 30'40		morning rise	4535 Feb 11 04:42	10°≈25'29	
***************************************	4534 Apr 07 23:37	0°Υ		direct	4535 Feb 16 16:13	7° <b>≈</b> 59'51	
morning set	4534 Apr 22 13:01	24° <b>Υ</b> 28'37		morning max el	4535 Feb 27 16:30		24°05'54
morning set	4534 Apr 25 12:45	0° <b>8</b>		desc. node	4535 Mar 05 09:39	21°≈00'41	24 03 34
max. Earth dist.	4534 Apr 26 06:34	_	1.36097 AU	desc. Hode		21 <b>≈</b> 0041 0° <b>)</b> €	
max. Earm dist.	4334 Apr 20 00.34	1 023 32	1.30097 AU		4535 Mar 12 06:34	0 X 0°Υ	
	452434 02 02 40	100 4 200 5	1004120		4535 Mar 31 21:28		
superior conj	4534 May 02 02:49	12° <b>8</b> 46'25		morning set	4535 Apr 04 09:15	5° <b>Υ</b> 55'57	
minimum elong	4534 May 02 06:19	13° <b>8</b> 03'56	1°03'53	max. Earth dist.	4535 Apr 08 03:00	12° <b>Y</b> 30'26	1.38147 AU
asc. node	4534 May 08 18:50	26° <b>8</b> 19'07					
evening rise	4534 May 10 04:56	29° <b>8</b> 12'49		superior conj	4535 Apr 15 06:28	25° <b>Y</b> 43'11	
	4534 May 10 14:14	$\Pi$ $\circ$ 0		minimum elong	4535 Apr 15 11:10	26000005120	1021124
evening max el				_	4333 Apr 13 11.10	26° <b>Y</b> ′05'38	1 31 24
	4534 May 27 19:43	27° <b>Ⅱ</b> 53'37	19°55'41		4535 Apr 17 11:53	0° <b>8</b>	1 31 24
	4534 May 27 19:43 4534 May 30 06:18	27° <b>Ⅱ</b> 53'37 0° <b>©</b>	19°55'41	evening rise	=		1 31 24
retrograde	•		19°55'41	_	4535 Apr 17 11:53	$0^{\circ}$ 8	1 31 24
retrograde evening set	4534 May 30 06:18	0ಂತ	19°55'41	evening rise	4535 Apr 17 11:53 4535 Apr 24 03:58	0°8 13°806'01	1 31 24
•	4534 May 30 06:18 4534 Jun 07 00:53	0° <b>ട</b> 2° <b>ട</b> 52'49	19°55'41	evening rise	4535 Apr 17 11:53 4535 Apr 24 03:58 4535 Apr 25 15:52	0° <b>8</b> 13° <b>8</b> 06'01 16° <b>8</b> 01'56 0° <b>I</b>	18°59'32
evening set	4534 May 30 06:18 4534 Jun 07 00:53 4534 Jun 08 23:21	0°গু 2°গু52'49 2°গু42'51	19°55'41	evening rise asc. node evening max el	4535 Apr 17 11:53 4535 Apr 24 03:58 4535 Apr 25 15:52 4535 May 03 07:01 4535 May 10 15:51	0° <b>8</b> 13° <b>8</b> 06'01 16° <b>8</b> 01'56 0° <b>I</b>	
evening set	4534 May 30 06:18 4534 Jun 07 00:53 4534 Jun 08 23:21 4534 Jun 14 11:50	0°© 2°©52'49 2°©42'51 0°©41'13		evening rise asc. node evening max el retrograde	4535 Apr 17 11:53 4535 Apr 24 03:58 4535 Apr 25 15:52 4535 May 03 07:01	0° <b>8</b> 13° <b>8</b> 06'01 16° <b>8</b> 01'56 0°П 9°П49'03	
evening set desc. node inferior conj	4534 May 30 06:18 4534 Jun 07 00:53 4534 Jun 08 23:21 4534 Jun 14 11:50 4534 Jun 15 17:48	0°\$0 2°\$52'49 2°\$942'51 0°\$941'13 30°RII 28°II42'09	-1°01'20	evening rise asc. node evening max el retrograde evening set	4535 Apr 17 11:53 4535 Apr 24 03:58 4535 Apr 25 15:52 4535 May 03 07:01 4535 May 10 15:51 4535 May 19 06:21 4535 May 21 07:55	0° <b>8</b> 13° <b>8</b> 06'01 16° <b>8</b> 01'56 0° <b>П</b> 9° <b>П</b> 49'03 14° <b>П</b> 01'27 13° <b>П</b> 47'53	18°59'32
evening set desc. node inferior conj minimum elong	4534 May 30 06:18 4534 Jun 07 00:53 4534 Jun 08 23:21 4534 Jun 14 11:50 4534 Jun 15 17:48 4534 Jun 17 22:13 4534 Jun 17 19:22	0°5 2°552'49 2°542'51 0°541'13 30°RП 28°П42'09 28°П46'29	-1°01'20 1°00'16	evening rise asc. node evening max el retrograde evening set inferior conj	4535 Apr 17 11:53 4535 Apr 24 03:58 4535 Apr 25 15:52 4535 May 03 07:01 4535 May 10 15:51 4535 May 19 06:21 4535 May 21 07:55 4535 May 29 12:07	0°8 13°806'01 16°801'56 0°Ш 9°П49'03 14°П01'27 13°П47'53 9°П32'52	18°59'32 0°49'41
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evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	4534 May 30 06:18 4534 Jun 07 00:53 4534 Jun 08 23:21 4534 Jun 14 11:50 4534 Jun 15 17:48 4534 Jun 17 22:13 4534 Jun 17 19:22 4534 Jun 19 22:14 4534 Jun 26 13:31 4534 Jun 30 19:36 4534 Jul 14 02:31	0°55 2°552'49 2°552'49 2°541'13 30°8 II 28° II 42'09 28° II 46'29 27° II 29'21 24° II 19'01 23° II 39'26 0°55	-1°01'20 1°00'16 0.55304 AU	evening rise asc. node  evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise	4535 Apr 17 11:53 4535 Apr 24 03:58 4535 Apr 25 15:52 4535 May 03 07:01 4535 May 10 15:51 4535 May 19 06:21 4535 May 21 07:55 4535 May 29 12:07 4535 May 29 14:03 4535 Jun 01 08:50 4535 Jun 01 13:52 4535 Jun 06 16:54	0°8 13°806'01 16°801'56 0°Ш 9°Ш49'03 14°Ш01'27 13°Ш47'53 9°Ш32'52 9°Ш29'29 7°Ш32'58 7°Ш24'29 4°Ш33'38	18°59'32 0°49'41 0°49'00
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evening set desc. node  inferior conj minimum elong min. Earth dist. morning rise direct  morning max el asc. node morning set  superior conj minimum elong max. Earth dist.	4534 May 30 06:18 4534 Jun 07 00:53 4534 Jun 08 23:21 4534 Jun 14 11:50 4534 Jun 15 17:48 4534 Jun 17 22:13 4534 Jun 17 19:22 4534 Jun 19 22:14 4534 Jun 26 13:31 4534 Jun 30 19:36 4534 Jul 14 02:31 4534 Jul 14 14:28 4534 Aug 03 15:52 4534 Aug 04 18:07 4534 Aug 08 11:48 4534 Aug 15 10:55 4534 Aug 17 09:51 4534 Aug 17 19:21	0°5 2°552'49 2°542'51 0°541'13 30°RII 28°II42'09 28°II46'29 27°II29'21 24°II9'01 23°I39'26 0°5 0°527'48 0°1 2°109'44 9°1051'53 24°105'31 24°105'31 24°109'06 0°10	-1°01'20 1°00'16 0.55304 AU 24°14'22 1°31'21 1°31'08	evening rise asc. node  evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set	4535 Apr 17 11:53 4535 Apr 24 03:58 4535 Apr 25 15:52 4535 May 03 07:01 4535 May 10 15:51 4535 May 19 06:21 4535 May 21 07:55 4535 May 29 12:07 4535 May 29 14:03 4535 Jun 01 08:50 4535 Jun 01 13:52 4535 Jun 06 16:54 4535 Jun 11 21:48 4535 Jun 26 04:58 4535 Jul 20 15:08 4535 Jul 22 15:08 4535 Jul 23 23:09 4535 Jul 30 21:48 4535 Jul 30 19:29	0°8 13°806'01 16°801'56 0°	18°59'32 0°49'41 0°49'00 0.56658 AU 25°51'13
evening set desc. node  inferior conj minimum elong min. Earth dist. morning rise direct  morning max el asc. node morning set  superior conj minimum elong max. Earth dist.	4534 May 30 06:18 4534 Jun 07 00:53 4534 Jun 08 23:21 4534 Jun 14 11:50 4534 Jun 15 17:48 4534 Jun 17 22:13 4534 Jun 17 19:22 4534 Jun 19 22:14 4534 Jun 26 13:31 4534 Jun 30 19:36 4534 Jul 14 02:31 4534 Jul 14 14:28 4534 Aug 03 15:52 4534 Aug 04 18:07 4534 Aug 15 10:55 4534 Aug 15 08:54 4534 Aug 17 09:51 4534 Aug 17 19:21 4534 Aug 22 19:27 4534 Sep 02 05:48	0°\$\text{0}\$ 2°\$\text{5}2'49 2°\$\text{5}2'51 0°\$\text{6}4!'13 30°\$\text{1}\$ 28°\$\text{1}42'09 28°\$\text{1}46'29 27°\$\text{1}29'21 24°\$\text{1}19'01 23°\$\text{1}39'26 0°\$\text{0}\$ 0°\$\text{2}7'48 0°\$\text{0}\$ 2°\$\text{0}09'44 9°\$\text{0}51'53  24°\$\text{0}55'31 24°\$\text{0}44'37 29°\$\text{0}09'06 0°\$\text{0}\$ 10°\$\text{0}27'01	-1°01'20 1°00'16 0.55304 AU 24°14'22 1°31'21 1°31'08	evening rise asc. node  evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set  superior conj minimum elong max. Earth dist.	4535 Apr 17 11:53 4535 Apr 24 03:58 4535 Apr 25 15:52 4535 May 03 07:01 4535 May 10 15:51 4535 May 19 06:21 4535 May 21 07:55 4535 May 29 12:07 4535 May 29 14:03 4535 Jun 01 08:50 4535 Jun 01 13:52 4535 Jun 06 16:54 4535 Jun 11 21:48 4535 Jun 12:48 4535 Jul 20:21 4535 Jul 30 21:48 4535 Jul 30 19:29 4535 Jul 31 17:58 4535 Aug 06 21:57	0°8 13°806'01 16°801'56 0°11 9°1149'03 14°101'27 13°1147'53 9°132'52 9°1129'29 7°132'58 7°1124'29 4°133'38 3°1129'24 10°1152'39 0°5 21°555'42 24°543'35 0°10 9°1050'19 9°1055'53	18°59'32 0°49'41 0°49'00 0.56658 AU 25°51'13
evening set desc. node  inferior conj minimum elong min. Earth dist. morning rise direct  morning max el asc. node morning set  superior conj minimum elong max. Earth dist.  evening rise	4534 May 30 06:18 4534 Jun 07 00:53 4534 Jun 08 23:21 4534 Jun 14 11:50 4534 Jun 15 17:48 4534 Jun 17 22:13 4534 Jun 17 19:22 4534 Jun 19 22:14 4534 Jun 26 13:31 4534 Jun 30 19:36 4534 Jul 14 02:31 4534 Jul 14 14:28 4534 Aug 03 15:52 4534 Aug 04 18:07 4534 Aug 15 10:55 4534 Aug 15 08:54 4534 Aug 17 09:51 4534 Aug 17 19:21 4534 Aug 22 19:27 4534 Sep 02 05:48 4534 Sep 10 11:09	0°\$5 2°\$52'49 2°\$52'49 2°\$42'51 0°\$41'13 30°\$II 28°II42'09 28°II46'29 27°II29'21 24°II19'01 23°I39'26 0°\$27'48 0°\$\Omega\$ 2°\$\Omega\$09'44 9°\$\Omega\$51'53 24°\$\Omega\$51'53 24°\$\Omega\$44'37 29°\$\Omega\$09'06 0°\$\Omega\$10°\$\Omega\$27'01 0°\$\Omega\$13°\$\Omega\$07'36	-1°01'20 1°00'16 0.55304 AU 24°14'22 1°31'21 1°31'08	evening rise asc. node  evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set  superior conj minimum elong max. Earth dist.	4535 Apr 17 11:53 4535 Apr 24 03:58 4535 Apr 25 15:52 4535 May 03 07:01 4535 May 10 15:51 4535 May 19 06:21 4535 May 29 12:07 4535 May 29 12:07 4535 May 29 14:03 4535 Jun 01 08:50 4535 Jun 01 13:52 4535 Jun 06 16:54 4535 Jun 11 21:48 4535 Jun 10 20:21 4535 Jul 20 10:09 4535 Jul 30 21:48 4535 Jul 30 21:48 4535 Jul 30 19:29 4535 Jul 31 17:58 4535 Aug 06 21:57 4535 Aug 09 09:26	0°8 13°806'01 16°801'56 0°	18°59'32 0°49'41 0°49'00 0.56658 AU 25°51'13
evening set desc. node  inferior conj minimum elong min. Earth dist. morning rise direct  morning max el asc. node morning set  superior conj minimum elong max. Earth dist.  evening rise	4534 May 30 06:18 4534 Jun 07 00:53 4534 Jun 08 23:21 4534 Jun 14 11:50 4534 Jun 15 17:48 4534 Jun 17 22:13 4534 Jun 17 19:22 4534 Jun 19 22:14 4534 Jun 26 13:31 4534 Jun 30 19:36 4534 Jul 14 02:31 4534 Jul 14 14:28 4534 Aug 03 15:52 4534 Aug 04 18:07 4534 Aug 15 10:55 4534 Aug 15 08:54 4534 Aug 17 09:51 4534 Aug 17 19:21 4534 Aug 22 19:27 4534 Sep 02 05:48	0°5 2°552'49 2°552'49 2°542'51 0°541'13 30°8 II 28° II 42'09 28° II 46'29 27° II 29'21 24° II 19'01 23° II 39'26 0°5 0°527'48 0° I 2° II 09'44 9° II 51'53 24° II 55'31 24° II 64'37 29° II 09'06 0° III 10° III 27'01 0° II	-1°01'20 1°00'16 0.55304 AU 24°14'22 1°31'21 1°31'08 1.33013 AU	evening rise asc. node  evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set  superior conj minimum elong max. Earth dist.	4535 Apr 17 11:53 4535 Apr 24 03:58 4535 Apr 25 15:52 4535 May 03 07:01 4535 May 10 15:51 4535 May 19 06:21 4535 May 21 07:55 4535 May 29 12:07 4535 May 29 14:03 4535 Jun 01 08:50 4535 Jun 01 13:52 4535 Jun 06 16:54 4535 Jun 11 21:48 4535 Jun 12:48 4535 Jul 20:21 4535 Jul 30 21:48 4535 Jul 30 19:29 4535 Jul 31 17:58 4535 Aug 06 21:57	0°8 13°806'01 16°801'56 0°11 9°1149'03 14°101'27 13°1147'53 9°132'52 9°1129'29 7°132'58 7°1124'29 4°133'38 3°1129'24 10°1152'39 0°5 21°555'42 24°543'35 0°10 9°1050'19 9°1055'53	18°59'32 0°49'41 0°49'00 0.56658 AU 25°51'13

evening max el	4535 Sep 07 13:36	13° <b>≏</b> 58'47	27°14'20		4536 Aug 24 18:07	0∘ <b>ত</b>	
retrograde	4535 Sep 21 09:50	21° <b>⊆</b> 12'29	27 1420	retrograde	4536 Sep 02 13:50	ა <b>_</b> 3° <b>ჲ</b> 01'16	
evening set	4535 Sep 28 13:07	18° <b>£</b> 52'18		evening set	4536 Sep 09 06:06	1° <b>⊆</b> 10'10	
min. Earth dist.	4535 Oct 02 04:03	16° <b>£</b> 05'48	0.61693 AU	evening sec	4536 Sep 11 04:32	30°RM)	
inferior conj	4535 Oct 05 05:15	13° <b>≏</b> 21'53		min. Earth dist.	4536 Sep 13 04:24	28° m/34'54	0.59637 AU
minimum elong	4535 Oct 05 11:21	13° <b>≏</b> 08'10		inferior conj	4536 Sep 16 10:35	26° m 01'56	
morning rise	4535 Oct 12 11:26	8° <b>ഫ</b> 23'59		minimum elong	4536 Sep 16 15:50	25° m 51'37	4°46'31
direct	4535 Oct 14 19:36	8° <b>≏</b> 00'47		morning rise	4536 Sep 24 03:43	21° Mp 26'05	
asc. node	4535 Oct 18 14:23	9° <b>ჲ</b> 03'41		direct	4536 Sep 26 12:29	21°M/06'04	
morning max el	4535 Oct 21 19:00	11° <b>≏</b> 31'33	17°54'21	morning max el	4536 Oct 04 05:36	24° <b>m</b> 51'29	18°17'29
	4535 Nov 03 02:28	0°M		asc. node	4536 Oct 04 11:25	25° <b>m</b> 05'43	
morning set	4535 Nov 06 14:34	6°M20'29			4536 Oct 08 12:47	0∘ <b>रु</b>	
				morning set	4536 Oct 20 03:04	20° <b>≏</b> 09'01	
superior conj	4535 Nov 17 05:00	25°M15'38	0°48'42		4536 Oct 25 07:44	$0^{\circ}$ M.	
minimum elong	4535 Nov 17 08:47	25°M32'02	0°48'12				
	4535 Nov 19 23:26	0° <b>∡</b> 7		superior conj	4536 Oct 29 09:45	7°M34'06	1°16'51
desc. node	4535 Nov 24 07:28	7° <b>҂</b> 14'02		minimum elong	4536 Oct 29 13:35	7°M51'36	1°16'25
max. Earth dist.	4535 Nov 24 15:01	7° <b>∡</b> ¹45'02	1.42787 AU	max. Earth dist.	4536 Nov 05 23:29	20°M56'38	1.40888 AU
evening rise	4535 Dec 01 07:08	18° <b>₹</b> 27'32		desc. node	4536 Nov 10 04:29	27°M59'48	
	4535 Dec 08 19:07	0°ಕ		evening rise	4536 Nov 10 16:21	28°M48'29	
	4535 Dec 30 11:53	0° <b>≈</b>			4536 Nov 11 09:52	0° <b>∡</b>	
evening max el	4536 Jan 02 06:43	3° <b>≈</b> 01'56	21°57'52		4536 Dec 01 08:46	0° <b>ठ</b>	
retrograde	4536 Jan 11 14:12	8° <b>≈</b> 34'17		evening max el	4536 Dec 14 22:16	16° <b>云</b> 39'33	23°17'12
asc. node	4536 Jan 14 13:38	7°≈46'55		retrograde	4536 Dec 25 08:36	22° <b>る</b> 49'55	
evening set	4536 Jan 16 00:28	6°≈47'55		evening set	4536 Dec 30 07:07	20°る47'45	
inferior conj	4536 Jan 21 08:44	0°≈28'35	2°07'55	asc. node	4536 Dec 31 10:40	19° <b>る</b> 43'27	
minimum elong	4536 Jan 21 06:23	0°≈36'43	2°07'08	inferior conj	4537 Jan 04 16:39	14°₹23′10	
min. Earth dist.	4536 Jan 21 09:34		0.68009 AU	minimum elong	4537 Jan 04 14:52	14° <b>る</b> 29'19	1°23'10
	4536 Jan 21 16:58	30°Rる		min. Earth dist.	4537 Jan 04 06:23	14°る58'26	0.68020 AU
morning rise	4536 Jan 26 12:09	24°る17'18 22°る12'58		morning rise	4537 Jan 09 22:31	8°る15'59 6°る34'29	
direct	4536 Jan 31 08:58	22° <b>る</b> 12'38 27° <b>る</b> 58'16	22026144	direct morning max el	4537 Jan 14 05:05 4537 Jan 22 18:04	11° <b>る</b> 3429	21912107
morning max el	4536 Feb 10 02:42 4536 Feb 12 00:47	27 <b>3</b> 38 10 0° <b>≈</b>	22 30 44	desc. node	4537 Feb 06 03:45	11 <b>33138</b> 29° <b>る</b> 59'50	21 1307
desc. node	4536 Feb 20 06:42	0 ∞ 10°≈14'24		desc. node	4537 Feb 06 03:48	29 <b>3</b> 3930	
desc. Hode	4536 Mar 04 22:53	10 ≈1424 0° <b>)</b> (		morning set	4537 Feb 00 03:48 4537 Feb 22 16:05	0 ∞ 24°≈55'27	
morning set	4536 Mar 15 02:50	16° <b>)</b> (05'10		morning set	4537 Feb 25 20:50	0° <b>\</b>	
max. Earth dist.	4536 Mar 19 22:38	24° <b>H</b> 09'02	1.40334 AU	max. Earth dist.	4537 Mar 02 00:21	6° <b>)</b> 42′53	1.42378 AU
max. Dartii dist.	4536 Mar 23 07:59	0°Υ	1.10331710	max. Darth dist.	1337 17141 02 00.21	0 7(1233	1.12370710
	1550 Mai 25 07.57	0 1		superior conj	4537 Mar 09 07:39	18° <b>¥</b> 57'22	-2°07'08
superior conj	4536 Mar 27 17:44	7° <b>Y</b> 50′29	-1°54'26	minimum elong	4537 Mar 09 09:29	19° <b>)</b> €05'11	
minimum elong	4536 Mar 27 22:17	8° <b>Ƴ</b> 11'09	1°54'04		4537 Mar 15 15:19	$_{0}^{\circ}\Upsilon$	
evening rise	4536 Apr 06 17:14	26° <b>Y</b> 26'31		evening rise	4537 Mar 20 16:50	9° <b>Ƴ</b> 05'39	
Č	4536 Apr 08 14:29	0°8		asc. node	4537 Mar 29 09:57	24° <b>Ƴ</b> 27'18	
asc. node	4536 Apr 11 12:54	5° <b>8</b> 26'43			4537 Apr 01 23:41	0°8	
evening max el	4536 Apr 22 21:01	22° <b>8</b> 20'21	18°23'46	evening max el	4537 Apr 06 07:39	5° <b>8</b> 18'10	18°07'47
retrograde	4536 Apr 30 06:32	26° <b>8</b> 00'25		retrograde	4537 Apr 13 00:02	8° <b>8</b> 42'23	
evening set	4536 May 02 14:53	25° <b>8</b> 39'16		evening set	4537 Apr 15 15:03	8° <b>8</b> 11'07	
inferior conj	4536 May 09 23:28	21° <b>8</b> 04'39	2°12'46	inferior conj	4537 Apr 22 07:00	3° <b>8</b> 15'40	3°04'27
minimum elong	4536 May 10 03:03	20° <b>8</b> 57'16	2°11'45	minimum elong	4537 Apr 22 09:51	3° <b>8</b> 08'52	3°03'56
min. Earth dist.	4536 May 13 10:02	18° <b>8</b> 16'41	0.58608 AU	min. Earth dist.	4537 Apr 25 12:44	0° <b>8</b> 12'21	0.60800 AU
morning rise	4536 May 17 12:08	15° <b>8</b> 33'36			4537 Apr 25 18:14	30° <b>₹</b> Υ	
desc. node	4536 May 18 05:53	15° <b>8</b> 11'31		morning rise	4537 Apr 29 02:34	27° <b>Y</b> 23′01	
direct	4536 May 23 14:29	13° <b>8</b> 55'33		desc. node	4537 May 05 02:55	25° <b>Y</b> 12′27	
morning max el	4536 Jun 06 23:55	21° <b>8</b> 40'16	27°05'29	direct	4537 May 05 18:54	25° <b>Y</b> 11'11	
	4536 Jun 14 06:46	0° <b>I</b>			4537 May 16 14:42	0°8	
	4536 Jul 02 16:39	0°95		morning max el	4537 May 20 01:11	3° <b>8</b> 06'52	27°46'08
morning set	4536 Jul 07 08:26	9°527'06			4537 Jun 08 19:17	0°Ⅱ 22°Ⅲ5640	
asc. node	4536 Jul 08 12:10	11° <b>©</b> 53'41		morning set	4537 Jun 21 13:54	23° <b>II</b> 56'49	
gunorier ee	4526 Jul. 14 00:20	2400544157	0050117	asa rada	4537 Jun 24 11:02	0°छ	
superior conj	4536 Jul 14 09:38	24°544'57	0°58'17 0°57'53	asc. node	4537 Jun 25 09:13 4537 Jun 27 15:52	1°958'58	1.32095 AU
minimum elong max. Earth dist.	4536 Jul 14 07:29 4536 Jul 14 05:09	24°533'03		max. Earth dist.	+557 Jun 27 15:52	U <b>20</b> 33'42	1.32093 AU
max. Earm dist.	4536 Jul 14 05:09 4536 Jul 16 18:45	24° <b>©</b> 20′13 0° <b>Ω</b>	1.31984 AU	superior conj	4537 Jun 28 20:41	9° <b>©</b> 33'41	0°35'43
evening rise	4536 Jul 16 18:45 4536 Jul 21 05:39	9° <b>Ω</b> 38'02		minimum elong	4537 Jun 28 20:41 4537 Jun 28 19:09	9° <b>9</b> 3341	0°35'43 0°35'24
evening fise	4536 Jul 21 05:39 4536 Jul 31 17:19	9°873802		evening rise	4537 Jul	24°\$25'16	0 33 24
desc. node	4536 Aug 14 05:10	رابات 20° الله 101'38		evening rise	4537 Jul 08 08:09	24 €320 30 0°Ω	
evening max el	4536 Aug 19 14:49	25° mp 51'45	26°28'35		4537 Jul 26 03:56	0° <b>m</b> )	
J. J		20 mg 31 43	20 20 30		.55, 541 20 05.50	יעיי י	

desc. node	4537 Aug 01 02:11	6° <b>™</b> 41'09			4538 Jun 30 21:45	0° <b>Ω</b>	
evening max el	4537 Aug 01 02:11 4537 Aug 01 08:41	6° Mp 56'50	25°13'06	evening max el	4538 Jul 13 21:33		23°39'13
Č	4537 Aug 01 08:41 4537 Aug 15 07:27	14° Mp 00'35	23 13 00	desc. node	4538 Jul 18 23:11	21°Ω30'48	23 39 13
retrograde evening set	4537 Aug 13 07.27 4537 Aug 20 23:35	14 11/00 33 12° Mp 46'46		retrograde	4538 Jul 27 12:53	24°Ω16'49	
•	-	-	0.57627 ATT	Č		24 <b>δι</b> 10 49 23° <b>Ω</b> 37'47	
min. Earth dist.	4537 Aug 25 20:22	8° Mp 01'36	0.57627 AU	evening set	4538 Jul 31 18:04		0.55956 AU
inferior conj	4537 Aug 28 21:01	•		min. Earth dist.	4538 Aug 07 07:29		
minimum elong	4537 Aug 28 22:22	7° Mp 59'17	5*12'59	inferior conj	4538 Aug 09 11:14	19° <b>Ω</b> 14'49	
morning rise	4537 Sep 05 23:28	3° Mp 48'21		minimum elong	4538 Aug 09 06:21	19° <b>Ω</b> 22'09	4*59*42
direct	4537 Sep 08 12:23	3° m/29'12	10001120	morning rise	4538 Aug 17 21:08	15° <b>Ω</b> 19'51	
morning max el	4537 Sep 17 08:03	7° mp 39'22	19°01'38	direct	4538 Aug 20 16:50	15° <b>Ω</b> 00'00	20005144
asc. node	4537 Sep 21 08:28	12° Tp 15'35		morning max el	4538 Aug 30 23:35	19° <b>Ω</b> 46'32	20°07'44
	4537 Oct 01 19:10	0° <b>⊽</b>		asc. node	4538 Sep 08 05:31	0° mp 18'51	
morning set	4537 Oct 04 01:17	4° <b>£</b> 25'05			4538 Sep 08 00:47	0° <b>m</b> )	
				morning set	4538 Sep 18 06:07	19° mp 00'13	
superior conj	4537 Oct 12 09:18		1°34'26		4538 Sep 23 14:59	0∘ <b>⊽</b>	
minimum elong	4537 Oct 12 11:50	20° <b>£</b> 59'40	1°34'14				
	4537 Oct 17 06:58	0° <b>M</b>		superior conj	4538 Sep 25 22:39	4° <b>≙</b> 41'51	1°42'46
max. Earth dist.	4537 Oct 19 04:39	3°M27'15	1.38796 AU	minimum elong	4538 Sep 25 23:33	4° <b>≏</b> 46'22	1°42'44
evening rise	4537 Oct 23 00:38	10°M12'13		max. Earth dist.	4538 Oct 01 10:36	15° <b>≙</b> 28'01	1.36761 AU
desc. node	4537 Oct 28 01:31	18°M39'57		evening rise	4538 Oct 05 06:31	22° <b>≙</b> 35'35	
	4537 Nov 04 05:55	0° <b>∡</b>			4538 Oct 09 10:47	0° <b>M</b> ₊	
	4537 Nov 27 03:01	0°ප		desc. node	4538 Oct 14 22:31	9° <b>M</b> 10′18	
evening max el	4537 Nov 27 11:27	0°る21'00	24°36'11		4538 Oct 29 00:48	0° <b>∡</b> ¹	
retrograde	4537 Dec 08 23:07	7° <b>る</b> 02'55		evening max el	4538 Nov 09 23:54	14° <b>₹</b> 04'18	25°47'46
evening set	4537 Dec 14 11:06	4° <b>る</b> 45'20		retrograde	4538 Nov 22 09:00	21° <b>₹</b> 08'28	
asc. node	4537 Dec 18 07:43	0° <b>る</b> 30'11		evening set	4538 Nov 28 10:45	18° <b>₹</b> 37'40	
	4537 Dec 18 16:59	30°₽ <b>⋌</b> 7		min. Earth dist.	4538 Dec 02 18:20	13° <b>∡</b> 57′18	0.66975 AU
min. Earth dist.	4537 Dec 19 02:05	29° <b>⋌</b> 30'00	0.67674 AU	inferior conj	4538 Dec 04 02:33	12° <b>҂</b> 15'31	-0°22'25
inferior conj	4537 Dec 19 23:12	28° <b>∡</b> 19'43	0°33'24	minimum elong	4538 Dec 04 03:08	12° <b>҂</b> 13'40	0°22'09
minimum elong	4537 Dec 19 22:23	28° <b>₹</b> 22'24	0°33'05	asc. node	4538 Dec 05 04:45	10° <b>₹</b> 53'35	
morning rise	4537 Dec 25 09:46	22° <b>₰</b> 18'44		morning rise	4538 Dec 09 19:56	6° <b>҂</b> ²23'04	
direct	4537 Dec 29 03:14	20° <b>≯</b> 59′02		direct	4538 Dec 13 01:57	5° <b>∡</b> 722'24	
morning max el	4538 Jan 05 17:10		20°00'53	morning max el	4538 Dec 20 00:03	9° <b>≯</b> 12'33	19°03'15
	4538 Jan 09 20:42	0°ප			4539 Jan 04 02:45	0°ಕ	
desc. node	4538 Jan 24 00:48	20° <b>る</b> 07'51		desc. node	4539 Jan 10 21:49	10° <b>る</b> 32'18	
	4538 Jan 30 12:29	0° <b>≈</b>		morning set	4539 Jan 11 17:23	11° <b>る</b> 48'28	
morning set	4538 Feb 01 12:41	3°≈05′26			4539 Jan 23 08:57	0° <b>≈</b>	
max. Earth dist.	4538 Feb 12 10:17	20° <b>≈</b> 10′58	1.44005 AU	max. Earth dist.	4539 Jan 26 02:14	4° <b>≈</b> 16′19	1.45010 AU
	4520 5 1 45 20 11	200 55100	200444		4520 1 20 00 00	<b>50.45</b>	1040150
superior conj	4538 Feb 17 20:11	28°≈55'09		superior conj	4539 Jan 28 09:09	7°≈52'47	
minimum elong	4538 Feb 17 16:19	28°≈39'20	2°04'33	minimum elong	4539 Jan 28 00:14	7°≈17'33	1°42'06
	4538 Feb 18 12:03	0° <b>)</b> (5,445			4539 Feb 11 03:49	0° <b>∀</b>	
evening rise	4538 Mar 02 22:22	20° <b>)</b> 54'17		evening rise	4539 Feb 12 05:59	1° <b>)</b> 46′53	
	4538 Mar 08 05:33	0°Υ 12°Ω55125			4539 Mar 02 13:45	0° <b>Υ</b>	
asc. node	4538 Mar 16 07:00	12° <b>Υ</b> 55'25	10010156	asc. node	4539 Mar 03 04:02	0° <b>Υ</b> 41'33	10022120
evening max el	4538 Mar 20 20:24	18° <b>Y</b> 32'50	18°10'56	evening max el	4539 Mar 04 08:27	1° <b>Υ</b> 57'57	18°32'38
retrograde	4538 Mar 27 06:30	21° <b>Υ</b> 56'16		retrograde	4539 Mar 10 21:34	5° <b>Y</b> 33'38	
evening set	4538 Mar 30 03:34	21°Υ13'32	2020140	evening set	4539 Mar 14 00:42	4° <b>Y</b> 38'38	
inferior conj	4538 Apr 05 06:55	15° <b>Υ</b> 58'13	3°29'40		4539 Mar 19 00:40	30° <b>₹</b> ₩	202.42.6
minimum elong	4538 Apr 05 08:08	15° <b>Y</b> 54'56		inferior conj	4539 Mar 19 19:11	29° <b>₩</b> 05'12	
min. Earth dist.	4538 Apr 08 00:01	13° <b>Υ</b> 03'33	0.62920 AU	minimum elong	4539 Mar 19 18:47	29°\(\) 06'22	
morning rise	4538 Apr 11 11:29	9° <b>Y</b> 52'54		min. Earth dist.	4539 Mar 21 20:57		0.64757 AU
direct	4538 Apr 18 08:28	7°Υ15'55		morning rise	4539 Mar 25 12:16	22° <b>)</b> 53'29	
desc. node	4538 Apr 21 23:58	7° <b>Υ</b> 55'12	27040106	direct	4539 Apr 01 05:54	20° <b>)</b> €04'11	
morning max el	4538 May 02 07:56	15° <b>Y</b> 14'58	27°49'06	desc. node	4539 Apr 08 21:02	22° <b>)</b> 55'40	2501 (142
	4538 May 14 08:34	0° <b>Β</b>		morning max el	4539 Apr 14 17:41	27° <b>¥</b> 57'27	2/~16'42
	4538 Jun 01 10:12	0°П			4539 Apr 16 16:27	0°Υ	
morning set	4538 Jun 05 13:20	8° <b>Ⅱ</b> 05'19	1 22/20 433		4539 May 08 02:23	0° <b>8</b>	
max. Earth dist.	4538 Jun 10 22:04	19° <b>Ⅱ</b> 13'54	1.32628 AU	morning set	4539 May 20 04:00	21° <b>8</b> 44'46	
asc. node	4538 Jun 12 06:16	22° <b>Ⅱ</b> 06'33		man P. d. P.	4539 May 24 07:17	0°Ⅱ 1°Ⅲ04111	1 22/10 477
annorior	4520 Jun 12 05 00	2.40 π 1.010.0	000057	max. Earth dist.	4539 May 24 19:50	1° <b>耳</b> 04'11	1.33610 AU
superior conj	4538 Jun 13 05:08 4538 Jun 13 04:39	24° <b>Ⅱ</b> 10'00 24° <b>Ⅱ</b> 07'25	0°09'57 0°09'50	superior con-	4530 May 20 00:01	8° <b>Ⅱ</b> 28'14	0010115
minimum elong	4538 Jun 13 04:39 4538 Jun 13 00:30	24°Щ0725 23°Щ44'57	0 09 30	superior conj	4539 May 28 09:01 4539 May 28 09:58	8°П28'14 8°П33'14	
behind sun begin behind sun end	4538 Jun 13 00:30 4538 Jun 13 08:49	23°Щ44'37 24°Щ29'55		minimum elong asc. node	4539 May 28 09:58 4539 May 30 03:19	8°Д33°14 12°Д12'37	0 10 04
ocimia suil ella	4538 Jun 15 08:49 4538 Jun 15 21:33	24°Щ29°33 0° <b>©</b>		evening rise	4539 May 30 03:19 4539 Jun 04 15:16	23° <b>I</b> [54'52	
	-1000 Juli 10 41.33	U -3		evening rise	-1007 Juli 04 10.10	25 <b>11</b> 3432	
evening rise	4538 Jun 20 04:14	9°9514'04			4539 Jun 07 13:55	$0$ $\circ$ $\odot$	

·	4520 I 25 12 40	270650110	22002142	1	4540 M 16 00 20	20TI 12I20	
evening max el	4539 Jun 25 12:48	27°950'10	22°02'43	asc. node	4540 May 16 00:20	2° <b>I</b> 13'28	
1 1	4539 Jun 27 23:16	0°Ω		evening rise	4540 May 18 23:32	8° <b>Ⅱ</b> 23'02	
desc. node	4539 Jul 05 20:13	3° <b>Ω</b> 55'44			4540 May 30 16:06	0°95	20027107
retrograde	4539 Jul 08 06:54	4° <b>Ω</b> 09'39		evening max el	4540 Jun 06 14:07	8°9541'47	20°37'06
evening set	4539 Jul 11 02:05	3°Ω52'11		retrograde	4540 Jun 17 19:41	14°5511'30	
min. Earth dist.	4539 Jul 19 17:45	0° <b>Ω</b> 09'19		evening set	4540 Jun 19 20:31	14° <b>©</b> 01'25	
inferior conj	4539 Jul 20 09:16	29° <b>©</b> 47'33		desc. node	4540 Jun 21 17:15	13° <b>©</b> 35'33	
minimum elong	4539 Jul 20 00:37	29° <b>©</b> 59'41	3°54'41	inferior conj	4540 Jun 29 02:45	10° <b>©</b> 04'15	
	4539 Jul 20 00:23	30° <b>₹</b> ∽		minimum elong	4540 Jun 28 20:40	10° <b>©</b> 12'59	2°08'25
morning rise	4539 Jul 29 00:49	25° <b>©</b> 56'59		min. Earth dist.	4540 Jun 30 05:30	9° <b>©</b> 25'47	0.54895 AU
direct	4539 Aug 01 05:28	25° <b>©</b> 34'23		morning rise	4540 Jul 07 20:08	5° <b>©</b> 57'45	
	4539 Aug 11 20:08	$0 {\circ} \Omega$		direct	4540 Jul 11 15:00	5° <b>5</b> 26'51	
morning max el	4539 Aug 13 03:12	1° <b>Ω</b> 08′18	21°34'09	morning max el	4540 Jul 24 21:12	11° <b>©</b> 50'52	23°14'38
asc. node	4539 Aug 26 02:34	19° <b>Ω</b> 02'27			4540 Aug 07 11:02	$0^{\circ}\Omega$	
	4539 Aug 31 19:02	0° <b>m</b> y		asc. node	4540 Aug 11 23:35	8° <b>Ω</b> 16′29	
morning set	4539 Sep 02 15:04	3° Mp 46'45		morning set	4540 Aug 17 02:16	18° <b>Ω</b> 39'22	
-	-				4540 Aug 22 09:12	0° <b>m</b> )	
superior conj	4539 Sep 09 21:37	19° <b>m</b> 04'21	1°43'19				
minimum elong	4539 Sep 09 21:03	19° Mp 01'27	1°43'18	superior conj	4540 Aug 24 03:05	3° Mp 45'26	1°37'21
max. Earth dist.	4539 Sep 13 22:17	27° m/20'03	1.34991 AU	minimum elong	4540 Aug 24 01:28	3° m 36'47	1°37'14
	4539 Sep 15 06:20	0∘ <u>⊽</u>		max. Earth dist.	4540 Aug 26 18:49	9° m 24'26	1.33612 AU
evening rise	4539 Sep 18 05:53	5° <b>≏</b> 47'53		evening rise	4540 Aug 31 18:37	19° <b>m</b> )38'13	
desc. node	4539 Oct 01 19:30	29° <b>Ω</b> 25'00			4540 Sep 06 04:39	0∘ <b>⊽</b>	
dese. node	4539 Oct 02 04:24	0°M		desc. node	4540 Sep 17 16:31	19° <b>≏</b> 16'58	
evening max el	4539 Oct 23 12:25		26°44'37	desc. Hode	4540 Sep 25 06:09	0°M	
evening max er	4539 Oct 26 00:58	0° <b>√</b>	20 44 37	evening max el	4540 Oct 05 00:40	11° <b>ML</b> 09'15	27010123
ratragrada	4539 Nov 05 13:41	4° <b>∡</b> 759'21		•	4540 Oct 18 12:32	18°ML27'39	27 1923
retrograde				retrograde			
evening set	4539 Nov 12 04:02	2° <b>₹</b> 20'02		evening set	4540 Oct 25 12:33	15°M47'31	0.64526.411
	4539 Nov 14 15:16	30°RM	0.65004.477	min. Earth dist.	4540 Oct 29 07:30	12°ML17'12	0.64526 AU
min. Earth dist.	4539 Nov 16 04:52	28°M15'13	0.65924 AU	inferior conj	4540 Oct 31 15:20	9°M47'06	
inferior conj	4539 Nov 18 00:41	26°M06'13		minimum elong	4540 Oct 31 19:28	9° <b>M</b> ₃35'57	2°23'03
minimum elong	4539 Nov 18 02:59		1°21'25	morning rise	4540 Nov 07 03:37	4° <b>ጤ</b> 19'46	
asc. node	4539 Nov 22 01:48	21°M49'40		asc. node	4540 Nov 07 22:50	4° <b>M</b> ₊01'58	
morning rise	4539 Nov 24 02:45	20°M24'51		direct	4540 Nov 09 17:15	3°M45'45	
direct	4539 Nov 26 23:22	19° <b>™</b> 39'30		morning max el	4540 Nov 16 05:01	7° <b>M</b> ₊11'42	17°56'54
morning max el	4539 Dec 03 12:53	23°M12'56	18°21'38		4540 Dec 01 12:21	0° <b>∡</b> ¹	
	4539 Dec 09 00:48	0° <b>∡</b> 7		morning set	4540 Dec 03 12:37	3° <b>҂</b> 23′20	
morning set	4539 Dec 23 00:26	21° <b>∡</b> 52'51		desc. node	4540 Dec 14 15:48	21° <b>₹</b> 50′26	
	4539 Dec 28 01:51	0°ප					
desc. node	4539 Dec 28 18:49	1° <b>る</b> 07'42		superior conj	4540 Dec 17 00:33	25° <b>∡</b> ³39'33	-0°16'20
				minimum elong	4540 Dec 16 22:36	25° <b>∡</b> ³31'42	0°16'02
superior conj	4540 Jan 07 11:43	16° <b>る</b> 28'39	-1°03'31	behind sun begin	4540 Dec 16 21:22	25° <b>₹</b> 26'43	
minimum elong	4540 Jan 07 03:59	15° <b>る</b> 58'20		behind sun end	4540 Dec 16 23:50	25° <b>₹</b> 36'41	
max. Earth dist.	4540 Jan 08 20:54	18° <b>る</b> 38'50	1.45292 AU		4540 Dec 19 17:42	ರ°0	
	4540 Jan 16 02:53	0° <b>≈</b>		max. Earth dist.	4540 Dec 21 15:43	3° <b>ට</b> 02'27	1.44838 AU
evening rise	4540 Jan 23 14:21	11° <b>≈</b> 43'35		evening rise	4541 Jan 02 04:54	21° <b>ට</b> 01'44	1.1.050110
greatest brilliancy	4540 Feb 03 05:40	28° <b>≈</b> 22'18	-0.8m	evening rise	4541 Jan 08 01:32	0°≈	
greatest oriniancy	4540 Feb 04 07:08	0° <b>∀</b>	0.0111	greatest brilliancy	4541 Jan 16 19:33	13°≈08'02	-0.6m
evening max el	4540 Feb 15 17:30	15° <b>∺</b> 28'19	10011'56	evening max el	4541 Jan 28 21:54	29°≈00'53	20°06'55
asc. node		17° <b>)</b> 33'11	19 11 50	evening max ci	4541 Jan 29 21:57	0° <b>∺</b>	20 00 33
	4540 Feb 18 01:04	17 <b>X</b> 33 11 19° <b>X</b> 27'12		4		0 <del>X</del> 3° <b>¥</b> 15'44	
retrograde	4540 Feb 22 17:29			asc. node	4541 Feb 03 22:06		
evening set	4540 Feb 26 03:30	18° <b>¥</b> 19'05	202412	retrograde	4541 Feb 05 15:26	3° <b>)</b> € 31'42	
inferior conj	4540 Mar 02 16:14	12° <b>)</b> € 29'38		evening set	4541 Feb 09 09:39	2° <b>₩</b> 09'27	
minimum elong	4540 Mar 02 14:38	12° <b>)</b> (34'44	3°24'00		4541 Feb 11 17:09	30°R≈	
min. Earth dist.	4540 Mar 04 02:42	10° <b>)</b> (39′03	0.66202 AU	inferior conj	4541 Feb 14 19:07	26°≈06'13	3°01'54
morning rise	4540 Mar 08 01:26	6° <b>米</b> 15′29		minimum elong	4541 Feb 14 16:51	26°≈13'52	3°01'24
direct	4540 Mar 14 09:58	3° <b>¥</b> 27′10		min. Earth dist.	4541 Feb 15 15:26	24° <b>≈</b> 57'41	0.67228 AU
desc. node	4540 Mar 25 18:04	9° <b>)</b> 39′16		morning rise	4541 Feb 19 23:49	19° <b>≈</b> 52′03	
morning max el	4540 Mar 27 03:37	11° <b>米</b> 01′24	26°15'58	direct	4541 Feb 25 19:41	17° <b>≈</b> 15'42	
	4540 Apr 11 06:01	$0^{\circ}\mathbf{Y}$		morning max el	4541 Mar 09 12:19	24° <b>≈</b> 15′19	24°56'12
	4540 Apr 29 16:21	$0^{\circ}$ 8		desc. node	4541 Mar 12 15:04	27° <b>≈</b> 36'43	
morning set	4540 May 02 06:15	4° <b>8</b> 44'45			4541 Mar 14 15:58	0° <b>∀</b>	
max. Earth dist.	4540 May 06 06:17	12° <b>8</b> 23'19	1.35057 AU		4541 Apr 04 16:21	$0^{\circ}$ Y	
				morning set	4541 Apr 14 15:05	16° <b>Ƴ</b> 50'14	
superior conj	4540 May 11 06:01	22° <b>8</b> 22'07	-0°47'39	max. Earth dist.	4541 Apr 18 06:02	23° <b>Y</b> 24'21	1.36934 AU
minimum elong	4540 May 11 08:36	22° <b>8</b> 35'19	0°47'10		4541 Apr 21 18:16	$9^{\circ}$ 8	
-	4540 May 14 22:42	$\Pi^{\circ}0$			-		
	•						

superior conj	4541 Apr 24 17:04	5° <b>8</b> 42'36	-1°16'35	max. Earth dist.	4542 Mar 31 01:26	4° <b>Ƴ</b> 42'01	1.39085 AU
minimum elong	4541 Apr 24 21:10	6° <b>8</b> 02'45	1°15'56				
asc. node	4541 May 02 21:22	22° <b>8</b> 04'11		superior conj	4542 Apr 07 14:23	18° <b>Ƴ</b> 20'14	-1°42'23
evening rise	4541 May 03 02:43	22° <b>8</b> 31'00		minimum elong	4542 Apr 07 19:16	18° <b>Ƴ</b> 43'01	1°41'51
	4541 May 06 21:43	$\Pi^{\circ}0$			4542 Apr 13 17:21	0° <b>႘</b>	
evening max el	4541 May 20 03:50	20° <b>Ⅱ</b> 14′00	19°29'22	evening rise	4542 Apr 16 22:02	6° <b>8</b> 11'34	
retrograde	4541 May 29 15:28	24° <b>Ⅱ</b> 51'18		asc. node	4542 Apr 19 18:25	11° <b>8</b> 40'11	
evening set	4541 May 31 14:31	24° <b>Ⅱ</b> 40′19			4542 Apr 30 23:06	$\Pi$ $^{\circ}0$	
desc. node	4541 Jun 08 14:18	21° <b>Ⅱ</b> 00'06		evening max el	4542 May 03 04:15	2° <b>Ⅲ</b> 25'44	18°41'47
inferior conj	4541 Jun 09 06:02	20° <b>Ⅱ</b> 34'57	-0°11'40	retrograde	4542 May 11 04:45	6° <b>Ⅲ</b> 22'12	
minimum elong	4541 Jun 09 05:31	20° <b>Ⅱ</b> 35'47	0°11'29	evening set	4542 May 13 09:16	6° <b>Ⅱ</b> 05'40	
transit middle	4541 Jun 09 05:31	20° <b>Ⅱ</b> 35'47	0°11'29	inferior conj	4542 May 21 04:53	1° <b>Ⅱ</b> 42'18	1°28'53
transit begin	4541 Jun 09 02:49	20° <b>Ⅱ</b> 40′07		minimum elong	4542 May 21 07:53	1° <b>Ⅱ</b> 36'39	1°27'53
transit end	4541 Jun 09 08:14	20° <b>Ⅱ</b> 31′26			4542 May 23 11:23	30° <b>₹</b> 8	
min. Earth dist.	4541 Jun 11 19:15	18° <b>Ⅱ</b> 57'10	0.55789 AU	min. Earth dist.	4542 May 24 12:15	29° <b>8</b> 14'49	0.57445 AU
morning rise	4541 Jun 17 17:49	15° <b>Ⅱ</b> 56'53		desc. node	4542 May 26 11:19	27° <b>8</b> 55'44	
direct	4541 Jun 22 09:38	15° <b>Ⅱ</b> 07'57		morning rise	4542 May 29 03:17	26° <b>8</b> 28'49	
morning max el	4541 Jul 06 10:52	22° <b>Ⅱ</b> 12'50	24°57'18	direct	4542 Jun 03 17:59	25° <b>8</b> 11'02	
	4541 Jul 13 07:45	0ංම			4542 Jun 15 00:54	$\Pi$ $^{\circ}0$	
asc. node	4541 Jul 29 20:37	27° <b>©</b> 52'22		morning max el	4542 Jun 18 02:42	2° <b>Ⅱ</b> 43'48	26°26'22
	4541 Jul 30 21:28	$0^{\circ}\Omega$			4542 Jul 07 15:35	0ංම	
morning set	4541 Aug 01 13:59	3° <b>£</b> 32′17		asc. node	4542 Jul 16 17:39	17° <b>©</b> 43'53	
				morning set	4542 Jul 17 00:40	18° <b>5</b> 20'47	
superior conj	4541 Aug 08 12:34	18° <b>Ω</b> 36'34	1°25'51		4542 Jul 22 09:43	$0^{\circ}\Omega$	
minimum elong	4541 Aug 08 10:22	18° <b>Ω</b> 24'32	1°25'35				
max. Earth dist.	4541 Aug 09 23:33	21° <b>Ω</b> 47'15	1.32656 AU	superior conj	4542 Jul 24 00:03	3° <b>Ω</b> 31'25	1°09'35
	4541 Aug 13 19:38	0° <b>m</b> y		minimum elong	4542 Jul 23 21:44	3° <b>Ω</b> 18'41	1°09'11
evening rise	4541 Aug 15 16:57	3° <b>m</b> 55'18		max. Earth dist.	4542 Jul 24 09:36	4° <b>Ω</b> 24'06	1.32115 AU
	4541 Aug 29 22:04	0∘ <b>⊽</b>		evening rise	4542 Jul 30 21:58	18° <b>Ω</b> 30′25	
desc. node	4541 Sep 04 13:34	8° <b>≙</b> 36'14			4542 Aug 05 15:10	0° <b>m</b> y	
evening max el	4541 Sep 17 10:48	24° <b>≙</b> 08'57	27°25'35	desc. node	4542 Aug 22 10:36	27° <b>m</b> 09'24	
	4541 Sep 25 12:14	0° <b>M</b>			4542 Aug 24 16:42	0∘ <b>ಹ</b>	
retrograde	4541 Oct 01 04:40	1°ML24'09		evening max el	4542 Aug 30 15:59	6° <b>£</b> 28'48	26°58'52
_	4541 Oct 06 13:30	30° <b>₹</b>		retrograde	4542 Sep 13 13:12	13° <b>≙</b> 39'51	
evening set	4541 Oct 08 09:04	28° <b>£</b> 53'31		evening set	4542 Sep 20 13:28	11° <b>≏</b> 30'40	
min. Earth dist.	4541 Oct 12 00:17	25° <b>£</b> 53'28		min. Earth dist.	4542 Sep 24 06:12		0.60830 AU
inferior conj	4541 Oct 14 19:41	23° <b>£</b> 11'17		inferior conj	4542 Sep 27 10:25	6° <b>2</b> 09'54	
minimum elong	4541 Oct 15 01:21	22° <b>£</b> 57'36	3°24'19	minimum elong	4542 Sep 27 16:28	5° <b>£</b> 57'03	4°20'12
morning rise	4541 Oct 21 19:12 4541 Oct 24 04:35	18° <b>♀</b> 01'25 17° <b>♀</b> 35'05		morning rise	4542 Oct 04 21:22 4542 Oct 07 05:33	1° <b>♀</b> 21'02 0° <b>♀</b> 59'21	
direct asc. node	4541 Oct 25 19:51	17 <b>=</b> 33 03 17° <b>£</b> 47'44		direct asc. node	4542 Oct 12 16:53	3° <b>⊆</b> 03'29	
morning max el	4541 Oct 30 21:31	21° <b>⊆</b> 4744 21° <b>⊆</b> 01'42	17°49'58	morning max el	4542 Oct 14 11:13	4° <b>£</b> 34'57	18°01'48
morning max cr	4541 Nov 06 16:01	0°M	17 47 36	morning set	4542 Oct 30 05:29	29° <b>£</b> 29'35	10 01 40
morning set	4541 Nov 16 00:29	16°ML02'16		morning set	4542 Oct 30 12:03	0° <b>™</b>	
morning sec	4541 Nov 24 00:12	0° <b>∡</b> ¹			13 12 000 30 12.03	0 110	
		• •		superior conj	4542 Nov 09 05:08	17° <b>M</b> 42'21	1°02'00
superior conj	4541 Nov 27 13:42	6° <b>∡</b> 102'41	0°27'34	minimum elong	4542 Nov 09 09:12	18° <b>M</b> L00'18	1°01'29
minimum elong	4541 Nov 27 16:19	6° <b>≯</b> 13'40		Č	4542 Nov 16 08:39	0° <b>∡</b> 7	
desc. node	4541 Dec 01 12:50	12° <b>∡</b> ³37'12		max. Earth dist.	4542 Nov 16 20:25	0° <b>∡</b> ¹49'03	1.42016 AU
max. Earth dist.	4541 Dec 04 08:22	17° <b>∡</b> 11'43	1.43700 AU	desc. node	4542 Nov 18 09:52	3° <b>∡</b> 124'07	
	4541 Dec 12 10:54	8°0		evening rise	4542 Nov 22 12:45	10° <b>∡</b> ¹04'57	
evening rise	4541 Dec 12 15:11	0° <b>ප</b> 16'33			4542 Dec 05 13:18	0°ರ	
	4542 Jan 01 17:40	0° <b>≈</b>		evening max el	4542 Dec 25 14:41	26° <b>ප</b> 10'32	22°31'13
evening max el	4542 Jan 11 20:54	12° <b>≈</b> 35′07	21°14'39		4542 Dec 30 01:12	0° <b>≈</b>	
retrograde	4542 Jan 20 13:15	17° <b>≈</b> 43'49		retrograde	4543 Jan 04 09:21	1° <b>≈</b> 59'16	
asc. node	4542 Jan 21 19:08	17° <b>≈</b> 35'26		asc. node	4543 Jan 08 16:10	0° <b>≈</b> 23'01	
evening set	4542 Jan 24 17:18	16° <b>≈</b> 06′22		evening set	4543 Jan 09 00:46	0° <b>≈</b> 05'55	
inferior conj	4542 Jan 30 01:31	9° <b>≈</b> 52'05			4543 Jan 09 03:36	30°₹ <b>⋜</b>	
minimum elong	4542 Jan 29 23:04	10°≈00'33	2°29'17	inferior conj	4543 Jan 14 09:24	23° <b>る</b> 43'51	1°50'03
min. Earth dist.	4542 Jan 30 09:05	9° <b>≈</b> 25'54	0.67841 AU	minimum elong	4543 Jan 14 07:14	23° <b>る</b> 51'21	1°49'18
morning rise	4542 Feb 04 04:39	3°≈39'30		min. Earth dist.	4543 Jan 14 05:21	23° <b>る</b> 57'53	0.68060 AU
direct	4542 Feb 09 10:03	1°≈22'26	22027116	morning rise	4543 Jan 19 13:35	17° <b>る</b> 34'22	
morning max el	4542 Feb 19 21:06	7°≈35'38	23°27'46	direct	4543 Jan 24 04:14	15° <b>る</b> 39'54	22000100
desc. node	4542 Feb 27 12:05	16°≈27'15		morning max el	4543 Feb 02 09:13	21° <b>る</b> 03'39	22°00'09
	4542 Mar 09 08:19	0° <b>₩</b>		J 1	4543 Feb 09 23:40	0°≈ 5°2 255120	
morning set	4542 Mar 27 00:37	27° <b>)</b> 45'47 0° <b>°</b>		desc. node	4543 Feb 14 09:07	5°≈55'29 0°¥	
	4542 Mar 28 08:13	V I			4543 Mar 02 14:51	0° <b>∀</b>	

morning set	4543 Mar 07 05:51	7° <b>)</b> 19'54		superior conj	4544 Feb 29 20:34	10° <b>)</b> (40'31	-2°08'16
max. Earth dist.	4543 Mar 12 23:43		1.41245 AU	minimum elong	4544 Feb 29 20:15	10° <b>)</b> (39'10	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			4544 Mar 12 01:07	0°Υ	_ 0000
superior conj	4543 Mar 20 17:10	0° <b>Υ</b> 02'58	-2°01'18	evening rise	4544 Mar 12 22:31	1° <b>Y</b> 34'35	
minimum elong	4543 Mar 20 20:58	0° <b>Υ</b> 19'44		asc. node	4544 Mar 23 12:30	19° <b>Ƴ</b> 43'26	
Č	4543 Mar 20 16:30	$_{0}$ $^{\circ}$ $\Upsilon$		evening max el	4544 Mar 29 23:57	28° <b>Ƴ</b> 14'38	18°06'47
evening rise	4543 Mar 31 06:01	19° <b>Ƴ</b> 15'47		C	4544 Apr 01 01:21	0° <b>႘</b>	
Č	4543 Apr 06 02:53	0° <b>႘</b>		retrograde	4544 Apr 05 12:37	1° <b>8</b> 37'04	
asc. node	4543 Apr 06 15:28	0° <b>ප්</b> 55'31		evening set	4544 Apr 08 06:07	1° <b>8</b> 01'13	
evening max el	4543 Apr 16 12:05	15° <b>8</b> 08'52	18°14'28		4544 Apr 10 02:04	30° <b>ŖƳ</b>	
retrograde	4543 Apr 23 13:01	18° <b>8</b> 40'35		inferior conj	4544 Apr 14 16:15	25° <b>Ƴ</b> 57'18	3°17'59
evening set	4543 Apr 26 00:11	18° <b>8</b> 15'25		minimum elong	4544 Apr 14 18:27	25° <b>Ƴ</b> 51'45	3°17'41
inferior conj	4543 May 03 01:12	13° <b>8</b> 31'35	2°38'18	min. Earth dist.	4544 Apr 17 17:18	22° <b>Y</b> 54'39	0.61723 AU
minimum elong	4543 May 03 04:41	13° <b>8</b> 23'57	2°37'29	morning rise	4544 Apr 21 05:01	19° <b>Ƴ</b> 57'58	
min. Earth dist.	4543 May 06 10:52	10° <b>8</b> 34'06	0.59532 AU	direct	4544 Apr 28 00:20	17° <b>Ƴ</b> 33'49	
morning rise	4543 May 10 06:28	7° <b>8</b> 49'50		desc. node	4544 Apr 29 05:23	17° <b>Ƴ</b> 38′07	
desc. node	4543 May 13 08:21	6° <b>8</b> 27'23		morning max el	4544 May 12 04:32	25° <b>Ƴ</b> 32'54	27°51'59
direct	4543 May 16 15:38	5° <b>8</b> 57'10			4544 May 16 07:04	$9^{\circ}$ 8	
morning max el	4543 May 31 00:33	13° <b>8</b> 47'35	27°27'24		4544 Jun 05 10:24	$\Pi^{\circ}0$	
	4543 Jun 12 23:07	$\Pi$ $^{\circ}0$		morning set	4544 Jun 14 11:48	17° <b>Ⅱ</b> 21'25	
	4543 Jun 29 21:50	$0$ $\circ$		asc. node	4544 Jun 19 11:46	27° <b>Ⅱ</b> 52'35	
morning set	4543 Jul 01 08:37	2° <b>©</b> 59'36			4544 Jun 20 11:19	$0$ $\circ$	
asc. node	4543 Jul 03 14:44	7°9345'47		max. Earth dist.	4544 Jun 20 06:23	29° <b>∏</b> 33'13	1.32261 AU
superior conj	4543 Jul 08 11:47	18° <b>5</b> 24'19	0°49'09	superior conj	4544 Jun 21 21:57	3° <b>©</b> 08'36	0°25'09
minimum elong	4543 Jul 08 09:50	18°913'35	0°48'46	minimum elong	4544 Jun 21 20:49	3°502'25	0°24'53
max. Earth dist.	4543 Jul 07 21:13	17° <b>©</b> 04'03	1.31979 AU	evening rise	4544 Jun 28 18:40	18° <b>©</b> 04'48	
	4543 Jul 13 18:38	0°N		. 1	4544 Jul 04 14:50	0° <b>Ω</b>	2.402.412.2
evening rise	4543 Jul 15 07:15	3° <b>Ω</b> 16′07		evening max el	4544 Jul 24 04:52	28° <b>Ω</b> 47'20	24°34'33
1 1	4543 Jul 29 13:30	0° Mp		1 1	4544 Jul 25 12:23	0° <b>m</b> ,2505	
desc. node	4543 Aug 09 07:37	14° Mp 37'58	25950122	desc. node	4544 Jul 26 04:39	0° Mp 35'05	
evening max el	4543 Aug 12 13:54	18° Mp 00'36	25°59'32	retrograde	4544 Aug 07 02:12	5° Mp 47'59	
retrograde evening set	4543 Aug 26 13:07 4543 Sep 01 20:59	25° m 08'29 23° m 32'18		evening set min. Earth dist.	4544 Aug 12 04:08 4544 Aug 17 16:02	4° m 50'04 1° m 59'42	0.56848 AU
min. Earth dist.	4543 Sep 06 02:24	20° m 56'48	0.58758 AU	inferior conj	4544 Aug 20 09:52	0° Mp 14'05	
inferior conj	4543 Sep 09 08:06	18° Mp 33'58		minimum elong	4544 Aug 20 09:32 4544 Aug 20 08:40	0°My14'03	
minimum elong	4543 Sep 09 12:06	18° Mp 26'33		minimum ciong	4544 Aug 20 18:37	30°RΩ	3 13 17
morning rise	4543 Sep 17 05:29	14° Mp 08'16	3 01 2)	morning rise	4544 Aug 28 15:43	26° <b>Ω</b> 09'44	
direct	4543 Sep 19 15:38	13° m 48'52		direct	4544 Aug 31 07:01	25° <b>Ω</b> 50'38	
morning max el	4543 Sep 27 18:51	17° <b>m</b> 43'06	18°33'44	anoct	4544 Sep 09 10:31	0°m	
asc. node	4543 Sep 29 13:57	19° <b>m</b> 36'35	10 33	morning max el	4544 Sep 09 17:03	0° mp 15'08	19°27'05
	4543 Oct 06 16:03	0∘ <b>⊽</b>		asc. node	4544 Sep 15 11:00	7° <b>m</b> 10'48	
morning set	4543 Oct 13 22:35	13° <b>≏</b> 31'13		morning set	4544 Sep 26 23:55	27° m 55'54	
Č				8	4544 Sep 28 00:39	0∘ <u>⊽</u>	
superior conj	4543 Oct 22 18:38	0°M26'42	1°25'32		-		
minimum elong	4543 Oct 22 22:01	0°M42'26	1°25'12	superior conj	4544 Oct 05 00:37	13° <b>≏</b> 58'59	1°39'00
	4543 Oct 22 12:55	0°M		minimum elong	4544 Oct 05 02:28	14° <b>≙</b> 08'00	1°38'53
max. Earth dist.	4543 Oct 30 03:02	13°M42'40	1.39999 AU	max. Earth dist.	4544 Oct 11 07:20	25° <b>≏</b> 55'46	1.37906 AU
evening rise	4543 Nov 03 07:38	$20^{\circ}$ M $52'08$			4544 Oct 13 13:04	$0^{\circ}$ M	
desc. node	4543 Nov 05 06:54	24°M08'05		evening rise	4544 Oct 15 01:31	2°M42'08	
	4543 Nov 08 22:00	0° <b>∡</b> 7		desc. node	4544 Oct 22 03:56	14°M44'29	
	4543 Nov 29 16:42	0°ප			4544 Nov 01 01:17	0°⊀	
evening max el	4543 Dec 08 04:48	9° <b>ප</b> 49'01	23°51'10	evening max el	4544 Nov 19 17:25	23° <b>∡</b> 31′10	25°08'01
retrograde	4543 Dec 19 02:20	16° <b>る</b> 14'30			4544 Nov 29 01:38	0°ಕ	
evening set	4543 Dec 24 06:30	14° <b>る</b> 05'24		retrograde	4544 Dec 01 15:09	0° <b>る</b> 24'30	
asc. node	4543 Dec 26 13:12	11° <b>る</b> 45'59			4544 Dec 04 01:17	30°R. <b>✓</b>	
min. Earth dist.	4543 Dec 29 02:00	8°る30'27		evening set	4544 Dec 07 08:51	28° ₹01'01	0.68445
inferior conj	4543 Dec 29 16:57	7° <b>る</b> 39'34	1°03'11	min. Earth dist.	4544 Dec 11 20:37	23° 🗷 00'11	0.67413 AU
minimum elong	4543 Dec 29 15:32	7°る44'25	1°02'37	asc. node	4544 Dec 12 10:14	22° 🖈 15'47	0010101
morning rise	4544 Jan 04 00:34	1°る34'48		inferior conj	4544 Dec 12 22:22	21°×36'02	0°10'21
direct	4544 Jan 08 01:15	0°る03'03	20040147	minimum elong	4544 Dec 12 22:06	21° 🗷 36'53	0°10'14
morning max el desc. node	4544 Jan 16 03:50 4544 Feb 01 06:09	4°る42'29 25°る51'11	20°40'47	transit middle transit begin	4544 Dec 12 22:06 4544 Dec 12 19:57	21° ₹ 36'53 21° ₹ 43'56	0°10'14
uese. Houe	4544 Feb 04 01:23	23° <b>⊘</b> 31111		transit begin transit end	4544 Dec 12 19:57 4544 Dec 13 00:15	21° <b>×</b> '43'36 21° <b>×</b> <sup>7</sup> 29'52	
morning set	4544 Feb 14 09:38	0°≈ 15°≈45'51		morning rise	4544 Dec 18 11:34	21° <b>×</b> °29′32 15° <b>×</b> <sup>7</sup> 38′10	
max. Earth dist.	4544 Feb 23 04:41	13 <b>≈</b> 43 31 29° <b>≈</b> 42'16	1.43133 AU	direct	4544 Dec 21 23:53	13 <b>x</b> · 38 10 14° <b>x</b> 27′01	
max. Larm uist.		∠/ <del>~~</del> ±∠ 10	1.75133 AU	uncet	TUTT DOG 41 43.33	17 A 4/UI	
	4544 Feb 23 09:04	0° <b>)</b> €		morning max el	4544 Dec 29 06:18		19°34'25

4 41 311	4545 Jan 07 08:14	0°궁	0.7		4545 Dec 02 08:45	30°RM	
greatest brilliancy desc. node	4545 Jan 11 08:12 4545 Jan 18 03:11	5°る50'30 16°る06'39	-0.7m	morning rise	4545 Dec 02 20:35	29°M41'33 28°M47'44	
morning set	4545 Jan 23 06:25	16 30639 24° <b>る</b> 00'19		direct	4545 Dec 05 22:23 4545 Dec 09 15:11	28 1164744 0° <b>7</b>	
morning set	4545 Jan 27 03:16	24 000 19 0°≈		morning max el	4545 Dec 12 15:53	2° <b>×</b> <sup>7</sup> 29'30	180/3128
max. Earth dist.	4545 Feb 04 16:54	0 <b>∞</b> 13° <b>≈</b> 26'09	1.44510 AU	morning max cr	4545 Dec 31 19:43	2 x 29 30	18 43 28
max. Lartii dist.	4545160 04 10.54	13 /0/2007	1.44310710	morning set	4546 Jan 02 21:01	3°る14'20	
superior conj	4545 Feb 08 22:20	20°≈10'28	-1°57'54	desc. node	4546 Jan 05 00:12	6° <b>ප</b> 35'56	
minimum elong	4545 Feb 08 15:51		1°57'31	max. Earth dist.	4546 Jan 18 10:29	27° <b>る</b> 41'05	1.45221 AU
	4545 Feb 14 23:38	0° <b>∀</b>	1 0, 31	man Barur dige.	10 10 000	27 311 00	1.10221110
evening rise	4545 Feb 22 19:05	12° <b>¥</b> 59'37		superior conj	4546 Jan 19 04:30	28° <b>る</b> 51'49	-1°27'53
<i>8</i> 11	4545 Mar 05 00:30	$0^{\circ}\Upsilon$		minimum elong	4546 Jan 18 19:11	28° <b>ප</b> 15'16	
asc. node	4545 Mar 10 09:32	7° <b>Y</b> 55'20		Z .	4546 Jan 19 21:52	0° <b>≈</b>	
evening max el	4545 Mar 13 12:47	11° <b>Y</b> 35'08	18°18'01	evening rise	4546 Feb 03 16:34	23° <b>≈</b> 26'53	
retrograde	4545 Mar 19 23:07	15° <b>Y</b> 02'07		Č	4546 Feb 07 18:26	0° <b>∀</b>	
evening set	4545 Mar 22 22:43	14° <b>Y</b> 14'19		greatest brilliancy	4546 Feb 11 00:46	5° <b>)</b> 14′01	-0.9m
inferior conj	4545 Mar 28 21:54	8° <b>Y</b> 51'24	3°33'53	evening max el	4546 Feb 24 23:53	25° <b>)</b> €03'05	18°47'22
minimum elong	4545 Mar 28 22:24	8° <b>Y</b> 50'00	3°33'52	asc. node	4546 Feb 25 06:34	25° <b>)</b> 19'49	
min. Earth dist.	4545 Mar 31 08:46	6° <b>Y</b> 06′01	0.63744 AU	retrograde	4546 Mar 03 16:32	28° <b>)</b> 47′00	
morning rise	4545 Apr 03 21:09	2° <b>Y</b> 42'52		evening set	4546 Mar 06 22:35	27° <b>)</b> €46′23	
	4545 Apr 10 02:02	30° <b>₹</b> ₩		inferior conj	4546 Mar 12 14:16	22° <b>∺</b> 05'57	3°31'49
direct	4545 Apr 10 17:44	29° <b>)</b> 58′35		minimum elong	4546 Mar 12 13:18	22° <b>)</b> €08'54	3°31'44
	4545 Apr 11 09:37	$0^{\circ}\mathbf{\Upsilon}$		min. Earth dist.	4546 Mar 14 09:24	19° <b>¥</b> 53′08	0.65424 AU
desc. node	4545 Apr 16 02:24	1° <b>Y</b> 23'46		morning rise	4546 Mar 18 03:36	15° <b>¥</b> 53′09	
morning max el	4545 Apr 24 12:45	7° <b>Y</b> 56'47	27°39'15	direct	4546 Mar 24 18:03	13° <b>)</b> €02'47	
	4545 May 11 12:49	$9^{\circ}$ 8		desc. node	4546 Apr 02 23:25	17° <b>)</b> 11'45	
	4545 May 28 15:55	$\Pi^{\circ}0$		morning max el	4546 Apr 06 22:38	20° <b>)</b> 48′55	26°53'52
morning set	4545 May 29 07:54	1° <b>Ⅱ</b> 19′02			4546 Apr 14 21:04	$0$ ° $\Upsilon$	
max. Earth dist.	4545 Jun 03 09:14	11° <b>Ⅱ</b> 39'59	1.32987 AU		4546 May 04 16:01	$9^{\circ}$ 8	
				morning set	4546 May 12 17:45	14° <b>8</b> 42'41	
superior conj	4545 Jun 06 04:45	17° <b>Ⅱ</b> 38'35		max. Earth dist.	4546 May 17 02:23	23° <b>8</b> 16'27	1.34175 AU
minimum elong	4545 Jun 06 04:50	17° <b>Ⅱ</b> 39'02	0°01'46		4546 May 20 09:23	$\Pi$ °0	
behind sun begin	4545 Jun 05 23:31	17° <b>Ⅱ</b> 10'31				_	
behind sun end	4545 Jun 06 10:09	18° <b>Ⅱ</b> 07'35		superior conj	4546 May 21 06:01	1° <b>Ⅱ</b> 47'17	
asc. node	4545 Jun 06 08:48	18° <b>Ⅱ</b> 00′23		minimum elong	4546 May 21 07:39	1° <b>∏</b> 55'45	0°30'18
	4545 Jun 11 22:22	0°95		asc. node	4546 May 24 05:50	8° <b>Ⅱ</b> 04'37	
evening rise	4545 Jun 13 06:23	2°950'30		evening rise	4546 May 28 16:29	17° <b>Ⅱ</b> 26'40	
	4545 Jun 28 03:45	0° <b>N</b>	22055120		4546 Jun 03 23:21	0.2 0.2	2102422
evening max el	4545 Jul 05 17:54	9° <b>£</b> 11'00	22°57'38	evening max el	4546 Jun 17 12:49	19°543'39	21°24'22
desc. node	4545 Jul 13 01:39	14° <b>Ω</b> 27'28		retrograde	4546 Jun 29 16:23	25°542'55	
retrograde	4545 Jul 19 02:22 4545 Jul 22 15:45	15° <b>Ω</b> 50′29		desc. node	4546 Jun 29 22:39 4546 Jul 02 01:44	25°5942'46	
evening set		15° <b>Ω</b> 22'49	0.55437 AU	evening set inferior conj		25°529'50	2915120
min. Earth dist. inferior conj	4545 Jul 30 02:41 4545 Jul 31 16:19	12 <b>δ0</b> 3 01 11° <b>Ω</b> 08'41		minimum elong	4546 Jul 11 10:35 4546 Jul 11 02:17	21°530'24 21°542'00	
minimum elong	4545 Jul 31 09:10	11° <b>Ω</b> 19'02		min. Earth dist.	4546 Jul 11 13:07	21°926'51	
morning rise	4545 Aug 09 04:48	7° <b>Ω</b> 17'21	4 38 30	morning rise	4546 Jul 20 03:39	17° <b>©</b> 35'49	0.54622 AO
direct	4545 Aug 12 03:59	6°Ω56'36		direct	4546 Jul 23 13:48	17°9510'27	
morning max el	4545 Aug 23 03:24	12° <b>Ω</b> 02'47	20°42'06	morning max el	4546 Aug 05 02:15	23°505'26	22°15'42
asc. node	4545 Sep 02 08:02	25° <b>Ω</b> 32'28	20 12 00	morning max or	4546 Aug 11 04:26	0° <b>Ω</b>	22 13 12
	4545 Sep 04 20:45	0° m/		asc. node	4546 Aug 20 05:04	14° <b>Ω</b> 30'06	
morning set	4545 Sep 11 06:45	12° m/36'15		morning set	4546 Aug 26 16:55	27° <b>Ω</b> 26'13	
5		4		<i>3 3 3 3 3 3 3 3 3 3</i>	4546 Aug 27 22:08	0° m)	
superior conj	4545 Sep 18 18:27	28° Mp 06'04	1°43'51		C	•	
minimum elong	4545 Sep 18 18:42	28° m, 07'18	1°43'51	superior conj	4546 Sep 02 20:32	12° <b>m</b> 37'22	1°41'30
Č	4545 Sep 19 16:50	0∘ <u>⊽</u>		minimum elong	4546 Sep 02 19:28	12° <b>m</b> ) 31'47	1°41'28
max. Earth dist.	4545 Sep 23 15:10	7° <b>≏</b> 49'31	1.35973 AU	max. Earth dist.	4546 Sep 06 06:51	19° <b>m</b> 46'43	1.34360 AU
evening rise	4545 Sep 27 15:24	15° <b>≏</b> 27'39		evening rise	4546 Sep 10 20:58	28° <b>m</b> 57'29	
	4545 Oct 05 21:26	0°M			4546 Sep 11 09:53	0∘ <b>⊽</b>	
desc. node	4545 Oct 09 00:56	5°M08'41		desc. node	4546 Sep 25 21:57	25° <b>≙</b> 14'51	
	4545 Oct 26 15:18	0° <b>∡</b> ″			4546 Sep 29 01:05	$0^{\circ}$ M	
evening max el	4545 Nov 02 06:03	7° <b>∡</b> 13'53	26°14'18	evening max el	4546 Oct 15 18:46	20°M49'20	27°02'30
retrograde	4545 Nov 14 22:47	14° <b>₹</b> 23'53		retrograde	4546 Oct 29 00:50	$28^{\circ}$ M $06'25$	
evening set	4545 Nov 21 06:01	11° <b>₹</b> 49'04		evening set	4546 Nov 04 19:55	25°M25'45	
min. Earth dist.	4545 Nov 25 10:48	7° <b>≯</b> 23'33		min. Earth dist.	4546 Nov 08 18:10	21°M35'58	0.65375 AU
inferior conj	4545 Nov 26 23:45	5° <b>₹</b> 29'55	-0°47'25	inferior conj	4546 Nov 10 19:02	19° <b>M</b> 17'20	
minimum elong	4545 Nov 27 01:02	5° <b>≯</b> 25'58	0°46'52	minimum elong	4546 Nov 10 22:07	19°M08'35	1°47'22
asc. node	4545 Nov 29 07:16	2° <b>∡</b> ¹45'55		asc. node	4546 Nov 16 04:18	14°M10'53	

morning rise	4546 Nov 17 01:17	13° <b>M</b> 41'34		inferior conj	4547 Oct 25 05:40	2°M51'48	2051104
direct	4546 Nov 19 18:45	13°M01'21		minimum elong	4547 Oct 25 10:32	2°M39'17	
morning max el	4546 Nov 26 06:29	16°M30'09	18°09'03	minimum clong	4547 Oct 28 04:31	2 11 <b>c</b> 3917 30°RΩ	2 49 18
morning max ci	4546 Dec 06 03:09	10 11€30 09 0° <b>√</b> 7	18 09 03	morning rise	4547 Oct 31 22:42	27° <b>£</b> 31'48	
morning set	4546 Dec 14 16:58	13° <b>×</b> 757'27		direct	4547 Nov 03 10:11	27° <b>⊆</b> 01'29	
desc. node	4546 Dec 22 21:13	27°×715'03		asc. node	4547 Nov 03 10:11 4547 Nov 03 01:20	27° <b>⊆</b> 01'29	
dese. Hode	4546 Dec 24 14:20	0°る		ase. Houe	4547 Nov 09 01:20 4547 Nov 09 12:16	0°M	
	4340 DCC 24 14.20	<b>° O</b>		morning max el	4547 Nov 09 12:10 4547 Nov 09 23:15	0°M26'29	17°51'48
superior conj	4546 Dec 29 08:59	7° <b>る</b> 35'47	-0°43'44	morning set	4547 Nov 26 16:01	25°M59'13	17 51 10
minimum elong	4546 Dec 29 03:32	7°る14'12		morning sec	4547 Nov 29 00:07	0° <b>⊼</b>	
max. Earth dist.	4547 Jan 01 06:13		1.45190 AU		10 17 1101 25 00.07	• ••	
	4547 Jan 12 16:48	0°≈		superior conj	4547 Dec 09 07:16	17° <b>∡</b> 15'05	0°03'12
evening rise	4547 Jan 14 16:20	3°≈04'34		minimum elong	4547 Dec 09 07:37	17° <b>х</b> 16'33	0°03'10
greatest brilliancy	4547 Jan 27 06:44	22° <b>≈</b> 27'55	-0.7m	behind sun begin	4547 Dec 08 21:56	16° <b>∡</b> ³36'55	
greatest offinally	4547 Feb 01 10:23	0° <b>∀</b>	0.7111	behind sun end	4547 Dec 09 17:18	17° <b>₹</b> 56'05	
evening max el	4547 Feb 08 07:08	8° <b>)</b> 34′25	19°33'29	desc. node	4547 Dec 09 18:14	17° <b>₹</b> 59'52	
asc. node	4547 Feb 12 03:35	11° <b>)</b> (43'51	-,	max. Earth dist.	4547 Dec 15 00:29	26° <b>₹</b> '28'08	1.44430 AU
retrograde	4547 Feb 15 13:41	12° <b>)</b> (45'51			4547 Dec 17 05:57	0°ਰ	
evening set	4547 Feb 19 03:05	11° <b>X</b> 31'38		evening rise	4547 Dec 25 03:04	12° <b>る</b> 15'56	
inferior conj	4547 Feb 24 14:07	5° <b>)</b> €35'47	3°16'02	evening rise	4548 Jan 05 20:32	0°≈	
minimum elong	4547 Feb 24 12:11	5° <b>)</b> 42′09	3°15'42	evening max el	4548 Jan 22 09:08	22°≈06'48	20°34'19
min. Earth dist.	4547 Feb 25 18:18	4° <b>)</b> €03'09	0.66690 AU	retrograde	4548 Jan 30 11:57	26°≈53'41	20 3 . 19
min. Burur dist.	4547 Mar 01 04:50	30°R≈	0.000000110	asc. node	4548 Jan 30 00:37	26°≈52'28	
morning rise	4547 Mar 01 21:03	29°≈21'29		evening set	4548 Feb 03 10:06	25°≈25'03	
direct	4547 Mar 08 00:26	26°≈37'28		inferior conj	4548 Feb 08 18:47	19°≈16'29	2°49'26
	4547 Mar 15 22:00	0° <b>∀</b>		minimum elong	4548 Feb 08 16:23	19° <b>≈</b> 24'42	2°48'50
morning max el	4547 Mar 20 08:13	3° <b>¥</b> 58'15	25°43'51	min. Earth dist.	4548 Feb 09 09:29	18°≈26'12	
desc. node	4547 Mar 20 20:27	4° <b>¥</b> 29'33	20 .501	morning rise	4548 Feb 13 22:28	13°≈02'37	0.07000110
acco. noac	4547 Apr 09 05:18	0°Υ		direct	4548 Feb 19 12:09	10°≈34'00	
morning set	4547 Apr 25 13:16	27° <b>Υ</b> 20'50		morning max el	4548 Mar 01 16:54	17°≈15'32	24°19'06
morning sec	4547 Apr 26 23:46	0°8		desc. node	4548 Mar 06 17:29	22°≈51'28	2. 1900
max. Earth dist.	4547 Apr 29 08:18	4° <b>8</b> 26'19	1.35814 AU	dese. Hode	4548 Mar 12 07:44	0° <b>∀</b>	
man. Darun uibt.	10 17 11p1 25 00.10	. 02019	1.50011110		4548 Apr 01 06:05	0° <b>Υ</b>	
superior conj	4547 May 04 23:10	15° <b>8</b> 27'29	-1°00'06	morning set	4548 Apr 06 13:01	8° <b>Υ</b> 58'45	
minimum elong	4547 May 05 02:27	15° <b>8</b> 43'56		max. Earth dist.	4548 Apr 10 05:18	15° <b>Υ</b> 29'49	1.37820 AU
asc. node	4547 May 11 02:52	28° <b>8</b> 01'25	0 0 0 0 1	man. Bartir dist.	10 10 11pr 10 00.10	10 (2) .	1.5,020110
use. Hour	•						
	4547 May 12 01:59	0*11		superior coni	4548 Apr 17 04:54	28° <b>Y</b> '30'44	-1°28'05
evening rise	4547 May 12 01:59 4547 May 12 22:55	0°Ⅱ 1°∏46'57		superior conj	4548 Apr 17 04:54 4548 Apr 17 09:29	28° <b>Y</b> 30'44 28° <b>Y</b> 52'46	
evening rise	4547 May 12 22:55	1° <b>Ⅱ</b> 46'57		superior conj minimum elong	4548 Apr 17 09:29	28° <b>Y</b> 52'46	
-	4547 May 12 22:55 4547 May 29 23:12	1° <b>Ⅱ</b> 46′57 0°∽	20°05'48	minimum elong	4548 Apr 17 09:29 4548 Apr 17 23:26	28°Y52'46 0° <b>と</b>	
evening max el	4547 May 12 22:55 4547 May 29 23:12 4547 May 30 19:14	1°II46'57 0°ഇ 0°ഇ50'53	20°05'48	minimum elong	4548 Apr 17 09:29 4548 Apr 17 23:26 4548 Apr 25 23:09	28° <b>Y</b> 52'46 0° <b>엉</b> 15° <b>엉</b> 44'18	
evening max el retrograde	4547 May 12 22:55 4547 May 29 23:12 4547 May 30 19:14 4547 Jun 10 06:50	1°II46'57 0°© 0°©50'53 5°©58'09	20°05'48	minimum elong	4548 Apr 17 09:29 4548 Apr 17 23:26 4548 Apr 25 23:09 4548 Apr 26 23:55	28° <b>Y</b> 52'46 0° <b>と</b> 15° <b>と</b> 44'18 17° <b>と</b> 46'29	
evening max el retrograde evening set	4547 May 12 22:55 4547 May 29 23:12 4547 May 30 19:14 4547 Jun 10 06:50 4547 Jun 12 05:26	1°II46'57 0°© 0°©50'53 5°©58'09 5°©48'21	20°05'48	minimum elong evening rise asc. node	4548 Apr 17 09:29 4548 Apr 17 23:26 4548 Apr 25 23:09 4548 Apr 26 23:55 4548 May 03 12:00	28°Y52'46 0°8 15°844'18 17°846'29 0°耳	1°27'28
evening max el retrograde evening set desc. node	4547 May 12 22:55 4547 May 29 23:12 4547 May 30 19:14 4547 Jun 10 06:50 4547 Jun 12 05:26 4547 Jun 16 19:42	1°II46'57 0°© 0°©50'53 5°©58'09 5°©48'21 4°©16'47		minimum elong evening rise asc. node evening max el	4548 Apr 17 09:29 4548 Apr 17 23:26 4548 Apr 25 23:09 4548 Apr 26 23:55 4548 May 03 12:00 4548 May 12 13:53	28°Y52'46 0°8 15°844'18 17°846'29 0°耳 12°耳40'52	1°27'28
evening max el retrograde evening set desc. node inferior conj	4547 May 12 22:55 4547 May 29 23:12 4547 May 30 19:14 4547 Jun 10 06:50 4547 Jun 12 05:26 4547 Jun 16 19:42 4547 Jun 21 06:33	1°II46'57 0°© 0°©50'53 5°©58'09 5°©48'21 4°©16'47 1°©48'55	-1°19'30	evening rise asc. node evening max el retrograde	4548 Apr 17 09:29 4548 Apr 17 23:26 4548 Apr 25 23:09 4548 Apr 26 23:55 4548 May 03 12:00 4548 May 12 13:53 4548 May 21 09:40	28°Y52'46 0°℧ 15°℧44'18 17°℧46'29 0°頂 12°頂40'52 16°耳59'19	1°27'28
evening max el retrograde evening set desc. node inferior conj minimum elong	4547 May 12 22:55 4547 May 29 23:12 4547 May 30 19:14 4547 Jun 10 06:50 4547 Jun 12 05:26 4547 Jun 16 19:42 4547 Jun 21 06:33 4547 Jun 21 02:50	1°II46'57 0°9 0°950'53 5°958'09 5°948'21 4°916'47 1°9548'55 1°9554'29	-1°19'30 1°18'07	evening rise asc. node  evening max el retrograde evening set	4548 Apr 17 09:29 4548 Apr 17 23:26 4548 Apr 25 23:09 4548 Apr 26 23:55 4548 May 03 12:00 4548 May 12 13:53 4548 May 21 09:40 4548 May 23 10:22	28°Y52'46 0°8 15°844'18 17°846'29 0°П 12°П40'52 16°П59'19 16°П46'36	1°27'28 19°06'43
evening max el retrograde evening set desc. node inferior conj	4547 May 12 22:55 4547 May 29 23:12 4547 May 30 19:14 4547 Jun 10 06:50 4547 Jun 12 05:26 4547 Jun 16 19:42 4547 Jun 21 06:33 4547 Jun 21 02:50 4547 Jun 23 01:23	1°II46'57 0°9 0°950'53 5°958'09 5°948'21 4°916'47 1°9548'55 1°954'29 0°944'59	-1°19'30	evening rise asc. node  evening max el retrograde evening set inferior conj	4548 Apr 17 09:29 4548 Apr 17 23:26 4548 Apr 25 23:09 4548 Apr 26 23:55 4548 May 03 12:00 4548 May 12 13:53 4548 May 21 09:40 4548 May 23 10:22 4548 May 31 17:36	28°Y52'46 0°8 15°844'18 17°846'29 0°П 12°П40'52 16°П59'19 16°П46'36 12°П34'25	1°27'28 19°06'43 0°34'20
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evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj	4547 May 12 22:55 4547 May 29 23:12 4547 May 30 19:14 4547 Jun 10 06:50 4547 Jun 12 05:26 4547 Jun 16 19:42 4547 Jun 21 06:33 4547 Jun 21 02:50 4547 Jun 23 01:23 4547 Jun 24 08:30 4547 Jun 29 22:39 4547 Jul 04 01:31 4547 Jul 13 06:14 4547 Jul 17 17:42 4547 Aug 05 01:51 4547 Aug 07 02:06 4547 Aug 11 04:33 4547 Aug 18 03:59	1°II46'57 0°S 0°S50'53 5°S58'09 5°S48'21 4°S16'47 1°S48'55 1°S54'29 0°S44'59 30°RII 27°II30'30 26°II53'35 0°S 3°S36'03 0°A 3°A54'12 12°A19'41	-1°19'30 1°18'07 0.55165 AU 23°59'02	evening rise asc. node  evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el  asc. node	4548 Apr 17 09:29 4548 Apr 17 23:26 4548 Apr 25 23:09 4548 Apr 26 23:55 4548 May 03 12:00 4548 May 12 13:53 4548 May 21 09:40 4548 May 31 17:36 4548 May 31 18:59 4548 Jun 02 16:43 4548 Jun 03 16:40 4548 Jun 09 00:23 4548 Jun 14 01:54 4548 Jun 28 07:54 4548 Jul 10 23:30 4548 Jul 23 23:09	28°Y52'46 0°8 15°8'44'18 17°8'46'29 0°11 12°1140'52 16°1159'19 16°1146'36 12°113'25 12°113'35 10°113'35 10°113'30 7°1140'33 6°1140'33 13°1159'44 0°90 23°937'48	1°27'28 19°06'43 0°34'20 0°33'50 0.56407 AU
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	4547 May 12 22:55 4547 May 29 23:12 4547 May 30 19:14 4547 Jun 10 06:50 4547 Jun 12 05:26 4547 Jun 16 19:42 4547 Jun 21 06:33 4547 Jun 21 02:50 4547 Jun 23 01:23 4547 Jun 24 08:30 4547 Jun 29 22:39 4547 Jul 04 01:31 4547 Jul 13 06:14 4547 Jul 17 17:42 4547 Aug 05 01:51 4547 Aug 07 02:06 4547 Aug 11 04:33 4547 Aug 18 03:59 4547 Aug 18 03:59 4547 Aug 18 02:04	1°II46'57 0°S 0°S50'53 5°S58'09 5°S48'21 4°S16'47 1°S48'55 1°S54'29 0°S44'59 30°RII 27°II30'30 26°II53'35 0°S 3°S36'03 0°A 3°A54'12 12°A19'41 27°A23'34 27°A13'11	-1°19'30 1°18'07 0.55165 AU 23°59'02	evening rise asc. node  evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set	4548 Apr 17 09:29 4548 Apr 17 23:26 4548 Apr 25 23:09 4548 Apr 26 23:55 4548 May 03 12:00 4548 May 12 13:53 4548 May 21 09:40 4548 May 23 10:22 4548 May 31 17:36 4548 May 31 18:59 4548 Jun 02 16:43 4548 Jun 03 16:40 4548 Jun 09 00:23 4548 Jun 14 01:54 4548 Jun 28 07:54 4548 Jul 23 23:09 4548 Jul 25 16:04 4548 Jul 26 23:34	28°Y52'46 0°8 15°844'18 17°846'29 0°II 12°II40'52 16°II59'19 16°II46'36 12°II32'03 11°II3'35 10°II33'30 7°II40'33 6°II40'33 13°II59'44 0°S 23°S37'48 27°S11'56 0°Ω	1°27'28 19°06'43 0°34'20 0°33'50 0.56407 AU 25°37'49
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj	4547 May 12 22:55 4547 May 29 23:12 4547 May 30 19:14 4547 Jun 10 06:50 4547 Jun 12 05:26 4547 Jun 16 19:42 4547 Jun 21 06:33 4547 Jun 21 02:50 4547 Jun 23 01:23 4547 Jun 24 08:30 4547 Jun 29 22:39 4547 Jul 04 01:31 4547 Jul 13 06:14 4547 Jul 17 17:42 4547 Aug 05 01:51 4547 Aug 07 02:06 4547 Aug 18 03:59 4547 Aug 18 03:59 4547 Aug 19 08:58	1°II46'57 0°S 0°S50'53 5°S58'09 5°S48'21 4°S16'47 1°S48'55 1°S54'29 0°S44'59 30°RII 27°II30'30 26°II53'35 0°S 3°S36'03 0°A 3°A54'12 12°A19'41 27°A23'34 27°A13'11 0°ID	-1°19'30 1°18'07 0.55165 AU 23°59'02 1°33'06 1°32'55	evening rise asc. node  evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set	4548 Apr 17 09:29 4548 Apr 17 23:26 4548 Apr 25 23:09 4548 Apr 26 23:55 4548 May 03 12:00 4548 May 12 13:53 4548 May 21 09:40 4548 May 31 17:36 4548 May 31 18:59 4548 Jun 02 16:43 4548 Jun 03 16:40 4548 Jun 09 00:23 4548 Jun 14 01:54 4548 Jun 28 07:54 4548 Jul 10 23:30 4548 Jul 23 23:09 4548 Jul 25 16:04 4548 Jul 26 23:34 4548 Aug 01 14:36	28°Y52'46 0°8 15°8'44'18 17°8'46'29 0°11 12°1140'52 16°1159'19 16°1146'36 12°134'25 12°132'03 11°113'35 10°133'30 7°140'33 6°1140'33 13°159'44 0°9 23°937'48 27°911'56	1°27'28 19°06'43 0°34'20 0°33'50 0.56407 AU 25°37'49
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.  morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	4547 May 12 22:55 4547 May 29 23:12 4547 May 30 19:14 4547 Jun 10 06:50 4547 Jun 12 05:26 4547 Jun 16 19:42 4547 Jun 21 06:33 4547 Jun 21 02:50 4547 Jun 23 01:23 4547 Jun 24 08:30 4547 Jun 29 22:39 4547 Jul 04 01:31 4547 Jul 13 06:14 4547 Jul 17 17:42 4547 Aug 05 01:51 4547 Aug 07 02:06 4547 Aug 18 03:59 4547 Aug 18 03:59 4547 Aug 18 02:04 4547 Aug 19 08:58 4547 Aug 20 07:12	1°II46'57 0°S 0°S50'53 5°S58'09 5°S48'21 4°S16'47 1°S48'55 1°S54'29 0°S44'59 30°RII 27°II30'30 26°II53'35 0°S 3°S36'03 0°A 3°A54'12 12°A19'41 27°A23'34 27°A23'34 27°A13'11 0°M 1°M59'14	-1°19'30 1°18'07 0.55165 AU 23°59'02	evening rise asc. node  evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set	4548 Apr 17 09:29 4548 Apr 17 23:26 4548 Apr 25 23:09 4548 Apr 26 23:55 4548 May 03 12:00 4548 May 12 13:53 4548 May 21 09:40 4548 May 23 10:22 4548 May 31 17:36 4548 May 31 18:59 4548 Jun 02 16:43 4548 Jun 03 16:40 4548 Jun 09 00:23 4548 Jun 04 01:54 4548 Jun 05 07:54 4548 Jun 07:54	28°Y52'46 0°8 15°844'18 17°846'29 0°1 12°140'52 16°159'19 16°146'36 12°134'25 12°132'03 11°113'35 10°133'30 7°140'33 6°140'33 13°159'44 0°9 23°937'48 27°911'56 0°\$\Omega\$ 12°\Omega\$17'46 12°\Omega\$05'07	1°27'28 19°06'43 0°34'20 0°33'50 0.56407 AU 25°37'49 1°19'31 1°19'11
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	4547 May 12 22:55 4547 May 29 23:12 4547 May 30 19:14 4547 Jun 10 06:50 4547 Jun 12 05:26 4547 Jun 16 19:42 4547 Jun 21 06:33 4547 Jun 21 02:50 4547 Jun 23 01:23 4547 Jun 24 08:30 4547 Jun 29 22:39 4547 Jul 04 01:31 4547 Jul 13 06:14 4547 Jul 17 17:42 4547 Aug 05 01:51 4547 Aug 07 02:06 4547 Aug 11 04:33 4547 Aug 18 03:59 4547 Aug 18 02:04 4547 Aug 19 08:58 4547 Aug 20 07:12 4547 Aug 25 14:09	1°II46'57 0°S 0°S50'53 5°S58'09 5°S48'21 4°S16'47 1°S48'55 1°S54'29 0°S44'59 30°RII 27°II30'30 26°II53'35 0°S 3°S36'03 0°A 3°A54'12 12°A19'41 27°A23'34 27°A13'11 0°ID	-1°19'30 1°18'07 0.55165 AU 23°59'02 1°33'06 1°32'55	evening rise asc. node  evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set	4548 Apr 17 09:29 4548 Apr 17 23:26 4548 Apr 25 23:09 4548 Apr 26 23:55 4548 May 03 12:00 4548 May 12 13:53 4548 May 21 09:40 4548 May 31 17:36 4548 May 31 17:36 4548 May 31 18:59 4548 Jun 02 16:43 4548 Jun 03 16:40 4548 Jun 09 00:23 4548 Jun 04 01:54 4548 Jun 05 00:23	28°Y52'46 0°8 15°8'44'18 17°8'46'29 0° II 12° II 40'52 16° II 59'19 16° II 46'36 12° II 34'25 12° II 32'03 11° II 13'35 10° II 33'30 7° II 40'33 6° II 40'33 13° II 59'44 0° 99 23° 937'48 27° 931'56 0° \$\Omega\$ 12° \$\Omega\$ 17'46 12° \$\Omega\$ 05'07 14° \$\Omega\$ 28'49	1°27'28 19°06'43 0°34'20 0°33'50 0.56407 AU 25°37'49
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.  morning rise direct  morning max el asc. node morning set  superior conj minimum elong  max. Earth dist. evening rise	4547 May 12 22:55 4547 May 29 23:12 4547 May 30 19:14 4547 Jun 10 06:50 4547 Jun 12 05:26 4547 Jun 16 19:42 4547 Jun 21 06:33 4547 Jun 21 02:50 4547 Jun 23 01:23 4547 Jun 24 08:30 4547 Jun 29 22:39 4547 Jul 04 01:31 4547 Jul 13 06:14 4547 Jul 17 17:42 4547 Aug 05 01:51 4547 Aug 07 02:06 4547 Aug 11 04:33 4547 Aug 18 03:59 4547 Aug 18 02:04 4547 Aug 19 08:58 4547 Aug 20 07:12 4547 Aug 25 14:09 4547 Sep 03 14:19	1° II 46'57 0° 50'53 5° 558'09 5° 558'09 5° 548'21 4° 516'47 1° 548'55 1° 554'29 0° 544'59 30° RII 27° II 30'30 26° II 53'35 0° 53'35 0° 63 3° 636'03 0° R 3° R54'12 12° R19'41 27° R23'34 27° R13'11 0° ID 1° ID 59'14 13° ID 00'01 0° £	-1°19'30 1°18'07 0.55165 AU 23°59'02 1°33'06 1°32'55	evening rise asc. node  evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set	4548 Apr 17 09:29 4548 Apr 17 23:26 4548 Apr 25 23:09 4548 Apr 26 23:55 4548 May 03 12:00 4548 May 12 13:53 4548 May 21 09:40 4548 May 21 10:22 4548 May 31 17:36 4548 May 31 18:59 4548 Jun 02 16:43 4548 Jun 02 16:43 4548 Jun 09 00:23 4548 Jun 14 01:54 4548 Jun 10 23:30 4548 Jul 23 23:09 4548 Jul 23 23:09 4548 Jul 26 23:34 4548 Aug 01 14:36 4548 Aug 01 12:18 4548 Aug 02 14:29 4548 Aug 08 15:42	28°Y52'46 0°8 15°8'44'18 17°8'46'29 0° II 12° II 40'52 16° II 59'19 16° II 46'36 12° II 34'25 12° II 33'30 7° II 40'33 6° II 40'33 13° II 59'44 0° 23° 337'48 27° 31'56 0° \lambda 12° \lambda 17'46 12° \lambda 05'07 14° \lambda 28'49 27° \lambda 26'12	1°27'28 19°06'43 0°34'20 0°33'50 0.56407 AU 25°37'49 1°19'31 1°19'11
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.  morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	4547 May 12 22:55 4547 May 29 23:12 4547 May 30 19:14 4547 Jun 10 06:50 4547 Jun 12 05:26 4547 Jun 16 19:42 4547 Jun 21 06:33 4547 Jun 21 02:50 4547 Jun 23 01:23 4547 Jun 24 08:30 4547 Jun 29 22:39 4547 Jul 04 01:31 4547 Jul 13 06:14 4547 Jul 17 17:42 4547 Aug 05 01:51 4547 Aug 07 02:06 4547 Aug 11 04:33 4547 Aug 18 03:59 4547 Aug 18 02:04 4547 Aug 19 08:58 4547 Aug 20 07:12 4547 Aug 25 14:09 4547 Sep 03 14:19 4547 Sep 12 18:59	1° II 46'57 0° 50 0° 550'53 5° 558'09 5° 548'21 4° 516'47 1° 548'55 1° 554'29 0° 544'59 30° RII 27° II 30'30 26° II 53'35 0° 53 3° 536'03 0° R 3° R54'12 12° R19'41 27° R23'34 27° R13'11 0° ID 1° ID 1° ID 1° ID 1° ID 1° 14' 15' 15'25'14 13° ID 10° 11' 11' 11' 11' 11' 11' 11' 11' 11' 11	-1°19'30 1°18'07 0.55165 AU 23°59'02 1°33'06 1°32'55	evening rise asc. node  evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set	4548 Apr 17 09:29 4548 Apr 17 23:26 4548 Apr 25 23:09 4548 Apr 26 23:55 4548 May 03 12:00 4548 May 12 13:53 4548 May 21 09:40 4548 May 21 10:22 4548 May 31 17:36 4548 May 31 18:59 4548 Jun 02 16:43 4548 Jun 03 16:40 4548 Jun 09 00:23 4548 Jun 14 01:54 4548 Jun 10 23:30 4548 Jul 23 23:09 4548 Jul 25 16:04 4548 Jul 26 23:34  4548 Aug 01 14:36 4548 Aug 01 12:18 4548 Aug 02 14:29 4548 Aug 08 15:42 4548 Aug 09 21:38	28°Y52'46 0°8 15°8'44'18 17°8'46'29 0° II 12° II 40'52 16° II 59'19 16° II 46'36 12° II 34'25 12° II 33'30 7° II 40'33 6° II 40'33 13° II 59'44 0°5 23° 537'48 27° 511'56 0° \( \alpha \) 12° \( \alpha \) 17'46 12° \( \alpha \) 05'07 14° \( \alpha \) 28'49 27° \( \alpha \) 26'12 0° \( \infty \)	1°27'28 19°06'43 0°34'20 0°33'50 0.56407 AU 25°37'49 1°19'31 1°19'11
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.  morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	4547 May 12 22:55 4547 May 29 23:12 4547 May 30 19:14 4547 Jun 10 06:50 4547 Jun 12 05:26 4547 Jun 16 19:42 4547 Jun 21 06:33 4547 Jun 21 02:50 4547 Jun 23 01:23 4547 Jun 24 08:30 4547 Jun 29 22:39 4547 Jul 04 01:31 4547 Jul 13 06:14 4547 Jul 17 17:42 4547 Aug 05 01:51 4547 Aug 07 02:06 4547 Aug 11 04:33 4547 Aug 18 03:59 4547 Aug 18 02:04 4547 Aug 19 08:58 4547 Aug 20 07:12 4547 Aug 25 14:09 4547 Sep 03 14:19 4547 Sep 12 18:59 4547 Sep 24 07:29	1° II 46'57 0° 50 0° 550'53 5° 558'09 5° 548'21 4° 516'47 1° 548'55 1° 554'29 0° 544'59 30° RII 27° II 30'30 26° II 53'35 0° 53 3° 536'03 0° A 3° A54'12 12° A 19'41 27° A 23'34 27° A 13'11 0° ID 1° ID 59'14 13° ID 00'01 0° 51 14° 554'25 0° III.	-1°19'30 1°18'07 0.55165 AU 23°59'02 1°33'06 1°32'55 1.33151 AU	evening rise asc. node  evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el  asc. node morning set	4548 Apr 17 09:29 4548 Apr 17 23:26 4548 Apr 25 23:09 4548 Apr 26 23:55 4548 May 03 12:00 4548 May 12 13:53 4548 May 21 09:40 4548 May 23 10:22 4548 May 31 17:36 4548 May 31 18:59 4548 Jun 02 16:43 4548 Jun 03 16:40 4548 Jun 09 00:23 4548 Jun 14 01:54 4548 Jun 28 07:54 4548 Jul 10 23:30 4548 Jul 23 23:09 4548 Jul 25 16:04 4548 Jul 26 23:34 4548 Aug 01 12:18 4548 Aug 01 12:18 4548 Aug 02 14:29 4548 Aug 09 21:38 4548 Aug 09 21:38 4548 Aug 06 22:05	28°Y52'46 0°♥ 15°♥44'18 17°♥46'29 0°Ⅲ 12°№40'52 16°№59'19 16°№46'36 12°№33'30 7°№40'33 13°№33'30 7°№40'33 23°\$37'48 27°\$11'56 0°\$\Omega\$ 12°\$\Omega\$17'46 12°\$\Omega\$28'49 27°\$\Omega\$26'12 0°\$\Omega\$	1°27'28 19°06'43 0°34'20 0°33'50 0.56407 AU 25°37'49 1°19'31 1°19'11
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.  morning rise direct  morning max el asc. node morning set superior conj minimum elong  max. Earth dist. evening rise desc. node	4547 May 12 22:55 4547 May 29 23:12 4547 May 30 19:14 4547 Jun 10 06:50 4547 Jun 12 05:26 4547 Jun 16 19:42 4547 Jun 21 06:33 4547 Jun 21 02:50 4547 Jun 23 01:23 4547 Jun 24 08:30 4547 Jun 29 22:39 4547 Jul 04 01:31 4547 Jul 13 06:14 4547 Jul 17 17:42 4547 Aug 05 01:51 4547 Aug 07 02:06 4547 Aug 11 04:33 4547 Aug 18 03:59 4547 Aug 18 02:04 4547 Aug 19 08:58 4547 Aug 20 07:12 4547 Aug 25 14:09 4547 Sep 03 14:19 4547 Sep 24 07:29 4547 Sep 28 06:14	1° II 46'57 0° 50 0° 550'53 5° 558'09 5° 548'21 4° 516'47 1° 548'55 1° 554'29 0° 544'59 30° RII 27° II 30'30 26° II 53'35 0° 536'03 0° A 3° A54'12 12° A 19'41 27° A 23'34 27° A 13'11 0° ID 1°	-1°19'30 1°18'07 0.55165 AU 23°59'02 1°33'06 1°32'55 1.33151 AU	evening rise asc. node  evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el  asc. node morning set  superior conj minimum elong max. Earth dist. evening rise	4548 Apr 17 09:29 4548 Apr 17 23:26 4548 Apr 25 23:09 4548 Apr 26 23:55 4548 May 03 12:00 4548 May 12 13:53 4548 May 21 09:40 4548 May 23 10:22 4548 May 31 17:36 4548 May 31 18:59 4548 Jun 02 16:43 4548 Jun 03 16:40 4548 Jun 09 00:23 4548 Jun 14 01:54 4548 Jun 12 23:30 4548 Jul 10 23:30 4548 Jul 23 23:09 4548 Jul 25 16:04 4548 Jul 26 23:34 4548 Aug 01 14:36 4548 Aug 01 14:36 4548 Aug 01 12:18 4548 Aug 02 14:29 4548 Aug 09 21:38 4548 Aug 09 21:38 4548 Aug 29 16:01	28°Y52'46 0°8 15°8'44'18 17°8'46'29 0°11 12°140'52 16°159'19 16°146'36 12°134'25 12°132'03 11°113'35 10°133'30 7°140'33 6°140'33 13°159'44 0°9 23°937'48 27°911'56 0°Ω 12°Ω17'46 12°Ω05'07 14°Ω28'49 27°Ω26'12 0°10 0°2 3°256'18	1°27'28 19°06'43 0°34'20 0°33'50 0.56407 AU 25°37'49 1°19'31 1°19'11 1.32370 AU
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.  morning rise direct  morning max el asc. node morning set  superior conj minimum elong  max. Earth dist. evening rise desc. node evening max el retrograde	4547 May 12 22:55 4547 May 29 23:12 4547 May 30 19:14 4547 Jun 10 06:50 4547 Jun 12 05:26 4547 Jun 16 19:42 4547 Jun 21 06:33 4547 Jun 21 02:50 4547 Jun 23 01:23 4547 Jun 24 08:30 4547 Jun 29 22:39 4547 Jul 04 01:31 4547 Jul 13 06:14 4547 Jul 17 17:42 4547 Aug 05 01:51 4547 Aug 07 02:06 4547 Aug 11 04:33 4547 Aug 18 03:59 4547 Aug 18 03:59 4547 Aug 19 08:58 4547 Aug 20 07:12 4547 Aug 25 14:09 4547 Sep 03 14:19 4547 Sep 12 18:59 4547 Sep 28 06:14 4547 Oct 11 20:52	1° II 46'57 0° 50'53 5° 558'09 5° 558'09 5° 548'21 4° 516'47 1° 54'59 0° 54'59 30° RII 27° II 30'30 26° II 53'35 0° 50 3° 536'03 0° A 3° A 54'12 12° A 19'41 27° A 23'34 27° A 13'11 0° ID 1° ID	-1°19'30 1°18'07 0.55165 AU 23°59'02 1°33'06 1°32'55 1.33151 AU	evening rise asc. node  evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el  asc. node morning set  superior conj minimum elong max. Earth dist. evening rise	4548 Apr 17 09:29 4548 Apr 17 23:26 4548 Apr 25 23:09 4548 Apr 26 23:55 4548 May 03 12:00 4548 May 12 13:53 4548 May 21 09:40 4548 May 23 10:22 4548 May 31 17:36 4548 May 31 18:59 4548 Jun 02 16:43 4548 Jun 03 16:40 4548 Jun 09 00:23 4548 Jun 14 01:54 4548 Jun 10 23:30 4548 Jul 10 23:30 4548 Jul 23 23:09 4548 Jul 25 16:04 4548 Jul 26 23:34  4548 Aug 01 14:36 4548 Aug 01 12:18 4548 Aug 02 14:29 4548 Aug 08 15:42 4548 Aug 09 21:38 4548 Aug 29 16:01 4548 Sep 09 14:26	28°Y52'46 0°8 15°8'44'18 17°8'46'29 0° II 12° II 40'52 16° II 59'19 16° II 46'36 12° II 32'03 11° II 13'35 10° II 33'30 7° II 40'33 6° II 40'33 13° II 59'44 0°9 23° \$37'48 27° \$11'56 0° \$\Omega\$ 12° \$\Omega\$ 17'46 12° \$\Omega\$ 05'07 14° \$\Omega\$ 28'49 27° \$\Omega\$ 26'12 0° \$\Omega\$ 0° \$\Omega\$ 3° \$\Omega\$ 56'18 16° \$\Omega\$ 48'56	1°27'28 19°06'43 0°34'20 0°33'50 0.56407 AU 25°37'49 1°19'31 1°19'11 1.32370 AU
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.  morning rise direct  morning max el asc. node morning set superior conj minimum elong  max. Earth dist. evening rise desc. node	4547 May 12 22:55 4547 May 29 23:12 4547 May 30 19:14 4547 Jun 10 06:50 4547 Jun 12 05:26 4547 Jun 16 19:42 4547 Jun 21 06:33 4547 Jun 21 02:50 4547 Jun 23 01:23 4547 Jun 24 08:30 4547 Jun 29 22:39 4547 Jul 04 01:31 4547 Jul 13 06:14 4547 Jul 17 17:42 4547 Aug 05 01:51 4547 Aug 07 02:06 4547 Aug 11 04:33 4547 Aug 18 03:59 4547 Aug 18 02:04 4547 Aug 19 08:58 4547 Aug 20 07:12 4547 Aug 25 14:09 4547 Sep 03 14:19 4547 Sep 24 07:29 4547 Sep 28 06:14	1° II 46'57 0° 50 0° 550'53 5° 558'09 5° 548'21 4° 516'47 1° 54'59 0° 54'29 0° 54'59 30° RII 27° II 30'30 26° II 53'35 0° 50 3° 536'03 0° A 3° A 54'12 12° A 19'41 27° A 23'34 27° A 13'11 0° ID 1° ID	-1°19'30 1°18'07 0.55165 AU 23°59'02 1°33'06 1°32'55 1.33151 AU	evening rise asc. node  evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el  asc. node morning set  superior conj minimum elong max. Earth dist. evening rise	4548 Apr 17 09:29 4548 Apr 17 23:26 4548 Apr 25 23:09 4548 Apr 26 23:55 4548 May 03 12:00 4548 May 12 13:53 4548 May 21 09:40 4548 May 23 10:22 4548 May 31 17:36 4548 May 31 18:59 4548 Jun 02 16:43 4548 Jun 03 16:40 4548 Jun 09 00:23 4548 Jun 14 01:54 4548 Jun 12 23:30 4548 Jul 10 23:30 4548 Jul 23 23:09 4548 Jul 25 16:04 4548 Jul 26 23:34 4548 Aug 01 14:36 4548 Aug 01 14:36 4548 Aug 01 12:18 4548 Aug 02 14:29 4548 Aug 09 21:38 4548 Aug 09 21:38 4548 Aug 29 16:01	28°Y52'46 0°8 15°8'44'18 17°8'46'29 0°11 12°140'52 16°159'19 16°146'36 12°134'25 12°132'03 11°113'35 10°133'30 7°140'33 6°140'33 13°159'44 0°9 23°937'48 27°911'56 0°Ω 12°Ω17'46 12°Ω05'07 14°Ω28'49 27°Ω26'12 0°10 0°2 3°256'18	1°27'28 19°06'43 0°34'20 0°33'50 0.56407 AU 25°37'49 1°19'31 1°19'11 1.32370 AU

min. Earth dist.	4548 Oct 04 04:52	18° <b>≏</b> 50'14	0.61989 AU	min. Earth dist.	4549 Sep 16 06:41	1° <b>≏</b> 26'58	0.59949 AU
inferior conj	4548 Oct 07 04:40	16° <b>≏</b> 06'14	-3°50'51		4549 Sep 18 02:38	30°R.Mp	
minimum elong	4548 Oct 07 10:42	15° <b>≏</b> 52'24	3°49'07	inferior conj	4549 Sep 19 12:35	28° <b>m</b> 51'23	-4°41'17
morning rise	4548 Oct 14 09:09	11° <b>≏</b> 05'08		minimum elong	4549 Sep 19 18:08	28° <b>m</b> 40'14	4°40'15
direct	4548 Oct 16 17:29	10° <b>≏</b> 41'16		morning rise	4549 Sep 27 04:08	24° Mp 11'56	
asc. node	4548 Oct 19 22:22	11° <b>≏</b> 27'18		direct	4549 Sep 29 12:38	23° <b>m</b> 51'33	
morning max el	4548 Oct 23 15:01	14° <b>≙</b> 10'49	17°52'35	asc. node	4549 Oct 06 19:25	27° Mp 17'22	
	4548 Nov 03 11:00	$0^{\circ}$ M		morning max el	4549 Oct 07 02:30	27° <b>m</b> 34'12	18°12'44
morning set	4548 Nov 08 11:52	9°1100'28			4549 Oct 09 07:52	0∘ <b>⊽</b>	
				morning set	4549 Oct 22 22:34	22° <b>≏</b> 43'53	
superior conj	4548 Nov 19 07:54	28°M11'42	0°43'29		4549 Oct 26 19:00	$0^{\circ}$ M	
minimum elong	4548 Nov 19 11:29	28°M27'03	0°42'59				
	4548 Nov 20 09:14	0°⊀		superior conj	4549 Nov 01 09:20	10°M20'21	1°13'17
desc. node	4548 Nov 25 15:17	8° <b>∡</b> °47′03		minimum elong	4549 Nov 01 13:17	10°M38'12	1°12'49
max. Earth dist.	4548 Nov 26 14:43	10° <b>₹</b> 23'01	1.43041 AU	max. Earth dist.	4549 Nov 09 00:12	23°M41'52	1.41189 AU
evening rise	4548 Dec 03 16:21	21° <b>∡</b> ⁴40′23		desc. node	4549 Nov 12 12:20	29°M33'13	
	4548 Dec 09 01:57	0°る			4549 Nov 12 18:50	0° <b>∡</b>	
	4548 Dec 30 06:10	0° <b>≈</b>		evening rise	4549 Nov 13 22:22	1° <b>₹</b> 52'28	
evening max el	4549 Jan 04 05:44	5°≈40'51	21°46'28		4549 Dec 02 11:49	0°る	2200511.4
retrograde	4549 Jan 13 09:17	11°≈07'05		evening max el	4549 Dec 17 21:53	19°る18'12	23°05'14
asc. node	4549 Jan 15 21:40	10°≈33'06		retrograde	4549 Dec 28 04:06	25°る22'54	
evening set	4549 Jan 17 17:51	9°≈23'08	2012157	evening set	4550 Jan 02 00:46	23°る23'02	
inferior conj	4549 Jan 23 02:04	3°≈05'03	2°13'57	asc. node	4550 Jan 02 18:41	22°₹42'45	1920/50
minimum elong	4549 Jan 22 23:41	3°≈13'20	2°13'13	inferior conj	4550 Jan 07 10:02 4550 Jan 07 08:07	16°る59'05	1°30'59 1°30'16
min. Earth dist.	4549 Jan 23 04:39 4549 Jan 25 08:51	2°≈56'04 30°Rる	0.67979 AU	minimum elong min. Earth dist.	4550 Jan 07 08:07 4550 Jan 07 01:22	17°る05'38 17°る28'55	0.68044 AU
morning rise	4549 Jan 28 05:19	30 KO 26° <b>ろ</b> 53'19		morning rise	4550 Jan 12 15:23	17 <b>32</b> 833	0.08044 AU
direct	4549 Feb 02 04:23	20 <b>3</b> 33 19 24° <b>る</b> 45'31		direct	4550 Jan 17 00:03	9° <b>る</b> 06'22	
direct	4549 Feb 11 11:08	0°≈		morning max el	4550 Jan 25 16:56	9 300 22 14° <b>3</b> 09'58	21°24'58
morning max el	4549 Feb 12 02:32	0°≈38'06	22°49'47	morning max ci	4550 Feb 07 07:11	0°≈	21 24 36
desc. node	4549 Feb 21 14:31	11°≈59'18	22 4) 4/	desc. node	4550 Feb 08 11:33	0 <b>~</b> 1° <b>≈</b> 40'31	
dese. Hode	4549 Mar 06 05:10	0° <b>∀</b>		morning set	4550 Feb 26 04:02	28°≈20'42	
morning set	4549 Mar 18 10:51	19° <b>)</b> 19'51		morning sec	4550 Feb 27 05:04	0° <b>∀</b>	
max. Earth dist.	4549 Mar 23 00:26	27° <b>)</b> (01'05	1.40012 AU	max. Earth dist.	4550 Mar 05 01:24		1.42102 AU
	4549 Mar 24 17:54	$0^{\circ}\Upsilon$					
				superior conj	4550 Mar 12 12:22	22° <b>)</b> €02'35	-2°06'04
superior conj	4549 Mar 30 18:56	10° <b>Ƴ</b> 46′00	-1°51'32	minimum elong	4550 Mar 12 14:49	22° <b>)</b> 13'10	2°05'59
minimum elong	4549 Mar 30 23:39	11° <b>Y</b> 07'33	1°51'08	_	4550 Mar 17 01:18	$0^{\circ}\mathbf{\Upsilon}$	
evening rise	4549 Apr 09 14:05	29° <b>Y</b> 09'50		evening rise	4550 Mar 23 16:01	11° <b>Y</b> 55'41	
	4549 Apr 10 00:38	$9^{\circ}$ 8		asc. node	4550 Mar 31 18:01	26° <b>Y</b> 18'29	
asc. node	4549 Apr 13 20:58	7° <b>8</b> 14'03			4550 Apr 03 00:30	$9^{\circ}$ 8	
evening max el	4549 Apr 25 17:56	25° <b>8</b> 07'04	18°27'51	evening max el	4550 Apr 09 03:56	8° <b>8</b> 00'57	18°08'50
retrograde	4549 May 03 06:55	28° <b>8</b> 50'44		retrograde	4550 Apr 15 22:05	11° <b>8</b> 26'32	
evening set	4549 May 05 14:17	28° <b>8</b> 30'51		evening set	4550 Apr 18 12:11	10° <b>8</b> 56'50	
inferior conj	4549 May 13 01:39	23° <b>8</b> 59'15	2°02'12	inferior conj	4550 Apr 25 06:20	6° <b>8</b> 04'17	
minimum elong	4549 May 13 05:11	23° <b>8</b> 52'11	2°01'10	minimum elong	4550 Apr 25 09:24	5° <b>8</b> 57'09	2°57'50
min. Earth dist.	4549 May 16 11:56	21° <b>8</b> 15'52	0.58295 AU	min. Earth dist.	4550 Apr 28 13:20	3° <b>8</b> 01'45	0.60476 AU
morning rise	4549 May 20 16:55	18° <b>8</b> 32'34		morning rise	4550 May 02 04:22	0° <b>8</b> 14'10	
desc. node	4549 May 20 13:45	18° <b>8</b> 36'38			4550 May 02 13:34	30°RƳ	
direct	4549 May 26 16:32	16° <b>8</b> 59'46	2.605.6122	desc. node	4550 May 07 10:46	28°Υ12'23	
morning max el	4549 Jun 10 01:51	24° <b>8</b> 41'39	26°56'22	direct	4550 May 08 19:09	28° <b>Y</b> 07'12	
	4549 Jun 14 22:36	0° <b>I</b> I			4550 May 15 09:15	0° <b>8</b>	270 1212 1
	4549 Jul 04 03:16	0°9		morning max el	4550 May 23 02:11	6° <b>8</b> 01'27 0° <b>Ⅱ</b>	2/42/31
morning set asc. node	4549 Jul 10 01:46 4549 Jul 10 20:13	11°956'34 13°934'04		marning sat	4550 Jun 10 01:21 4550 Jun 24 07:54	26° <b>∏</b> 28'10	
asc. node	4349 Jul 10 20.13	13 393404		morning set	4550 Jun 26 00:23	20 <b>п</b> 28 10	
superior conj	4549 Jul 17 02:24	27°©12'25	1°01'25	asc. node	4550 Jun 27 17:16	3° <b>©</b> 38'07	
minimum elong	4549 Jul 17 00:12	27°\$1223	1°01'23	max. Earth dist.	4550 Jun 30 12:33	9° <b>©</b> 43'54	1.32051 AU
max. Earth dist.	4549 Jul 17 00:12 4549 Jul 17 01:30	27°500°12 27°507'24	1.32005 AU	max. Larui uist.	1550 Jun 50 12.55	) <del>(1</del> ) )4	1.52051 AU
man. Durin dist.	4549 Jul 18 08:46	0°Ω	1.52005 AU	superior conj	4550 Jul 01 13:39	12° <b>©</b> 01'43	0°39'22
evening rise	4549 Jul 23 22:47	12° <b>Ω</b> 06'35		minimum elong	4550 Jul 01 11:59	11°952'37	0°39'01
	4549 Aug 02 01:24	0° m		evening rise	4550 Jul 08 09:11	26°953'58	
desc. node	4549 Aug 16 13:03	22° Mp 04'34			4550 Jul 09 20:28	0°Ω	
evening max el	4549 Aug 22 16:51	28° Mp 49'16	26°37'27		4550 Jul 26 23:08	0° <b>m</b> )	
	4549 Aug 23 23:51	0∘ <b>ರ</b>	/ = /	desc. node	4550 Aug 03 10:04	8° <b>m</b> ) 57'34	
retrograde	4549 Sep 05 15:29	5° <b>£</b> 58'53		evening max el	4550 Aug 04 11:43	10° mp 00'41	25°25'52
evening set	4549 Sep 12 10:11	4° <b>Ω</b> 02'53		retrograde	4550 Aug 18 10:36	17° m) 05'27	
_	1			_	2	• •	

	1550 1 01 05 01	150% 15115			4551 7 1 20 10 00	250 025120	
evening set	4550 Aug 24 07:21	15° <b>m</b> 45'45		retrograde	4551 Jul 30 18:09	27° <b>Ω</b> 27'30	
min. Earth dist.	4550 Aug 28 23:32	13°Mp06'10	0.57911 AU	evening set	4551 Aug 04 04:53	26° <b>Ω</b> 43'52	
inferior conj	4550 Sep 01 01:59	10° Mp 57′21	-5°11'17	min. Earth dist.	4551 Aug 10 11:06	23° <b>Ω</b> 42'47	0.56164 AU
minimum elong	4550 Sep 01 04:08	10° <b>m</b> 53′37	5°11'10	inferior conj	4551 Aug 12 19:07	22° <b>Ω</b> 17'31	-5°05'23
morning rise	4550 Sep 09 03:10	6° Mp 40′59		minimum elong	4551 Aug 12 15:11	22° <b>Ω</b> 23'33	5°05'01
direct	4550 Sep 11 15:21	6° Mp 21′47		morning rise	4551 Aug 21 04:02	18° <b>Ω</b> 20'40	
morning max el	4550 Sep 20 06:21	10° m) 27'18	18°53'43	direct	4551 Aug 23 22:30	18° <b>Ω</b> 01'05	
asc. node	4550 Sep 23 16:29	14° <b>m</b> ) 17'53	10 00 10	morning max el	4551 Sep 02 23:43	22° <b>Ω</b> 41'27	19°56'33
asc. node	4550 Oct 03 05:33	0° <b>ت</b>		morning max ci	4551 Sep 09 02:00	0° Mp	17 30 33
				,			
morning set	4550 Oct 06 19:33	6° <b>£</b> 56′27		asc. node	4551 Sep 10 13:32	2° Mp 14'01	
				morning set	4551 Sep 20 23:34	21° <b>m</b> 29'17	
superior conj	4550 Oct 15 06:26	23° <b>≏</b> 26'31	1°32'23		4551 Sep 25 03:44	0∘ <b>ত</b>	
minimum elong	4550 Oct 15 09:12	23° <b>≏</b> 39'43	1°32'10				
	4550 Oct 18 18:17	$0^{\circ}$ M.		superior conj	4551 Sep 28 18:02	7° <b>≙</b> 15'54	1°42'01
max. Earth dist.	4550 Oct 22 05:48	6° <b>™</b> 18'52	1.39108 AU	minimum elong	4551 Sep 28 19:10	7° <b>£</b> 21'36	1°41'59
evening rise	4550 Oct 26 03:09	13°M06'27		max. Earth dist.	4551 Oct 04 11:07	18° <b>£</b> 22'07	1.37049 AU
desc. node	4550 Oct 30 09:20	20° <b>™</b> 14'20		evening rise	4551 Oct 08 06:03	25° <b>ഫ</b> 21'38	
acco. noac	4550 Nov 05 12:41	0°×7		evening rise	4551 Oct 10 20:43	0°M	
		% % %		daga mada	4551 Oct 17 06:21	10°ML46'35	
	4550 Nov 27 15:11		0.400.414.1	desc. node			
evening max el	4550 Nov 30 11:12	2° <b>る</b> 58'37	24°24'41		4551 Oct 30 02:19	0° <b>⊼</b>	
retrograde	4550 Dec 11 19:14	9° <b>ප</b> 36'29		evening max el	4551 Nov 12 23:34	16° <b>≯</b> 41'28	25°37'48
evening set	4550 Dec 17 05:14	7° <b>る</b> 20'56		retrograde	4551 Nov 25 05:55	23° <b>҂</b> ¹43'22	
asc. node	4550 Dec 20 15:43	3° <b>る</b> 37'24		evening set	4551 Dec 01 05:37	21° <b>⋌</b> 14'14	
min. Earth dist.	4550 Dec 21 21:19	2° <b>る</b> 00'37	0.67749 AU	min. Earth dist.	4551 Dec 05 14:14	16° <b>∡</b> ¹28'35	0.67103 AU
inferior conj	4550 Dec 22 16:51	0° <b>る</b> 55'10	0°41'27	inferior conj	4551 Dec 06 20:48	14° <b>√</b> 51'05	-0°13'37
minimum elong	4550 Dec 22 15:52	0° <b>る</b> 58'27	0°41'03	minimum elong	4551 Dec 06 21:09	14° <b>√</b> 49'58	0°13'28
8	4550 Dec 23 09:24	30°R. <b>✓</b>		transit middle	4551 Dec 06 21:09	14° <b>×</b> <sup>7</sup> 49'58	0°13'28
morning rise	4550 Dec 28 02:36	24° <b>₹</b> 753'15		transit begin	4551 Dec 06 19:35	14° 🖈 754'55	0 13 20
•				•			
direct	4550 Dec 31 21:54	23° <b>₹</b> 30'32		transit end	4551 Dec 06 22:42	14° <b>₹</b> 45'01	
morning max el	4551 Jan 08 14:51	27° <b>∡</b> *53′27	20°10'48	asc. node	4551 Dec 07 12:44	14° <b>≯</b> 00'30	
	4551 Jan 10 14:10	0°ಕ		morning rise	4551 Dec 12 13:03	8° <b>₰</b> 57'13	
desc. node	4551 Jan 26 08:34	21° <b>る</b> 45'18		direct	4551 Dec 15 20:36	7° <b>∡</b> 754'01	
	4551 Jan 31 19:26	0° <b>≈</b>		morning max el	4551 Dec 22 20:39	11° <b>×7</b> 47'41	19°10'46
morning set	4551 Feb 05 01:42	6° <b>≈</b> 32'30			4552 Jan 05 08:32	0°₹	
max. Earth dist.	4551 Feb 15 10:13	22°≈48'43	1.43800 AU	greatest brilliancy	4552 Jan 05 17:15	0° <b>ჳ</b> 33'05	-0.7m
	4551 Feb 19 20:54	0° <b>)</b> €		desc. node	4552 Jan 13 05:35	12° <b>る</b> 07'18	
		• /(		morning set	4552 Jan 15 03:30	15° <b>ප</b> 05'31	
superior conj	4551 Feb 21 04:44	2° <b>)</b> 10′26	2006/15	morning set	4552 Jan 24 17:05	0°≈	
				E d E d			1 44002 411
minimum elong	4551 Feb 21 01:50	1° <b>¥</b> 58′29	2 06 10	max. Earth dist.	4552 Jan 29 01:04	0°≈48′00	1.44903 AU
evening rise	4551 Mar 06 00:31	23° <b>)</b> 52'24					
	4551 Mar 09 13:26	$0^{\circ}\mathbf{\Upsilon}$		superior conj	4552 Jan 31 20:36	11° <b>≈</b> 14'51	-1°47'25
asc. node	4551 Mar 18 15:02	14° <b>Ƴ</b> 52'00		minimum elong	4552 Jan 31 12:07	10° <b>≈</b> 41′18	1°46'45
evening max el	4551 Mar 23 16:30	21° <b>Ƴ</b> 13′21	18°09'12		4552 Feb 12 12:07	0° <b>ℋ</b>	
retrograde	4551 Mar 30 03:00	24° <b>Y</b> 36'12		evening rise	4552 Feb 15 11:29	4° <b>升</b> 52'59	
evening set	4551 Apr 01 23:07	23° <b>Y</b> 55'18			4552 Mar 02 08:09	$0^{\circ}\mathbf{\Upsilon}$	
inferior conj	4551 Apr 08 04:05	18° <b>Ƴ</b> 42'46	3°27'16	asc. node	4552 Mar 04 12:02	2° <b>Ƴ</b> 45'05	
minimum elong	4551 Apr 08 05:34	18° <b>Ƴ</b> 38'51	3°27'08	evening max el	4552 Mar 06 04:48	4° <b>Υ</b> 37'12	18°28'18
min. Earth dist.	4551 Apr 10 23:20	15° <b>Υ</b> 45'25	0.62619 AU	retrograde	4552 Mar 12 16:59	8°Υ10'23	
morning rise	4551 Apr 14 10:41	13° <b>Υ</b> 38'42	3.02017 110	evening set	4552 Mar 15 19:10	7° <b>Υ</b> 17'20	
	-	12 γ 38 42 10° <b>Υ</b> '04'42		inferior conj		1° <b>Υ</b> 46'37	2024155
direct	4551 Apr 21 07:26			•	4552 Mar 21 14:45		
desc. node	4551 Apr 24 07:47	10° <b>Y</b> 31'33		minimum elong	4552 Mar 21 14:35	1° <b>Y</b> 47'07	3°34'54
morning max el	4551 May 05 08:22	18° <b>Y</b> ′04'05	27°51'03		4552 Mar 23 02:54	30° <b>₹</b>	
	4551 May 15 08:16	$8^{\circ}$ 0		min. Earth dist.	4552 Mar 23 18:55	29° <b>升</b> 13'35	0.64505 AU
	4551 Jun 02 20:51	$\Pi$ $^{\circ}0$		morning rise	4552 Mar 27 09:18	25° <b>ℋ</b> 35′28	
morning set	4551 Jun 08 08:24	10° <b>Ⅱ</b> 40′27		direct	4552 Apr 03 03:51	22° <b>)</b> (46'59	
max. Earth dist.	4551 Jun 13 19:42	22° <b>Ⅱ</b> 05'35	1.32516 AU	desc. node	4552 Apr 10 04:48	25° <b>ℋ</b> 13'18	
asc. node					4552 Apr 16 00:45	$0^{\circ}\Upsilon$	
	4551 Jun 14 14:19	23° <b>Ⅱ</b> 45'40					
	4551 Jun 14 14:19	23°∏45'40		morning max el	•	0° <b>Ƴ</b> 42'18	27°23'31
superior coni			0°14'02	morning max el	4552 Apr 16 17:50		27°23'31
superior conj	4551 Jun 15 22:36	26° <b>∏</b> 40'14	0°14'02	C	4552 Apr 16 17:50 4552 May 08 09:30	0° <b>8</b>	27°23'31
minimum elong	4551 Jun 15 22:36 4551 Jun 15 21:56	26°∏40'14 26°∏36'39	0°14'02 0°13'53	morning max el	4552 Apr 16 17:50 4552 May 08 09:30 4552 May 22 00:33	0° <b>ප</b> 24° <b>ප</b> 24'59	27°23'31
minimum elong behind sun begin	4551 Jun 15 22:36 4551 Jun 15 21:56 4551 Jun 15 19:22	26° <b>II</b> 40'14 26° <b>II</b> 36'39 26° <b>II</b> 22'43		morning set	4552 Apr 16 17:50 4552 May 08 09:30 4552 May 22 00:33 4552 May 24 19:52	0°8 24°824'59 0°Ⅱ	
minimum elong	4551 Jun 15 22:36 4551 Jun 15 21:56 4551 Jun 15 19:22 4551 Jun 16 00:30	26°П40'14 26°П36'39 26°П22'43 26°П50'35		C	4552 Apr 16 17:50 4552 May 08 09:30 4552 May 22 00:33	0°8 24°824'59 0°Ⅱ	27°23'31 1.33431 AU
minimum elong behind sun begin	4551 Jun 15 22:36 4551 Jun 15 21:56 4551 Jun 15 19:22	26° <b>II</b> 40'14 26° <b>II</b> 36'39 26° <b>II</b> 22'43		morning set	4552 Apr 16 17:50 4552 May 08 09:30 4552 May 22 00:33 4552 May 24 19:52 4552 May 26 18:52	0° <b>႘</b> 24° <b>႘</b> 24'59 0°Ⅲ 4°Ⅲ00'19	1.33431 AU
minimum elong behind sun begin	4551 Jun 15 22:36 4551 Jun 15 21:56 4551 Jun 15 19:22 4551 Jun 16 00:30	26°П40'14 26°П36'39 26°П22'43 26°П50'35 0°© 11°©42'02		morning set	4552 Apr 16 17:50 4552 May 08 09:30 4552 May 22 00:33 4552 May 24 19:52	0°8 24°824'59 0°Ⅱ	1.33431 AU
minimum elong behind sun begin behind sun end	4551 Jun 15 22:36 4551 Jun 15 21:56 4551 Jun 15 19:22 4551 Jun 16 00:30 4551 Jun 17 11:18	26°П40'14 26°П36'39 26°П22'43 26°П50'35 0°©		morning set max. Earth dist.	4552 Apr 16 17:50 4552 May 08 09:30 4552 May 22 00:33 4552 May 24 19:52 4552 May 26 18:52	0° <b>႘</b> 24° <b>႘</b> 24'59 0°Ⅲ 4°Ⅲ00'19	1.33431 AU -0°13'52
minimum elong behind sun begin behind sun end	4551 Jun 15 22:36 4551 Jun 15 21:56 4551 Jun 15 19:22 4551 Jun 16 00:30 4551 Jun 17 11:18 4551 Jun 22 20:58	26°П40'14 26°П36'39 26°П22'43 26°П50'35 0°© 11°©42'02		morning set max. Earth dist. superior conj	4552 Apr 16 17:50 4552 May 08 09:30 4552 May 22 00:33 4552 May 24 19:52 4552 May 26 18:52 4552 May 30 03:18	0° <b>8</b> 24° <b>8</b> 24'59 0° <b>П</b> 4° <b>П</b> 00'19	1.33431 AU -0°13'52
minimum elong behind sun begin behind sun end evening rise	4551 Jun 15 22:36 4551 Jun 15 21:56 4551 Jun 15 19:22 4551 Jun 16 00:30 4551 Jun 17 11:18 4551 Jun 22 20:58 4551 Jul 02 03:58	26°∏40'14 26°∏36'39 26°∏22'43 26°∏50'35 0°© 11°©42'02 0°Ω	0°13'53	morning set  max. Earth dist.  superior conj minimum elong	4552 Apr 16 17:50 4552 May 08 09:30 4552 May 22 00:33 4552 May 24 19:52 4552 May 26 18:52 4552 May 30 03:18 4552 May 30 04:01	0° <b>8</b> 24° <b>8</b> 24'59 0° <b>П</b> 4° <b>П</b> 00'19 11° <b>П</b> 01'44 11° <b>П</b> 05'30	1.33431 AU -0°13'52

1-	4552 M 21 11-20	120 <b>T</b> 52117		:	4552 M 14 01-20	240 0 50151	0042111
asc. node	4552 May 31 11:20	13° <b>II</b> 52'17		superior conj	4553 May 14 01:30	24° <b>8</b> 59'51	
evening rise	4552 Jun 06 08:14	26° <b>Ⅱ</b> 24'13		minimum elong	4553 May 14 03:50	25° <b>8</b> 11'50	0°42'43
	4552 Jun 08 01:34	0°©		1	4553 May 16 11:30	0° <b>П</b>	
	4552 Jun 26 16:56	0°N	2201 (112	asc. node	4553 May 18 08:23	3° <b>Ⅱ</b> 54'16	
evening max el	4552 Jun 27 15:14	0° <b>Ω</b> 56'08	22°16'42	evening rise	4553 May 21 17:03	10° <b>∏</b> 54'43	
desc. node	4552 Jul 07 04:05	6° <b>£</b> 54'49			4553 May 31 18:21	0.20	
retrograde	4552 Jul 10 13:45	7° <b>Ω</b> 21'38		evening max el	4553 Jun 09 14:49	11° <b>©</b> 42'22	20°48'48
evening set	4552 Jul 13 13:06	7° <b>Ω</b> 02'04		retrograde	4553 Jun 21 02:17	17° <b>©</b> 19'44	
min. Earth dist.	4552 Jul 21 21:28		0.55053 AU	evening set	4553 Jun 23 04:45	17° <b>©</b> 09'10	
inferior conj	4552 Jul 22 19:00	2° <b>Ω</b> 55'14		desc. node	4553 Jun 24 01:05	16° <b>©</b> 59'12	
minimum elong	4552 Jul 22 10:32	3° <b>Ω</b> 07'12	4°07'48	inferior conj	4553 Jul 02 12:11	13° <b>©</b> 12'03	-2°28'19
	4552 Jul 28 13:01	30° <b>₹</b> 5		minimum elong	4553 Jul 02 05:23	13° <b>©</b> 21'44	2°25'58
morning rise	4552 Jul 31 09:49	29° <b>©</b> 05'02		min. Earth dist.	4553 Jul 03 08:54	12° <b>©</b> 42'34	0.54849 AU
direct	4552 Aug 03 12:50	28° <b>5</b> 43'05		morning rise	4553 Jul 11 05:41	9° <b>5</b> 09'09	
	4552 Aug 09 04:56	$0$ $\circ$ $\Omega$		direct	4553 Jul 14 22:09	8° <b>©</b> 39'53	
morning max el	4552 Aug 15 05:04	4° <b>Ω</b> 09'52	21°20'09	morning max el	4553 Jul 28 00:05	14° <b>©</b> 56'38	22°59'09
asc. node	4552 Aug 27 10:34	20° <b>Ω</b> 52'02			4553 Aug 08 16:12	$0^{\circ}\Omega$	
	4552 Sep 01 06:36	0° <b>m</b> p		asc. node	4553 Aug 14 07:37	10° <b>Ω</b> 01'54	
morning set	4552 Sep 04 08:02	6° Mp 14'13		morning set	4553 Aug 19 19:01	21° <b>Ω</b> 05'54	
					4553 Aug 23 23:00	o° my	
superior conj	4552 Sep 11 15:47	21° Mp 34'40	1°43'40				
minimum elong	4552 Sep 11 15:26	21° m 32'49	1°43'40	superior conj	4553 Aug 26 20:27	6° Mp 13′03	1°38'38
Ü	4552 Sep 15 18:54	0∘ <u>⊽</u>		minimum elong	4553 Aug 26 18:58	6° m 05'09	1°38'32
max. Earth dist.	4552 Sep 15 21:33	0° <b>£</b> 13'10	1.35233 AU	max. Earth dist.	4553 Aug 29 16:47	12° <b>m</b> 14'49	1.33794 AU
evening rise	4552 Sep 20 03:07	8° <b>£</b> 27'23		evening rise	4553 Sep 03 14:07	22° m) 12'27	
evening rise	4552 Oct 02 11:20	0°M		evening rise	4553 Sep 07 15:27	0ಂ <b>ರ</b>	
desc. node	4552 Oct 02 11:20 4552 Oct 03 03:23	1°ML03'58		desc. node	4553 Sep 20 00:25	o <b>—</b> 20° <b>Ω</b> 59'42	
dese. node	4552 Oct 25 03:10	0° <b>⊼</b>		desc. Hode	4553 Sep 26 05:38	0°M	
evening max el	4552 Oct 25 12:08	0° <b>∡</b> 721'46	26°37'23	evening max el	4553 Oct 08 00:38	13°M50'35	27°15'55
•	4552 Nov 07 11:30	7°×736'44	20 37 23	•	4553 Oct 21 11:10	21°M08'43	27 13 33
retrograde		4° <b>₹</b> 58'25		retrograde	4553 Oct 28 10:00	18°M28'19	
evening set	4552 Nov 14 00:01		0.66102.411	evening set			0.64752 ATT
min. Earth dist.	4552 Nov 18 01:51	0° <b>⊀</b> 48'08	0.66102 AU	min. Earth dist.	4553 Nov 01 05:50	14°M52'56 12°M25'41	
	4552 Nov 18 18:06	30°RM	1012104	inferior conj	4553 Nov 03 11:48		
inferior conj	4552 Nov 19 19:52	28°M42'55		minimum elong	4553 Nov 03 15:40	12°M15'06	2°13'40
minimum elong	4552 Nov 19 21:53	28°M36'53	1°12'13	morning rise	4553 Nov 09 22:28	6°M55'57	
asc. node	4552 Nov 23 09:46	24°M48'16		asc. node	4553 Nov 10 06:49	6°M47'11	
morning rise	4552 Nov 25 20:31	22°M59'35		direct	4553 Nov 12 13:02	6°M20'25	
direct	4552 Nov 28 18:22	22°M12'12		morning max el	4553 Nov 19 00:34	9° <b>™</b> 46'52	17°59'31
morning max el	4552 Dec 05 08:45	25°M47'38	18°26'43		4553 Dec 02 20:30	0° <b>∡</b>	
	4552 Dec 08 23:29	0° <b>≯</b> ¹		morning set	4553 Dec 06 14:24	6° <b>≯</b> 15'48	
morning set	4552 Dec 25 06:11	24° <b>₹</b> 56'45		desc. node	4553 Dec 16 23:40	23° <b>≯</b> 23′28	
	4552 Dec 28 10:05	0°ප					
desc. node	4552 Dec 30 02:38	2° <b>る</b> 41'27		superior conj	4553 Dec 20 09:41	28° <b>₹</b> 53'24	-0°23'30
				minimum elong	4553 Dec 20 06:49	28° <b>∡</b> ¹41'58	0°23'04
superior conj	4553 Jan 09 23:30	19° <b>る</b> 50'48	-1°10'16		4553 Dec 21 02:21	0° <b>ප</b>	
minimum elong	4553 Jan 09 15:10	19° <b>ට</b> 18'04	1°09'16	max. Earth dist.	4553 Dec 24 14:40	5°る34'26	1.44952 AU
max. Earth dist.	4553 Jan 10 19:25	21° <b>る</b> 08'52	1.45297 AU	evening rise	4554 Jan 05 15:47	24° <b>る</b> 19'55	
	4553 Jan 16 10:58	0° <b>≈</b>			4554 Jan 09 08:18	0° <b>≈</b>	
evening rise	4553 Jan 25 23:10	14° <b>≈</b> 57'23		greatest brilliancy	4554 Jan 19 21:39	15° <b>≈</b> 57'36	-0.6m
	4553 Feb 04 12:21	0° <b>∀</b>			4554 Jan 30 06:49	0° <b>∀</b>	
greatest brilliancy	4553 Feb 04 20:30	0° <b>)</b> 31'43	-0.8m	evening max el	4554 Jan 31 19:42	1° <b>){</b> 40′01	19°57'49
evening max el	4553 Feb 17 14:29	18° <b>)</b> €07'23	19°05'05	asc. node	4554 Feb 06 06:05	5° <b>)</b> (40′10	
asc. node	4553 Feb 19 09:03	19° <b>∺</b> 45'59		retrograde	4554 Feb 08 10:07	6° <b>₩</b> 05'23	
retrograde	4553 Feb 24 12:21	22° <b>)</b> 02'02		evening set	4554 Feb 12 03:06	4° <b>)</b> 45′12	
evening set	4553 Feb 27 21:17	20° <b>¥</b> 55'57		Č	4554 Feb 16 13:59	30°R≈	
inferior conj	4553 Mar 05 10:42	15° <b>∺</b> 08'52	3°26'34	inferior conj	4554 Feb 17 12:54	28° <b>≈</b> 43'53	3°05'54
minimum elong	4553 Mar 05 09:16	15° <b>)</b> 13′26	3°26'25	minimum elong	4554 Feb 17 10:42	28° <b>≈</b> 51'14	
min. Earth dist.	4553 Mar 06 23:26	13° <b>)</b> 12'14	0.66013 AU	min. Earth dist.	4554 Feb 18 11:14	27°≈29'05	0.67105 AU
morning rise	4553 Mar 10 20:53	8° <b>)</b> 54'59	0.00015110	morning rise	4554 Feb 22 18:06	22°≈29'42	0.07100110
direct	4553 Mar 17 07:08	6° <b>∺</b> 05'39		direct	4554 Feb 28 16:01	19°≈51'07	
desc. node	4553 Mar 28 01:49	11° <b>X</b> 43'22		morning max el	4554 Mar 12 12:38	26°≈56'19	25°08'53
morning max el	4553 Mar 30 03:46	13° <b>)</b> (43'22	26°26'26	desc. node	4554 Mar 14 22:52	20 ≈30 19 29°≈31'09	20 00 00
morning max ci	4553 Apr 12 08:31	13 <b>π</b> 43 33	20 20 20	dese. Hode	4554 Mar 15 09:10	29 <b>≈</b> 31 09 0° <b>∺</b>	
	4553 May 01 02:31	0°8			4554 Apr 05 23:42	0°Υ 0°Υ	
morning set	4553 May 05 04:55	7° <b>8</b> 31'37		morning set	4554 Apr 17 16:43	0° γ 19° <b>Υ</b> 45'58	
•			1.34815 AU	max. Earth dist.	•	19° γ 45'58 26° <b>Υ</b> 25'46	1.36636 AU
max. Earth dist.	4553 May 09 06:58	15 02515	1.54613 AU	max. Earui üist.	4554 Apr 21 08:13	0° <b>8</b>	1.50030 AU
					4554 Apr 23 05:47	υ <b>Ο</b>	

superior conj	4554 Apr 27 14:15	8° <b>8</b> 25'49	-1°12'19	minimum elong	4555 Apr 10 18:44	21° <b>Y</b> 33'08	1°38'15
minimum elong	4554 Apr 27 18:10	8° <b>8</b> 45'06		minimum crong	4555 Apr 15 04:44	0°8	1 30 13
asc. node	4554 May 05 05:25	23° <b>8</b> 46'43		evening rise	4555 Apr 19 17:51	8° <b>8</b> 51'18	
evening rise	4554 May 05 21:09	25° <b>8</b> 06'06		asc. node	4555 Apr 22 02:26	13° <b>8</b> 25'09	
C	4554 May 08 08:02	0°II			4555 May 01 17:14	0°II	
evening max el	4554 May 23 02:41	23° <b>II</b> 08'05	19°38'09	evening max el	4555 May 06 01:40		18°47'34
retrograde	4554 Jun 01 20:17	27° <b>Ⅱ</b> 52'46		retrograde	4555 May 14 06:50	9° <b>Ⅱ</b> 15'56	
evening set	4554 Jun 03 18:59	27° <b>Ⅱ</b> 42'13		evening set	4555 May 16 10:16	9° <b>Ⅱ</b> 00'30	
desc. node	4554 Jun 10 22:06	24° <b>Ⅱ</b> 39'12		inferior conj	4555 May 24 08:52	4° <b>∏</b> 40′02	1°15'31
inferior conj	4554 Jun 12 13:13	23° <b>Ⅲ</b> 38'41	-0°29'03	minimum elong	4555 May 24 11:34	4° <b>Ⅱ</b> 35'06	1°14'37
minimum elong	4554 Jun 12 11:54	23° <b>Ⅱ</b> 40'45	0°28'34	min. Earth dist.	4555 May 27 14:34	2° <b>Ⅱ</b> 18'55	0.57157 AU
min. Earth dist.	4554 Jun 14 22:08	22° <b>Ⅱ</b> 09'32	0.55604 AU	desc. node	4555 May 28 19:08	1° <b>Ⅲ</b> 30′40	
morning rise	4554 Jun 21 02:24	19° <b>Ⅱ</b> 06'04			4555 May 31 09:18	30°R₩	
direct	4554 Jun 25 14:49	18° <b>Ⅱ</b> 20'37		morning rise	4555 Jun 01 09:35	29° <b>8</b> 31'25	
morning max el	4554 Jul 09 13:59	25° <b>Ⅱ</b> 19'50	24°42'33	direct	4555 Jun 06 20:54	28° <b>8</b> 18'37	
	4554 Jul 13 22:49	0°€			4555 Jun 13 10:22	$\Pi^{\circ}0$	
asc. node	4554 Aug 01 04:41	29° <b>©</b> 35'12		morning max el	4555 Jun 21 05:17	5° <b>Ⅱ</b> 48'13	26°14'41
	4554 Aug 01 09:35	$0^{\circ}\Omega$			4555 Jul 08 22:58	0°€	
morning set	4554 Aug 04 06:48	5° <b>Ω</b> 59'21		asc. node	4555 Jul 19 01:44	19° <b>5</b> 24'59	
				morning set	4555 Jul 19 17:44	20° <b>5</b> 49'09	
superior conj	4554 Aug 11 05:29	21° <b>Ω</b> 03'15	1°27'55		4555 Jul 23 23:45	$0^{\circ}\Omega$	
minimum elong	4554 Aug 11 03:21	20° <b>Ω</b> 51'35	1°27'40				
max. Earth dist.	4554 Aug 12 20:35	24° <b>Ω</b> 35'49	1.32771 AU	superior conj	4555 Jul 26 16:47	5° <b>Ω</b> 58'10	1°12'20
	4554 Aug 15 09:04	0° <b>m</b> )		minimum elong	4555 Jul 26 14:28	5° <b>Ω</b> 45'23	1°11'58
evening rise	4554 Aug 18 11:14	6° Mp 26′15		max. Earth dist.	4555 Jul 27 06:04	7° <b>Ω</b> 11'22	1.32165 AU
	4554 Aug 31 04:34	0° <b>⊽</b>		evening rise	4555 Aug 02 15:24	20° <b>Ω</b> 59'17	
desc. node	4554 Sep 06 21:26	10° <b>≏</b> 24'48		_	4555 Aug 07 02:10	0° <b>m</b>	
evening max el	4554 Sep 20 11:18	26° <b>≙</b> 55'24	27°26'42	desc. node	4555 Aug 24 18:28	29° Mp 06'11	
	4554 Sep 24 01:29	0° <b>M</b> .			4555 Aug 25 10:49	0∘ <b>⊽</b>	
retrograde	4554 Oct 04 04:18	4° <b>M</b> J11'01		evening max el	4555 Sep 02 17:16	9° <b>₽</b> 21'39	27°05'00
evening set	4554 Oct 11 08:36	1°MJ38'09		retrograde	4555 Sep 16 14:05	16° <b>≏</b> 33'40	
-	4554 Oct 13 10:25	30° <b>ŖΩ</b>		evening set	4555 Sep 23 15:44	14° <b>≏</b> 20'18	
min. Earth dist.	4554 Oct 15 00:07	28° <b>≙</b> 34'13	0.63078 AU	min. Earth dist.	4555 Sep 27 07:36	11° <b>≏</b> 38'43	0.61134 AU
inferior conj	4554 Oct 17 17:55	25° <b>≙</b> 53'08	-3°17'05	inferior conj	4555 Sep 30 10:55	8° <b>£</b> 56'10	-4°13'56
minimum elong	4554 Oct 17 23:25	25° <b>≙</b> 39'40	3°15'15	minimum elong	4555 Sep 30 17:02	8° <b>£</b> 42'55	4°12'26
morning rise	4554 Oct 24 15:45	20° <b>≏</b> 40'31		morning rise	4555 Oct 07 20:14	4° <b>≙</b> 04'11	
direct	4554 Oct 27 01:37	20° <b>₽</b> 13'12		direct	4555 Oct 10 04:20	3° <b>£</b> 42'02	
asc. node	4554 Oct 28 03:53	20° <b>♀</b> 18'57		asc. node	4555 Oct 15 00:56	5° <b>£</b> 21'56	
morning max el	4554 Nov 02 17:15	23° <b>≙</b> 39'04	17°49'54	morning max el	4555 Oct 17 07:37	7° <b>≙</b> 15'39	17°58'48
	4554 Nov 07 18:41	0° <b>M</b> .			4555 Oct 31 22:20	0°M	
morning set	4554 Nov 18 23:11	18° <b>M</b> .46'08		morning set	4555 Nov 02 01:57	2°M07'05	
	4554 Nov 25 10:01	0° <b>∡</b> ¹					
				superior conj	4555 Nov 12 06:35	20°M34'07	0°57'28
superior conj	4554 Nov 30 18:53	9° <b>∡</b> ¹05'11	0°21'27	minimum elong	4555 Nov 12 10:35	20°M51'43	0°56'57
minimum elong	4554 Nov 30 21:00	9° <b>∡</b> 14'03	0°21'08		4555 Nov 17 18:17	0° <b>∡</b> ¹	
desc. node	4554 Dec 03 20:43	14° <b>∡</b> 10′05		max. Earth dist.	4555 Nov 19 20:42	3° <b>∡</b> ³30′23	1.42293 AU
max. Earth dist.	4554 Dec 07 08:06	19° <b>∡</b> ¹48'10	1.43909 AU	desc. node	4555 Nov 20 17:45	4° <b>∡</b> 757'17	
	4554 Dec 13 18:48	0°ರ		evening rise	4555 Nov 25 20:44	13° <b>∡</b> 14′09	
evening rise	4554 Dec 16 01:44	3° <b>ප</b> 33'04			4555 Dec 06 19:00	5°0	
	4555 Jan 02 20:04	0° <b>≈</b>		evening max el	4555 Dec 28 13:56	28° <b>る</b> 48'53	22°19'24
evening max el	4555 Jan 14 19:31	15° <b>≈</b> 14'02	21°03'49		4555 Dec 29 19:04	0° <b>≈</b>	
retrograde	4555 Jan 23 08:10	20° <b>≈</b> 16'52		retrograde	4556 Jan 07 04:40	4° <b>≈</b> 32'04	
asc. node	4555 Jan 24 03:07	20° <b>≈</b> 13′29		asc. node	4556 Jan 11 00:10	3° <b>≈</b> 15'15	
evening set	4555 Jan 27 10:40	18° <b>≈</b> 41'38		evening set	4556 Jan 11 18:16	2° <b>≈</b> 41′08	
inferior conj	4555 Feb 01 18:56	12° <b>≈</b> 28'39	2°35'23		4556 Jan 14 08:36	30°Rる	
minimum elong	4555 Feb 01 16:29	12° <b>≈</b> 37'07	2°34'42	inferior conj	4556 Jan 17 02:43	26° <b>る</b> 19'52	1°56'36
min. Earth dist.	4555 Feb 02 04:17	11° <b>≈</b> 56′25	0.67778 AU	minimum elong	4556 Jan 17 00:29	26° <b>る</b> 27'37	1°55'50
morning rise	4555 Feb 06 22:09	6° <b>≈</b> 15'46		min. Earth dist.	4556 Jan 17 00:21	26° <b>පි</b> 28'06	0.68051 AU
direct	4555 Feb 12 05:42	3° <b>≈</b> 55'40		morning rise	4556 Jan 22 06:35	20° <b>る</b> 09'42	
morning max el	4555 Feb 22 21:23	10° <b>≈</b> 16′13	23°41'05	direct	4556 Jan 26 23:21	18° <b>る</b> 11'50	
desc. node	4555 Mar 01 19:55	18° <b>≈</b> 14'49		morning max el	4556 Feb 05 08:47	23° <b>る</b> 43'07	22°12'48
	4555 Mar 10 12:24	0° <b>∀</b>			4556 Feb 10 21:27	0° <b>≈</b>	
	4555 Mar 29 17:40	$0^{\circ}$ Y		desc. node	4556 Feb 16 16:57	7° <b>≈</b> 38'18	
morning set	4555 Mar 30 06:07	0° <b>Y</b> ′52'52			4556 Mar 02 22:09	0° <b>)</b> €	
max. Earth dist.	4555 Apr 03 03:56	7° <b>Ƴ</b> 39'18	1.38758 AU	morning set	4556 Mar 09 15:45	10° <b>)</b> 39′53	
				max. Earth dist.	4556 Mar 15 01:12	19° <b>)</b> 34′01	1.40930 AU
superior conj	4555 Apr 10 13:53	21° <b>Y</b> 10'18	-1°38'49		4556 Mar 21 02:38	$0^{\circ}\Upsilon$	

superior conj	4556 Mar 22 19:47	3° <b>Y</b> 02'19	1050106	evening rise	4557 Mar 15 22:52	4° <b>Υ</b> 28'02	
		3° <b>Υ</b> 20'45				4 1 28 02 21° <b>Υ</b> 36'57	
minimum elong	4556 Mar 22 23:55		1°58'50	asc. node	4557 Mar 25 20:29		
evening rise	4556 Apr 02 03:49	22° <b>Y</b> 01'59			4557 Mar 31 22:19	0° <b>8</b>	10006142
	4556 Apr 06 11:01	0° <b>8</b>		evening max el	4557 Apr 01 20:08	0° <b>8</b> 56'53	18°06'42
asc. node	4556 Apr 07 23:28	2° <b>8</b> 44'19		retrograde	4557 Apr 08 09:52	4° <b>8</b> 19'35	
evening max el	4556 Apr 18 08:38	17° <b>8</b> 53'40	18°17'17	evening set	4557 Apr 11 02:30	3° <b>8</b> 45'22	
retrograde	4556 Apr 25 12:24	21° <b>8</b> 28'04			4557 Apr 16 07:26	30° <b>₹</b> Υ	
evening set	4556 Apr 27 22:32	21° <b>8</b> 04'24		inferior conj	4557 Apr 17 14:35	28° <b>Ƴ</b> 44'30	3°13'38
inferior conj	4556 May 05 02:07	16° <b>8</b> 23'49	2°29'47	minimum elong	4557 Apr 17 17:02	28° <b>Ƴ</b> 38′27	3°13'14
minimum elong	4556 May 05 05:41	16° <b>8</b> 16'11	2°28'52	min. Earth dist.	4557 Apr 20 17:27	25° <b>Ƴ</b> 41′03	0.61404 AU
min. Earth dist.	4556 May 08 12:22	13° <b>8</b> 29'04	0.59203 AU	morning rise	4557 Apr 24 05:41	22° <b>Ƴ</b> 47'19	
morning rise	4556 May 12 09:58	10° <b>8</b> 45'30		direct	4557 May 01 00:11	20° <b>Y</b> 27′10	
desc. node	4556 May 14 16:09	9° <b>8</b> 42'17		desc. node	4557 May 01 13:10	20° <b>Y</b> 28′02	
direct	4556 May 18 16:53	8° <b>8</b> 57'53		morning max el	4557 May 15 05:11	28° <b>Y</b> 25′23	27°50'42
morning max el	4556 Jun 02 02:10	16° <b>8</b> 46'41	27°20'29		4557 May 16 17:57	0°8	
	4556 Jun 12 23:24	$\Pi^{\circ}0$			4557 Jun 06 18:49	$\Pi^{\circ}0$	
	4556 Jun 30 09:52	$0$ $\circ$ $\odot$		morning set	4557 Jun 17 06:11	19° <b>Ⅲ</b> 54'38	
morning set	4556 Jul 03 02:11	5°530'01		asc. node	4557 Jun 21 19:47	29° <b>Ⅲ</b> 32′01	
asc. node	4556 Jul 04 22:45	9° <b>©</b> 25'46			4557 Jun 22 00:58	0ංම	
max. Earth dist.	4556 Jul 09 17:35	19° <b>©</b> 51'23	1.31971 AU	max. Earth dist.	4557 Jun 23 03:17	2° <b>5</b> 22'34	1.32194 AU
superior conj	4556 Jul 10 04:35	20°952'05	0°52'30	superior conj	4557 Jun 24 15:05	5° <b>©</b> 37'59	0°29'00
minimum elong	4556 Jul 10 02:33	20°540'53	0°52'07	minimum elong	4557 Jun 24 13:48	5° <b>©</b> 30'57	0°28'43
	4556 Jul 14 08:13	$0^{\circ}\Omega$		evening rise	4557 Jul 01 11:21	20°532'38	
evening rise	4556 Jul 17 00:09	5°Ω44'01		* · · · · · · · · · · · · · · · · · · ·	4557 Jul 06 01:22	0°N	
evening rise	4556 Jul 29 18:08	0° mp			4557 Jul 25 11:17	0° <b>m</b>	
desc. node	4556 Aug 10 15:27	16° Mp 46'03		evening max el	4557 Jul 27 08:09	1° Mp 53'27	24°48'20
evening max el	4556 Aug 14 16:16	21° Mp 00'40	26°10'15	desc. node	4557 Jul 28 12:27	2° m 58'52	24 40 20
•	4556 Aug 28 15:33	21 m/0040 28°m/09'19	20 10 13	retrograde	4557 Aug 10 06:15	8° Mp 55'20	
retrograde	•			•	•		
evening set	4556 Sep 04 02:37	26° Mp 27'42	0.50065.411	evening set	4557 Aug 15 13:17	7° Mp 52'01	0.57112.411
min. Earth dist.	4556 Sep 08 05:09	23° Mp 52'40	0.59065 AU	min. Earth dist.	4557 Aug 20 19:34	-	0.57112 AU
inferior conj	4556 Sep 11 11:17	21°m/25'49		inferior conj	4557 Aug 23 16:04	3° m 12'51	
minimum elong	4556 Sep 11 15:49	21° m 17'16	4°56'45	minimum elong	4557 Aug 23 15:49	3°m/13'16	5°14'11
morning rise	4556 Sep 19 07:15	16° Mp 56′38			4557 Aug 29 05:31	30°R <b>Ω</b>	
direct	4556 Sep 21 16:48	16° Mp 37′05		morning rise	4557 Aug 31 20:46	29° <b>Ω</b> 05′26	
morning max el	4556 Sep 29 16:20	20° m, 28'03	18°27'34	direct	4557 Sep 03 11:07	28° <b>Ω</b> 46'22	
asc. node	4556 Sep 30 21:59	21°Mp44'12			4557 Sep 08 09:25	0° mp	
	4556 Oct 06 21:37	0∘ <b>ত</b>		morning max el	4557 Sep 12 16:02	3° <b>m</b> 05'44	19°17'43
morning set	4556 Oct 15 17:28	16° <b>≏</b> 03'59		asc. node	4557 Sep 17 19:01	9° <b>m</b> 10'03	
	4556 Oct 23 00:26	$0^{\circ}$ M,		morning set	4557 Sep 29 17:46	0° <b>£</b> 25'54	
					4557 Sep 29 12:34	0∘ <b>ত</b>	
superior conj	4556 Oct 24 17:04	3°ML09'22	1°22'37				
minimum elong	4556 Oct 24 20:37	3°M25'51	1°22'16	superior conj	4557 Oct 07 20:53	16° <b>≏</b> 35'22	1°37'31
max. Earth dist.	4556 Nov 01 03:42	16°M29'14	1.40312 AU	minimum elong	4557 Oct 07 22:58	16° <b>≏</b> 45'32	1°37'24
evening rise	4556 Nov 05 12:05	23°M51'32		max. Earth dist.	4557 Oct 14 08:09	28° <b>≙</b> 48'11	1.38214 AU
desc. node	4556 Nov 06 14:46	25°M41'45			4557 Oct 14 23:57	0° <b>M</b> ,	
	4556 Nov 09 06:20	0° <b>⊼</b> ¹		evening rise	4557 Oct 18 02:39	5°M32'42	
	4556 Nov 29 16:22	0°రె		desc. node	4557 Oct 24 11:47	16°MJ19'43	
evening max el	4556 Dec 10 04:26	12° <b>る</b> 26'40	23°39'21		4557 Nov 02 06:27	0° <b>∡</b> ¹	
retrograde	4556 Dec 20 22:11	18° <b>る</b> 47'13		evening max el	4557 Nov 22 17:13	26° <b>₰</b> 08'51	24°57'08
evening set	4556 Dec 26 00:19	16° <b>ප්</b> 40'33		<i>5</i>	4557 Nov 27 03:54	0°ಕ	
asc. node	4556 Dec 27 21:12	14° <b>る</b> 49'19		retrograde	4557 Dec 04 11:34	2° <b>る</b> 58'24	
inferior conj	4556 Dec 31 10:24	10°る15'01	1°10'44	evening set	4557 Dec 10 03:15	0° <b>る</b> 37'01	
minimum elong	4556 Dec 31 08:51	10° <b>ට</b> 20'22	1°10'06	evening sec	4557 Dec 10 19:42	30°R. <b>₹</b>	
min. Earth dist.	4556 Dec 30 21:05	10 <b>3</b> 2022	0.67955 AU	min. Earth dist.	4557 Dec 14 16:09	25°× <b>7</b> 31'02	0.67509 AU
morning rise	4557 Jan 05 17:21	11 80031 4° <b>る</b> 09'19	0.01933 AU	asc. node	4557 Dec 14 18:14	25° <b>×</b> <sup>-</sup> 3102	0.01307 AU
•		2°る34'11				23 <b>x</b> 24 11 24° <b>x</b> 11'44	0010142
direct	4557 Jan 09 20:03 4557 Jan 18 02:10	2 33411 7° <b>る</b> 19'45	20°51'49	inferior conj	4557 Dec 15 16:15 4557 Dec 15 15:47	24 × 11 44 24° × 13'16	0°18'31
morning max el			20 3149	minimum elong		24° <b>×</b> ′13′16 18° <b>×</b> ′12′41	0 1031
desc. node	4557 Feb 02 13:59	27° <b>る</b> 30'25		morning rise	4557 Dec 21 04:28		
	4557 Feb 04 06:48	0°≈ 10°≈ •12112		direct	4557 Dec 24 18:34	16° <b>₹</b> 58'33	10042122
morning set	4557 Feb 16 22:30	19°≈13'13		morning max el	4558 Jan 01 03:26	21° <b>₹</b> 07'51	19°43'22
ges - 21 - 21	4557 Feb 23 17:38	0° <b>)</b> (22)20	1 400== : **	,	4558 Jan 08 09:43	0°る	0.7
max. Earth dist.	4557 Feb 25 04:53	2° <b>H</b> 22'38	1.42877 AU	greatest brilliancy	4558 Jan 14 06:08	8° <b>る</b> 23'52	-0.7m
				desc. node	4558 Jan 20 11:00	17° <b>る</b> 43'27	
superior conj	4557 Mar 04 02:56	13° <b>¥</b> 50′16		morning set	4558 Jan 26 18:37	27° <b>る</b> 24'28	
minimum elong	4557 Mar 04 03:26	13° <b>¥</b> 52′24	2°08'14		4558 Jan 28 10:52	0° <b>≈</b>	
	4557 Mar 13 10:35	$0$ ° $\mathbf{\Upsilon}$		max. Earth dist.	4558 Feb 07 16:19	16° <b>≈</b> 01'21	1.44347 AU

superior conj	4558 Feb 12 08:22	23° <b>≈</b> 29'50	200144	superior conj	4559 Jan 22 16:30	2°≈15'31	1022124
minimum elong	4558 Feb 12 02:46			minimum elong	4559 Jan 22 07:10	2 ≈1331 1°≈38'48	1°32'38
minimum ciong	4558 Feb 16 08:18	23 <b>≈</b> 07 13 0° <b>\</b>	2 00 28	evening rise	4559 Feb 06 23:36	26°≈37'12	1 32 36
evening rise	4558 Feb 25 22:38	16° <b>₩</b> 01'27		evening rise	4559 Feb 09 01:46	0° <b>\</b>	
evening rise	4558 Mar 06 05:44	0° <b>Υ</b>		asc. node	4559 Feb 27 14:34	27° <b>₩</b> 27'28	
asc. node	4558 Mar 12 17:31	9° <b>Υ</b> 55'02		evening max el	4559 Feb 27 20:29	27° <b>)</b> (42'43	18°41'53
evening max el	4558 Mar 16 09:01	14° <b>Υ</b> 15'47	18°15'10	evening max er	4559 Mar 02 12:47	0°Υ	10 41 55
retrograde	4558 Mar 22 19:02	17° <b>Y</b> 41'08	10 13 10	retrograde	4559 Mar 06 11:43	1°Υ23'32	
evening set	4558 Mar 25 17:47	16° <b>Υ</b> 55'06		evening set	4559 Mar 09 16:46	0° <b>Υ</b> 24'50	
inferior conj	4558 Mar 31 18:20	11° <b>Y</b> 34'50	3°32'43	evening sec	4559 Mar 10 07:51	30° <b>R</b> ₩	
minimum elong	4558 Mar 31 19:05	11° <b>Y</b> 32'45	3°32'40	inferior conj	4559 Mar 15 09:21	24° <b>)</b> 46'46	3°33'02
min. Earth dist.	4558 Apr 03 07:25	8° <b>Υ</b> 45'54	0.63465 AU	minimum elong	4559 Mar 15 08:35		
morning rise	4558 Apr 06 19:24	5° <b>Y</b> 27'22	0.05 105 110	min. Earth dist.	4559 Mar 17 06:47	22° <b>)</b> 28'32	
direct	4558 Apr 13 16:19	2° <b>Υ</b> 45'23		morning rise	4559 Mar 20 23:55	18° <b>)</b> (34'18	
desc. node	4558 Apr 18 10:12	3°Y52'06		direct	4559 Mar 27 15:33	15° <b>)</b> (44'08	
morning max el	4558 Apr 27 12:53	10° <b>Y</b> 43'53	27°43'22	desc. node	4559 Apr 05 07:13	19° <b>)</b> €23'46	
5 5	4558 May 12 16:26	0°8		morning max el	4559 Apr 09 22:48	23° <b>)</b> € 32'56	27°02'26
	4558 May 30 03:33	0° <b>I</b> I		C	4559 Apr 15 16:55	$0^{\circ}\mathbf{\Upsilon}$	
morning set	4558 Jun 01 03:30	3° <b>Ⅱ</b> 56'12			4559 May 06 00:34	0°8	
max. Earth dist.	4558 Jun 06 07:22	14° <b>Ⅲ</b> 33'31	1.32855 AU	morning set	4559 May 15 15:09	17° <b>8</b> 25'56	
				max. Earth dist.	4559 May 20 02:19	26° <b>8</b> 15'43	1.33967 AU
superior conj	4558 Jun 08 22:30	20° <b>Ⅱ</b> 10′23	0°02'29		4559 May 21 22:12	0°II	
minimum elong	4558 Jun 08 22:23	20° <b>Ⅱ</b> 09'45	0°02'27				
behind sun begin	4558 Jun 08 17:07	19° <b>∏</b> 41'29		superior conj	4559 May 24 00:46	4° <b>Ⅱ</b> 22'56	-0°26'11
behind sun end	4558 Jun 09 03:38	20° <b>Ⅲ</b> 38′03		minimum elong	4559 May 24 02:09	4° <b>Ⅱ</b> 30'10	0°25'54
asc. node	4558 Jun 08 16:48	19° <b>∏</b> 39'45		asc. node	4559 May 26 13:51	9° <b>Ⅱ</b> 45'06	
	4558 Jun 13 11:33	0°9		evening rise	4559 May 31 09:41	19° <b>Ⅱ</b> 57'40	
evening rise	4558 Jun 15 23:10	5° <b>©</b> 19'15		C	4559 Jun 05 08:33	0°9	
-	4558 Jun 29 03:41	$0^{\circ}\Omega$		evening max el	4559 Jun 20 14:32	22°5648'09	21°37'31
evening max el	4558 Jul 08 20:59	12° <b>Ω</b> 18'30	23°12'07	desc. node	4559 Jul 02 06:28	28°953'44	
desc. node	4558 Jul 15 09:28	17° <b>Ω</b> 12′29		retrograde	4559 Jul 02 23:27	28° <b>©</b> 54'55	
retrograde	4558 Jul 22 08:04	19° <b>Ω</b> 02'08		evening set	4559 Jul 05 11:55	28°540'31	
evening set	4558 Jul 26 02:57	18° <b>Ω</b> 30'49		inferior conj	4559 Jul 14 20:31	24°539'28	-3°31'10
min. Earth dist.	4558 Aug 02 06:17	15° <b>Ω</b> 16'19	0.55604 AU	minimum elong	4559 Jul 14 11:56	24°951'26	3°28'40
inferior conj	4558 Aug 04 01:06	14° <b>Ω</b> 13'49	-4°48'14	min. Earth dist.	4559 Jul 14 16:36	24°544'56	0.54852 AU
minimum elong	4558 Aug 03 18:40	14° <b>Ω</b> 23'14	4°47'13	morning rise	4559 Jul 23 13:08	20°946'50	
morning rise	4558 Aug 12 12:42	10° <b>Ω</b> 21'32		direct	4559 Jul 26 21:17	20°522'34	
direct	4558 Aug 15 10:42	10° <b>Ω</b> 01'06		morning max el	4559 Aug 08 04:43	26° <b>©</b> 10'00	22°00'54
morning max el	4558 Aug 26 04:10	15° <b>Ω</b> 00'12	20°29'41		4559 Aug 11 19:54	$0^{\circ}\Omega$	
asc. node	4558 Sep 04 16:03	27° <b>Ω</b> 25'27		asc. node	4559 Aug 22 13:06	16° <b>Ω</b> 18'39	
	4558 Sep 06 04:19	0° <b>m</b>		morning set	4559 Aug 29 09:47	29° <b>Ω</b> 54'15	
morning set	4558 Sep 13 23:57	15° <b>m</b> 04'45			4559 Aug 29 10:53	0° <b>m</b> y	
	4558 Sep 21 05:42	0∘ <b>ಹ</b>					
				superior conj	4559 Sep 05 14:20	15° <b>™</b> 07'18	1°42'17
superior conj	4558 Sep 21 13:13	0° <b>ჲ</b> 38'18		minimum elong	4559 Sep 05 13:27	15° <b>m</b> 02'39	
minimum elong	4558 Sep 21 13:42	0° <b>ჲ</b> 40'41	1°43'36	max. Earth dist.	4559 Sep 09 05:42		1.34574 AU
max. Earth dist.	4558 Sep 26 15:19	10° <b>≏</b> 44'24	1.36242 AU		4559 Sep 12 21:47	0∘ <b>ত</b>	
evening rise	4558 Sep 30 13:50	18° <b>£</b> 10'49		evening rise	4559 Sep 13 17:24	1° <b>≙</b> 35'17	
	4558 Oct 07 06:16	0° <b>M</b> ,		desc. node	4559 Sep 28 05:50	26° <b>≙</b> 56'08	
desc. node	4558 Oct 11 08:47	6°M46'24			4559 Sep 30 05:33	0°M	
	4558 Oct 27 11:56	0° <b>∡</b> 7	2 (00 512 2	evening max el	4559 Oct 18 18:30	23°M29'17	26°56'39
evening max el	4558 Nov 05 05:49		26°05'23		4559 Oct 28 01:33	0° <b>√</b> ¹	
retrograde	4558 Nov 17 19:56	17°×700'07		retrograde	4559 Oct 31 22:56	0° <b>≯</b> ¹46'05	
evening set	4558 Nov 24 01:18	14° 🖈 26'38	0.66810.477		4559 Nov 04 14:29	30°RM₁	
min. Earth dist.	4558 Nov 28 07:04		0.66719 AU	evening set	4559 Nov 07 16:27	28°M05'40	0.65570 444
inferior conj	4558 Nov 29 18:22	8° ₹ 06'23		min. Earth dist.	4559 Nov 11 15:34	24°M10'43	0.65578 AU
minimum elong	4558 Nov 29 19:23	8° <b>₹</b> 03'12	0-3/3/	inferior conj	4559 Nov 13 14:42	21°M55'16	
asc. node	4558 Dec 01 15:17	5°×750'42		minimum elong	4559 Nov 13 17:31	21°M47'12	1-38.03
morning rise	4558 Dec 05 13:57	2°×16'33		asc. node	4559 Nov 18 12:18	17°ML04'50	
direct	4558 Dec 08 17:13	1° <b>х</b> 20′23 5° <b>х</b> 04′44	18°50'02	morning rise direct	4559 Nov 19 19:28	16°M17'33 15°M35'37	
morning max el	4558 Dec 15 12:06	5°×'04'44 0°る	10 3002		4559 Nov 22 14:00		10012105
marning ast	4559 Jan 02 02:46	0°る 6°る26'41		morning max el	4559 Nov 29 02:12	19°M05'45	18°13'05
morning set	4559 Jan 06 05:25	6°526'41 8° <b>3</b> 11'06		morning set	4559 Dec 07 07:55	0° <b>√</b> 1 16°√156'28	
desc. node	4559 Jan 07 08:02 4559 Jan 21 06:01	0°≈		morning set desc. node	4559 Dec 17 20:52 4559 Dec 25 05:06	16° ₹ 56'28 28° ₹ 49'13	
max. Earth dist.	4559 Jan 21 09:28	0°≈13'36	1.45163 AU	uese. Houe	4559 Dec 25 05:06 4559 Dec 25 22:46	28° <b>×</b> '49'13	
man. Darm Uist.	1337 Jan 21 U7.20	0 ~13 30	1.75105 AU		7337 DCC 23 22.40	v	

superior conj	4560 Jan 01 19:53	10°る55'26	-0°50'52	desc. node	4560 Dec 11 02:09	19° <b>∡</b> ³33'42	
minimum elong	4560 Jan 01 13:33	10° <b>る</b> 30'30	0°50'01				
max. Earth dist.	4560 Jan 04 04:57	14° <b>る</b> 39'52	1.45243 AU	superior conj	4560 Dec 11 14:45	20° <b>х¹</b> 24'54	-0°03'40
	4560 Jan 14 00:26	0°≈		minimum elong	4560 Dec 11 14:19	20° <b>х</b> 23′10	0°03'37
evening rise	4560 Jan 18 02:13	6° <b>≈</b> 21'01		behind sun begin	4560 Dec 11 04:30	19° <b>∡</b> ⁴43'16	
greatest brilliancy	4560 Jan 30 00:47	24° <b>≈</b> 49'30	-0.7m	behind sun end	4560 Dec 12 00:08	21° <b>∡</b> *02'59	
	4560 Feb 02 12:02	0° <b>∀</b>		max. Earth dist.	4560 Dec 16 23:22	29° <b>∡</b> 101′02	1.44586 AU
evening max el	4560 Feb 11 04:22	11° <b>∺</b> 13'26	19°25'40		4560 Dec 17 14:14	0°₹	
asc. node	4560 Feb 14 11:36	14° <b>∺</b> 01'29		evening rise	4560 Dec 27 14:03	15° <b>る</b> 34'29	
retrograde	4560 Feb 18 08:31	15° <b>¥</b> 20′24			4561 Jan 06 01:53	0° <b>≈</b>	
evening set	4560 Feb 21 20:43	14° <b>米</b> 08′21		evening max el	4561 Jan 24 07:14	24° <b>≈</b> 46′15	20°24'28
inferior conj	4560 Feb 27 08:16	8° <b>¥</b> 14'36	3°19'07	asc. node	4561 Jan 31 08:37	29° <b>≈</b> 22'55	
minimum elong	4560 Feb 27 06:27	8° <b>∺</b> 20'33	3°18'52	retrograde	4561 Feb 01 06:44	29° <b>≈</b> 27'31	
min. Earth dist.	4560 Feb 28 14:37	6° <b>∺</b> 35'39	0.66526 AU	evening set	4561 Feb 05 03:28	28° <b>≈</b> 01'10	
morning rise	4560 Mar 03 15:56	2° <b>₩</b> 00'15		inferior conj	4561 Feb 10 12:23	21° <b>≈</b> 54'26	2°54'04
	4560 Mar 06 13:48	30°R≈		minimum elong	4561 Feb 10 10:01	22°≈02'28	2°53'31
direct	4560 Mar 09 21:08	29°≈14'35		min. Earth dist.	4561 Feb 11 05:03	20°≈57'41	0.67435 AU
	4560 Mar 13 10:32	0° <b>){</b>		morning rise	4561 Feb 15 16:21	15°≈40'20	
desc. node	4560 Mar 22 04:16	6° <b>)</b> €29'45	25055125	direct	4561 Feb 21 08:13	13°≈08'50	0.400.011.0
morning max el	4560 Mar 22 08:35	6° <b>)</b> 40′36	25°55'27	morning max el	4561 Mar 04 17:15	19°≈57'05	24°32'12
	4560 Apr 09 10:19	0° <b>Ƴ</b>		desc. node	4561 Mar 09 01:21	24°≈43'43	
	4560 Apr 27 10:32	0° <b>8</b>			4561 Mar 13 07:15	0° <b>∀</b> 0° <b>Ƴ</b>	
morning set	4560 Apr 27 13:07	0° <b>8</b> 11'56	1 25526 ATT		4561 Apr 02 14:19	12° <b>Υ</b> 00'02	
max. Earth dist.	4560 May 01 09:48	7° <b>8</b> 28'22	1.35536 AU	morning set	4561 Apr 09 16:13	$12^{\circ}$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 27502 ATT
	45(0 M 0( 10-20	100	0055140	max. Earth dist.	4561 Apr 13 07:30	0° <b>8</b>	1.37503 AU
superior conj minimum elong	4560 May 06 19:20	18° <b>8</b> 07'57			4561 Apr 19 10:57	0.0	
asc. node	4560 May 06 22:22 4560 May 12 10:54	29° <b>8</b> 43'24	0 33 08	superior conj	4561 Apr 20 03:00	1° <b>8</b> 17'28	1024'04
asc. Houe	4560 May 12 14:07	29 <b>0</b> 43 24 0° <b>Ⅱ</b>		minimum elong	4561 Apr 20 07:27	1° <b>8</b> 38'57	
avaning rica	4560 May 14 16:48	0 H 4°H20'48		evening rise	4561 Apr 28 18:08	18° <b>8</b> 21'57	1 23 20
evening rise	4560 May 29 09:28	4 <u>п</u> 2048		asc. node	4561 Apr 29 07:57	19° <b>8</b> 30'33	
evening max el	4560 Jun 01 19:09	3°5649'43	20°16'25	asc. Houe	4561 May 04 19:01	0° <b>Ⅱ</b>	
retrograde	4560 Jun 12 13:11	9° <b>©</b> 05'00	20 1023	evening max el	4561 May 15 12:06	15° <b>I</b> I33'26	19°14'16
evening set	4560 Jun 14 12:11	8°\$55'16		retrograde	4561 May 24 13:17	19° <b>I</b> I58'12	17 14 10
desc. node	4560 Jun 18 03:30	7° <b>9</b> 50'36		evening set	4561 May 26 13:16	19° <b>II</b> 46'12	
inferior conj	4560 Jun 23 15:20	4°956'53	-1°37'50	inferior conj	4561 Jun 03 23:29	15° <b>II</b> 36'40	0°18'22
minimum elong	4560 Jun 23 10:45		1°36'09	minimum elong	4561 Jun 04 00:15	15° <b>I</b> I35'23	0°18'05
min. Earth dist.	4560 Jun 25 04:42	4°901'53	0.55049 AU	desc. node	4561 Jun 05 00:30	14° <b>I</b> I54'40	
morning rise	4560 Jul 02 08:02	0°9542'55	0.000 13 110	min. Earth dist.	4561 Jun 06 19:30	13° <b>∏</b> 43'33	0.56174 AU
direct	4560 Jul 06 07:54	0°908'21		morning rise	4561 Jun 12 08:09	10° <b>Ⅱ</b> 48'18	
morning max el	4560 Jul 19 20:59	6° <b>5</b> 344'39	23°43'31	direct	4561 Jun 17 06:16	9° <b>Ⅱ</b> 52'21	
C	4560 Aug 05 10:47	$0^{\circ}\Omega$		morning max el	4561 Jul 01 10:50	17° <b>Ⅱ</b> 06'58	25°23'59
asc. node	4560 Aug 08 10:09	5° <b>Ω</b> 39'27		C	4561 Jul 12 00:20	0ಂತಾ	
morning set	4560 Aug 12 21:19	14° <b>Ω</b> 47'41		asc. node	4561 Jul 26 07:13	25°520'27	
				morning set	4561 Jul 28 08:56	29°5540'06	
superior conj	4560 Aug 19 21:10	29° <b>£</b> 52′06	1°34'45		4561 Jul 28 12:41	$0^{\circ}\Omega$	
minimum elong	4560 Aug 19 19:21	29° <b>Ω</b> 42′18	1°34'34				
	4560 Aug 19 22:38	0° <b>m</b>		superior conj	4561 Aug 04 07:25	14° <b>Ω</b> 45′16	1°21'53
max. Earth dist.	4560 Aug 22 04:42	4° <b>m</b> 49'47	1.33305 AU	minimum elong	4561 Aug 04 05:09	14° <b>Ω</b> 32'48	1°21'35
evening rise	4560 Aug 27 09:07	15° <b>m</b> 33'52		max. Earth dist.	4561 Aug 05 11:05	17° <b>Ω</b> 16'46	1.32461 AU
	4560 Sep 03 23:33	0∘ <b>亚</b>		evening rise	4561 Aug 11 09:34	29° <b>Ω</b> 56'56	
desc. node	4560 Sep 14 02:51	16° <b>≏</b> 40'19			4561 Aug 11 10:10	0° <b>m</b>	
	4560 Sep 23 22:56	$0^{\circ}$ M			4561 Aug 28 01:04	0∘ <b>⊽</b>	
evening max el	4560 Sep 30 06:15	6° <b>™</b> 48'46	27°24'04	desc. node	4561 Aug 31 23:50	5° <b>≏</b> 48'30	
retrograde	4560 Oct 13 20:02	14°M06'57		evening max el	4561 Sep 12 15:12	19° <b>≏</b> 38'32	27°21'32
evening set	4560 Oct 20 22:03	11°M28'02		retrograde	4561 Sep 26 10:29	26° <b>≏</b> 53'11	
min. Earth dist.	4560 Oct 24 15:34		0.64083 AU	evening set	4561 Oct 03 14:37	24° <b>£</b> 27'08	
inferior conj	4560 Oct 27 02:49	5° <b>™</b> 32'15		min. Earth dist.	4561 Oct 07 05:28	21° <b>≏</b> 33'57	
minimum elong	4560 Oct 27 07:26	5°M20'10	2°39'58	inferior conj	4561 Oct 10 03:46	18° <b>≏</b> 50'18	
morning rise	4560 Nov 02 18:11	0°M09'40		minimum elong	4561 Oct 10 09:42	18° <b>≏</b> 36'26	3°40'27
_	4560 Nov 03 04:21	30° <b>₹</b> Ω		morning rise	4561 Oct 17 06:31	13° <b>≏</b> 46'01	
asc. node	4560 Nov 04 09:21	29° <b>₽</b> 42'03		direct	4561 Oct 19 15:07	13° <b>£</b> 21'22	
direct	4560 Nov 05 06:19	29° <b>£</b> 38'10		asc. node	4561 Oct 22 06:25	13° <b>£</b> 53'11	17051114
	4560 Nov 07 08:08	0°M 30m 03133	17052112	morning max el	4561 Oct 26 10:55	16° <b>≏</b> 49'50	17°51'14
morning max el	4560 Nov 11 18:50	3°M03'22	1/~33'13		4561 Nov 04 18:23	0°M	
morning set	4560 Nov 28 16:19	28°M48'02		morning set	4561 Nov 11 09:28	11°M41'48	
	4560 Nov 29 09:10	0° <b>∡</b> ¹			4561 Nov 21 18:59	0° <b>∡</b> 7	

superior conj minimum elong	4561 Nov 22 11:19 4561 Nov 22 14:37	1° <b>х</b> 09'39 1° <b>х</b> 23'42	0°38'01 0°37'33	morning set	4562 Oct 25 18:18 4562 Oct 28 05:54	25° <b>£</b> 20′19 0° <b>™</b>	
desc. node	4561 Nov 27 23:10	10° <b>∡</b> ′20'47					
max. Earth dist.	4561 Nov 29 14:26	13° <b>∡</b> *01′07	1.43282 AU	superior conj	4562 Nov 04 09:22	13°M08'47	1°09'27
evening rise	4561 Dec 07 01:56	24° <b>₰</b> 54'47		minimum elong	4562 Nov 04 13:23	13°M26'50	1°08'59
	4561 Dec 10 08:57	0°₹		max. Earth dist.	4562 Nov 12 00:57	26°M27'26	1.41489 AU
	4561 Dec 31 03:29	0° <b>≈</b>			4562 Nov 14 03:51	0° <b>∡</b> ¹	
evening max el	4562 Jan 07 04:40	8°≈20'32	21°35'11	desc. node	4562 Nov 14 20:10	1° <b>∡</b> 707′20	
retrograde	4562 Jan 16 04:15	13°≈40'31		evening rise	4562 Nov 17 04:53	4° <b>∡</b> 758'39	
asc. node	4562 Jan 18 05:39	13°≈17'42			4562 Dec 03 15:32	0°る	22052115
evening set	4562 Jan 20 11:11	11°≈58'55	2010152	evening max el	4562 Dec 20 21:23	21° <b>る</b> 57'23	22°53'15
inferior conj	4562 Jan 25 19:22	5°≈42'09	2°19'53	retrograde	4562 Dec 30 23:29	27°る56'26 25°る58'48	
minimum elong min. Earth dist.	4562 Jan 25 16:57 4562 Jan 25 23:42	5°≈50'32 5°≈27'08	2°19'08 0.67941 AU	evening set asc. node	4563 Jan 04 18:19 4563 Jan 05 02:41	25°る40'45	
IIIII. Eartii dist.	4562 Jan 30 09:35	30°Rる	0.07941 AU	inferior conj	4563 Jan 10 03:20	23 <b>3</b> 4043	1°37'58
morning rise	4562 Jan 30 22:32	29° <b>る</b> 30'05		minimum elong	4563 Jan 10 01:20	19°る3329	1°37'13
direct	4562 Feb 04 23:51	27° <b>る</b> 18'54		min. Earth dist.	4563 Jan 09 20:17	19° <b>る</b> 59'51	0.68063 AU
direct	4562 Feb 11 09:22	0°≈		morning rise	4563 Jan 15 08:14	13° <b>る</b> 27'07	0.00003710
morning max el	4562 Feb 15 02:27	3°≈18'40	23°02'58	direct	4563 Jan 19 19:00	13 <b>3</b> 27 67	
desc. node	4562 Feb 23 22:23	13°≈45'45	25 02 50	morning max el	4563 Jan 28 15:58	16° <b>る</b> 49'09	21°37'02
	4562 Mar 07 10:45	0° <b>)</b> €			4563 Feb 08 09:18	0°≈	
morning set	4562 Mar 21 18:10	22° <b>)</b> (33'11		desc. node	4563 Feb 10 19:25	3°≈22'36	
max. Earth dist.	4562 Mar 26 02:31	29° <b>)</b> 55'32	1.39691 AU		4563 Feb 28 12:53	0° <b>)</b> €	
	4562 Mar 26 03:33	$0^{\circ}\mathbf{\Upsilon}$		morning set	4563 Mar 01 15:26	1° <b>)</b> 45′11	
				max. Earth dist.	4563 Mar 08 02:34	12° <b>)</b> 14′24	1.41813 AU
superior conj	4562 Apr 02 19:39	13° <b>Y</b> 40'41	-1°48'28				
minimum elong	4562 Apr 03 00:29	14° <b>Y</b> 02'53	1°48'00	superior conj	4563 Mar 15 16:26	25° <b>)</b> €06'38	-2°04'40
	4562 Apr 11 11:07	$9^{\circ}$ 8		minimum elong	4563 Mar 15 19:26	25° <b>升</b> 19′42	2°04'33
evening rise	4562 Apr 12 10:38	1° <b>8</b> 52'41			4563 Mar 18 11:11	$0^{\circ}\Upsilon$	
asc. node	4562 Apr 16 04:57	9° <b>8</b> 01'00		evening rise	4563 Mar 26 14:45	14° <b>Ƴ</b> 45'10	
evening max el	4562 Apr 28 14:56	27° <b>8</b> 54'30	18°32'18	asc. node	4563 Apr 03 01:58	28° <b>Y</b> 09′22	
	4562 May 01 04:03	$\Pi^{\circ}0$			4563 Apr 04 04:13	0° <b>8</b>	
retrograde	4562 May 06 07:37	1° <b>∏</b> 42'11		evening max el	4563 Apr 12 00:13	_	18°10'22
evening set	4562 May 08 14:01	1° <b>Ⅱ</b> 23'31		retrograde	4563 Apr 18 20:28	14° <b>8</b> 12'06	
	4562 May 11 19:08	30° <b>₹</b> 8		evening set	4563 Apr 21 09:34	13° <b>8</b> 44'01	
inferior conj	4562 May 16 04:14	26° <b>8</b> 54'51	1°50'58	inferior conj	4563 Apr 28 06:02	8° <b>8</b> 54'23	2°51'50
minimum elong	4562 May 16 07:38	26° <b>8</b> 48'11	1°49'55	minimum elong	4563 Apr 28 09:15	8° <b>8</b> 47'00	2°51'08
min. Earth dist.	4562 May 19 13:50	24° <b>8</b> 16'34	0.57990 AU	min. Earth dist.	4563 May 01 14:07	5° <b>8</b> 53'09	0.60146 AU
desc. node	4562 May 22 21:32	22° <b>8</b> 04'54		morning rise	4563 May 05 06:34	3° <b>と</b> 06'59 1° <b>と</b> 16'44	
morning rise direct	4562 May 23 22:03 4562 May 29 18:45	21° <b>8</b> 32'41 20° <b>8</b> 05'11		desc. node direct	4563 May 09 18:35 4563 May 11 19:33	1° <b>8</b> 04'57	
morning max el	4562 Jun 13 03:53		26°46'35	morning max el	4563 May 26 03:19	8° <b>8</b> 57'51	27°38'05
morning max ci	4562 Jun 15 08:47	0°II	20 40 33	morning max ci	4563 Jun 11 05:59	0° <b>Ⅱ</b>	27 38 03
	4562 Jul 05 13:04	0ංම ග		morning set	4563 Jun 27 01:46	29° <b>I</b> 100'00	
morning set	4562 Jul 12 18:59	14°9526'02		morning sec	4563 Jun 27 13:17	0 ೨ ೨	
asc. node	4562 Jul 13 04:16	15°915'00		asc. node	4563 Jun 30 01:16	5°518'01	
				max. Earth dist.	4563 Jul 03 09:10	12° <b>©</b> 32'45	1.32014 AU
superior conj	4562 Jul 19 19:07	29°539'58	1°04'24				
minimum elong	4562 Jul 19 16:52	29° <b>5</b> 27'31	1°04'02	superior conj	4563 Jul 04 06:32	14°530'22	0°42'56
	4562 Jul 19 22:45	$0^{\circ}\Omega$		minimum elong	4563 Jul 04 04:46	14° <b>©</b> 20'37	0°42'35
max. Earth dist.	4562 Jul 19 21:50	29° <b>©</b> 54'56	1.32031 AU	evening rise	4563 Jul 11 01:58	29° <b>©</b> 22'17	
evening rise	4562 Jul 26 15:57	14° <b>Ω</b> 35'35			4563 Jul 11 09:04	$0^{\circ}\Omega$	
	4562 Aug 03 10:18	0° <b>m</b> y			4563 Jul 27 21:37	0° <b>m</b> y	
desc. node	4562 Aug 18 20:50	24° Mp 06'10		desc. node	4563 Aug 05 17:50	11°Mp 12'16	
	4562 Aug 23 23:45	0∘ <b>ರ</b>		evening max el	4563 Aug 07 14:35	13° <b>m</b> 04'31	25°38'12
evening max el	4562 Aug 25 18:44		26°45'44	retrograde	4563 Aug 21 13:35	20° Mp 10'28	
retrograde	4562 Sep 08 16:52	8° <b>£</b> 56'25		evening set	4563 Aug 27 14:36	18° <b>m</b> 44'53	0.50201 :
evening set	4562 Sep 15 13:47	6° <b>£</b> 55'37	0.60250.477	min. Earth dist.	4563 Sep 01 02:34	16° Mp 07'14	
min. Earth dist.	4562 Sep 19 08:44		0.60258 AU	inferior conj	4563 Sep 04 06:29	13° <b>m</b> 53'07	
inferior conj	4562 Sep 22 14:11	1° <b>£</b> 40'55		minimum elong	4563 Sep 04 09:22	13° Mp 47'59	5~08'31
minimum elong	4562 Sep 22 19:59	1° <b>Ω</b> 29'04	4-33/30	morning rise	4563 Sep 12 06:24	9° Mp 33'36	
morning rise	4562 Sep 24 16:58 4562 Sep 30 04:09	30°R Mp 26° Mp 58'03		direct morning max el	4563 Sep 14 17:51 4563 Sep 23 04:28	9° Mp 14'21 13° Mp 15'36	18°46'16
direct	4562 Oct 02 12:28	26° Mp 37'15		asc. node	4563 Sep 26 00:31	16° My 22'36	10 40 10
asc. node	4562 Oct 02 12:28 4562 Oct 09 03:29	20° m/31'44		asc. Houc	4563 Oct 04 14:52	0° <b>⊡</b>	
300. 110 <b>u</b> c	4562 Oct 09 16:01	0° <b>ت</b>		morning set	4563 Oct 09 14:00	ი — 9° <b>ഫ</b> 29'18	
morning max el	4562 Oct 09 23:15	0° <b>⊆</b> 17'13	18°08'25			, —2,10	
		, .,	= =				

superior conj	4563 Oct 18 03:55	26° <b>≙</b> 07'42	1°30'06		4564 Sep 25 16:16	0° <b>⊽</b>	
minimum elong	4563 Oct 18 06:55	26° <b>≙</b> 21'52	1°29'51				
	4563 Oct 20 05:28	$0^{\circ}$ M.		superior conj	4564 Sep 30 13:40	9° <b>ჲ</b> 51'10	1°41'05
max. Earth dist.	4563 Oct 25 06:55	9° <b>™</b> 10′30	1.39422 AU	minimum elong	4564 Sep 30 15:03	9° <b>≏</b> 58'04	1°41'02
evening rise	4563 Oct 29 06:12	16°M03'13		max. Earth dist.	4564 Oct 06 11:39	21° <b>≏</b> 16′05	1.37344 AU
desc. node	4563 Nov 01 17:09	21°M49'23		evening rise	4564 Oct 10 06:00	28° <b>≏</b> 09'28	
	4563 Nov 06 19:43	0° <b>∡</b> ¹			4564 Oct 11 06:51	0°M	
	4563 Nov 28 07:52	0°₹		desc. node	4564 Oct 18 14:10	12°M22'54	
evening max el	4563 Dec 03 10:55	5° <b>る</b> 37'01	24°12'58		4564 Oct 30 04:54	0° <b>∡</b>	
retrograde	4563 Dec 14 15:18	12° <b>る</b> 10'41		evening max el	4564 Nov 14 23:18	19° <b>∤</b> 19'22	25°27'36
evening set	4563 Dec 19 23:16	9° <b>ප</b> 57'18		retrograde	4564 Nov 27 02:47	26° <b>₰</b> 18'41	
asc. node	4563 Dec 22 23:44	6° <b>る</b> 44'36		evening set	4564 Dec 03 00:24	23° <b>≯</b> 51'25	
min. Earth dist.	4563 Dec 24 16:30			min. Earth dist.	4564 Dec 07 10:04	19° <b>₰</b> 00'26	0.67219 AU
inferior conj	4563 Dec 25 10:27	3° <b>る</b> 31'22	0°49'21	inferior conj	4564 Dec 08 14:58	17° <b>₹</b> 27'27	
minimum elong	4563 Dec 25 09:19	3° <b>る</b> 35'14	0°48'53	minimum elong	4564 Dec 08 15:05	17° <b>∡</b> ¹27′03	0°04'54
	4563 Dec 28 04:31	30°Ŗ <b>⋌</b> 7		transit middle	4564 Dec 08 15:05	17° <b>≯</b> 27'03	0°04'54
morning rise	4563 Dec 30 19:25	27° <b>₹</b> 28'29		transit begin	4564 Dec 08 12:25	17° <b>∡</b> ³35'38	
direct	4564 Jan 03 16:34	26° <b>∡</b> *02'42		transit end	4564 Dec 08 17:45	17° <b>∡</b> 18'27 −	
	4564 Jan 11 00:02	0° <b>ろ</b>		asc. node	4564 Dec 08 20:47	17° <b>∡</b> *08'42	
morning max el	4564 Jan 11 12:44	0° <b>る</b> 31'04	20°20'57	morning rise	4564 Dec 14 06:07	11° <b>∡</b> ³32′07	
desc. node	4564 Jan 28 16:26	23° <b>る</b> 24'10		direct	4564 Dec 17 15:15	10° <b>≯</b> 26′16	
	4564 Feb 02 01:52	0° <b>≈</b>		morning max el	4564 Dec 24 17:26	14° <b>∡</b> ²23'46	19°18'41
morning set	4564 Feb 08 14:47	10° <b>≈</b> 00′36			4565 Jan 05 13:19	0°ಕ	
max. Earth dist.	4564 Feb 18 10:06	25°≈27'23	1.43578 AU	greatest brilliancy	4565 Jan 07 03:22	2° <b>る</b> 22'35	-0.7m
	4564 Feb 21 05:31	0° <b>∀</b>		desc. node	4565 Jan 14 13:27	13° <b>る</b> 43'43	
		>		morning set	4565 Jan 17 14:19	18° <b>る</b> 25'29	
superior conj	4564 Feb 24 12:42	5° <b>)</b> (24′52			4565 Jan 25 00:57	0° <b>≈</b>	
minimum elong	4564 Feb 24 10:44	5° <b>)</b> 16'47	2°07'20	max. Earth dist.	4565 Jan 30 24:00	9° <b>≈</b> 21'12	1.44780 AU
evening rise	4564 Mar 08 02:09	26° <b>)</b> (49'59					
	4564 Mar 09 21:42	0°Υ		superior conj	4565 Feb 03 07:49	14°≈37'25	
asc. node	4564 Mar 19 23:00	16° <b>Y</b> 48′25		minimum elong	4565 Feb 02 23:57	14°≈06'07	1°51'00
evening max el	4564 Mar 25 12:36	23°Y55'09	18°07'57		4565 Feb 12 20:25	0° <b>)</b> (50152	
retrograde	4564 Mar 31 23:42	27° <b>Υ</b> 17'41		evening rise	4565 Feb 17 16:31	7° <b>¥</b> 58'52 0° <b>Υ</b>	
evening set	4564 Apr 03 18:52	26°Υ38'35	3024122	1	4565 Mar 03 07:12	0°·γ' 4°Υ48'23	
inferior conj	4564 Apr 10 01:33	21° <b>Υ</b> 29'01	3°24'22 3°24'10	asc. node	4565 Mar 06 20:02	4°°γ′48′23 7° <b>Υ</b> 17'43	10024122
minimum elong	4564 Apr 10 03:18	21° <b>Υ</b> 24'29 18° <b>Υ</b> 29'20		evening max el	4565 Mar 09 01:09	10° <b>Υ</b> 48'32	18°24'22
min. Earth dist.	4564 Apr 12 22:55		0.62307 AU	retrograde	4565 Mar 15 12:33	9° <b>Υ</b> 57'23	
morning rise	4564 Apr 16 10:14	15° <b>Υ</b> 26'21 12° <b>Υ</b> 55'35		evening set	4565 Mar 18 13:48	9° γ 5 / 23 4° <b>Υ</b> 29'25	2924150
direct desc. node	4564 Apr 25 15:27	$12^{\circ}$ <b>Y</b> $13^{\circ}$ <b>Y</b> $12'$ 14		inferior conj	4565 Mar 24 10:35 4565 Mar 24 10:38		3°34'50 3°34'50
morning max el	4564 Apr 25 15:37 4564 May 07 08:52	13 γ 12 14 20° <b>Υ</b> 55'12	27052111	minimum elong min. Earth dist.	4565 Mar 26 17:07	4 γ 29 14 1° <b>Υ</b> 51'43	0.64244 AU
morning max er	4564 May 15 05:19	0° <b>8</b>	27 32 11	min. Earth dist.		30° <b>₹</b>	0.04244 AU
	4564 Jun 03 06:45	0°II		morning rise	4565 Mar 28 10:47 4565 Mar 30 06:42	30 KX 28°¥19'02	
morning set	4564 Jun 10 03:16	13° <b>Ⅱ</b> 16'05		direct	4565 Apr 06 02:05	28 <b>X</b> 1902 25° <b>X</b> 31'40	
max. Earth dist.	4564 Jun 15 17:09	24° <b>I</b> I57'46	1.32417 AU	desc. node	4565 Apr 12 12:40	27° <b>)</b> 34'30	
asc. node	4564 Jun 15 22:17	25° <b>II</b> 25'23	1.52417 AO	dese. Hode	4565 Apr 15 22:47	27 <b>γ</b> (3430	
asc. node	4304 Juli 13 22.17	23 112323		morning max el	4565 Apr 19 17:59	3° <b>Υ</b> 28'31	27°29'40
superior conj	4564 Jun 17 15:58	29° <b>Ⅱ</b> 11'12	0°18'05	morning max ci	4565 May 09 15:39	0°8	27 27 40
minimum elong	4564 Jun 17 15:08	29° <b>I</b> 106'38		morning set	4565 May 24 20:52	27° <b>8</b> 05'15	
	4564 Jun 18 00:56	0°95			4565 May 26 08:04	0°II	
evening rise	4564 Jun 24 13:41	14°9510'51		max. Earth dist.	4565 May 29 17:38		1.33265 AU
e vennig rise	4564 Jul 02 11:32	0° <b>N</b>		man. Barur dist.	1000 1114) 25 17.50	0 20022	1.55205 110
evening max el	4564 Jul 19 04:09	23° <b>Ω</b> 41'13	24°08'12	superior conj	4565 Jun 01 21:27	13° <b>Ⅱ</b> 35'38	-0°09'29
desc. node	4564 Jul 22 14:51	26° <b>Ω</b> 38'44		minimum elong	4565 Jun 01 21:56	13° <b>∏</b> 38′12	
	4564 Jul 28 21:17	0° m)		behind sun begin	4565 Jun 01 17:31	13° <b>Ⅱ</b> 14'40	
retrograde	4564 Aug 01 23:10	0° Mp 38'06		behind sun end	4565 Jun 02 02:21	14° <b>Ⅱ</b> 01'47	
	4564 Aug 06 02:19	30°RΩ		asc. node	4565 Jun 02 19:19	15° <b>Ⅱ</b> 32'19	
evening set	4564 Aug 06 15:18	29° <b>Ω</b> 49'39		evening rise	4565 Jun 09 01:09	28° <b>∏</b> 54'08	
min. Earth dist.	4564 Aug 12 14:43		0.56391 AU	<i>5</i>	4565 Jun 09 13:39	0°95	
inferior conj	4564 Aug 15 02:33	25° <b>Ω</b> 19'53			4565 Jun 27 01:08	$0^{\circ}\Omega$	
minimum elong	4564 Aug 14 23:35	25° <b>Ω</b> 24'30		evening max el	4565 Jun 30 17:54	4° <b>Ω</b> 03'27	22°30'52
morning rise	4564 Aug 23 10:27	21° <b>Ω</b> 20'41		desc. node	4565 Jul 09 11:54	9° <b>Ω</b> 50'38	- <del></del>
direct	4564 Aug 26 03:44	21°Ω01'20		retrograde	4565 Jul 13 20:20	10° <b>Ω</b> 34'16	
morning max el	4564 Sep 04 23:34	_	19°45'50	evening set	4565 Jul 17 00:16	10°Ω12'14	
<i>5</i>	4564 Sep 08 22:24	0° my		min. Earth dist.	4565 Jul 25 01:14		0.55170 AU
asc. node	4564 Sep 11 21:34	4° m 10'52		inferior conj	4565 Jul 26 04:34	6° <b>Ω</b> 03'00	
morning set	4564 Sep 22 17:08	23° m 59'07		minimum elong	4565 Jul 25 20:26	6° <b>Ω</b> 14'35	
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morning rise	4565 Aug 03 18:35	2° <b>Ω</b> 12'41		morning rise	4566 Jul 14 15:17	12° <b>©</b> 21'05	
direct	4565 Aug 06 20:10	1° <b>Ω</b> 51'14		direct	4566 Jul 18 05:30	11° <b>©</b> 53'17	
morning max el	4565 Aug 18 06:40	7° <b>Ω</b> 10'49	21°06'31	morning max el	4566 Jul 31 02:52	18° <b>©</b> 02'30	22°43'49
asc. node	4565 Aug 29 18:36	22° <b>Ω</b> 43′00			4566 Aug 09 18:51	$\mathfrak{O}^{\circ}\mathfrak{O}$	
	4565 Sep 02 17:18	0° <b>m</b> )		asc. node	4566 Aug 16 15:38	11° <b>Ω</b> 48'28	
morning set	4565 Sep 07 01:05	8° mp 42'19		morning set	4566 Aug 22 11:47	23° <b>£</b> 33'15	
morning sec	1302 Бер 07 01.03	0 10/12/19		morning sec	4566 Aug 25 12:32	0° m)	
aumorior comi	4565 Cap. 14. 10:07	24° Mp 05'51	1042152		4300 Aug 23 12.32	V VV	
superior conj	4565 Sep 14 10:07	-			1566 1 20 12 55	00.000.4112.0	1020147
minimum elong	4565 Sep 14 09:58	24° Mp 05'05	1°43'52	superior conj	4566 Aug 29 13:55	8°Mp41'38	1°39'47
	4565 Sep 17 07:33	0∘ <b>ত</b>		minimum elong	4566 Aug 29 12:34	8° <b>m</b> ∤34'31	1°39'42
max. Earth dist.	4565 Sep 18 21:00	3° <b>ჲ</b> 06'57	1.35482 AU	max. Earth dist.	4566 Sep 01 15:02	15°Mp06'49	1.33983 AU
evening rise	4565 Sep 23 00:40	11° <b>≏</b> 08'16		evening rise	4566 Sep 06 09:50	24° Mp48'01	
	4565 Oct 03 18:47	$0^{\circ}$ M,			4566 Sep 09 02:30	0∘ <b>⊽</b>	
desc. node	4565 Oct 05 11:12	2°M42'46		desc. node	4566 Sep 22 08:14	22° <b>≏</b> 42'13	
	4565 Oct 25 13:20	0° <b>∡</b> ¹			4566 Sep 27 06:46	0°M	
evening max el	4565 Oct 28 11:55	3° <b>х</b> 00′53	26°29'46	evening max el	4566 Oct 11 00:37	16°M32'19	27°11'51
retrograde	4565 Nov 10 09:11	10° <b>√</b> 14'27	20 27 40	retrograde	4566 Oct 24 09:40	23°M50'02	27 1131
C				•			
evening set	4565 Nov 16 19:50	7° <b>∡</b> ³37′20		evening set	4566 Oct 31 07:15	21°M09'27	
min. Earth dist.	4565 Nov 20 22:42	3° <b>≯</b> 21'39	0.66269 AU	min. Earth dist.	4566 Nov 04 03:56	17° <b>M</b> 29'04	0.64976 AU
inferior conj	4565 Nov 22 14:56	1° <b>≯</b> 20′23	-1°03'51	inferior conj	4566 Nov 06 08:06	15° <b>™</b> 04'44	-2°05'41
minimum elong	4565 Nov 22 16:41	1° <b>∡</b> 15′05	1°03'05	minimum elong	4566 Nov 06 11:41	14° <b>M</b> 54'47	2°04'15
	4565 Nov 23 17:55	30°RM₊		morning rise	4566 Nov 12 17:11	9° <b>™</b> 32'45	
asc. node	4565 Nov 25 17:50	27°M49'25		asc. node	4566 Nov 12 14:53	9°M35'26	
morning rise	4565 Nov 28 14:12	25°M35'11		direct	4566 Nov 15 08:43	8° <b>M</b> 55'37	
direct	4565 Dec 01 13:23	24°M45'38		morning max el	4566 Nov 21 20:09	12°M22'43	18°02'30
	4565 Dec 08 04:43	28°M23'08	18°32'14	morning max er	4566 Dec 04 03:52	0° <b>₹</b>	10 02 30
morning max el			16 32 14	. ,			
	4565 Dec 09 16:51	0° <b>⊼</b>		morning set	4566 Dec 09 16:44	9° <b>√</b> 10'32	
morning set	4565 Dec 28 12:43	28° <b>∡</b> 03'49		desc. node	4566 Dec 19 07:31	24° <b>∡</b> ′57′12	
	4565 Dec 29 17:56	0°ಕ			4566 Dec 22 10:53	0°ಕ	
desc. node	4566 Jan 01 10:29	4° <b>る</b> 16'19					
				superior conj	4566 Dec 23 19:22	2° <b>る</b> 09'33	-0°30'42
superior conj	4566 Jan 13 11:33	23° <b>る</b> 14'39	-1°16'48	minimum elong	4566 Dec 23 15:34	1° <b>る</b> 54'27	0°30'10
minimum elong	4566 Jan 13 02:43	22°る40'01	1°15'47	max. Earth dist.	4566 Dec 27 13:45	8° <b>る</b> 07'25	1.45052 AU
max. Earth dist.	4566 Jan 13 18:07	23°る40'22	1.45288 AU	evening rise	4567 Jan 09 02:33	27° <b>る</b> 38'35	
max. Earth dist.	4566 Jan 17 18:56	0°≈	1.15200710	evening rise	4567 Jan 10 15:13	0°≈	
ovanina rias	4566 Jan 29 07:38	0 ∞ 18°≈11'18		araotaat brillianas	4567 Jan 22 20:00	0 ∞ 18°≈34'22	-0.7m
evening rise				greatest brilliancy			-0./m
	4566 Feb 05 18:14	0° <b>)</b> (			4567 Jan 30 23:46	0° <b>∀</b>	
greatest brilliancy	4566 Feb 07 09:40	2° <b>)</b> 35′13	-0.8m	evening max el	4567 Feb 03 17:24	4° <b>)</b> 19′39	19°48'58
evening max el	4566 Feb 20 11:24	20° <b>) (</b> 47′22	18°58'32	asc. node	4567 Feb 08 14:09	8° <b>∺</b> 03'20	
asc. node	4566 Feb 21 17:06	21° <b>¥</b> 58′09		retrograde	4567 Feb 11 04:52	8° <b>)</b> (39′49	
retrograde	4566 Feb 27 07:17	24° <b>)</b> 37′57		evening set	4567 Feb 14 20:36	7° <b>∺</b> 21'41	
evening set	4566 Mar 02 15:12	23° <b>)</b> €33'48		inferior conj	4567 Feb 20 06:47	1° <b>)</b> 22′14	3°09'42
inferior conj	4566 Mar 08 05:22	17° <b>)</b> 49′04	3°28'39	minimum elong	4567 Feb 20 04:40	1° <b>¥</b> 29'16	3°09'18
minimum elong	4566 Mar 08 04:05	17° <b>)</b> 53′04	3°28'32	· ·	4567 Feb 21 07:29	30°R≈	
min. Earth dist.	4566 Mar 09 20:21	15° <b>)</b> (46'35	0.65820 AU	min. Earth dist.	4567 Feb 21 07:07	0° <b>)</b> €01'13	0.66974 AU
	4566 Mar 13 16:35	11° <del>X</del> 35'32	0.03020710	morning rise	4567 Feb 25 12:32	25°≈08'01	0.00774710
morning rise				-		23 ≈08 01 22°≈27'24	
direct	4566 Mar 20 04:26	8° <b>)</b> (45'32		direct	4567 Mar 03 12:25		25021110
desc. node	4566 Mar 30 09:43	13° <b>¥</b> 50′06		morning max el	4567 Mar 15 13:01	29° <b>≈</b> 38′06	25°21'19
morning max el	4566 Apr 02 03:54	16° <b>∺</b> 26'31	26°36'25		4567 Mar 15 21:36	0° <b>∀</b>	
	4566 Apr 13 09:33	$0$ ° $\mathbf{\Upsilon}$		desc. node	4567 Mar 17 06:45	1° <b>)</b> €27'34	
	4566 May 02 12:14	$9^{\circ}$ 8			4567 Apr 07 06:24	$0$ ° $\Upsilon$	
morning set	4566 May 08 03:14	10° <b>8</b> 17'46		morning set	4567 Apr 20 17:51	22° <b>Y</b> 40'36	
max. Earth dist.	4566 May 12 07:26	18° <b>8</b> 23'19	1.34582 AU	max. Earth dist.	4567 Apr 24 10:17	29° <b>Ƴ</b> 27'54	1.36342 AU
	•				4567 Apr 24 17:06	0°8	
superior conj	4566 May 16 20:47	27° <b>8</b> 37'23	-0°38'41		rv	-	
minimum elong	4566 May 16 22:52	27° <b>8</b> 48'08		superior conj	4567 Apr 30 11:10	11° <b>8</b> 08'30	-1°08'01
mminum ciong		0°II	0 0017		•	11° <b>8</b> 26'51	
•	4566 May 18 00:18			minimum elong	4567 Apr 30 14:51		1 0/23
asc. node	4566 May 20 16:22	5° <b>Ⅱ</b> 35'02		asc. node	4567 May 07 13:25	25° <b>8</b> 29'13	
evening rise	4566 May 24 10:28	13° <b>∏</b> 26′29		evening rise	4567 May 08 15:26	27° <b>8</b> 41'09	
	4566 Jun 01 23:14	$0$ $\circ$ $\odot$			4567 May 09 18:59	$\Pi$ $^{\circ}0$	
evening max el	4566 Jun 12 15:47	14° <b>5</b> 944'23	21°00'54	evening max el	4567 May 26 01:47	26° <b>Ⅱ</b> 03'35	19°47'25
retrograde	4566 Jun 24 09:00	20° <b>©</b> 29'27			4567 May 31 15:49	$0$ $\circ$	
desc. node	4566 Jun 26 08:56	20° <b>5</b> 20'03		retrograde	4567 Jun 05 01:34	0° <b>©</b> 56'03	
evening set	4566 Jun 26 13:33	20°©18'11		evening set	4567 Jun 07 00:03	0°545'52	
inferior conj		16°520'41	-2°45'41	<i>3</i> =	4567 Jun 09 17:19	30°R∏	
	4300 Jul   0.5 7.1 M	10 202041					
minimum elong	4566 Jul 05 21:50 4566 Jul 05 14:23			desc node			
minimum elong min. Earth dist.	4566 Jul 05 14:23 4566 Jul 06 12:18	16° <b>©</b> 31'11	2°43'12 0.54820 AU	desc. node inferior conj	4567 Jun 13 05:56 4567 Jun 15 20:50	28°Ⅲ17'55 26°Ⅲ43'58	-0°46'50

minimum elong	4567 Jun 15 18:42	26° <b>Ⅱ</b> 47'17	0°46'02	inferior conj	4568 May 26 13:21	7° <b>Ⅱ</b> 39'17	1°01'28
min. Earth dist.	4567 Jun 18 01:05	25° <b>I</b> I23'38	0.55429 AU	minimum elong	4568 May 26 15:39	7° <b>Д</b> 35'10	1°00'40
morning rise	4567 Jun 24 11:13	22° <b>I</b> 16'39	0.55 125 110	min. Earth dist.	4568 May 29 17:04	5° <b>П</b> 24'52	0.56880 AU
direct	4567 Jun 28 20:14	21° <b>II</b> 34'27		desc. node	4568 May 30 02:58	5° <b>Ⅱ</b> 08'07	
morning max el	4567 Jul 12 17:10	28° <b>Ⅱ</b> 27'53	24°27'33	morning rise	4568 Jun 03 16:17	2° <b>∏</b> 35'41	
C	4567 Jul 14 06:22	0ංම		direct	4568 Jun 09 00:08	1° <b>Ⅱ</b> 27'34	
	4567 Aug 02 20:53	$0^{\circ}\Omega$		morning max el	4568 Jun 23 08:00	8° <b>∏</b> 53'54	26°02'22
asc. node	4567 Aug 03 12:40	1° <b>Ω</b> 18′50			4568 Jul 09 04:56	$0$ $\circ$ $\odot$	
morning set	4567 Aug 06 23:34	8° <b>Ω</b> 27'09		asc. node	4568 Jul 20 09:42	21° <b>5</b> 06′18	
				morning set	4568 Jul 21 10:43	23° <b>5</b> 17'43	
superior conj	4567 Aug 13 22:26	23° <b>Ω</b> 30'47	1°29'53		4568 Jul 24 13:31	$0 {\circ} \Omega$	
minimum elong	4567 Aug 13 20:22	23° <b>Ω</b> 19'31	1°29'40			_	
max. Earth dist.	4567 Aug 15 17:47	27° <b>Ω</b> 25'40	1.32895 AU	superior conj	4568 Jul 28 09:31	8° <b>Ω</b> 25'22	1°15'00
	4567 Aug 16 22:33	0° <b>m</b> )		minimum elong	4568 Jul 28 07:11		1°14'39
evening rise	4567 Aug 21 05:39	8° m 58'18		max. Earth dist.	4568 Jul 29 02:30	9° <b>£</b> 58'53	1.32225 AU
desc. node	4567 Sep 01 11:50 4567 Sep 09 05:14	0° <b>ჲ</b> 12° <b>ჲ</b> 12'47		evening rise	4568 Aug 04 08:54 4568 Aug 07 13:38	23° <b>Ω</b> 28'43 0° <b>m</b>	
evening max el	4567 Sep 23 11:36	12 <b>=</b> 1247 29° <b>£</b> 41'13	27°27'00		4568 Aug 25 08:10	0∘ <del>ت</del> ۱۱۱۸	
evening max ci	4567 Sep 23 19:35	0°M	27 27 00	desc. node	4568 Aug 26 02:14	0 <b>=</b> 1° <b>⊆</b> 01'39	
retrograde	4567 Oct 07 03:43	6°M57'25		evening max el	4568 Sep 04 18:17	12° <b>⊆</b> 13'24	27°10'20
evening set	4567 Oct 14 07:44	4°M22'32		retrograde	4568 Sep 18 14:48	19° <b>£</b> 26'21	2, 1020
min. Earth dist.	4567 Oct 17 23:40	1°ML14'28	0.63350 AU	evening set	4568 Sep 25 17:27	17° <b>Ω</b> 09'09	
	4567 Oct 19 05:52	30° <b>ŖΩ</b>		min. Earth dist.	4568 Sep 29 08:43	14° <b>≏</b> 25'04	0.61438 AU
inferior conj	4567 Oct 20 15:50	28° <b>≏</b> 34'41	-3°07'52	inferior conj	4568 Oct 02 10:58	11° <b>≏</b> 41'36	-4°05'58
minimum elong	4567 Oct 20 21:07	28° <b>≏</b> 21'30	3°06'04	minimum elong	4568 Oct 02 17:06	11° <b>≏</b> 28′02	4°04'23
morning rise	4567 Oct 27 11:58	23° <b>≏</b> 19′26		morning rise	4568 Oct 09 18:37	6° <b>≏</b> 46'26	
direct	4567 Oct 29 22:23	22° <b>≙</b> 51'06		direct	4568 Oct 12 02:43	6° <b>£</b> 23'46	
asc. node	4567 Oct 30 11:54	22° <b>≏</b> 52'39		asc. node	4568 Oct 16 08:56	7° <b>≏</b> 42'08	
morning max el	4567 Nov 05 12:55	26° <b>≙</b> 16'22	17°50'11	morning max el	4568 Oct 19 03:50	9° <b>Ω</b> 55'44	17°56'12
	4567 Nov 08 17:30	0°M			4568 Nov 01 08:05	0°M	
morning set	4567 Nov 21 22:13	21°M31'04		morning set	4568 Nov 03 22:38	4°M45'07	
	4567 Nov 26 19:39	0° <b>∡</b> 7		superior conj	4568 Nov 14 08:27	23°M27'03	0°52'42
superior conj	4567 Dec 04 00:35	12° <b>₹</b> 09'26	0°15'06	minimum elong	4568 Nov 14 08.27 4568 Nov 14 12:21	23°M44'04	0°52'11
minimum elong	4567 Dec 04 00:33	12° × 15'53	0°14'53	minimum clong	4568 Nov 18 04:01	23 الا <del>مبر</del> 00 م	0 32 11
behind sun begin	4567 Dec 03 22:29	12° <b>×</b> 100'44	0 1.05	max. Earth dist.	4568 Nov 21 20:36	6° <b>√</b> 09'47	1.42561 AU
behind sun end	4567 Dec 04 05:49	12° <b>∡</b> ³31′02		desc. node	4568 Nov 22 01:33	6° <b>х</b> 30′09	
desc. node	4567 Dec 06 04:33	15° <b>∡</b> ⁴43'05		evening rise	4568 Nov 28 05:04	16° <b>∡</b> °24'17	
max. Earth dist.	4567 Dec 10 07:34	22° <b>≯</b> 23'30	1.44106 AU	-	4568 Dec 07 01:13	ರ°0	
	4567 Dec 15 02:51	0°ರ			4568 Dec 29 03:52	0° <b>≈</b>	
evening rise	4567 Dec 19 12:24	6° <b>る</b> 50'03		evening max el	4568 Dec 30 13:02	1° <b>≈</b> 27'14	22°07'47
	4568 Jan 03 23:31	0° <b>≈</b>		retrograde	4569 Jan 08 23:53	7° <b>≈</b> 04'43	
evening max el	4568 Jan 17 17:56	17° <b>≈</b> 52'49	20°53'14	asc. node	4569 Jan 12 08:12	6° <b>≈</b> 05'09	
retrograde	4568 Jan 26 03:02	22°≈50'01		evening set	4569 Jan 13 11:40	5°≈16'14	
asc. node	4568 Jan 26 11:11	22°≈49'23			4569 Jan 18 01:31	30°Rる	2002100
evening set	4568 Jan 30 03:59	21°≈17'03	2040125	inferior conj	4569 Jan 18 20:00	28°る55'57	
inferior conj minimum elong	4568 Feb 04 12:21 4568 Feb 04 09:55	15°≈05'29	2°40'35	minimum elong min. Earth dist.	4569 Jan 18 17:42 4569 Jan 18 19:21	29°る03'56 28°る58'15	2°02'13 0.68030 AU
min. Earth dist.	4568 Feb 04 09:33 4568 Feb 04 23:32	15°≈13'53 14°≈27'02	2°39'55 0.67703 AU	morning rise	4569 Jan 23 23:36	28 <b>3</b> 38 13	0.08030 AU
morning rise	4568 Feb 09 15:41	8°≈52'14	0.07703 AO	direct	4569 Jan 28 18:31	22 <b>3</b> 43'49	
direct	4568 Feb 15 01:22	6°≈29'07		morning max el	4569 Feb 07 08:27	26° <b>පි</b> 22'41	22°25'39
morning max el	4568 Feb 25 21:42	12°≈57'08	23°54'25	morning max or	4569 Feb 10 16:13	0°≈	22 23 37
desc. node	4568 Mar 03 03:47	20°≈03'44		desc. node	4569 Feb 18 00:49	9° <b>≈</b> 22'02	
	4568 Mar 10 15:30	0° <b>\</b>			4569 Mar 04 05:05	0° <b>)</b> €	
	4568 Mar 30 02:46	$0^{\circ}\mathbf{\Upsilon}$		morning set	4569 Mar 13 01:00	13° <b>¥</b> 58′09	
morning set	4568 Apr 01 11:00	3° <b>Y</b> 58'40		max. Earth dist.	4569 Mar 18 02:47	22° <b>)</b> 24'01	1.40612 AU
max. Earth dist.	4568 Apr 05 06:21	10° <b>Ƴ</b> 37'31	1.38429 AU		4569 Mar 22 12:41	$0$ ° $\Upsilon$	
superior conj	4568 Apr 12 13:00	23° <b>Y</b> ′59'37		superior conj	4569 Mar 25 21:53	6° <b>Y</b> 00′18	
minimum elong	4568 Apr 12 17:48	24° <b>Y</b> 22′20	1°34'31	minimum elong	4569 Mar 26 02:17	6° <b>Y</b> 20'07	1°56'18
	4568 Apr 15 16:12	0° <b>8</b>		evening rise	4569 Apr 05 01:15	24° <b>Ƴ</b> 47'06	
evening rise	4568 Apr 21 13:27	11° <b>8</b> 30'45		1	4569 Apr 07 20:04	0°8	
asc. node	4568 Apr 23 10:27	15° <b>႘</b> 10'05		asc. node	4569 Apr 10 07:29	4° <b>႘</b> 32'34	18°20'32
evening max el	4568 May 01 17:02 4568 May 07 23:14	0°П 8°П03'43	18°53'48	evening max el retrograde	4569 Apr 21 05:17 4569 Apr 28 12:02	20° <b>8</b> 39'00 24° <b>8</b> 16'17	10 20 32
retrograde	4568 May 16 09:22	8 <b>П</b> 03 43 12° <b>П</b> 11'10	10 23 40	evening set	4569 Apr 30 21:11	23° <b>8</b> 54'02	
evening set	4568 May 18 11:43	11° <b>II</b> 56'48		inferior conj	4569 May 08 03:27	19° <b>8</b> 16'40	2°20'32
					.20,	-, 0.010	

minimum elong	4569 May 08 07:02	19° <b>8</b> 09'09	2°19'34	minimum elong	4570 Apr 20 15:59	1° <b>8</b> 25'34	3°08'11
min. Earth dist.	4569 May 11 14:01	16° <b>8</b> 25'17	0.58883 AU		4570 Apr 22 03:08	30° <b>₹</b> Υ	
morning rise	4569 May 15 13:54	13° <b>8</b> 42'07		min. Earth dist.	4570 Apr 23 17:46	28° <b>Ƴ</b> 28'26	0.61084 AU
desc. node	4569 May 16 23:59	13° <b>8</b> 00'45		morning rise	4570 Apr 27 06:48	25° <b>Ƴ</b> 37'12	
direct	4569 May 21 18:25	11° <b>8</b> 59'38		desc. node	4570 May 03 21:02	23° <b>Y</b> 21′28	
morning max el	4569 Jun 05 03:52	19° <b>8</b> 46'23	27°12'44	direct	4570 May 04 00:15	23° <b>Y</b> 21′25	
	4569 Jun 13 21:12	$\Pi$ $^{\circ}0$			4570 May 16 21:19	$8^{\circ}$	
	4569 Jul 01 21:27	$0$ $\circ$		morning max el	4570 May 18 05:56	1° <b>8</b> 18'19	27°48'34
morning set	4569 Jul 05 19:37	7° <b>©</b> 59'43			4570 Jun 08 02:29	$\Pi$ $^{\circ}0$	
asc. node	4569 Jul 07 06:44	11° <b>©</b> 05'23		morning set	4570 Jun 20 00:26	22° <b>Ⅱ</b> 26'52	
					4570 Jun 23 14:35	0	
superior conj	4569 Jul 12 21:20	23° <b>©</b> 19'23	0°55'46	asc. node	4570 Jun 24 03:47	1° <b>©</b> 10'55	
minimum elong	4569 Jul 12 19:14	23° <b>©</b> 07'46	0°55'22	max. Earth dist.	4570 Jun 26 00:04	5°€11'05	1.32136 AU
max. Earth dist.	4569 Jul 12 13:50	22° <b>©</b> 37'59	1.31972 AU				
	4569 Jul 15 22:02	$0 {\circ} \Omega$		superior conj	4570 Jun 27 08:10	8° <b>©</b> 06'43	0°32'48
evening rise	4569 Jul 19 17:06	8° <b>Ω</b> 11'45		minimum elong	4570 Jun 27 06:44	7° <b>©</b> 58'53	0°32'29
	4569 Jul 31 00:21	0° <b>m</b> )		evening rise	4570 Jul 04 04:06	23° <b>©</b> 00'11	
desc. node	4569 Aug 12 23:15	18° <b>m</b> 51'54			4570 Jul 07 12:44	$0^{\circ}\Omega$	
evening max el	4569 Aug 17 18:29	23° <b>m</b> 59'37	26°20'24		4570 Jul 25 21:00	0° m/	
	4569 Aug 26 09:09	0∘ <b>⊽</b>		evening max el	4570 Jul 30 11:27	4° Mp 58'58	25°01'53
retrograde	4569 Aug 31 17:42	1° <b>ഫ</b> 08'45		desc. node	4570 Jul 30 20:16	5° Mp 19'51	
	4569 Sep 05 23:55	30°R, Mp		retrograde	4570 Aug 13 10:00	12°Mp01'56	
evening set	4569 Sep 07 07:40	29° Mp 21'56		evening set	4570 Aug 18 22:03	10° m 53'01	
min. Earth dist.	4569 Sep 11 07:45		0.59371 AU	min. Earth dist.	4570 Aug 23 23:02	8° Mp 08'51	0.57381 AU
inferior conj	4569 Sep 14 14:01	24° Mp 16'38		inferior conj	4570 Aug 26 21:53	6° Mp 10′43	
minimum elong	4569 Sep 14 18:59	24° Mp 07'03	4°51'28	minimum elong	4570 Aug 26 22:33	6° Mp 09′37	5°14'05
morning rise	4569 Sep 22 08:30	19° Mp 43′50		morning rise	4570 Sep 04 01:23	2°M/00'12	
direct	4569 Sep 24 17:33	19° Mp 24′06		direct	4570 Sep 06 14:56	1° Mp 41'07	
morning max el	4569 Oct 02 13:35	23° Mp 12'03	18°21'55	morning max el	4570 Sep 15 14:49	5° Mp 55′30	19°08'53
asc. node	4569 Oct 03 05:59	23° Mp 53'02		asc. node	4570 Sep 20 03:01	11° <b>m</b> ,10'19	
	4569 Oct 08 00:27	0∘ <b>⊽</b>			4570 Oct 01 00:00	0ಂ <b>ರಾ</b>	
morning set	4569 Oct 18 12:31	18° <b>≏</b> 37'20		morning set	4570 Oct 02 11:49	2° <b>£</b> 56'40	
	4569 Oct 24 11:55	0° <b>M</b> ₊				_	
				superior conj	4570 Oct 10 17:30	19° <b>£</b> 12'53	1°35'52
superior conj	4569 Oct 27 15:51	5°M53'06	1°19'30	minimum elong	4570 Oct 10 19:50	19° <b>£</b> 24'11	1°35'42
minimum elong	4569 Oct 27 19:34	6°M₁10'11	1°19'06		4570 Oct 16 11:02	0°M	
max. Earth dist.	4569 Nov 04 04:21	19° <b>™</b> 15'16	1.40621 AU	max. Earth dist.	4570 Oct 17 09:14	1°M40'56	1.38526 AU
evening rise	4569 Nov 08 17:03	26°M52′27		evening rise	4570 Oct 21 04:21	8°M24'53	
desc. node	4569 Nov 08 22:33	27°M15'05		desc. node	4570 Oct 26 19:34	17°M54'28	
	4569 Nov 10 14:56	0°る			4570 Nov 03 12:19	0°⊀	
	4569 Nov 30 17:34	1)°₹		evening max el			
evening max el				evening max er	4570 Nov 25 17:05		24°45'55
	4569 Dec 13 04:03	15° <b>そ</b> 04'39	23°27'30	-	4570 Nov 26 23:48	ರ°0	24°45'55
retrograde	4569 Dec 13 04:03 4569 Dec 23 17:53	15°පි04'39 21°පි19'53	23°27'30	retrograde	4570 Nov 26 23:48 4570 Dec 07 07:51	0°ප 5°ප32'10	24°45'55
evening set	4569 Dec 13 04:03 4569 Dec 23 17:53 4569 Dec 28 18:03	15°පි04'39 21°පි19'53 19°පි15'38	23°27'30	-	4570 Nov 26 23:48 4570 Dec 07 07:51 4570 Dec 12 21:34	0°る 5°る32'10 3°る12'50	24°45'55
evening set asc. node	4569 Dec 13 04:03 4569 Dec 23 17:53 4569 Dec 28 18:03 4569 Dec 30 05:14	15° පි04'39 21° පි19'53 19° පි15'38 17° පි51'10		retrograde evening set	4570 Nov 26 23:48 4570 Dec 07 07:51 4570 Dec 12 21:34 4570 Dec 15 22:39	0°ರ 5°ರ32'10 3°ರ12'50 30°₹⊀	24°45'55
evening set asc. node min. Earth dist.	4569 Dec 13 04:03 4569 Dec 23 17:53 4569 Dec 28 18:03 4569 Dec 30 05:14 4570 Jan 02 16:09	15° පි04'39 21° පි19'53 19° පි15'38 17° පි51'10 13° පි30'35	0.67991 AU	retrograde evening set asc. node	4570 Nov 26 23:48 4570 Dec 07 07:51 4570 Dec 12 21:34 4570 Dec 15 22:39 4570 Dec 17 02:16	0°ರ 5°ರ32'10 3°ರ12'50 30°ೀ್ಸ 28°⊀32'19	
evening set asc. node min. Earth dist. inferior conj	4569 Dec 13 04:03 4569 Dec 23 17:53 4569 Dec 28 18:03 4569 Dec 30 05:14 4570 Jan 02 16:09 4570 Jan 03 03:49	15° හි04'39 21° හි19'53 19° හි15'38 17° හි51'10 13° හි30'35 12° හි50'33	0.67991 AU 1°18'06	retrograde evening set asc. node min. Earth dist.	4570 Nov 26 23:48 4570 Dec 07 07:51 4570 Dec 12 21:34 4570 Dec 15 22:39 4570 Dec 17 02:16 4570 Dec 17 11:35	0°♂ 5°♂32'10 3°♂12'50 30°₹₹ 28°₹32'19 28°₹01'48	0.67604 AU
evening set asc. node min. Earth dist. inferior conj minimum elong	4569 Dec 13 04:03 4569 Dec 23 17:53 4569 Dec 28 18:03 4569 Dec 30 05:14 4570 Jan 02 16:09 4570 Jan 03 03:49 4570 Jan 03 02:08	15° \( \) 04'39 21° \( \) 19'53 19° \( \) 15'38 17° \( \) 55'1'10 13° \( \) 330'35 12° \( \) 556'22	0.67991 AU	retrograde evening set asc. node min. Earth dist. inferior conj	4570 Nov 26 23:48 4570 Dec 07 07:51 4570 Dec 12 21:34 4570 Dec 15 22:39 4570 Dec 17 02:16 4570 Dec 17 11:35 4570 Dec 18 10:04	0°♂ 5°♂32'10 3°♂12'50 30°₹~ 28°~32'19 28°~301'48 26°~3'47'20	0.67604 AU 0°26'58
evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	4569 Dec 13 04:03 4569 Dec 23 17:53 4569 Dec 28 18:03 4569 Dec 30 05:14 4570 Jan 02 16:09 4570 Jan 03 03:49 4570 Jan 03 02:08 4570 Jan 08 10:09	15°る04'39 21°る19'53 19°る15'38 17°る51'10 13°る30'35 12°る50'33 12°る56'22 6°る44'01	0.67991 AU 1°18'06	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	4570 Nov 26 23:48 4570 Dec 07 07:51 4570 Dec 12 21:34 4570 Dec 15 22:39 4570 Dec 17 02:16 4570 Dec 17 11:35 4570 Dec 18 10:04 4570 Dec 18 09:25	0°더 5°더32'10 3°더12'50 30°R* 28°* 32'19 28°* 701'48 26°* 47'20 26°* 49'31	0.67604 AU
evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	4569 Dec 13 04:03 4569 Dec 23 17:53 4569 Dec 28 18:03 4569 Dec 30 05:14 4570 Jan 02 16:09 4570 Jan 03 03:49 4570 Jan 03 02:08 4570 Jan 08 10:09 4570 Jan 12 14:56	15°る04'39 21°る19'53 19°る15'38 17°る51'10 13°る30'35 12°る50'33 12°る56'22 6°る44'01 5°る05'26	0.67991 AU 1°18'06 1°17'27	retrograde evening set  asc. node min. Earth dist. inferior conj minimum elong morning rise	4570 Nov 26 23:48 4570 Dec 07 07:51 4570 Dec 12 21:34 4570 Dec 15 22:39 4570 Dec 17 02:16 4570 Dec 17 11:35 4570 Dec 18 10:04 4570 Dec 18 09:25 4570 Dec 23 21:23	0°더 5°더32'10 3°더12'50 30°R* 28°* 32'19 28°* 47'20 26°* 49'31 20°* 47'11	0.67604 AU 0°26'58
evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	4569 Dec 13 04:03 4569 Dec 23 17:53 4569 Dec 28 18:03 4569 Dec 30 05:14 4570 Jan 02 16:09 4570 Jan 03 02:08 4570 Jan 08 10:09 4570 Jan 12 14:56 4570 Jan 21 00:41	15°る04'39 21°る19'53 19°る15'38 17°る51'10 13°る30'35 12°る50'33 12°る56'22 6°る44'01 5°る05'26 9°る57'13	0.67991 AU 1°18'06 1°17'27	retrograde evening set  asc. node min. Earth dist. inferior conj minimum elong morning rise direct	4570 Nov 26 23:48 4570 Dec 07 07:51 4570 Dec 12 21:34 4570 Dec 15 22:39 4570 Dec 17 02:16 4570 Dec 17 11:35 4570 Dec 18 10:04 4570 Dec 18 09:25 4570 Dec 23 21:23 4570 Dec 27 13:17	0°정 5°정32'10 3°정12'50 30°ዪ록 28°록32'19 28°록40'148 26°록47'20 26°록49'31 20°록47'11 19°록30'03	0.67604 AU 0°26'58 0°26'42
evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	4569 Dec 13 04:03 4569 Dec 23 17:53 4569 Dec 28 18:03 4569 Dec 30 05:14 4570 Jan 02 16:09 4570 Jan 03 03:49 4570 Jan 08 10:09 4570 Jan 12 14:56 4570 Jan 21 00:41 4570 Feb 04 21:49	15°る04'39 21°る19'53 19°る15'38 17°る51'10 13°る30'35 12°る50'33 12°る56'22 6°る44'01 5°る05'26 9°る57'13 29°る10'10	0.67991 AU 1°18'06 1°17'27	retrograde evening set  asc. node min. Earth dist. inferior conj minimum elong morning rise	4570 Nov 26 23:48 4570 Dec 07 07:51 4570 Dec 12 21:34 4570 Dec 15 22:39 4570 Dec 17 02:16 4570 Dec 17 11:35 4570 Dec 18 10:04 4570 Dec 18 09:25 4570 Dec 23 21:23 4570 Dec 27 13:17 4571 Jan 04 00:46	0°당 5°당32'10 3°당12'50 30°R짜 28°짜32'19 28°짜32'19 26°짜47'20 26°짜49'31 20°짜47'11 19°짜30'03 23°짜443'44	0.67604 AU 0°26'58
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evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	4569 Dec 13 04:03 4569 Dec 23 17:53 4569 Dec 28 18:03 4569 Dec 30 05:14 4570 Jan 02 16:09 4570 Jan 03 03:49 4570 Jan 03 02:08 4570 Jan 08 10:09 4570 Jan 12 14:56 4570 Jan 21 00:41 4570 Feb 04 21:49 4570 Feb 05 11:34 4570 Feb 20 11:04	15°る04'39 21°る19'53 19°る15'38 17°る51'10 13°る30'35 12°る50'33 12°る56'22 6°る44'01 5°る05'26 9°る57'13 29°る10'10 0°≈ 22°≈39'52	0.67991 AU 1°18'06 1°17'27	retrograde evening set  asc. node min. Earth dist. inferior conj minimum elong morning rise direct	4570 Nov 26 23:48 4570 Dec 07 07:51 4570 Dec 12 21:34 4570 Dec 15 22:39 4570 Dec 17 02:16 4570 Dec 17 11:35 4570 Dec 18 10:04 4570 Dec 18 09:25 4570 Dec 23 21:23 4570 Dec 27 13:17 4571 Jan 04 00:46 4571 Jan 09 09:08 4571 Jan 22 18:51	0°당 5°당32'10 3°당12'50 30°8* 28°*32'19 28°*30'148 26°*347'20 26°*347'11 19°*330'03 23°*343'44 0°당 19°당20'20	0.67604 AU 0°26'58 0°26'42
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evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	4569 Dec 13 04:03 4569 Dec 23 17:53 4569 Dec 28 18:03 4569 Dec 30 05:14 4570 Jan 02 16:09 4570 Jan 03 03:49 4570 Jan 03 02:08 4570 Jan 08 10:09 4570 Jan 12 14:56 4570 Jan 21 00:41 4570 Feb 04 21:49 4570 Feb 05 11:34 4570 Feb 20 11:04	15°る04'39 21°る19'53 19°る15'38 17°る51'10 13°る30'35 12°る50'33 12°る56'22 6°る44'01 5°る05'26 9°る57'13 29°る10'10 0°≈ 22°≈39'52 0°光	0.67991 AU 1°18'06 1°17'27	retrograde evening set  asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el  desc. node  morning set	4570 Nov 26 23:48 4570 Dec 07 07:51 4570 Dec 12 21:34 4570 Dec 15 22:39 4570 Dec 17 02:16 4570 Dec 17 11:35 4570 Dec 18 10:04 4570 Dec 18 09:25 4570 Dec 23 21:23 4570 Dec 27 13:17 4571 Jan 04 00:46 4571 Jan 09 09:08 4571 Jan 22 18:51 4571 Jan 29 18:20 4571 Jan 30 07:10	0°♂ 5°♂32'10 3°♂12'50 30°₧% 28°%32'19 28°%3'1'48 26°%4'47'20 26°%4'47'11 19°%3'0'03 23°%4'43'44 0°♂ 19°♂20'20 0°≈ 0°≈49'27	0.67604 AU 0°26'58 0°26'42 19°52'37
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evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	4569 Dec 13 04:03 4569 Dec 23 17:53 4569 Dec 28 18:03 4569 Dec 30 05:14 4570 Jan 02 16:09 4570 Jan 03 02:08 4570 Jan 03 02:08 4570 Jan 12 14:56 4570 Jan 21 00:41 4570 Feb 04 21:49 4570 Feb 05 11:34 4570 Feb 20 11:04 4570 Feb 28 05:20 4570 Mar 07 08:40 4570 Mar 07 09:56 4570 Mar 14 20:19 4570 Mar 18 22:46 4570 Mar 28 04:32	15°る04'39 21°る19'53 19°る15'38 17°る51'10 13°る30'35 12°る50'33 12°る56'22 6°る44'01 5°る05'26 9°る57'13 29°る10'10 0°≈ 22°≈39'52 0°米 5°米04'20 16°米58'15 17°米03'39 0°Ψ 7°Ψ20'03 23°Ψ29'34	0.67991 AU 1°18'06 1°17'27 21°03'10 1.42614 AU -2°07'48	retrograde evening set  asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el  desc. node  morning set max. Earth dist. superior conj	4570 Nov 26 23:48 4570 Dec 07 07:51 4570 Dec 12 21:34 4570 Dec 15 22:39 4570 Dec 17 02:16 4570 Dec 17 11:35 4570 Dec 18 10:04 4570 Dec 18 09:25 4570 Dec 23 21:23 4570 Dec 23 21:23 4570 Dec 27 13:17 4571 Jan 04 00:46 4571 Jan 09 09:08 4571 Jan 29 18:20 4571 Jan 29 18:20 4571 Jan 30 07:10 4571 Feb 10 15:55  4571 Feb 15 17:53 4571 Feb 15 13:13 4571 Feb 17 17:09 4571 Mar 01 01:39	0°る。 5°る32'10 3°ጜ32'19 30°ዪ¾ 28°¾32'19 28°¾01'48 26°¾47'20 26°¾49'31 20°¾47'11 19°¾30'03 23°¾43'44 0°る 19°る20'20 0°≈ 0°≈49'27 18°≈37'04 26°≈47'19 26°≈28'23 0°ዧ 19°ኧ01'26	0.67604 AU 0°26'58 0°26'42 19°52'37 1.44171 AU -2°03'08
evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	4569 Dec 13 04:03 4569 Dec 23 17:53 4569 Dec 28 18:03 4569 Dec 30 05:14 4570 Jan 02 16:09 4570 Jan 03 02:08 4570 Jan 08 10:09 4570 Jan 12 14:56 4570 Jan 21 00:41 4570 Feb 04 21:49 4570 Feb 05 11:34 4570 Feb 20 11:04 4570 Feb 28 05:20 4570 Mar 07 08:40 4570 Mar 14 20:19 4570 Mar 18 22:46 4570 Mar 28 04:32 4570 Apr 01 13:04	15°る04'39 21°る19'53 19°る15'38 17°る51'10 13°る30'35 12°る56'22 6°る44'01 5°る05'26 9°る57'13 29°る10'10 0°≈ 22°≈39'52 0°米 5°米04'20 16°米58'15 17°米03'39 0°ሦ 7°Ψ20'03 23°Ψ29'34 0°8	0.67991 AU 1°18'06 1°17'27 21°03'10 1.42614 AU -2°07'48 2°07'47	retrograde evening set  asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el  desc. node  morning set max. Earth dist.  superior conj minimum elong evening rise	4570 Nov 26 23:48 4570 Dec 07 07:51 4570 Dec 12 21:34 4570 Dec 15 22:39 4570 Dec 17 02:16 4570 Dec 17 11:35 4570 Dec 18 10:04 4570 Dec 18 09:25 4570 Dec 23 21:23 4570 Dec 27 13:17 4571 Jan 04 00:46 4571 Jan 09 09:08 4571 Jan 22 18:51 4571 Jan 29 18:20 4571 Jan 30 07:10 4571 Feb 10 15:55 4571 Feb 15 17:53 4571 Feb 15 13:13 4571 Feb 17 17:09 4571 Mar 01 01:39 4571 Mar 07 12:20	0°る 5°る32'10 3°る12'50 30°8* 28°*32'19 28°*30'148 26°*47'20 26°*49'31 20°*47'11 19°*30'03 23°*43'44 0°る 19°る20'20 0°≈ 0°≈49'27 18°≈37'04 26°≈47'19 26°≈28'23 0°升 19°*01'26 0°°	0.67604 AU 0°26'58 0°26'42 19°52'37 1.44171 AU -2°03'08
evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	4569 Dec 13 04:03 4569 Dec 23 17:53 4569 Dec 28 18:03 4569 Dec 30 05:14 4570 Jan 02 16:09 4570 Jan 03 02:08 4570 Jan 08 10:09 4570 Jan 12 14:56 4570 Jan 21 00:41 4570 Feb 04 21:49 4570 Feb 05 11:34 4570 Feb 20 11:04 4570 Feb 28 05:20 4570 Mar 07 08:40 4570 Mar 14 20:19 4570 Mar 18 22:46 4570 Mar 28 04:32 4570 Apr 01 13:04 4570 Apr 04 16:22	15°る04'39 21°る19'53 19°る15'38 17°る51'10 13°る30'35 12°る56'22 6°る44'01 5°る05'26 9°る57'13 29°る10'10 0°≈ 22°≈39'52 0°米 5°米04'20 16°米58'15 17°米03'39 0°Y 7°Y20'03 23°Y29'34 0°8 3°839'18	0.67991 AU 1°18'06 1°17'27 21°03'10 1.42614 AU -2°07'48	retrograde evening set  asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el  desc. node  morning set max. Earth dist.  superior conj minimum elong evening rise asc. node	4570 Nov 26 23:48 4570 Dec 07 07:51 4570 Dec 12 21:34 4570 Dec 15 22:39 4570 Dec 17 02:16 4570 Dec 17 11:35 4570 Dec 18 10:04 4570 Dec 18 09:25 4570 Dec 23 21:23 4570 Dec 27 13:17 4571 Jan 04 00:46 4571 Jan 09 09:08 4571 Jan 22 18:51 4571 Jan 29 18:20 4571 Jan 30 07:10 4571 Feb 10 15:55  4571 Feb 15 17:53 4571 Feb 17 17:09 4571 Mar 01 01:39 4571 Mar 07 12:20 4571 Mar 15 01:34	0°る 5°る32'10 3°る12'50 30°8* 28°*32'19 28°*30'148 26°*447'20 26°*49'31 20°*447'11 19°*30'03 23°*43'44 0°る 19°る20'20 0°≈ 0°≈49'27 18°≈37'04 26°≈428'23 0°升 19°*H01'26 0°° 11°°¥53'13	0.67604 AU 0°26'58 0°26'42 19°52'37 1.44171 AU -2°03'08 2°02'56
evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde	4569 Dec 13 04:03 4569 Dec 23 17:53 4569 Dec 28 18:03 4569 Dec 30 05:14 4570 Jan 02 16:09 4570 Jan 03 02:08 4570 Jan 08 10:09 4570 Jan 12 14:56 4570 Jan 21 00:41 4570 Feb 04 21:49 4570 Feb 05 11:34 4570 Feb 20 11:04 4570 Feb 28 05:20 4570 Mar 07 08:40 4570 Mar 14 20:19 4570 Mar 18 22:46 4570 Mar 28 04:32 4570 Apr 01 13:04 4570 Apr 04 16:22 4570 Apr 11 07:24	15°る04'39 21°る19'53 19°る15'38 17°る51'10 13°る30'35 12°る56'22 6°る44'01 5°る05'26 9°る57'13 29°る10'10 0°≈ 22°≈39'52 0°升 5°升04'20 16°升58'15 17°升03'39 0°个 7°午20'03 23°午29'34 0°뭥 3°엉39'18 7°엉02'36	0.67991 AU 1°18'06 1°17'27 21°03'10 1.42614 AU -2°07'48 2°07'47	retrograde evening set  asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el  desc. node  morning set max. Earth dist.  superior conj minimum elong evening rise  asc. node evening max el	4570 Nov 26 23:48 4570 Dec 07 07:51 4570 Dec 12 21:34 4570 Dec 15 22:39 4570 Dec 17 02:16 4570 Dec 17 11:35 4570 Dec 18 10:04 4570 Dec 18 09:25 4570 Dec 23 21:23 4570 Dec 27 13:17 4571 Jan 04 00:46 4571 Jan 04 00:46 4571 Jan 22 18:51 4571 Jan 29 18:20 4571 Jan 30 07:10 4571 Feb 10 15:55  4571 Feb 15 17:53 4571 Feb 15 13:13 4571 Feb 17 17:09 4571 Mar 01 01:39 4571 Mar 07 12:20 4571 Mar 15 01:34 4571 Mar 19 05:13	0°る 5°る32'10 3°る12'50 30°8* 28°*32'19 28°*30'148 26°*447'20 26°*49'31 20°*47'11 19°*30'03 23°*43'44 0°る 19°る20'20 0°≈ 0°≈49'27 18°≈37'04 26°≈47'19 26°≈28'23 0°米 19°*H01'26 0°Y 11°Y53'13 16°Y55'56	0.67604 AU 0°26'58 0°26'42 19°52'37 1.44171 AU -2°03'08
evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	4569 Dec 13 04:03 4569 Dec 23 17:53 4569 Dec 28 18:03 4569 Dec 30 05:14 4570 Jan 02 16:09 4570 Jan 03 02:08 4570 Jan 08 10:09 4570 Jan 12 14:56 4570 Jan 21 00:41 4570 Feb 04 21:49 4570 Feb 05 11:34 4570 Feb 20 11:04 4570 Feb 28 05:20 4570 Mar 07 08:40 4570 Mar 14 20:19 4570 Mar 18 22:46 4570 Mar 28 04:32 4570 Apr 01 13:04 4570 Apr 04 16:22	15°る04'39 21°る19'53 19°る15'38 17°る51'10 13°る30'35 12°る56'22 6°る44'01 5°る05'26 9°る57'13 29°る10'10 0°≈ 22°≈39'52 0°米 5°米04'20 16°米58'15 17°米03'39 0°Y 7°Y20'03 23°Y29'34 0°8 3°839'18	0.67991 AU 1°18'06 1°17'27 21°03'10 1.42614 AU -2°07'48 2°07'47	retrograde evening set  asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el  desc. node  morning set max. Earth dist.  superior conj minimum elong evening rise asc. node	4570 Nov 26 23:48 4570 Dec 07 07:51 4570 Dec 12 21:34 4570 Dec 15 22:39 4570 Dec 17 02:16 4570 Dec 17 11:35 4570 Dec 18 10:04 4570 Dec 18 09:25 4570 Dec 23 21:23 4570 Dec 27 13:17 4571 Jan 04 00:46 4571 Jan 09 09:08 4571 Jan 22 18:51 4571 Jan 29 18:20 4571 Jan 30 07:10 4571 Feb 10 15:55  4571 Feb 15 17:53 4571 Feb 17 17:09 4571 Mar 01 01:39 4571 Mar 07 12:20 4571 Mar 15 01:34	0°る 5°る32'10 3°る12'50 30°8* 28°*32'19 28°*30'148 26°*447'20 26°*49'31 20°*447'11 19°*30'03 23°*43'44 0°る 19°る20'20 0°≈ 0°≈49'27 18°≈37'04 26°≈428'23 0°升 19°*H01'26 0°° 11°°¥53'13	0.67604 AU 0°26'58 0°26'42 19°52'37 1.44171 AU -2°03'08 2°02'56

inforior coni	4571 Apr 02 15:02	14° <b>Υ</b> 18'12	2021106		4572 Mar 14 23:59	30° <b>₹</b>	
inferior conj	4571 Apr 03 15:02	$14^{\circ}$ $\gamma$ $15^{\circ}$ $12^{\circ}$	3°31'02	:c:		30 KA 27° <b>¥</b> 27'28	2024100
minimum elong	4571 Apr 03 16:03			inferior conj	4572 Mar 17 04:37		3°34'00
min. Earth dist.	4571 Apr 06 06:19	11° <b>Υ</b> 26'02 8° <b>Υ</b> 11'50	0.63175 AU	minimum elong	4572 Mar 17 04:03	27° <b>)</b> 29'09	3°33'59
morning rise	4571 Apr 09 17:59			min. Earth dist.	4572 Mar 19 04:22	25° <b>)</b> €03'52	0.64959 AU
direct	4571 Apr 16 14:59	5° <b>Y</b> 32'27		morning rise	4572 Mar 22 20:30	21° <b>H</b> 15'21	
desc. node	4571 Apr 20 18:05	6° <b>Y</b> 22'56		direct	4572 Mar 29 13:14	18° <b>∺</b> 25'37	
morning max el	4571 Apr 30 13:07	13° <b>Y</b> 31′13	27°46'47	desc. node	4572 Apr 06 15:08	21° <b>)</b> 37′35	
	4571 May 13 18:53	0°8		morning max el	4572 Apr 11 23:02	26° <b>∺</b> 17'03	27°10'28
	4571 May 31 14:56	$\Pi$ °0			4572 Apr 15 09:43	$0$ ° $\mathbf{\Upsilon}$	
morning set	4571 Jun 03 22:56	6° <b>Ⅱ</b> 32'25			4572 May 06 08:41	$9^{\circ}$ 8	
max. Earth dist.	4571 Jun 09 05:24	17° <b>Ⅱ</b> 26′28	1.32729 AU	morning set	4572 May 17 12:17	20° <b>8</b> 07'53	
asc. node	4571 Jun 11 00:50	21° <b>Ⅱ</b> 18'42		max. Earth dist.	4572 May 22 02:00	29° <b>8</b> 13'50	1.33768 AU
					4572 May 22 11:02	$\Pi$ $\circ 0$	
superior conj	4571 Jun 11 16:11	22° <b>∏</b> 41′29	0°06'42				
minimum elong	4571 Jun 11 15:52	22° <b>Ⅲ</b> 39'44	0°06'36	superior conj	4572 May 25 19:23	6° <b>Ⅱ</b> 57'32	-0°21'44
behind sun begin	4571 Jun 11 11:02	22° <b>Ⅲ</b> 13'41		minimum elong	4572 May 25 20:31	7° <b>Ⅱ</b> 03'31	0°21'30
behind sun end	4571 Jun 11 20:42	23° <b>Ⅲ</b> 05'49		asc. node	4572 May 27 21:53	11° <b>Ⅲ</b> 24'47	
	4571 Jun 15 01:04	0°ಅ		evening rise	4572 Jun 02 02:49	22° <b>Ⅱ</b> 27'49	
evening rise	4571 Jun 18 15:58	7° <b>©</b> 47'37		C	4572 Jun 05 18:56	0ಂತಾ	
<b>3</b>	4571 Jun 30 06:37	$0^{\circ}\Omega$		evening max el	4572 Jun 22 16:32	25°952'50	21°50'58
evening max el	4571 Jul 12 00:15	15° <b>Ω</b> 26'01	23°26'41	overmig man er	4572 Jun 27 23:14	0° <b>U</b>	21 2020
desc. node	4571 Jul 17 17:19	19° <b>Ω</b> 53'53	25 20 .1	desc. node	4572 Jul 03 14:21	2° <b>Ω</b> 00'05	
retrograde	4571 Jul 25 13:42	22°Ω13'35		retrograde	4572 Jul 05 06:32	2° <b>Ω</b> 06'38	
Č	4571 Jul 29 14:10	$21^{\circ}\Omega 38'15$		evening set	4572 Jul 07 00:32 4572 Jul 07 22:29	1° <b>Ω</b> 50'41	
evening set			0.5579( AII	evening set			
min. Earth dist.	4571 Aug 05 09:54		0.55786 AU		4572 Jul 13 03:33	30°Rூ	2045154
inferior conj	4571 Aug 07 09:40	17° <b>Ω</b> 18'08		inferior conj	4572 Jul 17 06:26	27°547'45	
minimum elong	4571 Aug 07 04:03	17° <b>Ω</b> 26'27	4°54'44	minimum elong	4572 Jul 16 21:45	27°959'54	
morning rise	4571 Aug 15 20:21	13° <b>Ω</b> 24'35		min. Earth dist.	4572 Jul 16 20:10	28° <b>©</b> 02'07	0.54906 AU
direct	4571 Aug 18 17:09	13° <b>Ω</b> 04'27		morning rise	4572 Jul 25 22:31	23° <b>©</b> 56'28	
morning max el	4571 Aug 29 04:48	17° <b>Ω</b> 56'43	20°17'43	direct	4572 Jul 29 04:45	23° <b>©</b> 33'08	
asc. node	4571 Sep 07 00:04	29° <b>Ω</b> 18'53		morning max el	4572 Aug 10 07:00	29° <b>©</b> 13'09	21°46'20
	4571 Sep 07 10:06	O°My			4572 Aug 11 02:35	$0^{\circ}\Omega$	
morning set	4571 Sep 16 17:19	17° Mp 33'34		asc. node	4572 Aug 23 21:07	18° <b>Ω</b> 06'53	
	4571 Sep 22 18:38	0∘ <b>⊽</b>			4572 Aug 29 23:24	0° <b>m</b>	
				morning set	4572 Aug 31 02:42	2°M21'26	
aumanian aani							
superior conj	4571 Sep 24 08:17	3° <b>≏</b> 11'15	1°43'11				
minimum elong	4571 Sep 24 08:17 4571 Sep 24 09:00		1°43'11 1°43'10	superior conj	4572 Sep 07 08:16	17° <b>m</b> 36'45	1°42'54
	•			superior conj minimum elong	4572 Sep 07 08:16 4572 Sep 07 07:34	17° m/36'45 17° m/33'04	1°42'54 1°42'53
minimum elong max. Earth dist.	4571 Sep 24 09:00	3° <b>≏</b> 14'50	1°43'10		4572 Sep 07 07:34	17° <b>m</b> 33'04	1°42'53
minimum elong	4571 Sep 24 09:00 4571 Sep 29 15:45	3° <b>♀</b> 14'50 13° <b>♀</b> 39'27 20° <b>♀</b> 55'04	1°43'10	minimum elong	•	17° <b>m</b> 33'04	
minimum elong max. Earth dist.	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39	3° <b>≙</b> 14'50 13° <b>≙</b> 39'27	1°43'10	minimum elong max. Earth dist.	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06	17° m 33′04 25° m 32′52 0° <u>Ω</u>	1°42'53
minimum elong max. Earth dist. evening rise	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36	3° <b>£</b> 14'50 13° <b>£</b> 39'27 20° <b>£</b> 55'04 0° <b>M</b> 8° <b>M</b> 23'12	1°43'10	minimum elong max. Earth dist.	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06	17° m 33'04 25° m 32'52 0° Ω 4° Ω 12'55	1°42'53
minimum elong max. Earth dist. evening rise desc. node	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51	3° <b>±</b> 14'50 13° <b>±</b> 39'27 20° <b>±</b> 55'04 0° <b>M</b> 8° <b>M</b> 23'12	1°43'10 1.36518 AU	minimum elong max. Earth dist.	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37	17° m 33'04 25° m 32'52 0° Ω 4° Ω 12'55 28° Ω 35'34	1°42'53
minimum elong max. Earth dist. evening rise desc. node evening max el	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37	3° <b>⊆</b> 14'50 13° <b>⊆</b> 39'27 20° <b>⊆</b> 55'04 0° <b>M</b> 8° <b>M</b> 23'12 0° <b>♂</b> 12° <b>♂</b> 29'59	1°43'10 1.36518 AU	minimum elong max. Earth dist. evening rise desc. node	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14	17° <b>m</b> 33'04 25° <b>m</b> 32'52 0° <b>Ω</b> 4° <b>Ω</b> 12'55 28° <b>Ω</b> 35'34 0° <b>M</b>	1°42'53 1.34798 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37 4571 Nov 20 17:04	3° № 14'50 13° № 39'27 20° № 55'04 0° M 8° M 23'12 0° ₹ 12° ₹ 29'59 19° ₹ 35'54	1°43'10 1.36518 AU	minimum elong max. Earth dist.	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14 4572 Oct 20 18:11	17° ነ 33'04 25° ነ 32'52 0°	1°42'53 1.34798 AU
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37 4571 Nov 20 17:04 4571 Nov 26 20:29	3° № 14'50 13° № 39'27 20° № 55'04 0° M 8° M 23'12 0° ₹ 12° ₹ 29'59 19° ₹ 35'54 17° ₹ 03'49	1°43'10 1.36518 AU 25°56'00	minimum elong max. Earth dist. evening rise desc. node evening max el	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14 4572 Oct 20 18:11 4572 Oct 25 07:38	17° m 33'04 25° m 32'52 0° Ω 4° Ω 12'55 28° Ω 35'34 0° M 26° M 07'55 0° ⊀	1°42'53 1.34798 AU
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist.	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37 4571 Nov 20 17:04 4571 Nov 26 20:29 4571 Dec 01 03:14	3° \$\Delta 14'50 13° \$\Delta 39'27 20° \$\Delta 55'04 0° \$\mathbb{M}\$. 8° \$\mathbb{M}\$.23'12 0° \$\delta'\$ 12° \$\delta' 29'59 19° \$\delta' 35'54 17° \$\delta' 03'49 12° \$\delta' 27'57	1°43'10 1.36518 AU 25°56'00 0.66864 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14 4572 Oct 20 18:11 4572 Oct 25 07:38 4572 Nov 02 20:57	17° m 33'04 25° m 32'52 0° Ω 4° Ω 12'55 28° Ω 35'34 0° M 26° M 07'55 0° ズ' 3° ズ' 24'24	1°42'53 1.34798 AU
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37 4571 Nov 20 17:04 4571 Nov 26 20:29 4571 Dec 01 03:14 4571 Dec 02 12:53	3° \$\Omega\$ 14'50 13° \$\Omega\$ 39'27 20° \$\Omega\$ 55'04 0° \$\mathbb{M}\$. 8° \$\mathbb{M}\$ 23'12 0° \$\star*\$ 12° \$\tai\$ 29'59 19° \$\tai\$ 35'54 17° \$\tai\$ 03'49 12° \$\tai\$ 27'57 10° \$\tai\$ 42'30	1°43'10 1.36518 AU 25°56'00 0.66864 AU -0°29'27	minimum elong max. Earth dist. evening rise desc. node evening max el	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14 4572 Oct 20 18:11 4572 Oct 25 07:38 4572 Nov 02 20:57 4572 Nov 09 12:49	17° m 33'04 25° m 32'52 0° <u>a</u> 4° <u>a</u> 12'55 28° <u>a</u> 35'34 0° m 26° m 07'55 0° <del>x</del> 3° <del>x</del> 24'24 0° <del>x</del> 44'31	1°42'53 1.34798 AU
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37 4571 Nov 20 17:04 4571 Nov 26 20:29 4571 Dec 01 03:14 4571 Dec 02 12:53 4571 Dec 02 13:39	3° \(\Omega\) 14'50 13° \(\Omega\) 39'27 20° \(\Omega\) 55'04 0° \(\mathbb{M}\) 8° \(\mathbb{M}\) 23'12 0° \(\sigma\) 12° \(\sigma\) 29'59 19° \(\sigma\) 35'54 17° \(\sigma\) 03'49 12° \(\sigma\) 27'57 10° \(\sigma\) 42'30 10° \(\sigma\) 40'03	1°43'10 1.36518 AU 25°56'00 0.66864 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14 4572 Oct 20 18:11 4572 Oct 25 07:38 4572 Nov 02 20:57 4572 Nov 09 12:49 4572 Nov 10 09:36	17° m 33'04 25° m 32'52 0° <u>a</u> 4° <u>a</u> 12'55 28° <u>a</u> 35'34 0° m 26° m 07'55 0° <del>x</del> 3° <del>x</del> 24'24 0° <del>x</del> 44'31 30° R m	1°42'53 1.34798 AU 26°50'21
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37 4571 Nov 20 17:04 4571 Dec 01 03:14 4571 Dec 02 12:53 4571 Dec 02 13:39 4571 Dec 03 23:19	3° \$\Delta 14'50 13° \$\Delta 39'27 20° \$\Delta 55'04 0° \$\mathbb{n}\$ 8° \$\mathbb{n} 23'12 0° \$\delta \) 12° \$\delta 29'59 19° \$\delta 35'54 17° \$\delta 03'49 12° \$\delta 27'57 10° \$\delta 42'30 10° \$\delta 40'03 8° \$\delta 56'25	1°43'10 1.36518 AU 25°56'00 0.66864 AU -0°29'27	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14 4572 Oct 20 18:11 4572 Oct 25 07:38 4572 Nov 02 20:57 4572 Nov 09 12:49 4572 Nov 10 09:36 4572 Nov 13 12:50	17° m 33'04 25° m 32'52 0° <u>a</u> 4° <u>a</u> 12'55 28° <u>a</u> 35'34 0° m 26° m 07'55 0° <del>x</del> 3° <del>x</del> 24'24 0° <del>x</del> 44'31 30° R m 26° m 44'17	1°42'53 1.34798 AU 26°50'21 0.65768 AU
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37 4571 Nov 20 17:04 4571 Nov 26 20:29 4571 Dec 01 03:14 4571 Dec 02 12:53 4571 Dec 02 13:39 4571 Dec 03 23:19 4571 Dec 08 07:16	3° \(\Omega\) 14'50 13° \(\Omega\) 39'27 20° \(\Omega\) 55'04 0° \(\mathbb{m}\) 8° \(\mathbb{m}\) 23'12 0° \(\sigma\) 12° \(\sigma\) 29'59 19° \(\sigma\) 35'54 17° \(\sigma\) 03'49 12° \(\sigma\) 27'57 10° \(\sigma\) 42'30 10° \(\sigma\) 40'03 8° \(\sigma\) 56'25 4° \(\sigma\) 51'16	1°43'10 1.36518 AU 25°56'00 0.66864 AU -0°29'27	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14 4572 Oct 20 18:11 4572 Oct 25 07:38 4572 Nov 02 20:57 4572 Nov 09 12:49 4572 Nov 10 09:36 4572 Nov 13 12:50 4572 Nov 15 10:12	17° m 33'04 25° m 32'52 0° <u>n</u> 4° <u>n</u> 12'55 28° <u>n</u> 35'34 0° m 26° m 07'55 0° <del>x</del> 3° <del>x</del> 24'24 0° <del>x</del> 44'31 30° Rm 26° m 44'17 24° m 32'12	1°42'53 1.34798 AU 26°50'21 0.65768 AU -1°29'50
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37 4571 Nov 20 17:04 4571 Nov 26 20:29 4571 Dec 01 03:14 4571 Dec 02 12:53 4571 Dec 02 13:39 4571 Dec 08 07:16 4571 Dec 11 12:01	3° № 14'50 13° № 39'27 20° № 55'04 0° № 8° № 23'12 0° № 12° № 29'59 19° № 35'54 17° № 03'49 12° № 27'57 10° № 40'03 8° № 56'25 4° № 51'16 3° № 52'41	1°43'10 1.36518 AU 25°56'00 0.66864 AU -0°29'27 0°29'06	minimum elong max. Earth dist.  evening rise desc. node  evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14 4572 Oct 20 18:11 4572 Oct 25 07:38 4572 Nov 02 20:57 4572 Nov 09 12:49 4572 Nov 10 09:36 4572 Nov 13 12:50 4572 Nov 15 10:12 4572 Nov 15 12:44	17° m 33'04 25° m 32'52 0° <u>n</u> 4° <u>n</u> 12'55 28° <u>n</u> 35'34 0° m 26° m 07'55 0° <del>x</del> 3° <del>x</del> 24'24 0° <del>x</del> 44'31 30° m 26° m 44'17 24° m 32'12 24° m 22'50	1°42'53 1.34798 AU 26°50'21 0.65768 AU -1°29'50
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37 4571 Nov 20 17:04 4571 Nov 26 20:29 4571 Dec 01 03:14 4571 Dec 02 12:53 4571 Dec 02 13:39 4571 Dec 03 23:19 4571 Dec 08 07:16 4571 Dec 11 12:01 4571 Dec 18 08:32	3° № 14'50 13° № 39'27 20° № 55'04 0° № 8° № 23'12 0° № 12° № 29'59 19° № 35'54 17° № 03'49 12° № 42'30 10° № 44'03 8° № 56'25 4° № 51'16 3° № 52'41 7° № 39'57	1°43'10 1.36518 AU 25°56'00 0.66864 AU -0°29'27 0°29'06	minimum elong max. Earth dist.  evening rise desc. node  evening max el  retrograde evening set  min. Earth dist. inferior conj  minimum elong asc. node	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14 4572 Oct 20 18:11 4572 Oct 25 07:38 4572 Nov 02 20:57 4572 Nov 09 12:49 4572 Nov 10 09:36 4572 Nov 13 12:50 4572 Nov 15 10:12 4572 Nov 15 12:44 4572 Nov 19 20:21	17° m 33'04 25° m 32'52 0° n 4° n 12'55 28° n 35'34 0° m 26° m 07'55 0° x 3° x 24'24 0° x 44'31 30° k m 26° m 44'17 24° m 32'12 24° m 24'50 19° m 59'53	1°42'53 1.34798 AU 26°50'21 0.65768 AU -1°29'50
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37 4571 Nov 20 17:04 4571 Nov 26 20:29 4571 Dec 01 03:14 4571 Dec 02 12:53 4571 Dec 02 13:39 4571 Dec 03 23:19 4571 Dec 08 07:16 4571 Dec 11 12:01 4571 Dec 18 08:32 4572 Jan 03 09:32	3° № 14'50 13° № 39'27 20° № 55'04 0° № 8° № 23'12 0° № 12° № 29'59 19° № 35'54 17° № 03'49 12° № 27'57 10° № 42'30 10° № 40'03 8° № 56'25 4° № 51'16 3° № 52'41 7° № 39'57 0° ♥	1°43'10 1.36518 AU 25°56'00 0.66864 AU -0°29'27 0°29'06	minimum elong max. Earth dist.  evening rise desc. node  evening max el  retrograde evening set  min. Earth dist. inferior conj  minimum elong asc. node morning rise	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14 4572 Oct 20 18:11 4572 Oct 25 07:38 4572 Nov 02 20:57 4572 Nov 09 12:49 4572 Nov 10 09:36 4572 Nov 13 12:50 4572 Nov 15 10:12 4572 Nov 15 12:44 4572 Nov 19 20:21 4572 Nov 21 13:30	17° m 33'04 25° m 32'52 0° n 4° n 12'55 28° n 35'34 0° m 26° m 07'55 0° x 3° x 24'24 0° x 44'31 30° m 26° m 44'17 24° m 32'12 24° m 22'50 19° m 59'53 18° m 52'32	1°42'53 1.34798 AU 26°50'21 0.65768 AU -1°29'50
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37 4571 Nov 20 17:04 4571 Nov 26 20:29 4571 Dec 01 03:14 4571 Dec 02 12:53 4571 Dec 02 13:39 4571 Dec 03 23:19 4571 Dec 08 07:16 4571 Dec 11 12:01 4571 Dec 18 08:32 4572 Jan 03 09:32 4572 Jan 09 14:30	3°至14'50 13°至39'27 20°至55'04 0°肌 8°肌23'12 0°ズ 12°ズ29'59 19°ズ35'54 17°ズ03'49 12°ズ27'57 10°ズ42'30 10°ズ40'03 8°ズ56'25 4°ズ51'16 3°ズ52'41 7°ズ39'57 0°云 9°石40'38	1°43'10 1.36518 AU 25°56'00 0.66864 AU -0°29'27 0°29'06	minimum elong max. Earth dist.  evening rise desc. node  evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise direct	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14 4572 Oct 20 18:11 4572 Oct 25 07:38 4572 Nov 02 20:57 4572 Nov 09 12:49 4572 Nov 10 09:36 4572 Nov 15 10:12 4572 Nov 15 10:12 4572 Nov 19 20:21 4572 Nov 21 13:30 4572 Nov 24 09:07	17° \$\mathbf{m}\$ 33'04 25° \$\mathbf{m}\$ 32'52 0° \overline{\Omega} 4° \overline{\Omega}\$ 12'55 28° \overline{\Omega}\$ 35'34 0° \$\mathbf{m}\$ 26° \$\mathbf{m}\$ 07'55 0° \narkline{\sigma}\$ 30° \$\mathbf{m}\$ 12'24 0° \narkline{\Sigma}\$ 44'31 30° \$\mathbf{m}\$ 12'2 4° \$\mathbf{m}\$ 43'12 24° \$\mathbf{m}\$ 42'50 19° \$\mathbf{m}\$ 59'53 18° \$\mathbf{m}\$ 52'32 18° \$\mathbf{m}\$ 08'50	1°42'53 1.34798 AU 26°50'21 0.65768 AU -1°29'50 1°28'47
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37 4571 Nov 20 17:04 4571 Nov 26 20:29 4571 Dec 01 03:14 4571 Dec 02 12:53 4571 Dec 02 13:39 4571 Dec 03 23:19 4571 Dec 08 07:16 4571 Dec 11 12:01 4571 Dec 18 08:32 4572 Jan 03 09:32 4572 Jan 09 14:30 4572 Jan 09 15:53	3°至14'50 13°至39'27 20°至55'04 0°肌 8°肌23'12 0°ズ 12°ズ29'59 19°ズ35'54 17°ズ03'49 12°ズ27'57 10°ズ42'30 10°ズ40'03 8°ズ56'25 4°ズ51'16 3°ズ52'41 7°ズ39'57 0°云 9°云40'38 9°云46'02	1°43'10 1.36518 AU 25°56'00 0.66864 AU -0°29'27 0°29'06	minimum elong max. Earth dist.  evening rise desc. node  evening max el  retrograde evening set  min. Earth dist. inferior conj  minimum elong asc. node morning rise	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14 4572 Oct 20 18:11 4572 Oct 25 07:38 4572 Nov 02 20:57 4572 Nov 09 12:49 4572 Nov 10 09:36 4572 Nov 13 12:50 4572 Nov 15 10:12 4572 Nov 15 10:12 4572 Nov 19 20:21 4572 Nov 21 13:30 4572 Nov 24 09:07 4572 Nov 30 21:58	17° \$\mathbf{m}\$33'04 25° \$\mathbf{m}\$32'52 0° \$\oldsymbol{\Oldsymbol{\Oldsymbol{m}}}\$4° \$\oldsymbol{\Oldsymbol{\Oldsymbol{m}}}\$26° \$\mathbf{m}\$07'55 0° \$\oldsymbol{\oldsymbol{\Sigma}}\$30° \$\mathbf{m}\$124'24 0° \$\oldsymbol{\Oldsymbol{m}}\$44'31 30° \$\mathbf{m}\$124'4'31 26° \$\mathbf{m}\$44'17 24° \$\mathbf{m}\$32'12 24° \$\mathbf{m}\$24'50 19° \$\mathbf{m}\$59'53 18° \$\mathbf{m}\$08'50 21° \$\mathbf{m}\$40'37	1°42'53 1.34798 AU 26°50'21 0.65768 AU -1°29'50
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set desc. node	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37 4571 Nov 20 17:04 4571 Nov 26 20:29 4571 Dec 01 03:14 4571 Dec 02 12:53 4571 Dec 02 13:39 4571 Dec 03 23:19 4571 Dec 11 12:01 4571 Dec 18 08:32 4572 Jan 03 09:32 4572 Jan 09 14:30 4572 Jan 09 15:53 4572 Jan 22 14:17	3° \$\times 14'50 13° \$\times 39'27 20° \$\times 55'04 0° \$\times 8° \$\times 23'12 0° \$\times 120' \$\times 29'59 19° \$\times 35'54 17° \$\times 23'49 12° \$\times 27'57 10° \$\times 40'03 8° \$\times 56'25 4° \$\times 51'16 3° \$\times 52'41 7° \$\times 39'57 0° \$\times 9° \$\times 40'38 9° \$\times 46'02 0° \$\infty\$	1°43'10 1.36518 AU 25°56'00 0.66864 AU -0°29'27 0°29'06	minimum elong max. Earth dist.  evening rise desc. node  evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14 4572 Oct 20 18:11 4572 Oct 25 07:38 4572 Nov 02 20:57 4572 Nov 09 12:49 4572 Nov 10 09:36 4572 Nov 13 12:50 4572 Nov 15 10:12 4572 Nov 15 10:12 4572 Nov 19 20:21 4572 Nov 24 09:07 4572 Nov 30 21:58 4572 Dec 07 11:07	17° \$\mathbf{m}\$33'04 25° \$\mathbf{m}\$32'52 0° \overline{O}\$4° \overline{D}\$12'55 28° \overline{D}\$35'34 0° \$\mathbf{m}\$ 26° \$\mathbf{m}\$07'55 0° \overline{\sigma}\$3° \overline{A}'24'24 0° \overline{\sigma}\$44'31 30° \$\mathbf{m}\$ 26° \$\mathbf{m}\$44'17 24° \$\mathbf{m}\$32'12 24° \$\mathbf{m}\$24'50 19° \$\mathbf{m}\$59'53 18° \$\mathbf{m}\$52'32 18° \$\mathbf{m}\$08'50 21° \$\mathbf{m}\$40'37 0° \overline{\sigma}\$	1°42'53 1.34798 AU 26°50'21 0.65768 AU -1°29'50 1°28'47
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37 4571 Nov 20 17:04 4571 Nov 26 20:29 4571 Dec 01 03:14 4571 Dec 02 12:53 4571 Dec 02 13:39 4571 Dec 03 23:19 4571 Dec 08 07:16 4571 Dec 11 12:01 4571 Dec 18 08:32 4572 Jan 03 09:32 4572 Jan 09 14:30 4572 Jan 09 15:53	3° \$\times 14'50 13° \$\times 39'27 20° \$\times 55'04 0° \$\times 8° \$\times 23'12 0° \$\times 120' \$\times 29'59 19° \$\times 35'54 17° \$\times 23'49 12° \$\times 27'57 10° \$\times 40'03 8° \$\times 56'25 4° \$\times 51'16 3° \$\times 52'41 7° \$\times 39'57 0° \$\times 9° \$\times 40'38 9° \$\times 46'02 0° \$\infty\$	1°43'10 1.36518 AU 25°56'00 0.66864 AU -0°29'27 0°29'06	minimum elong max. Earth dist.  evening rise desc. node  evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise direct	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14 4572 Oct 20 18:11 4572 Oct 25 07:38 4572 Nov 02 20:57 4572 Nov 10 09:36 4572 Nov 13 12:50 4572 Nov 15 10:12 4572 Nov 15 10:12 4572 Nov 19 20:21 4572 Nov 21 13:30 4572 Nov 24 09:07 4572 Nov 30 21:58 4572 Dec 07 11:07 4572 Dec 20 01:27	17° \$\mathbf{m}\$ 33'04 25° \$\mathbf{m}\$ 32'52 0° \$\omega\$ 4° \$\omega\$ 12'55 28° \$\omega\$ 35'34 0° \$\mathbf{m}\$ 26° \$\mathbf{m}\$ 07'55 0° \$\struct \text{30'} \struct \text{44'31} 30° \$\mathbf{m}\$ 26° \$\mathbf{m}\$ 44'17 24° \$\mathbf{m}\$ 32'12 24° \$\mathbf{m}\$ 24'50 19° \$\mathbf{m}\$ 52'32 18° \$\mathbf{m}\$ 08'50 21° \$\mathbf{m}\$ 40'37 0° \$\struct \text{30'}\$ 19° \$\struct \text{56'48}	1°42'53 1.34798 AU 26°50'21 0.65768 AU -1°29'50 1°28'47
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set desc. node  max. Earth dist.	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37 4571 Nov 20 17:04 4571 Nov 26 20:29 4571 Dec 01 03:14 4571 Dec 02 12:53 4571 Dec 02 13:39 4571 Dec 03 23:19 4571 Dec 08 07:16 4571 Dec 11 12:01 4571 Dec 18 08:32 4572 Jan 09 14:30 4572 Jan 09 15:53 4572 Jan 22 14:17 4572 Jan 24 08:30	3° \$\times 14'50 13° \$\times 39'27 20° \$\times 55'04 0° \$\times 23'12 0° \$\times 120' \$\times 29'59 19° \$\times 35'54 17° \$\times 03'49 12° \$\times 27'57 10° \$\times 40'03 8° \$\times 56'25 4° \$\times 51'16 3° \$\times 52'41 7° \$\times 39'57 0° \$\times 90 \$\times 46'02 0° \$\imes 2° \$\imes 45'45	1°43'10 1.36518 AU 25°56'00 0.66864 AU -0°29'27 0°29'06 18°56'57	minimum elong max. Earth dist.  evening rise desc. node  evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14 4572 Oct 20 18:11 4572 Oct 25 07:38 4572 Nov 02 20:57 4572 Nov 10 09:36 4572 Nov 11 12:50 4572 Nov 15 10:12 4572 Nov 15 12:44 4572 Nov 19 20:21 4572 Nov 21 13:30 4572 Nov 24 09:07 4572 Nov 30 21:58 4572 Dec 07 11:07 4572 Dec 26 07:14	17° \$\mathbb{m}_33'04 25° \$\mathbb{m}_32'52 0° \omega 4° \omega 12'55 28° \omega 35'34 0° \$\mathbb{m}_4 26° \$\mathbb{m}_07'55 0° \nall 30° \$\mathbb{m}_4 4'31 30° \$\mathbb{m}_44'31 24° \$\mathbb{m}_44'17 24° \$\mathbb{m}_32'12 24° \$\mathbb{m}_42'50 19° \$\mathbb{m}_59'53 18° \$\mathbb{m}_08'50 21° \$\mathbb{m}_40'37 0° \nall 3' 19° \nall 56'48 0° \$\mathred{G}\$	1°42'53 1.34798 AU 26°50'21 0.65768 AU -1°29'50 1°28'47
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set desc. node	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37 4571 Nov 20 17:04 4571 Nov 26 20:29 4571 Dec 01 03:14 4571 Dec 02 12:53 4571 Dec 02 13:39 4571 Dec 03 23:19 4571 Dec 08 07:16 4571 Dec 11 12:01 4571 Dec 18 08:32 4572 Jan 09 14:30 4572 Jan 09 15:53 4572 Jan 22 14:17 4572 Jan 24 08:30	3° \$\times 14'50 13° \$\times 39'27 20° \$\times 55'04 0° \$\times 23'12 0° \$\times 12' \times 29'59 19° \$\times 35'54 17° \$\times 03'49 12° \$\times 27'57 10° \$\times 42'30 10° \$\times 40'03 8° \$\times 56'25 4° \$\times 51'16 3° \$\times 52'41 7° \$\times 39'57 0° \$\times 90 \$\times 46'02 0° \$\times 20' \$\times 45'45 5° \$\times 38'38	1°43'10 1.36518 AU 25°56'00 0.66864 AU -0°29'27 0°29'06 18°56'57	minimum elong max. Earth dist.  evening rise desc. node  evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14 4572 Oct 20 18:11 4572 Oct 25 07:38 4572 Nov 02 20:57 4572 Nov 10 09:36 4572 Nov 13 12:50 4572 Nov 15 10:12 4572 Nov 15 10:12 4572 Nov 19 20:21 4572 Nov 21 13:30 4572 Nov 24 09:07 4572 Nov 30 21:58 4572 Dec 07 11:07 4572 Dec 20 01:27	17° \$\mathbf{m}\$ 33'04 25° \$\mathbf{m}\$ 32'52 0° \$\omega\$ 4° \$\omega\$ 12'55 28° \$\omega\$ 35'34 0° \$\mathbf{m}\$ 26° \$\mathbf{m}\$ 07'55 0° \$\struct \text{30'} \struct \text{44'31} 30° \$\mathbf{m}\$ 26° \$\mathbf{m}\$ 44'17 24° \$\mathbf{m}\$ 32'12 24° \$\mathbf{m}\$ 24'50 19° \$\mathbf{m}\$ 52'32 18° \$\mathbf{m}\$ 08'50 21° \$\mathbf{m}\$ 40'37 0° \$\struct \text{30'}\$ 19° \$\struct \text{56'48}	1°42'53 1.34798 AU 26°50'21 0.65768 AU -1°29'50 1°28'47
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minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set desc. node  max. Earth dist. superior conj	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37 4571 Nov 20 17:04 4571 Nov 26 20:29 4571 Dec 01 03:14 4571 Dec 02 12:53 4571 Dec 02 13:39 4571 Dec 03 23:19 4571 Dec 08 07:16 4571 Dec 11 12:01 4571 Dec 18 08:32 4572 Jan 09 14:30 4572 Jan 09 15:53 4572 Jan 22 14:17 4572 Jan 24 08:30	3° \$\times 14'50 13° \$\times 39'27 20° \$\times 55'04 0° \$\times 23'12 0° \$\times 12' \times 29'59 19° \$\times 35'54 17° \$\times 03'49 12° \$\times 27'57 10° \$\times 42'30 10° \$\times 40'03 8° \$\times 56'25 4° \$\times 51'16 3° \$\times 52'41 7° \$\times 39'57 0° \$\times 90 \$\times 46'02 0° \$\times 20' \$\times 45'45 5° \$\times 38'38	1°43'10 1.36518 AU 25°56'00 0.66864 AU -0°29'27 0°29'06 18°56'57	minimum elong max. Earth dist.  evening rise desc. node  evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14 4572 Oct 20 18:11 4572 Oct 25 07:38 4572 Nov 02 20:57 4572 Nov 10 09:36 4572 Nov 11 12:50 4572 Nov 15 10:12 4572 Nov 15 12:44 4572 Nov 19 20:21 4572 Nov 21 13:30 4572 Nov 24 09:07 4572 Nov 30 21:58 4572 Dec 07 11:07 4572 Dec 26 07:14	17° \$\mathbb{m}_33'04 25° \$\mathbb{m}_32'52 0° \overline{D}_4° \overline{D}_12'55 28° \overline{D}_35'34 0° \$\mathbb{m}_4\$ 26° \$\mathbb{m}_07'55 0° \nall^3 30° \$\mathbb{m}_44'31 30° \$\mathbb{m}_44'31 24° \$\mathbb{m}_44'17 24° \$\mathbb{m}_32'12 24° \$\mathbb{m}_42'50 19° \$\mathbb{m}_59'53 18° \$\mathbb{m}_08'50 21° \$\mathbb{m}_40'37 0° \nall^3 19° \nall^356'48 0° \$\overline{S}\$	1°42'53 1.34798 AU 26°50'21 0.65768 AU -1°29'50 1°28'47
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minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set desc. node  max. Earth dist.  superior conj minimum elong evening rise	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37 4571 Nov 20 17:04 4571 Nov 26 20:29 4571 Dec 01 03:14 4571 Dec 02 12:53 4571 Dec 02 13:39 4571 Dec 03 23:19 4571 Dec 08 07:16 4571 Dec 11 12:01 4571 Dec 18 08:32 4572 Jan 03 09:32 4572 Jan 09 14:30 4572 Jan 09 15:53 4572 Jan 22 14:17 4572 Jan 24 08:30  4572 Jan 26 04:26 4572 Jan 25 19:15 4572 Feb 10 06:09 4572 Feb 10 09:37 4572 Feb 29 22:36	3° £14'50 13° £39'27 20° £55'04 0° M. 8° M.23'12 0° ¾ 12° ¾29'59 19° ¾35'54 17° ¾03'49 12° ¾27'57 10° ¾42'30 10° ¾40'03 8° ¾56'25 4° ¾51'16 3° ¾52'41 7° ¾39'57 0° ♂ 9° ♂40'38 9° ♂40'02 0° ≈ 2° ≈45'45 5° ≈38'38 5° ≈02'28 29° ≈45'53 0° ₭ 29° ₭33'16	1°43'10 1.36518 AU 25°56'00 0.66864 AU -0°29'27 0°29'06 18°56'57	minimum elong max. Earth dist.  evening rise desc. node  evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set  desc. node  superior conj minimum elong	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14 4572 Oct 20 18:11 4572 Oct 25 07:38 4572 Nov 02 20:57 4572 Nov 09 12:49 4572 Nov 10 09:36 4572 Nov 13 12:50 4572 Nov 15 10:12 4572 Nov 15 12:44 4572 Nov 19 20:21 4572 Nov 21 13:30 4572 Nov 24 09:07 4572 Nov 30 21:58 4572 Dec 07 11:07 4572 Dec 26 07:14 4572 Dec 26 12:54  4573 Jan 04 07:12 4573 Jan 04 00:04 4573 Jan 06 03:35	17° № 33'04 25° № 32'52 0° 요 4° 요 12'55 28° 요 35'34 0° M 26° M 07'55 0° ズ 3° ズ 24'24 0° ズ 44'31 30° R M 26° M 44'17 24° M 32'12 24° M 224'50 19° M 59'53 18° M 52'32 18° M 08'50 21° M 40'37 0° ズ 19° ズ 56'48 0° G 0° G 22'38 14° G 15'58 13° G 47'55 17° G 10'14	1°42'53 1.34798 AU 26°50'21 0.65768 AU -1°29'50 1°28'47 18°17'30
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set desc. node  max. Earth dist.  superior conj minimum elong evening rise asc. node	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37 4571 Nov 20 17:04 4571 Nov 26 20:29 4571 Dec 01 03:14 4571 Dec 02 12:53 4571 Dec 02 12:53 4571 Dec 03 23:19 4571 Dec 08 07:16 4571 Dec 11 12:01 4571 Dec 18 08:32 4572 Jan 03 09:32 4572 Jan 09 14:30 4572 Jan 09 15:53 4572 Jan 22 14:17 4572 Jan 24 08:30 4572 Jan 26 04:26 4572 Jan 26 04:26 4572 Feb 10 06:09 4572 Feb 10 09:37 4572 Feb 29 22:36 4572 Mar 01 08:34	3° £14'50 13° £39'27 20° £55'04 0° M. 8° M.23'12 0° ₹ 12° ₹29'59 19° ₹35'54 17° ₹03'49 12° ₹42'30 10° ₹40'03 8° ₹56'25 4° ₹51'16 3° ₹52'41 7° ₹39'57 0° ₹ 9° ₹40'38 9° ₹46'02 0° ≈ 2° ≈45'45 5° ≈38'38 5° ≈02'28 29° ≈45'53 0° 升 29° 升33'16 0° ♥	1°43'10 1.36518 AU 25°56'00 0.66864 AU -0°29'27 0°29'06 18°56'57 1.45089 AU -1°38'52 1°38'01	minimum elong max. Earth dist.  evening rise desc. node  evening max el  retrograde evening set  min. Earth dist. inferior conj  minimum elong asc. node morning rise direct morning max el  morning set  desc. node  superior conj  minimum elong max. Earth dist.	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14 4572 Oct 20 18:11 4572 Oct 25 07:38 4572 Nov 02 20:57 4572 Nov 09 12:49 4572 Nov 10 09:36 4572 Nov 15 10:12 4572 Nov 15 10:12 4572 Nov 15 12:44 4572 Nov 19 20:21 4572 Nov 21 13:30 4572 Nov 24 09:07 4572 Nov 30 21:58 4572 Dec 07 11:07 4572 Dec 20 01:27 4572 Dec 26 12:54 4573 Jan 04 07:12 4573 Jan 04 00:04 4573 Jan 06 03:35 4573 Jan 14 08:22	17° № 33'04 25° № 32'52 0° 요 4° 요 12'55 28° 요 35'34 0° M 26° M 07'55 0° ズ 3° ズ 24'24 0° ズ 44'31 30° R M 26° M 44'17 24° M 32'12 24° M 22'50 19° M 59'53 18° M 52'32 18° M 08'50 21° M 40'37 0° ズ 19° ズ 56'48 0° ℧ 22'38 14° ℧ 15'58 13° ℧ 47'55 17° ℧ 10'14 0° ※	1°42'53 1.34798 AU 26°50'21 0.65768 AU -1°29'50 1°28'47 18°17'30 -0°57'54 0°57'00 1.45277 AU
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set desc. node  max. Earth dist.  superior conj minimum elong evening rise asc. node	4571 Sep 24 09:00 4571 Sep 29 15:45 4571 Oct 03 12:45 4571 Oct 08 15:39 4571 Oct 13 16:36 4571 Oct 28 10:51 4571 Nov 08 05:37 4571 Nov 20 17:04 4571 Nov 26 20:29 4571 Dec 01 03:14 4571 Dec 02 12:53 4571 Dec 02 12:53 4571 Dec 03 23:19 4571 Dec 08 07:16 4571 Dec 11 12:01 4571 Dec 18 08:32 4572 Jan 03 09:32 4572 Jan 09 14:30 4572 Jan 09 15:53 4572 Jan 22 14:17 4572 Jan 24 08:30 4572 Jan 26 04:26 4572 Jan 27 25 19:15 4572 Feb 10 06:09 4572 Feb 10 09:37 4572 Feb 10 08:34 4572 Mar 01 08:34 4572 Mar 01 17:01	3° 14'50 13° 23'27 20° 25'04 0° M. 8° M.23'12 0° 3' 12° 3'29'59 19° 3'35'54 17° 3'03'49 12° 3'27'57 10° 3'42'30 10° 3'40'03 8° 3'56'25 4° 3'51'16 3° 3'52'41 7° 3'39'57 0° 3' 9° 3'40'38 9° 3'46'02 0° 2° 20'28 2° 20'28 29° 245'53 0° 升 29° 升33'16 0° か 0° か 0° か 13' 14'9	1°43'10 1.36518 AU 25°56'00 0.66864 AU -0°29'27 0°29'06 18°56'57 1.45089 AU -1°38'52 1°38'01	minimum elong max. Earth dist.  evening rise desc. node  evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set  desc. node  superior conj minimum elong max. Earth dist.	4572 Sep 07 07:34 4572 Sep 11 04:39 4572 Sep 13 10:06 4572 Sep 15 14:06 4572 Sep 29 13:37 4572 Sep 30 11:14 4572 Oct 20 18:11 4572 Oct 25 07:38 4572 Nov 02 20:57 4572 Nov 09 12:49 4572 Nov 10 09:36 4572 Nov 15 10:12 4572 Nov 15 10:12 4572 Nov 15 12:44 4572 Nov 19 20:21 4572 Nov 21 13:30 4572 Nov 24 09:07 4572 Nov 30 21:58 4572 Dec 07 11:07 4572 Dec 26 07:14 4572 Dec 26 12:54  4573 Jan 04 07:12 4573 Jan 04 00:04 4573 Jan 06 03:35 4573 Jan 14 08:22 4573 Jan 20 11:49	17° № 33'04 25° № 32'52 0° 요 4° 요 12'55 28° 요 35'34 0° M 26° M 07'55 0° ズ 3° ズ 24'24 0° ズ 44'31 30° R M 26° M 44'17 24° M 32'12 24° M 24'50 19° M 59'53 18° M 52'32 18° M 08'50 21° M 40'37 0° ズ 19° ズ 56'48 0° 云 0° 云 22'38 14° 云 15'58 13° 云 47'55 17° 云 10'14 0° ≈ 9° ≈ 36'31	1°42'53 1.34798 AU 26°50'21 0.65768 AU -1°29'50 1°28'47 18°17'30 -0°57'54 0°57'00 1.45277 AU

arraning may al	4573 Feb 13 01:30	120¥52100	10010100	avanina may al	4574 Ion 27 05:12	27% 225!14	20014151
evening max el		13° <b>¥</b> 52'09	19°18'08	evening max el	4574 Jan 27 05:13	27°≈25'14	20-14-51
asc. node	4573 Feb 15 19:38	16° <b>光</b> 17'05		,	4574 Jan 30 02:15	0° <b>)</b> (50142	
retrograde	4573 Feb 20 03:22	17° <b>)</b> € 54'44		asc. node	4574 Feb 02 16:39	1° <b>)</b> € 50'42	
evening set	4573 Feb 23 14:22	16° <b>)</b> 44′49		retrograde	4574 Feb 04 01:27	2° <b>)</b> € 00'47	
inferior conj	4573 Mar 01 02:31	10° <b>米</b> 53′21	3°22'02	evening set	4574 Feb 07 20:49	0° <b>)</b> 36′40	
minimum elong	4573 Mar 01 00:50	10° <b>)</b> 58′50	3°21'47		4574 Feb 08 14:56	30°R≈	
min. Earth dist.	4573 Mar 02 11:05	9° <b>₩</b> 08'03	0.66354 AU	inferior conj	4574 Feb 13 06:00	24° <b>≈</b> 31'48	2°58'29
morning rise	4573 Mar 06 10:59	4° <b>)</b> €39'02		minimum elong	4574 Feb 13 03:41	24° <b>≈</b> 39'38	2°57'58
direct	4573 Mar 12 17:59	1° <b>升</b> 51′50		min. Earth dist.	4574 Feb 14 00:39	23° <b>≈</b> 28′39	0.67331 AU
desc. node	4573 Mar 24 12:09	8° <b>)</b> 31′10		morning rise	4574 Feb 18 10:20	18° <b>≈</b> 17'37	
morning max el	4573 Mar 25 08:53	9° <b>)</b> 22'34	26°06'41	direct	4574 Feb 24 04:23	15° <b>≈</b> 43'24	
	4573 Apr 10 14:36	$0$ ° $\mathbf{\gamma}$		morning max el	4574 Mar 07 17:33	22° <b>≈</b> 37'52	24°45'07
	4573 Apr 28 21:10	0°8		desc. node	4574 Mar 11 09:10	26°≈36'15	
morning set	4573 Apr 30 12:32	3° <b>8</b> 01'02			4574 Mar 14 05:00	0° <b>∀</b>	
max. Earth dist.	4573 May 04 10:58	10° <b>8</b> 29'03	1.35272 AU		4574 Apr 03 22:22	o°Υ	
		O		morning set	4574 Apr 12 18:45	14°Υ58'28	
superior conj	4573 May 09 15:13	20° <b>8</b> 46'50	-0°51'14	max. Earth dist.	4574 Apr 16 09:38	21° <b>Υ</b> 29'33	1.37197 AU
minimum elong	4573 May 09 18:00	21° <b>8</b> 01'00		max. Lartii dist.	4574 Apr 20 22:34	0° <b>8</b>	1.5/17/ AO
minimum clong	•	0° <b>I</b>	0 30 42		43/4 Apr 20 22.34	0.0	
1	4573 May 14 02:40				4574 4 22 00 42	40 0000	1010150
asc. node	4573 May 14 18:55	1° <b>Ⅱ</b> 24'16		superior conj	4574 Apr 23 00:43	4° <b>8</b> 02'06	
evening rise	4573 May 17 10:31	6° <b>∏</b> 53'12		minimum elong	4574 Apr 23 04:59	_	1°19'19
	4573 May 30 04:25	0		evening rise	4574 May 01 12:50	20° <b>8</b> 57'46	
evening max el	4573 Jun 04 19:16	6° <b>©</b> 48'25	20°27'24	asc. node	4574 May 01 15:56	21° <b>8</b> 13'17	
retrograde	4573 Jun 15 19:37	12° <b>©</b> 11'35			4574 May 06 03:43	$\Pi$ $^{\circ}0$	
evening set	4573 Jun 17 19:25	12° <b>©</b> 01'44		evening max el	4574 May 18 10:27	18° <b>Ⅱ</b> 25'32	19°22'11
desc. node	4573 Jun 20 11:23	11° <b>©</b> 20'07		retrograde	4574 May 27 17:10	22° <b>Ⅱ</b> 56'54	
inferior conj	4573 Jun 27 00:22	8° <b>5</b> 04'08	-1°56'03	evening set	4574 May 29 16:36	22° <b>Ⅱ</b> 45'30	
minimum elong	4573 Jun 26 18:56	8°912'02	1°54'05	inferior conj	4574 Jun 07 05:43	18° <b>Ⅲ</b> 38′21	0°01'58
min. Earth dist.	4573 Jun 28 08:05	7° <b>©</b> 18'03	0.54957 AU	minimum elong	4574 Jun 07 05:48	18° <b>Ⅱ</b> 38'13	0°01'55
morning rise	4573 Jul 05 17:28	3°954'18		transit middle	4574 Jun 07 05:48	18° <b>Ⅲ</b> 38'13	0°01'55
direct	4573 Jul 09 14:33	3°521'48		transit begin	4574 Jun 07 01:58	18° <b>∏</b> 44'29	0 0122
morning max el	4573 Jul 23 00:07	9°951'36	23°27'56	transit end	4574 Jun 07 09:38	18° <b>∏</b> 31'56	
morning max cr	4573 Aug 06 18:41	0°Ω	23 27 30	desc. node	4574 Jun 07 08:24	18° <b>I</b> I33'58	
1-	•	7° <b>Ω</b> 23'52				16° <b>Д</b> 53'20	0.55050 ATT
asc. node	4573 Aug 10 18:09			min. Earth dist.	4574 Jun 09 22:16		0.55958 AU
morning set	4573 Aug 15 14:02	17° <b>Ω</b> 14'15		morning rise	4574 Jun 15 16:06	13° <b>Ⅱ</b> 55'32	
	4573 Aug 21 12:30	0° <b>т</b> р		direct	4574 Jun 20 10:52	13° <b>Ⅲ</b> 03′25	
				morning max el	4574 Jul 04 13:44	20° <b>Ⅱ</b> 13'00	25°09'52
superior conj	4573 Aug 22 14:22	2°Mp 19'26	1°36'14		4574 Jul 12 22:32	$0$ $\circ$ $\odot$	
minimum elong	4573 Aug 22 12:40	2° Mp 10'16	1°36'06	asc. node	4574 Jul 28 15:11	27° <b>©</b> 02'01	
max. Earth dist.	4573 Aug 25 02:15	7° <b>m</b> ,39'06	1.33467 AU		4574 Jul 30 01:35	$0 {\circ} \Omega$	
evening rise	4573 Aug 30 04:12	18°Mp06'56		morning set	4574 Jul 31 01:42	2° <b>Ω</b> 06′56	
	4573 Sep 05 09:34	0∘ <b>⊽</b>					
desc. node	4573 Sep 16 10:39	18° <b>≙</b> 24'08		superior conj	4574 Aug 07 00:12	17° <b>Ω</b> 11'34	1°24'08
	4573 Sep 24 18:18	0°M,		minimum elong	4574 Aug 06 21:58	16° <b>Ω</b> 59'19	1°23'51
evening max el	4573 Oct 03 06:13	9°M30'56	27°21'50	max. Earth dist.	4574 Aug 08 07:46	20° <b>Ω</b> 04'02	1.32559 AU
retrograde	4573 Oct 16 19:05	16°M49'23			4574 Aug 12 23:11	0° m	
evening set	4573 Oct 23 20:01	14° <b>M</b> .09'46		evening rise	4574 Aug 14 03:31	2° m) 26'55	
min. Earth dist.	4573 Oct 27 14:17		0.64322 AU		4574 Aug 29 05:43	0∘ <b>⊽</b>	
inferior conj	4573 Oct 29 23:42	8°MJ11'24		desc. node	4574 Sep 03 07:40	7° <b>≏</b> 38'45	
minimum elong	4573 Oct 30 04:04	7° <b>M</b> 59'49		evening max el	4574 Sep 15 15:51		27°24'05
•		2°M46'16	2 30 37	=	-	22 <b>=</b> 20 28 29° <b>⊆</b> 41'22	27 24 03
morning rise	4573 Nov 05 13:24			retrograde	4574 Sep 29 10:24		
asc. node	4573 Nov 06 17:23	2°M23'08		evening set	4574 Oct 06 14:46	27° <b>£</b> 12'46	0.62562.441
direct	4573 Nov 08 02:18	2°M13'27		min. Earth dist.	4574 Oct 10 05:46	24° <b>£</b> 15′58	0.62563 AU
morning max el	4573 Nov 14 14:22	5°M39'02	17°55'02	inferior conj	4574 Oct 13 02:31	21° <b>≏</b> 33'00	
	4573 Nov 30 18:04	0°⊀		minimum elong	4574 Oct 13 08:19	21° <b>≏</b> 19'12	3°31'38
morning set	4573 Dec 01 17:04	1° <b>∡</b> ³37′29		morning rise	4574 Oct 20 03:33	16° <b>≏</b> 25'38	
desc. node	4573 Dec 13 09:55	21° <b>₰</b> 06′20		direct	4574 Oct 22 12:30	16° <b>≙</b> 00'07	
				asc. node	4574 Oct 24 14:25	16° <b>≙</b> 20'17	
superior conj	4573 Dec 14 22:45	23° <b>∡</b> ³35'33	-0°10'39	morning max el	4574 Oct 29 06:42	19° <b>≏</b> 27'33	17°50'20
minimum elong	4573 Dec 14 21:31	23° <b>х</b> ³30′31	0°10'27		4574 Nov 06 00:32	0°M	
behind sun begin	4573 Dec 14 13:40	22° <b>∡</b> ′58'48		morning set	4574 Nov 14 07:24	14°M23'21	
behind sun end	4573 Dec 15 05:22	24° <b>×</b> <sup>7</sup> 02'12		<i>3</i>	4574 Nov 23 04:55	0° <b>⊼</b>	
oomia ban ona	4573 Dec 18 22:46	0°る			.0,	V .C	
max. Earth dist.	4573 Dec 18 22:46 4573 Dec 19 22:13	0 3 1°る33'02	1.44726 AU	superior conj	4574 Nov 25 15:17	4° <b>∡</b> 108′27	0°32'18
evening rise	4573 Dec 31 01:02	18° <b>る</b> 52'36	1.77/20 AU	minimum elong	4574 Nov 25 13:17 4574 Nov 25 18:14	4° <b>₹</b> 20'55	0°31'54
evening rise	7010 DCC 01 U1.U2	10 03230		mmmum elong	7517 NUV 25 10.14	+ x.7033	0 21 24
		0000		daga mada	4574 Nov. 20 06:55	110.752100	
greatest brilliancy	4574 Jan 07 07:57 4574 Jan 14 14:36	0° <b>≈</b> 10° <b>≈</b> 52'07	0.6m	desc. node max. Earth dist.	4574 Nov 30 06:55 4574 Dec 02 14:08	11° <b>х</b> 53′09 15° <b>х</b> 38′06	1.43514 AU

1 idiletal y 1 ileii	omena or mercary	110111 1100 1	mougn 1002	(01), 1150 00101150	. 110 10 100 2023 1	1.22, pa	.50 200
evening rise	4574 Dec 10 11:52	28° <b>∡</b> ¹09'22		minimum elong	4575 Nov 07 13:55	16°MJ15'46	1°04'53
Č	4574 Dec 11 16:27	0°ರ		max. Earth dist.	4575 Nov 15 01:32	29°M10'54	1.41782 AU
	4575 Jan 01 03:22	0° <b>≈</b>			4575 Nov 15 13:17	0°⊀	
evening max el	4575 Jan 10 03:29	10° <b>≈</b> 59'22	21°24'03	desc. node	4575 Nov 17 03:57	2° <b>∡</b> 740'14	
retrograde	4575 Jan 18 23:08	16°≈13'12		evening rise	4575 Nov 20 11:53	8° <b>₹</b> 05'09	
asc. node	4575 Jan 20 13:42	15°≈59'16		evening rise	4575 Dec 04 20:16	0°る	
evening set	4575 Jan 23 04:31	14°≈33'50		evening max el	4575 Dec 23 20:46	24° <b>පි</b> 35'31	22°41'20
inferior conj	4575 Jan 28 12:41	8°≈18'25	2°25'33	evening max er	4575 Dec 31 05:52	0°≈	22 41 20
minimum elong	4575 Jan 28 10:15	8°≈26'51		retrograde	4576 Jan 02 18:50	0°≈28'59	
min. Earth dist.	4575 Jan 28 18:45	7°≈57'24	0.67895 AU	retrograde	4576 Jan 05 04:18	0 ~2037 30°Rる	
morning rise	4575 Feb 02 15:49	7 ≈3724 2°≈06'04	0.07893 AU	evening set	4576 Jan 07 11:51	30 KO 28°る33'37	
morning rise		2 ≈00 04 30°Rる		asc. node	4576 Jan 07 10:43	28° <b>る</b> 35'56	
J:	4575 Feb 06 11:42	30 KO 29° <b>ろ</b> 51'39					1044144
direct	4575 Feb 07 19:21			inferior conj	4576 Jan 12 20:39	22°る10'57	1°44'44
	4575 Feb 09 04:02	0° <b>≈</b>	22016114	minimum elong	4576 Jan 12 18:33	22°る18'13	1°44'00
morning max el	4575 Feb 18 02:27	5°≈58'37	23°16'14	min. Earth dist.	4576 Jan 12 15:12	22° <b>る</b> 29'48	0.68069 AU
desc. node	4575 Feb 26 06:10	15°≈31'54		morning rise	4576 Jan 18 01:08	16° <b>ろ</b> 02'00	
	4575 Mar 08 15:55	0° <b>∺</b>		direct	4576 Jan 22 13:59	14° <b>る</b> 10'24	
morning set	4575 Mar 25 00:49	25° <b>)</b> 43'46		morning max el	4576 Jan 31 15:11	19° <b>る</b> 27'46	21°49'20
	4575 Mar 27 13:14	0° <b>Υ</b>			4576 Feb 09 10:20	0° <b>≈</b>	
max. Earth dist.	4575 Mar 29 04:44	2° <b>Υ'</b> 50'32	1.39367 AU	desc. node	4576 Feb 13 03:12	5° <b>≈</b> 04'03	
					4576 Feb 29 20:39	0° <b>∀</b>	
superior conj	4575 Apr 05 19:55	16° <b>Ƴ</b> 33'17	-1°45'11	morning set	4576 Mar 04 02:20	5° <b>)</b> €07'42	
minimum elong	4575 Apr 06 00:48	16° <b>Ƴ</b> 55'55	1°44'41	max. Earth dist.	4576 Mar 10 03:53	15° <b>∺</b> 01'25	1.41510 AU
	4575 Apr 12 22:04	$0^{\circ}$ 8					
evening rise	4575 Apr 15 06:54	4° <b>8</b> 33'59		superior conj	4576 Mar 17 19:59	28° <b>₩</b> 08'33	-2°02'57
asc. node	4575 Apr 18 12:59	10° <b>8</b> 47'00		minimum elong	4576 Mar 17 23:27	28° <b>)</b> €23'48	2°02'47
	4575 Apr 30 19:32	$\Pi^{\circ}0$			4576 Mar 18 21:16	$0$ ° $\mathbf{\Upsilon}$	
evening max el	4575 May 01 12:02	0° <b>Ⅱ</b> 41'49	18°37'12	evening rise	4576 Mar 28 13:09	17° <b>Ƴ</b> 33'10	
retrograde	4575 May 09 08:47	4° <b>Ⅱ</b> 34'02		asc. node	4576 Apr 04 10:02	29° <b>Ƴ</b> 59'34	
evening set	4575 May 11 14:09	4° <b>Ⅱ</b> 16'33			4576 Apr 04 10:08	0°8	
inferior conj	4575 May 19 07:15	29° <b>8</b> 50'45	1°38'59	evening max el	4576 Apr 13 20:35		18°12'23
minimum elong	4575 May 19 10:28		1°37'58	retrograde	4576 Apr 20 19:16	16° <b>8</b> 58'13	
8	4575 May 19 02:24	30° <b>₹</b> 8	,	evening set	4576 Apr 23 07:19	16° <b>8</b> 31'43	
min. Earth dist.	4575 May 22 15:48		0.57689 AU	inferior conj	4576 Apr 30 06:11	11° <b>8</b> 45'09	2°44'30
desc. node	4575 May 25 05:24	25° <b>8</b> 35'12	0.57005110	minimum elong	4576 Apr 30 09:33	11° <b>8</b> 37'36	2°43'45
morning rise	4575 May 27 03:33	24° <b>8</b> 33'15		min. Earth dist.	4576 May 03 15:12	8° <b>8</b> 45'43	0.59813 AU
direct	4575 Jun 01 21:08	23° <b>8</b> 11'01		morning rise	4576 May 07 09:15	6° <b>8</b> 00'41	0.57015710
direct	4575 Jun 15 10:26	0°Ⅱ		desc. node	4576 May 11 02:26	4° <b>8</b> 24'42	
morning may al		0° <b>П</b> 46'40	26026100	direct			
morning max el	4575 Jun 16 06:04 4575 Jul 06 22:05	0°9	20 30 08	morning max el	4576 May 13 20:13 4576 May 28 04:41	4° <b>8</b> 03'41 11° <b>8</b> 55'19	27022145
morning set	4575 Jul 15 12:08	16°954'43		morning max er	4576 Jun 11 09:16	0° <b>Ⅱ</b>	21 3243
Č							
asc. node	4575 Jul 15 12:14	16°955'16			4576 Jun 28 01:55	0°9	
	4575 Jul 21 12:51	$0$ $\circ$ $\Omega$		morning set	4576 Jun 28 19:32	1°931'18	
	4555 X 1 22 11 40	20.000	1007101	asc. node	4576 Jul 01 09:16	6°557'42	1 21000 177
superior conj	4575 Jul 22 11:49		1°07'21	max. Earth dist.	4576 Jul 05 05:44	15° <b>5</b> 21'09	1.31989 AU
minimum elong	4575 Jul 22 09:32	1° <b>Ω</b> 54'13	1°06'57			_	
max. Earth dist.	4575 Jul 22 18:13		1.32067 AU	superior conj	4576 Jul 05 23:25	16° <b>©</b> 58'32	
evening rise	4575 Jul 29 09:11	17° <b>Ω</b> 04'12		minimum elong	4576 Jul 05 21:32	16°5548'13	0°46'04
	4575 Aug 04 20:10	0° m/y			4576 Jul 11 22:10	$0^{\circ}\Omega$	
desc. node	4575 Aug 21 04:41	26° Mp 05'39		evening rise	4576 Jul 12 18:49	1° <b>Ω</b> 50′19	
	4575 Aug 24 09:23	0∘ <b>⊽</b>			4576 Jul 27 22:57	0° <b>m</b>	
evening max el	4575 Aug 28 20:20	4° <b>≏</b> 41'32	26°53'11	desc. node	4576 Aug 07 01:44	13° <b>m</b> 24'21	
retrograde	4575 Sep 11 17:57	11° <b>≏</b> 51'59		evening max el	4576 Aug 09 17:15	16°№06'39	25°49'56
evening set	4575 Sep 18 16:50	9° <b>£</b> 46'34		retrograde	4576 Aug 23 16:23	23° Mp 13'40	
min. Earth dist.	4575 Sep 22 10:29	7° <b>ഫ</b> 08'27	0.60569 AU	evening set	4576 Aug 29 21:16	21°M/42'16	
inferior conj	4575 Sep 25 15:20	4° <b>£</b> 28'37	-4°27'40	min. Earth dist.	4576 Sep 03 05:28	19° <b>m</b> 06'02	0.58499 AU
minimum elong	4575 Sep 25 21:18	4° <b>≙</b> 16′10	4°26'22	inferior conj	4576 Sep 06 10:31	16° <b>m</b> 47'01	-5°05'22
	4575 Oct 02 07:28	30° <b>₽, ™</b> )		minimum elong	4576 Sep 06 14:03	16° Mp 40'36	5°05'02
morning rise	4575 Oct 03 03:43	29° m/42'29		morning rise	4576 Sep 14 09:06	12°m)24'14	
direct	4575 Oct 05 11:56	29° m) 21'13		direct	4576 Sep 16 19:49	12° <b>m</b> 04'55	
	4575 Oct 08 14:03	0∘ <b>ಹ</b>		morning max el	4576 Sep 25 02:23	16° mp 02'16	18°39'19
asc. node	4575 Oct 11 11:27	1° <b>≏</b> 46'42		asc. node	4576 Sep 27 08:30	18° <b>m</b> ) 27'36	
morning max el	4575 Oct 12 19:50	2° <b>£</b> 58'42	18°04'37		4576 Oct 04 23:11	0° <b>ರ</b>	
morning set	4575 Oct 28 14:16	27° <b>£</b> 56'31		morning set	4576 Oct 11 08:36	12° <b>≏</b> 01'38	
	4575 Oct 29 16:45	0° <b>™</b>			.5,5 500 11 00.50	0130	
	.0,0 000 27 10.70	♥ IIW		superior conj	4576 Oct 20 01:45	28° <b>≏</b> 48'58	1°27'38
superior conj	4575 Nov 07 09:52	15°M57'43	1°05'24	minimum elong	4576 Oct 20 01:43	28° <b>⊆</b> 4838 29° <b>⊆</b> 04'02	
superior conj	TO 10 1404 01 07.32	15 1165/43	1 03 47	mminum clong	7370 OCL 20 04.30	27 -04 02	1 2/1/

description         475 Not vol 30 100         271 Not vol 30 50 50 Poly of Serving role of 475 Not vol 20 50 50 Poly of Serving vol 475 Not vol 20 50 90 Poly of Serving vol 475 Not vol 20 50 90 Poly of Serving vol 475 Not vol 20 50 90 Poly of Serving vol 475 Not vol 20 50 Poly of Serving vol	max. Earth dist.	4576 Oct 20 16:55 4576 Oct 27 07:51 4576 Oct 31 09:44	0°ጤ 11°ጤ59'45 19°ጤ00'22	1.39735 AU	superior conj minimum elong max. Earth dist.	4577 Oct 03 09:30 4577 Oct 03 11:09 4577 Oct 09 12:15	12° <b>£</b> 26'34 12° <b>£</b> 34'39 24° <b>£</b> 09'05	1°39'58 1°39'54 1.37642 AU
contenged         475 Dec 19 1.10         14°54 May         478 Tober 19 1.10         12°54 May         28°75 Dec 19 1.10         12°75 May         28°75 Dec 21 0.71         28°75 May		4576 Nov 07 03:25 4576 Nov 28 03:59	್ರಂ %∾0		•	4577 Oct 13 06:23 4577 Oct 20 22:03	0°M58'03 13°M58'50	
nine flatidist         457 Dec 2 of 149         7-50/23 (0.578 AU)         0.6780 W (0.5780 AU)         457 Dec 10 0.0 (0.5700 AU)         0.6730 AU)	retrograde evening set	4576 Dec 16 11:20 4576 Dec 21 17:15	14°ත්44'09 12°ත්33'02	24°01'16	retrograde	4577 Nov 17 23:04 4577 Nov 29 23:34	21° <b>х</b> 57'14 28° <b>х</b> 53'36	25°17'12
minimal clong comoring rise (array to proving) rise (a	min. Earth dist.	4576 Dec 26 11:40	7° <b>る</b> 02'31		min. Earth dist.	4577 Dec 10 05:51	21° <b>₹</b> ³32'02	
Marce   4577 km   1   1388   30°8,2°   transit begin   4577 be   1 0 615   20°8,1725   transit of   4577 be   1 0 2309   transit of   4577 be	minimum elong	4576 Dec 27 02:44	6° <b>ප</b> 11'30		minimum elong	4577 Dec 11 08:58	20° <b>₹</b> '04'02	0°03'36
Memoring max   Mem	-	4577 Jan 01 13:58	30°₹ <b>⋌</b> ¹		transit begin	4577 Dec 11 06:15	20° <b>∡</b> 12'52	
desc. node		4577 Jan 09 16:21	8°0	20°31'27	asc. node	4577 Dec 11 04:48	20° <b>∡</b> 17'36	
manu	Č	4577 Jan 30 00:14	25° <b>පි</b> 02'39		direct	4577 Dec 20 09:57	12° <b>∡</b> 58′20	19°26'58
Superior of   4577 Feb   26 2007   8°H37728   2°0803   max. Earth dist.   4578 Feb   02 2304   11°≈5475   14464 Al overning ring   4577 Feb   26 1905   8°H33710   2°0803   max. Earth dist.   4578 Feb   02 2304   11°≈5475   14464 Al overning ring   4577 Mar 11 03-21   2°9°H4575   4577 Mar 11 03-21   2°9°H4575   4577 Mar 11 03-22   0°7°V   4578 Feb   06 18-36   17°≈59745   15°4188   2°9°H4575   4577 Mar 28 08-46   26°9°A575   18°0°09   4578 Feb   06 18-36   17°≈59745   15°4188   2°9°H2187   4578 Mar 04 09-20   0°H2187   14°10°10   14°70°10   1	•			1.43343 AU			5°0	-0.7m
minimum elong         4577 Feb 26 19.05         8°H33'10         2°08'03         max. Earth dist.         4578 Feb 02 23.04         11°∞8-315         1.4464 AU           evening rise         4577 Mar 11 0.634         20°P         superior conj         4578 Feb 06 18.45         17°∞85918 -1°55'16           asc. node         4577 Mar 22 0.704         18°P°43'54         18°0709         4578 Feb 06 11.36         0°H           evening set         4577 Apr 03 20.37         29°P°59'16         18°0709         4578 Feb 10 21.05         11°H03'3         1°5448           evening set         4577 Apr 16 14.53         29°P°15'17         3°20'56         asc. node         4578 Mar 04 09.20         0°P°         1°H03'31         1°E20'46         1°E20'46         1°F60'37         1°E20'47         1°E20'46         1°E20'47         1°E20'46         1°E20'46         1°E20'47         1°E20'47         1°E20'46         1°E20'46         1°E20'47         1°E20'		4577 Feb 21 14:12	0° <b>∀</b>					
Asy 77 Mar   1 06.34   0°P'   18.25   17% asy 18   17% asy 18   17% asy 18   17% asy 18   18.21   1	1 3		8° <b>)</b> 33′10		max. Earth dist.			1.44644 AU
Pevening max el   4577 Mar   28   08:46   26°°36'54   18°07'09		4577 Mar 11 06:34	0° <b>Υ</b>					
evening set         4577 Apr 06 14.53         29°Y21'57         set on the correction of inferior conj         4577 Apr 12 23.23         24°P1'1227         3°20'56         acc. node         4578 Mar 09 04.07         6°P5'037         set on the correction of 6°P5'037         6°P5'037         set on the correction of 6°P1'133	evening max el	4577 Mar 28 08:46	26° <b>Ƴ</b> 36'54	18°07'09	C	4578 Feb 14 04:54	0° <b>)</b> €	1°54'48
minimum clong minim	evening set	4577 Apr 06 14:53	29° <b>Y</b> 21'57	2920/57	-	4578 Mar 04 09:20	$0^{\circ}\Upsilon$	
moming rise         4577 Apr 19 10:15         18°V14'26         evening set         4578 Mar 21 08:35         12°V37'39         direct of direct         4577 Apr 27 03:27         7°V1123         3°34'23           desc. node         4577 Apr 10 09:37         15°V55'55'5         minimum clong         4578 Mar 27 06:56         7°V1123         3°34'23           morning max ell         4577 May 10 09:37         23°V36'41         27°52'25         mini. Earth dist.         4578 Apr 02 04:24         1°V02'8         40°81 AU           morning set         4577 Jun 12 12 11:39         15°U50'8         morning rise         4578 Apr 02 04:24         1°V02'8         4578 Apr 03 14:55         30°R)         1°C02'8         4578 Apr 02 04:24         1°V02'8         4578 Apr 03 14:55         30°R)         1°C02'8         4578 Apr 03 14:55         30°R)         4578 Apr 14 20:29         29°H58'01         457	minimum elong	4577 Apr 13 01:23	24° <b>Y</b> 10'20	3°20'41	evening max el	4578 Mar 11 21:29	9° <b>Y</b> 58'20	18°20'46
desc. node         4577 Apr 27 23:27         15°Y5'55'3         minimum elong         4578 Mar 27 06:56         7°Y1'133         3°3422           moming max el         4577 May 10 09:30         23°Y46'41         27°52'5         min. Earth dist.         4578 Mar 27 06:56         7°Y1'133         3°3422         0.63981 AU           morning set         4577 Jun 12 21:59         15°IS'03'4         direct         4578 Apr 03 14:55         30°R*         10°P0'25'8           asc. node         4577 Jun 18 16:620         27°IIA'8'26         1.32330 AU         desc. node         4578 Apr 14 20:29         29°H5'80'1           max. Earth dist         4577 Jun 18 14:23         27°IIA'8'26         1.32330 AU         morning max el         4578 Apr 14 20:29         29°H4'16'1         27°35'05           superior conj         4577 Jun 20 09:16         1°24'118         0°22'03         morning max el         4578 May 10 20:58         0°8'           evening rise         4577 Jun 20 09:16         1°24'118         0°21'03         max. Earth dist         4578 May 27 16:57         29°8'44'19         27°35'05           evening rise         4577 Jun 20 09:16         1°24'118         0°21'03         max. Earth dist         4578 May 10 20:58         0°2         80°8'1           evening max el         4577 Jun 20 09:16 <th< td=""><td>morning rise</td><td>4577 Apr 19 10:15</td><td>18°<b>Ƴ</b>14'26</td><td>0.01994 AU</td><td>evening set</td><td>4578 Mar 21 08:35</td><td>12°<b>Y</b>37'39</td><td>3°34'23</td></th<>	morning rise	4577 Apr 19 10:15	18° <b>Ƴ</b> 14'26	0.01994 AU	evening set	4578 Mar 21 08:35	12° <b>Y</b> 37'39	3°34'23
Morning set   4577 May 15 23:33   0°B   Morning rise   4578 Apr 02 04:24   1°P0258   February 14:70   14:70   15°L50'150'134   Morning set   4577 Jun 12 21:59   15°L50'134   Morning set   4577 Jun 18 16:22   27°L48'26   1.32330 AU   Morning max Earth dist.   4577 Jun 18 16:23   27°L48'26   1.32330 AU   Morning max Earth dist.   4577 Jun 18 14:23   27°L48'26   1.32330 AU   Morning max Earth dist.   4577 Jun 19 14:40   0°B   Morning max Earth dist.   4578 Apr 14 21:57   0°P0   27°35'05	desc. node	4577 Apr 27 23:27	15° <b>Y</b> 55'53	27°52'25	minimum elong	4578 Mar 27 06:56	7° <b>Y</b> 11'33	3°34'22
momning set asc. node         4577 Jun 12 21:59         15° Π50′34 ·	og v.	4577 May 15 23:33	0° <b>8</b>	2, 6226		4578 Apr 02 04:24	1° <b>Y</b> 02'58	0.00,01110
May 10   14:40   0°S   morning max el   4578 Apr 22 18:07   6°Y 14'51   27°35'05	C	4577 Jun 12 21:59				4578 Apr 09 00:30	28° <b>∺</b> 17'06	
superior conj minimum elong         4577 Jun 20 09:16         1°Φ41'18         0°22'03         morning set         4578 May 27 16:57         29°∀44'19            evening rise         4577 Jun 20 08:15         1°Φ35'48         0°21'50         max. Earth dist.         4578 May 27 20:07         0°∏             4578 May 27 20:07         0°∏ <td>max. Earth dist.</td> <td></td> <td>27°<b>Ⅱ</b>48′26</td> <td>1.32330 AU</td> <td>morning max el</td> <td>4578 Apr 14 21:57</td> <td></td> <td>27°35'05</td>	max. Earth dist.		27° <b>Ⅱ</b> 48′26	1.32330 AU	morning max el	4578 Apr 14 21:57		27°35'05
cevening rise   4577 Jun   27   06:24   16°\$38'57   max. Earth dist.   4578 Jun   01   16:07   9°\$\sqrt{151'10}   1.33111 AU     desc. node   4577 Jul   22   07:29   26°\$\alpha 8'13   24°22'27   superior conj   4578 Jun   04   15:29   16°\$\sqrt{108'48}   -0°05'11     desc. node   4577 Jul   24   22:45   29°\$\alpha 07'53   minimum elong   4578 Jun   04   15:44   16°\$\sqrt{101'10}   0°05'08     retrograde   4577 Aug   05   03:52   3°\$\sqrt{178}     behind sun begin   4578 Jun   04   10:37   15°\$\sqrt{142'46}     retrograde   4577 Aug   10   01:21   2°\$\sqrt{10}\$\sqrt{30}\$\sqrt{40}\$\rmathcal{10}\$   asc. node   4578 Jun   04   20:52   16°\$\sqrt{137'36}     retrograde   4577 Aug   15   18:42   30°\$\sqrt{10}\$   30°\$\sqrt{10}\$   asc. node   4578 Jun   10   02:16   0°\$\sqrt{10}\$     minimum elong   4577 Aug   15   18:24   0°\$\sqrt{100}\$\sqrt{100}\$\rmathcal{20}\$\r			1° <b>5</b> 641'18	0°22'03	morning set	4578 May 27 16:57	29° <b>8</b> 44'19	
Sevening max el   4577 Jul   22 07:29   26° Ω48'13   24°22'27   Superior conj   4578 Jun   04 15:29   16° Π08'48   -0°05'11   desc. node   4577 Jul   24 22:45   29° Ω07'53   minimum elong   4578 Jun   04 15:44   16° Π10'10   0°05'08   4577 Jul   26 01:57   0° M   behind sun begin   4578 Jun   04 10:37   15° Π42'46   retrograde   4577 Aug   05 03:52   3° M47'18   behind sun end   4578 Jun   04 20:52   16° Π37'36   evening set   4577 Aug   10 01:21   2° M53'49   asc. node   4578 Jun   05 03:23   17° Π12'31   4577 Aug   15 18:42   30° R Ω   4578 Jun   4578 Jun   11 02:16   0° Φ   4578 Jun   4	•	4577 Jun 27 06:24	16° <b>©</b> 38'57	0°21'50	max. Earth dist.	•		1.33111 AU
Serior	•	4577 Jul 22 07:29	26° <b>Ω</b> 48'13	24°22'27				
evening set		4577 Jul 26 01:57	0° <b>m</b>		behind sun begin	4578 Jun 04 10:37	15° <b>Ⅱ</b> 42'46	0 03 08
min. Earth dist. 4577 Aug 15 18:24 $0^{\circ}$ Mo0'27 0.56631 AU evening rise 4578 Jun 11 18:01 $1^{\circ}$ 23'36 inferior conj 4577 Aug 18 09:36 $28^{\circ}$ $\Omega$ 20'43 -5°12'04 4578 Jun 27 17:28 $0^{\circ}$ $\Omega$ minimum elong 4577 Aug 18 07:36 $28^{\circ}$ $\Omega$ 23'52 $5^{\circ}$ 12'00 evening max el 4578 Jul 03 20:47 $7^{\circ}$ $\Omega$ 11'04 22°45'13 morning rise 4577 Aug 26 16:24 $24^{\circ}$ $\Omega$ 18'50 desc. node 4578 Jul 11 19:45 $12^{\circ}$ $\Omega$ 42'41 direct 4577 Aug 29 08:34 $23^{\circ}$ $\Omega$ 59'40 retrograde 4578 Jul 17 02:38 $13^{\circ}$ $\Omega$ 46'45 morning max el 4577 Sep 09 11:20 $0^{\circ}$ Mo min. Earth dist. 4578 Jul 20 11:33 $13^{\circ}$ $\Omega$ 20'15 asc. node 4577 Sep 14 05:33 $6^{\circ}$ Mo8'04 inferior conj 4578 Jul 29 13:56 $9^{\circ}$ $\Omega$ 10'08 -4°32'16 morning set 4577 Sep 25 10:48 $26^{\circ}$ Mo 28'42 morning rise 4578 Aug 07 03:07 $5^{\circ}$ $\Omega$ 19'26	•	4577 Aug 10 01:21	2° m 53'49			4578 Jun 05 03:23	17° <b>Ⅱ</b> 12'31	
minimum elong         4577 Aug 18 07:36 $28^{\circ}\Omega 23'52$ 5°12'00         evening max el         4578 Jul 03 20:47         7°Ω11'04         22°45'13           morning rise         4577 Aug 26 16:24 $24^{\circ}\Omega 18'50$ desc. node         4578 Jul 11 19:45 $12^{\circ}\Omega 42'41$ 12°Ω42'41           direct         4577 Aug 29 08:34 $23^{\circ}\Omega 59'40$ retrograde         4578 Jul 17 02:38 $13^{\circ}\Omega 46'45$ 13°Ω4'6'45           morning max el         4577 Sep 07 23:08 $28^{\circ}\Omega 28'45$ 19°35'36         evening set         4578 Jul 20 11:33 $13^{\circ}\Omega 21'51$ 0.55302 AU           asc. node         4577 Sep 14 05:33         6° № 0804         inferior conj         4578 Jul 29 13:56         9° Ω10'08 -4° 32'16           morning set         4577 Sep 25 10:48         26° № 28'42         minimum elong         4578 Jul 29 06:17         9° Ω21'07 4° 30'44           4577 Sep 27 04:41         0° №         morning rise         4578 Aug 07 03:07         5° Ω19'26		4577 Aug 15 18:24	0° m 00'27		evening rise	4578 Jun 11 18:01	1° <b>©</b> 23'36	
direct 4577 Aug 29 08:34 23°\$\Omega\$59'40 retrograde 4578 Jul 17 02:38 13°\$\Omega\$46'45 retrograde 4578 Jul 20 11:33 13°\$\Omega\$16'5 retrograde 4578 Jul 20 11:33 13°\$\Omega\$21'51 retrograde 4577 Sep 09 11:20 0°\$\omega\$ mini. Earth dist. 4578 Jul 28 05:00 9°\$\Omega\$57'17 0.55302 AU asc. node 4577 Sep 14 05:33 6°\$\omega\$08'08'04 inferior conj 4578 Jul 29 13:56 9°\$\Omega\$10'08 -4°32'16 morning set 4577 Sep 25 10:48 26°\$\omega\$28'42 minimum elong 4578 Jul 29 06:17 9°\$\Omega\$21'07 4°30'44 4577 Sep 27 04:41 0°\$\omega\$ morning rise 4578 Aug 07 03:07 5°\$\Omega\$19'26	minimum elong	4577 Aug 18 07:36	28° <b>Ω</b> 23'52		•	4578 Jul 03 20:47	7° <b>Ω</b> 11'04	22°45'13
A 577 Sep 09 11:20    0° mp    min. Earth dist.   4578 Jul 28 05:00   9° Ω57'17   0.55302 AU asc. node   4577 Sep 14 05:33   6° mp 08'04   inferior conj   4578 Jul 29 13:56   9° Ω10'08   -4° 32'16   morning set   4577 Sep 25 10:48   26° mp 28'42   minimum elong   4578 Jul 29 06:17   9° Ω21'07   4° 30'44   4577 Sep 27 04:41   0° Ω   morning rise   4578 Aug 07 03:07   5° Ω19'26	direct	4577 Aug 29 08:34	23° <b>Ω</b> 59'40	19°35'36	retrograde	4578 Jul 17 02:38	13° <b>Ω</b> 46'45	
4577 Sep 27 04:41 0° <b>⊆</b> morning rise 4578 Aug 07 03:07 5° <b>Ω</b> 19'26	-	4577 Sep 09 11:20	0° <b>m</b>		min. Earth dist.	4578 Jul 28 05:00	9° <b>Ω</b> 57'17	
41100 TJ/0 Aug 10 VJ.27 T 0LJ022	morning set	•	-		•			4°30'44

morning max el	4578 Aug 21 07:59	10° <b>Ω</b> 10'48	20°53'15	morning max el	4579 Aug 03 05:33	21° <b>5</b> 08'20	22°28'38
asc. node	4578 Sep 01 02:36	24° <b>Ω</b> 34'49			4579 Aug 10 18:16	$0^{\circ}\Omega$	
	4578 Sep 04 02:58	0° <b>m</b> )		asc. node	4579 Aug 18 23:39	13° <b>Ω</b> 36′13	
morning set	4578 Sep 09 18:10	11° <b>m</b> ) 10'48		morning set	4579 Aug 25 04:35	26° <b>Ω</b> 01'17	
S	1	•		Ç	4579 Aug 27 01:44	0° <b>m</b>	
superior conj	4578 Sep 17 04:36	26° m 37'37	1°43'54		1377 Hag 27 01:11	پ <u>ر</u> ا ن	
minimum elong	4578 Sep 17 04:40			superior conj	4579 Sep 01 07:28	11° <b>m</b> )11'01	1940/47
minimum clong	*	0° <b>⊡</b>	1 43 33	minimum elong	•	-	1°40'44
To all the	4578 Sep 18 20:16		1 25740 411	_	4579 Sep 01 06:17	11° Mp 04'44	
max. Earth dist.	4578 Sep 21 20:45	6° <b>₽</b> 01'39	1.35740 AU	max. Earth dist.	4579 Sep 04 13:32	18° Mp 00'10	1.34180 AU
evening rise	4578 Sep 25 22:32	13° <b>≙</b> 50'17		evening rise	4579 Sep 09 05:45	27° <b>m</b> 24'42	
	4578 Oct 05 02:46	0° <b>M</b>			4579 Sep 10 13:50	0∘ <b>ত</b>	
desc. node	4578 Oct 07 19:04	4°M21'31		desc. node	4579 Sep 24 16:04	24° <b>£</b> 24'43	
	4578 Oct 26 04:36	0° <b>∡</b> ¹			4579 Sep 28 09:15	$0^{\circ}$ M	
evening max el	4578 Oct 31 11:46	5° <b>∡</b> ¹40'04	26°21'38	evening max el	4579 Oct 14 00:28	19° <b>™</b> 13'40	27°07'05
retrograde	4578 Nov 13 06:41	12° <b>∡</b> 751'49		retrograde	4579 Oct 27 07:56	26°M31'01	
evening set	4578 Nov 19 15:28	10° <b>√</b> 15'58		evening set	4579 Nov 03 04:12	23°M50'21	
min. Earth dist.	4578 Nov 23 19:21	5° <b>₹</b> '54'58	0.66434 AU	min. Earth dist.	4579 Nov 07 01:44	20°M04'54	0.65195 AU
inferior conj	4578 Nov 25 09:49	3° <b>х</b> 757'44		inferior conj	4579 Nov 09 04:07	17° <b>M</b> 43'37	
minimum elong	4578 Nov 25 11:19	3°×753'12		minimum elong	4579 Nov 09 07:26	17°M34'19	
_	4578 Nov 28 01:49	0° <b>₹</b> 52'30	0 33 39	asc. node	4579 Nov 14 22:50		1 34 31
asc. node						12°M26'11	
	4578 Nov 28 22:46	30°RM.		morning rise	4579 Nov 15 11:39	12°M09'32	
morning rise	4578 Dec 01 07:45	28° <b>M</b> ₊10'47		direct	4579 Nov 18 04:13	11°M30'46	
direct	4578 Dec 04 08:21	27°M18'57		morning max el	4579 Nov 24 15:44	14°M58'39	18°05'51
	4578 Dec 09 23:52	0° <b>⊼</b>			4579 Dec 05 10:23	0° <b>⊼</b> ¹	
morning max el	4578 Dec 11 00:46	0° <b>∡</b> 758'38	18°38'07	morning set	4579 Dec 12 19:34	12° <b>∡</b> ¹06'56	
	4578 Dec 31 01:29	0°ರ		desc. node	4579 Dec 21 15:20	26° <b>₹</b> 31'14	
morning set	4578 Dec 31 19:55	1°る12'58			4579 Dec 23 19:19	0° <b>ට</b>	
desc. node	4579 Jan 03 18:19	5° <b>る</b> 51'19					
				superior conj	4579 Dec 27 05:28	5° <b>る</b> 27'13	-0°37'56
superior conj	4579 Jan 16 23:41	26° <b>ප</b> 38'50	-1°23'03	minimum elong	4579 Dec 27 00:45	5° <b>る</b> 08'30	0°37'16
minimum elong	4579 Jan 16 14:31	26° <b>පි</b> 02'53		max. Earth dist.	4579 Dec 30 12:42	10°る40'04	1.45136 AU
max. Earth dist.	4579 Jan 16 16:58	26° <b>ප</b> 12'28	1.45264 AU	max. Lartii dist.	4580 Jan 11 22:21	0°≈	1.43130710
max. Lattii dist.	4579 Jan 19 02:57	0°≈	1.43204 AO	evening rise	4580 Jan 12 13:02	0 <b>~</b> 0° <b>≈</b> 56'51	
				•			0.7
evening rise	4579 Feb 01 15:39	21°≈24'13		greatest brilliancy	4580 Jan 25 16:21	21°≈04'30	-0.7m
	4579 Feb 07 00:44	0° <b>∺</b>			4580 Jan 31 21:07	0° <b>)</b> (50122	10040100
greatest brilliancy	4579 Feb 09 20:36	4° <b>)</b> €29'57		evening max el	4580 Feb 06 14:53	6° <b>¥</b> 59'23	19°40'29
evening max el	4579 Feb 23 08:13	23° <b>∺</b> 27'22	18°52'19	asc. node	4580 Feb 10 22:08	10° <b>)</b> 24′51	
asc. node	4579 Feb 24 01:08	24° <b>)</b> €08'48		retrograde	4580 Feb 13 23:38	11° <b>)</b> 14'44	
retrograde	4579 Mar 02 02:15	27° <b>∺</b> 14'08		evening set	4580 Feb 17 14:07	9° <b>升</b> 58'41	
evening set	4579 Mar 05 09:10	26° <b>₩</b> 11'52		inferior conj	4580 Feb 23 00:43	4° <b>₩</b> 01'08	3°13'17
inferior conj	4579 Mar 11 00:07	20° <b>∺</b> 29'28	3°30'28	minimum elong	4580 Feb 22 22:42	4° <b>)</b> €07'47	3°12'56
minimum elong	4579 Mar 10 23:01	20° <b>)</b> 32′53	3°30'22	min. Earth dist.	4580 Feb 24 03:06	2° <b>)</b> 33′52	0.66826 AU
min. Earth dist.	4579 Mar 12 17:21	18° <b>∺</b> 21'19	0.65616 AU		4580 Feb 26 04:10	30°R≈	
morning rise	4579 Mar 16 12:28	14° <b>₩</b> 16'17		morning rise	4580 Feb 28 07:05	27° <b>≈</b> 46'52	
direct	4579 Mar 23 01:46	11° <b>∺</b> 25'59		direct	4580 Mar 05 08:52	25°≈04'22	
desc. node	4579 Apr 01 17:32	15° <b>)</b> 58'37			4580 Mar 15 02:15	0° <b>)</b> €	
morning max el	4579 Apr 05 04:01	19° <b>₩</b> 09'47	26°45'58	morning max el	4580 Mar 17 13:24	2° <b>₩</b> 20'37	25°33'36
	4579 Apr 14 08:56	0° <b>Υ</b>	20 .000	desc. node	4580 Mar 18 14:33	3° <b>\</b> 25'39	
	4579 May 03 21:31	0°8		uese. Houe		3 π2339 0° <b>Υ</b>	
					4580 Apr 07 12:22		
morning set	4579 May 11 01:13	13° <b>8</b> 02'56	1 2 12 50 1 1 1	morning set	4580 Apr 22 18:33	25° <b>Y</b> 34'41	
max. Earth dist.	4579 May 15 07:44	21° <b>8</b> 23'17	1.34358 AU		4580 Apr 25 04:07	0° <b>8</b>	
				max. Earth dist.	4580 Apr 26 12:16	2° <b>8</b> 31'11	1.36053 AU
superior conj	4579 May 19 15:53	0° <b>Ⅱ</b> 14′26					
minimum elong	4579 May 19 17:42	0° <b>Ⅲ</b> 23'55	0°33'50	superior conj	4580 May 02 07:48	13° <b>8</b> 51'00	-1°03'38
	4579 May 19 13:06	$\Pi$ $^{\circ}0$		minimum elong	4580 May 02 11:16	14° <b>8</b> 08'20	1°03'02
asc. node	4579 May 23 00:25	7° <b>Ⅱ</b> 16′13		asc. node	4580 May 08 21:27	27° <b>8</b> 12'13	
evening rise	4579 May 27 03:46	15° <b>Ⅱ</b> 58′08		evening rise	4580 May 10 09:34	0° <b>Ⅱ</b> 16′25	
	4579 Jun 03 06:05	0ංම			4580 May 10 06:20	$\Pi^{\circ}0$	
evening max el	4579 Jun 15 17:02	17°9547'31	21°13'23	evening max el	4580 May 28 01:07	29° <b>Ⅱ</b> 00′38	19°57'08
retrograde	4579 Jun 27 15:54	23°5940'19		<b>5</b>	4580 May 29 02:42	0 - -	
desc. node	4579 Jun 28 16:46	23°937'48		retrograde	4580 Jun 07 07:16	4°901'06	
evening set	4579 Jun 29 22:52	23°\$28'10		evening set	4580 Jun 09 05:41	3°951'12	
inferior conj	4579 Jul 09 07:37	19° <b>5</b> 29'50	-3°02'34	desc. node	4580 Jun 14 13:47	1°955'42	
·				uese. Houe			
minimum elong	4579 Jul 08 23:38	19°541'01	3°00'00	:£:	4580 Jun 17 22:46	30°RⅡ 20°Ⅲ50142	1904/52
min. Earth dist.	4579 Jul 09 15:40	19°518'32	0.54810 AU	inferior conj	4580 Jun 18 04:54	29° <b>∏</b> 50'42	
morning rise	4579 Jul 18 00:52	15°533'12		minimum elong	4580 Jun 18 01:53	29° <b>∏</b> 55'16	
direct	4579 Jul 21 12:55	15° <b>©</b> 06'45		min. Earth dist.	4580 Jun 20 04:09	28° <b>∐</b> 39'14	0.55278 AU

		_					
morning rise	4580 Jun 26 20:16	25° <b>Ⅱ</b> 28'22		desc. node	4581 Jun 01 10:49	8° <b>Ⅱ</b> 48'00	
direct	4580 Jul 01 01:55	24° <b>∏</b> 49'08		min. Earth dist.	4581 Jun 01 19:44	8° <b>Ⅱ</b> 32'57	0.56621 AU
	4580 Jul 13 01:00	$0$ $\circ$ $\odot$		morning rise	4581 Jun 06 23:24	5° <b>∏</b> 41'49	
morning max el	4580 Jul 14 20:25	1° <b>©</b> 36'39	24°12'15	direct	4581 Jun 12 03:50	4° <b>Ⅲ</b> 38′10	
	4580 Aug 03 07:20	$0^{\circ}\Omega$		morning max el	4581 Jun 26 10:51	12° <b>Ⅱ</b> 00'49	25°49'23
asc. node	4580 Aug 04 20:42	3° <b>Ω</b> 03′28		Č	4581 Jul 10 09:12	0ಂಣ	
morning set	4580 Aug 08 16:18	10° <b>Ω</b> 55'12		asc. node	4581 Jul 22 17:44	22°5548'36	
morning sec	ibooring oo rono	10 000012		morning set	4581 Jul 24 03:39	25°5946'26	
superior conj	4580 Aug 15 15:26	25° <b>Ω</b> 58'47	1°31'43	morning sec	4581 Jul 26 03:02	0° <b>Ω</b>	
minimum elong	4580 Aug 15 13:27	25°Ω48'00	1°31'31		4301 Jul 20 03.02	0 82	
Č	Č				4501 1 1 21 02 17	100 0 52150	1017124
max. Earth dist.	4580 Aug 17 15:01	0° <b>m</b> 15'45	1.33030 AU	superior conj	4581 Jul 31 02:17	10° <b>Ω</b> 52'59	
	4580 Aug 17 12:05	0° <b>m</b> y		minimum elong	4581 Jul 30 23:58	10° <b>Ω</b> 40'15	1°17'13
evening rise	4580 Aug 23 00:12	11° <b>m</b> 30'59		max. Earth dist.	4581 Jul 31 22:58	12° <b>Ω</b> 46'37	1.32298 AU
	4580 Sep 01 19:53	0∘ <b>⊽</b>		evening rise	4581 Aug 07 02:32	25° <b>Ω</b> 58'53	
desc. node	4580 Sep 10 13:05	14° <b>≏</b> 00′18			4581 Aug 09 01:33	0° <b>m</b> ⁄	
	4580 Sep 23 01:24	0° <b>M</b> .			4581 Aug 26 07:59	0∘ <b>ত</b>	
evening max el	4580 Sep 25 11:42	2°M26'07	27°26'35	desc. node	4581 Aug 28 10:07	2° <b>≏</b> 56'28	
retrograde	4580 Oct 09 03:00	9° <b>™</b> 43'04		evening max el	4581 Sep 07 19:13	15° <b>≏</b> 04'37	27°14'57
evening set	4580 Oct 16 06:31	7°M06'28		retrograde	4581 Sep 21 15:25	22° <b>£</b> 18′22	_, _,,
min. Earth dist.	4580 Oct 19 22:54	3°M54'04	0.63615 AU	evening set	4581 Sep 28 18:46	19° <b>£</b> 57'45	
		1°M 15'47		min. Earth dist.	4581 Oct 02 09:41	17° <b>⊆</b> 10'48	0.61734 AU
inferior conj	4580 Oct 22 13:25						
minimum elong	4580 Oct 22 18:29	1°M02'56	2°56′50	inferior conj	4581 Oct 05 10:40	14° <b>£</b> 26'52	
	4580 Oct 23 19:44	30°Ŗ <b>죠</b>		minimum elong	4581 Oct 05 16:47	14° <b>≏</b> 13'07	3°56'06
morning rise	4580 Oct 29 07:53	25° <b>≏</b> 57'59		morning rise	4581 Oct 12 16:39	9° <b>≏</b> 28'31	
direct	4580 Oct 31 18:51	25° <b>≏</b> 28'37		direct	4581 Oct 15 00:48	9° <b>≏</b> 05'15	
asc. node	4580 Oct 31 19:53	25° <b>≏</b> 28'38		asc. node	4581 Oct 18 16:56	10° <b>≙</b> 04'44	
morning max el	4580 Nov 07 08:29	28° <b>♀</b> 53'35	17°50'50	morning max el	4581 Oct 21 23:56	12° <b>≏</b> 35'53	17°54'03
	4580 Nov 08 09:42	0° <b>M</b>			4581 Nov 02 17:03	0°M	
morning set	4580 Nov 23 21:34	24° <b>™</b> 17'12		morning set	4581 Nov 06 19:37	7°M24'42	
	4580 Nov 27 05:03	0° <b>×</b> 7				,	
	43001107 27 03.03	0 %		superior conj	4581 Nov 17 10:51	26°M22'11	0°47'41
aumorior comi	4590 Day 06 06:40	150.715124	0000125				
superior conj	4580 Dec 06 06:49	15° <b>₹</b> 15'34	0°08'35	minimum elong	4581 Nov 17 14:36	26°M38'22	0°47'10
minimum elong	4580 Dec 06 07:45	15° <b>√</b> 19'22	0°08'28		4581 Nov 19 13:40	0° <b>∡</b> 7	
behind sun begin	4580 Dec 05 23:26	14° <b>₹</b> 45'10		desc. node	4581 Nov 24 09:22	8° <b>≯</b> 03'42	
behind sun end	4580 Dec 06 16:04	15° <b>≯</b> 53'30		max. Earth dist.	4581 Nov 24 20:26	8° <b>₰</b> ⁴49'06	1.42821 AU
desc. node	4580 Dec 07 12:20	17° <b>∡</b> 16′24		evening rise	4581 Dec 01 13:53	19° <b>∡</b> ³36′28	
max. Earth dist.	4580 Dec 12 06:42	24° <b>₹</b> 57'51	1.44285 AU		4581 Dec 08 07:41	0°ප	
	4580 Dec 15 10:57	0°る			4581 Dec 29 19:17	0° <b>≈</b>	
evening rise	4580 Dec 21 23:08	10°る07'38		evening max el	4582 Jan 02 12:05	4°≈06'27	21°56'16
S	4581 Jan 04 03:41	0° <b>≈</b>		retrograde	4582 Jan 11 19:02	9° <b>≈</b> 37'59	
evening max el	4581 Jan 19 16:11	20° <b>≈</b> 32'07	20°42'58	asc. node	4582 Jan 14 16:12	8° <b>≈</b> 53'33	
retrograde	4581 Jan 27 21:52	25°≈23'48	20 .200	evening set	4582 Jan 16 05:03	7°≈51'57	
asc. node	4581 Jan 27 19:10	25°≈23'44		inferior conj	4582 Jan 21 13:18	1°≈32'48	2°09'10
				-			
evening set	4581 Jan 31 21:19	23°≈53'09	2045124	minimum elong	4582 Jan 21 10:57	1°≈40'57	2°08'25
inferior conj	4581 Feb 06 05:49	17° <b>≈</b> 43'08	2°45'34	min. Earth dist.	4582 Jan 21 14:22	1° <b>≈</b> 29'03	0.68005 AU
minimum elong	4581 Feb 06 03:24	17° <b>≈</b> 51'27	2°44'57		4582 Jan 22 16:11	30°Rる	
min. Earth dist.	4581 Feb 06 18:52	16° <b>≈</b> 58′21	0.67614 AU	morning rise	4582 Jan 26 16:40	25° <b>る</b> 21'27	
morning rise	4581 Feb 11 09:18	11° <b>≈</b> 29'31		direct	4582 Jan 31 13:50	23° <b>る</b> 16'35	
direct	4581 Feb 16 21:08	9° <b>≈</b> 03'26		morning max el	4582 Feb 10 08:11	29° <b>る</b> 02'56	22°38'35
morning max el	4581 Feb 27 22:03	15° <b>≈</b> 38'50	24°07'45		4582 Feb 11 06:19	0° <b>≈</b>	
desc. node	4581 Mar 05 11:34	21° <b>≈</b> 54'09		desc. node	4582 Feb 20 08:35	11° <b>≈</b> 06'48	
	4581 Mar 11 17:19	0° <b>∀</b>			4582 Mar 05 11:28	0° <b>∀</b>	
	4581 Mar 31 11:23	0° <b>Υ</b>		morning set	4582 Mar 16 09:33	17° <b>)</b> 14'59	
morning set	4581 Apr 04 15:17	7° <b>Υ</b> '03'36		max. Earth dist.	4582 Mar 21 04:28	25° <b>H</b> 15'36	1.40292 AU
max. Earth dist.	4581 Apr 08 08:48	13° <b>Υ</b> '37'24	1.38101 AU	max. Larm dist.	4582 Mar 23 22:29	25 <b>γ</b> 15 50	1.402)2 AU
max. Earm dist.	4361 Apr 06 06.46	13 13/24	1.38101 AU		4362 Wai 23 22.29	0 1	
	4501 A 15 11 15	0.0000.40100	1021116		4500 14 00 00 05	00000	1052155
superior conj	4581 Apr 15 11:45	26° <b>Y</b> 48'39		superior conj	4582 Mar 28 23:27	8° <b>Y</b> 57′26	
minimum elong	4581 Apr 15 16:27	27° <b>Y</b> °11′04	1°30'40	minimum elong	4582 Mar 29 04:04	9° <b>Y</b> 18′20	1°53'33
	4581 Apr 17 03:35	0°8		evening rise	4582 Apr 07 22:22	27° <b>Y</b> 31'45	
evening rise	4581 Apr 24 08:49	14° <b>8</b> 10'14			4582 Apr 09 05:44	$9^{\circ}$ 8	
asc. node	4581 Apr 25 18:29	16° <b>8</b> 55'23		asc. node	4582 Apr 12 15:31	6° <b>8</b> 20'50	
	4581 May 02 20:17	$\Pi$ $^{\circ}0$		evening max el	4582 Apr 24 02:05	23° <b>8</b> 25'38	18°24'14
evening max el	4581 May 10 21:02	10° <b>Ⅱ</b> 55'00	19°00'31	retrograde	4582 May 01 12:03	27° <b>8</b> 06'08	
retrograde	4581 May 19 12:18	15° <b>Ⅱ</b> 08'18		evening set	4582 May 03 20:14	26° <b>8</b> 45'11	
evening set	4581 May 21 13:41	14° <b>∏</b> 54'53		inferior conj	4582 May 11 05:14	22° <b>8</b> 10'58	2°10'35
inferior conj	4581 May 29 18:22	14 <b>Ⅲ</b> 3433	0°46'40	minimum elong	4582 May 11 03:14 4582 May 11 08:48	22° <b>8</b> 03'39	2°09'34
,	-			· ·	•		
minimum elong	4581 May 29 20:11	10° <b>Ⅱ</b> 37'05	0°46'01	min. Earth dist.	4582 May 14 15:46	19° <b>8</b> 23'38	0.58567 AU

morning rise	4582 May 18 18:17	16° <b>8</b> 40'30			4583 Apr 28 06:27	30° <b>₹</b> Υ	
desc. node	4582 May 19 07:50	16° <b>8</b> 23'29		morning rise	4583 Apr 30 08:17	28° <b>Υ</b> 28'32	
direct	4582 May 24 20:17	15° <b>8</b> 03'11		desc. node	4583 May 06 04:51	26° <b>Υ</b> 19'19	
morning max el	4582 Jun 08 05:40	22° <b>8</b> 47'27	27004116	direct	4583 May 07 00:24	26° <b>Υ</b> 17'25	
morning max er		22 <b>Ο</b> 4727 0° <b>Π</b>	27 04 10	direct	4583 May 16 10:10	0° <b>8</b>	
	4582 Jun 14 15:31				•		27045144
	4582 Jul 03 08:22	0.20		morning max el	4583 May 21 06:48	4° <b>8</b> 12'54	27°45'44
morning set	4582 Jul 08 13:01	10°529'51			4583 Jun 09 08:58	0°II	
asc. node	4582 Jul 09 14:47	12° <b>©</b> 46'04		morning set	4583 Jun 22 18:36	24° <b>Ⅱ</b> 59'53	
					4583 Jun 25 03:52	0° <b>©</b>	
superior conj	4582 Jul 15 14:08	25° <b>©</b> 47'24	0°58'58	asc. node	4583 Jun 26 11:51	2° <b>9</b> 51'07	
minimum elong	4582 Jul 15 11:58	25° <b>©</b> 35'26	0°58'33	max. Earth dist.	4583 Jun 28 20:54	8° <b>©</b> 00'56	1.32083 AU
max. Earth dist.	4582 Jul 15 10:07	25° <b>©</b> 25'17	1.31984 AU				
	4582 Jul 17 11:54	$0$ $^{\circ}$ $\Omega$		superior conj	4583 Jun 30 01:14	10°936'20	0°36'31
evening rise	4582 Jul 22 10:10	10° <b>Ω</b> 40'33		minimum elong	4583 Jun 29 23:41	10° <b>5</b> 27'46	0°36'11
	4582 Aug 01 07:41	0° <b>m</b> y		evening rise	4583 Jul 06 20:55	25° <b>©</b> 29'00	
desc. node	4582 Aug 15 07:09	20° M 56'58			4583 Jul 09 00:31	$0^{\circ}\Omega$	
evening max el	4582 Aug 20 20:38	26° ₩ 58'35	26°29'55		4583 Jul 26 12:55	0° <b>m</b> y	
	4582 Aug 24 09:54	0∘ <b>ত</b>		desc. node	4583 Aug 02 04:10	7° <b>m</b> , 39′26	
retrograde	4582 Sep 03 19:35	4° <b>£</b> 08'03		evening max el	4583 Aug 02 14:41	8° <b>m</b> 04'54	25°15'01
evening set	4582 Sep 10 12:13	2° <b>£</b> 16'13		retrograde	4583 Aug 16 13:28	15° <b>m</b> 08'49	
	4582 Sep 14 00:01	30°R, Mp		evening set	4583 Aug 22 06:21	13° <b>m</b> 54'07	
min. Earth dist.	4582 Sep 14 10:15	29° m 40'54	0.59678 AU	min. Earth dist.	4583 Aug 27 02:24	11° mp 12'35	0.57663 AU
inferior conj	4582 Sep 17 16:24	27° m 07'36		inferior conj	4583 Aug 30 03:19	9° <b>m</b> 08'35	
minimum elong	4582 Sep 17 21:43	26° m 57'06		minimum elong	4583 Aug 30 04:49	9° <b>m</b> ) 06'00	
morning rise	4582 Sep 25 09:20	22° m/31'13		morning rise	4583 Sep 07 05:36	4° m/54'56	
direct	4582 Sep 27 18:01	22° mp 11'11		direct	4583 Sep 09 18:24	4° <b>m</b> ) 35'47	
morning max el	4582 Oct 05 10:41	25° m 56'15	18°16'46	morning max el	4583 Sep 18 13:24		19°00'29
asc. node	4582 Oct 05 10:41 4582 Oct 05 14:00	26° Mp 04'19	16 10 40	asc. node	4583 Sep 18 13:24 4583 Sep 22 11:03	13° My 12'37	19 00 29
asc. Houc	4582 Oct 08 22:57	0° <b>ي</b>		asc. Houc	4583 Oct 02 10:42	0∘ <b>⊽</b>	
mamina aat	4582 Oct 21 07:54	0 <b>=</b> 21° <b>£</b> 12'31		morning set	4583 Oct 02 10:42 4583 Oct 05 06:02	0 <b>=</b> 5° <b>£</b> 28'41	
morning set	4582 Oct 25 23:10	0°M		morning set	4383 Oct 03 00.02	3 = 2641	
	4382 Oct 23 23.10	O IIG		aumariar aani	4592 Oct. 12 14:26	21° <b>≏</b> 52'05	1°33'58
:	4502 O-+ 20 15:00	00 <b>m</b> 20100	1°16'06	superior conj	4583 Oct 13 14:26	21 <b>≥</b> 32 03 22° <b>♀</b> 04'28	1°33'47
superior conj	4582 Oct 30 15:08	8°M39'09		minimum elong	4583 Oct 13 17:01		1 33 47
minimum elong	4582 Oct 30 18:59	8°M56'43	1°15'41	E 4 E 4	4583 Oct 17 22:10	0°M	1 20042 411
max. Earth dist.	4582 Nov 07 05:05	22°M01'47	1.40930 AU	max. Earth dist.	4583 Oct 20 10:25	4°M33'58	1.38843 AU
desc. node	4582 Nov 11 06:24	28°M49'23		evening rise	4583 Oct 24 06:33	11°ML19'01	
evening rise	4582 Nov 11 22:39	29°M56'02		desc. node	4583 Oct 29 03:28	19° <b>M</b> .30'01	
	4582 Nov 11 23:37	0° <b>∡</b>			4583 Nov 04 18:36	0° <b>∡</b> ¹	
	4582 Dec 01 19:48	0°ಕ			4583 Nov 27 07:32	0°ಕ	
evening max el	4582 Dec 16 03:42	17° <b>⋜</b> 43'38	23°15'32	evening max el	4583 Nov 28 16:55	1° <b>る</b> 25'01	24°34'29
retrograde	4582 Dec 26 13:28	23° <b>る</b> 53'15		retrograde	4583 Dec 10 04:04	8° <b>පි</b> 06'19	
evening set	4582 Dec 31 11:44	21° <b>る</b> 51'23		•			
asc. node	4583 Jan 01 13:15			evening set	4583 Dec 15 15:47	5° <b>ප</b> 49'01	
inferior conj		20° <b>る</b> 52'15		asc. node	4583 Dec 15 15:47 4583 Dec 19 10:16	1° <b>る</b> 40'34	
	4583 Jan 05 21:13	15° <b>る</b> 26'53	1°25'21	Č		1°පි40'34 0°පි32'59	0.67692 AU
minimum elong			1°25'21 1°24'40	asc. node	4583 Dec 19 10:16	1° <b>る</b> 40'34	0.67692 AU
minimum elong min. Earth dist.	4583 Jan 05 21:13	15° <b>る</b> 26'53		asc. node	4583 Dec 19 10:16 4583 Dec 20 06:55	1°පි40'34 0°පි32'59	0.67692 AU 0°35'07
•	4583 Jan 05 21:13 4583 Jan 05 19:25	15°පි26'53 15°පි33'07	1°24'40	asc. node min. Earth dist.	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50	1°る40'34 0°る32'59 30°Ŗズ	
min. Earth dist.	4583 Jan 05 21:13 4583 Jan 05 19:25 4583 Jan 05 11:11	15°පි26'53 15°පි33'07 16°පි01'26	1°24'40	asc. node min. Earth dist. inferior conj	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50 4583 Dec 21 03:49	1°る40'34 0°る32'59 30°Rダ 29°ダ23'19	0°35'07
min. Earth dist. morning rise	4583 Jan 05 21:13 4583 Jan 05 19:25 4583 Jan 05 11:11 4583 Jan 11 03:00	15° <b>ට</b> 26'53 15° <b>ට</b> 33'07 16°ට01'26 9°ට19'38	1°24'40 0.68026 AU	asc. node min. Earth dist. inferior conj minimum elong	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50 4583 Dec 21 03:49 4583 Dec 21 02:59	1°♂40'34 0°♂32'59 30°Ŗ♂ 29°♂23'19 29°♂26'08	0°35'07
min. Earth dist. morning rise direct	4583 Jan 05 21:13 4583 Jan 05 19:25 4583 Jan 05 11:11 4583 Jan 11 03:00 4583 Jan 15 09:52	15° ට 26'53 15° ට 33'07 16° ට 01'26 9° ට 19'38 7° ට 37'36	1°24'40 0.68026 AU	asc. node min. Earth dist. inferior conj minimum elong morning rise	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50 4583 Dec 21 03:49 4583 Dec 21 02:59 4583 Dec 26 14:16	1°♂40'34 0°♂32'59 30°R♂ 29°♂23'19 29°♂26'08 23°♂22'13	0°35'07
min. Earth dist. morning rise direct	4583 Jan 05 21:13 4583 Jan 05 19:25 4583 Jan 05 11:11 4583 Jan 11 03:00 4583 Jan 15 09:52 4583 Jan 23 23:23	15° ට 26'53 15° ට 33'07 16° ට 01'26 9° ට 19'38 7° ට 37'36 12° ට 35'38	1°24'40 0.68026 AU	asc. node min. Earth dist.  inferior conj minimum elong morning rise direct	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50 4583 Dec 21 03:49 4583 Dec 21 02:59 4583 Dec 26 14:16 4583 Dec 30 08:01	1°♂40'34 0°♂32'59 30°R♂ 29°♂23'19 29°♂26'08 23°♂22'13 22°♂02'05	0°35'07 0°34'46
min. Earth dist. morning rise direct morning max el	4583 Jan 05 21:13 4583 Jan 05 19:25 4583 Jan 05 11:11 4583 Jan 11 03:00 4583 Jan 15 09:52 4583 Jan 23 23:23 4583 Feb 06 15:24	15°♂26'53 15°♂33'07 16°♂01'26 9°♂19'38 7°♂37'36 12°♂35'38 0°≈	1°24'40 0.68026 AU	asc. node min. Earth dist.  inferior conj minimum elong morning rise direct	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50 4583 Dec 21 03:49 4583 Dec 21 02:59 4583 Dec 26 14:16 4583 Dec 30 08:01 4584 Jan 06 22:18	1°♂40'34 0°♂32'59 30°R♂ 29°♂23'19 29°♂26'08 23°♂22'13 22°♂02'05 26°♂20'29	0°35'07 0°34'46
min. Earth dist. morning rise direct morning max el desc. node	4583 Jan 05 21:13 4583 Jan 05 19:25 4583 Jan 05 11:11 4583 Jan 11 03:00 4583 Jan 15 09:52 4583 Jan 23 23:23 4583 Feb 06 15:24 4583 Feb 07 05:37	15° 526'53 15° 533'07 16° 501'26 9° 519'38 7° 537'36 12° 535'38 0° ≈ 0° ≈ 50'52	1°24'40 0.68026 AU	asc. node min. Earth dist.  inferior conj minimum elong morning rise direct morning max el	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50 4583 Dec 21 03:49 4583 Dec 21 02:59 4583 Dec 26 14:16 4583 Dec 30 08:01 4584 Jan 06 22:18 4584 Jan 10 05:13	1°♂40'34 0°♂32'59 30°₹₹ 29°₹23'19 29°₹26'08 23°₹22'13 22°₹02'05 26°₹20'29 0°♂	0°35'07 0°34'46
min. Earth dist. morning rise direct morning max el desc. node	4583 Jan 05 21:13 4583 Jan 05 19:25 4583 Jan 05 11:11 4583 Jan 11 03:00 4583 Jan 15 09:52 4583 Jan 23 23:23 4583 Feb 06 15:24 4583 Feb 07 05:37 4583 Feb 23 23:17	15°	1°24'40 0.68026 AU	asc. node min. Earth dist.  inferior conj minimum elong morning rise direct morning max el  desc. node	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50 4583 Dec 21 03:49 4583 Dec 21 02:59 4583 Dec 26 14:16 4583 Dec 30 08:01 4584 Jan 06 22:18 4584 Jan 10 05:13 4584 Jan 25 02:40	1°る40'34 0°る32'59 30°₹ペ 29° ₹23'19 29° ₹26'08 23° ₹22'13 22° ₹02'05 26° ₹20'29 0°る 20°る58'01	0°35'07 0°34'46
min. Earth dist. morning rise direct morning max el desc. node morning set	4583 Jan 05 21:13 4583 Jan 05 19:25 4583 Jan 05 11:11 4583 Jan 11 03:00 4583 Jan 15 09:52 4583 Jan 23 23:23 4583 Feb 06 15:24 4583 Feb 07 05:37 4583 Feb 23 23:17 4583 Feb 26 10:18	15°	1°24'40 0.68026 AU 21°14'44	asc. node min. Earth dist.  inferior conj minimum elong morning rise direct morning max el	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50 4583 Dec 21 03:49 4583 Dec 21 02:59 4583 Dec 26 14:16 4583 Dec 30 08:01 4584 Jan 06 22:18 4584 Jan 10 05:13 4584 Jan 25 02:40 4584 Jan 31 01:24 4584 Feb 02 19:57	1°♂40'34 0°♂32'59 30°₹₹ 29°₹23'19 29°₹26'08 23°₹22'13 22°₹02'05 26°₹20'29 0°♂ 20°♂58'01 0°≈ 4°≈15'49	0°35'07 0°34'46 20°02'10
min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	4583 Jan 05 21:13 4583 Jan 05 19:25 4583 Jan 05 11:11 4583 Jan 11 03:00 4583 Jan 15 09:52 4583 Jan 23 23:23 4583 Feb 06 15:24 4583 Feb 07 05:37 4583 Feb 23 23:17 4583 Feb 26 10:18 4583 Mar 03 05:59	15° 526'53 15° 533'07 16° 501'26 9° 519'38 7° 537'36 12° 535'38 0° ≈ 0° ≈ 50'52 26° ≈ 06'08 0° 升 7° 升47'46	1°24'40 0.68026 AU 21°14'44 1.42343 AU	asc. node min. Earth dist.  inferior conj minimum elong morning rise direct morning max el  desc. node  morning set	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50 4583 Dec 21 03:49 4583 Dec 21 02:59 4583 Dec 26 14:16 4583 Dec 30 08:01 4584 Jan 06 22:18 4584 Jan 10 05:13 4584 Jan 25 02:40 4584 Jan 31 01:24	1°♂40'34 0°♂32'59 30°₹₹ 29°₹23'19 29°₹26'08 23°₹22'13 22°₹02'05 26°₹20'29 0°♂ 20°♂58'01 0°≈ 4°≈15'49	0°35'07 0°34'46
min. Earth dist. morning rise direct morning max el  desc. node morning set  max. Earth dist.  superior conj	4583 Jan 05 21:13 4583 Jan 05 19:25 4583 Jan 05 11:11 4583 Jan 11 03:00 4583 Jan 15 09:52 4583 Jan 23 23:23 4583 Feb 06 15:24 4583 Feb 07 05:37 4583 Feb 23 23:17 4583 Feb 26 10:18	15°	1°24'40 0.68026 AU 21°14'44 1.42343 AU -2°07'01	asc. node min. Earth dist.  inferior conj minimum elong morning rise direct morning max el  desc. node  morning set max. Earth dist.	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50 4583 Dec 21 03:49 4583 Dec 21 02:59 4583 Dec 26 14:16 4583 Dec 30 08:01 4584 Jan 06 22:18 4584 Jan 10 05:13 4584 Jan 25 02:40 4584 Jan 31 01:24 4584 Feb 02 19:57	1°♂40'34 0°♂32'59 30°₹₹ 29°₹23'19 29°₹26'08 23°₹22'13 22°₹02'05 26°₹20'29 0°♂ 20°♂58'01 0°≈ 4°≈15'49	0°35'07 0°34'46 20°02'10 1.43979 AU
min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	4583 Jan 05 21:13 4583 Jan 05 19:25 4583 Jan 05 11:11 4583 Jan 11 03:00 4583 Jan 15 09:52 4583 Jan 23 23:23 4583 Feb 06 15:24 4583 Feb 07 05:37 4583 Feb 23 23:17 4583 Feb 26 10:18 4583 Mar 03 05:59 4583 Mar 10 13:50 4583 Mar 10 15:47	15° 526'53 15° 533'07 16° 501'26 9° 519'38 7° 537'36 12° 535'38 0° ≈ 0° ≈ 50'52 26° ≈ 06'08 0° 米 7° 米47'46 20° 米05'08 20° 米13'30	1°24'40 0.68026 AU 21°14'44 1.42343 AU -2°07'01	asc. node min. Earth dist.  inferior conj minimum elong morning rise direct morning max el  desc. node  morning set max. Earth dist.  superior conj	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50 4583 Dec 21 03:49 4583 Dec 21 02:59 4583 Dec 26 14:16 4583 Dec 30 08:01 4584 Jan 06 22:18 4584 Jan 10 05:13 4584 Jan 25 02:40 4584 Jan 31 01:24 4584 Feb 02 19:57 4584 Feb 13 15:41	1°る40'34 0°る32'59 30°Rネ 29°ネ23'19 29°ネ26'08 23°ネ22'13 22°ネ02'05 26°ネ20'29 0°る 20°る58'01 0°≈ 4°≈15'49 21°≈14'15	0°35'07 0°34'46 20°02'10 1.43979 AU -2°05'04
min. Earth dist. morning rise direct morning max el  desc. node morning set  max. Earth dist.  superior conj minimum elong	4583 Jan 05 21:13 4583 Jan 05 19:25 4583 Jan 05 11:11 4583 Jan 11 03:00 4583 Jan 15 09:52 4583 Jan 23 23:23 4583 Feb 06 15:24 4583 Feb 07 05:37 4583 Feb 23 23:17 4583 Feb 26 10:18 4583 Mar 03 05:59 4583 Mar 10 13:50 4583 Mar 10 15:47 4583 Mar 16 06:04	15° 526'53 15° 533'07 16° 501'26 9° 519'38 7° 537'36 12° 535'38 0° ≈ 0° ≈ 50'52 26° ≈ 06'08 0° 米 7° 米 47'46 20° 升 05'08 20° 升 13'30 0° Υ	1°24'40 0.68026 AU 21°14'44 1.42343 AU -2°07'01	asc. node min. Earth dist.  inferior conj minimum elong morning rise direct morning max el  desc. node  morning set max. Earth dist.	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50 4583 Dec 21 03:49 4583 Dec 21 02:59 4583 Dec 26 14:16 4583 Dec 30 08:01 4584 Jan 06 22:18 4584 Jan 10 05:13 4584 Jan 25 02:40 4584 Jan 31 01:24 4584 Feb 02 19:57 4584 Feb 13 15:41 4584 Feb 19 02:50 4584 Feb 18 23:08	1°る40'34 0°る32'59 30°Rネ 29°ネ23'19 29°ネ26'08 23°ネ22'13 22°ネ02'05 26°ネ20'29 0°る 20°る58'01 0°≈ 4°≈15'49 21°≈14'15 0°米03'50 29°≈48'43	0°35'07 0°34'46 20°02'10 1.43979 AU -2°05'04
min. Earth dist. morning rise direct morning max el  desc. node morning set  max. Earth dist.  superior conj minimum elong  evening rise	4583 Jan 05 21:13 4583 Jan 05 19:25 4583 Jan 05 11:11 4583 Jan 11 03:00 4583 Jan 15 09:52 4583 Jan 23 23:23 4583 Feb 06 15:24 4583 Feb 07 05:37 4583 Feb 23 23:17 4583 Feb 26 10:18 4583 Mar 03 05:59 4583 Mar 10 13:50 4583 Mar 10 15:47 4583 Mar 16 06:04 4583 Mar 21 22:15	15° 526'53 15° 533'07 16° 501'26 9° 519'38 7° 537'36 12° 535'38 0° ≈ 0° ≈ 50'52 26° ≈ 06'08 0° 升 7° 升47'46 20° 升05'08 20° 升13'30 0° か 10° か11'21	1°24'40 0.68026 AU 21°14'44 1.42343 AU -2°07'01	asc. node min. Earth dist.  inferior conj minimum elong morning rise direct morning max el  desc. node  morning set max. Earth dist.  superior conj minimum elong	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50 4583 Dec 21 03:49 4583 Dec 21 02:59 4583 Dec 26 14:16 4583 Dec 30 08:01 4584 Jan 06 22:18 4584 Jan 10 05:13 4584 Jan 25 02:40 4584 Feb 02 19:57 4584 Feb 13 15:41 4584 Feb 19 02:50 4584 Feb 19 02:50 4584 Feb 19 01:54	1°る40'34 0°る32'59 30°Rネ 29°ネ23'19 29°ネ26'08 23°ネ22'13 22°ネ02'05 26°ネ20'29 0°る 20°る58'01 0°≈ 4°≈15'49 21°≈14'15 0°升03'50 29°≈48'43 0°升	0°35'07 0°34'46 20°02'10 1.43979 AU -2°05'04
min. Earth dist. morning rise direct morning max el  desc. node morning set  max. Earth dist.  superior conj minimum elong	4583 Jan 05 21:13 4583 Jan 05 19:25 4583 Jan 05 11:11 4583 Jan 11 03:00 4583 Jan 15 09:52 4583 Jan 23 23:23 4583 Feb 06 15:24 4583 Feb 07 05:37 4583 Feb 23 23:17 4583 Feb 26 10:18 4583 Mar 03 05:59 4583 Mar 10 13:50 4583 Mar 10 15:47 4583 Mar 16 06:04 4583 Mar 21 22:15 4583 Mar 30 12:34	15°る26'53 15°る33'07 16°る01'26 9°る19'38 7°る37'36 12°る35'38 0°≈ 0°≈50'52 26°≈06'08 0°¥ 7°¥47'46 20°¥05'08 20°¥13'30 0°Ŷ 10°Ŷ11'21 25°Ŷ21'56	1°24'40 0.68026 AU 21°14'44 1.42343 AU -2°07'01	asc. node min. Earth dist.  inferior conj minimum elong morning rise direct morning max el  desc. node  morning set max. Earth dist.  superior conj	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50 4583 Dec 21 03:49 4583 Dec 21 02:59 4583 Dec 26 14:16 4583 Dec 30 08:01 4584 Jan 06 22:18 4584 Jan 10 05:13 4584 Jan 25 02:40 4584 Jan 31 01:24 4584 Feb 02 19:57 4584 Feb 13 15:41 4584 Feb 19 02:50 4584 Feb 19 01:54 4584 Feb 19 01:54 4584 Mar 03 04:09	1°る40'34 0°る32'59 30°8ズ 29°ズ23'19 29°ズ26'08 23°ズ22'13 22°ズ02'05 26°ズ20'29 0°る 20°る58'01 0°≈ 4°≈15'49 21°≈14'15 0°升03'50 29°≈48'43 0°升 22°升00'41	0°35'07 0°34'46 20°02'10 1.43979 AU -2°05'04
min. Earth dist. morning rise direct morning max el  desc. node morning set  max. Earth dist.  superior conj minimum elong  evening rise asc. node	4583 Jan 05 21:13 4583 Jan 05 19:25 4583 Jan 05 11:11 4583 Jan 11 03:00 4583 Jan 15 09:52 4583 Jan 23 23:23 4583 Feb 06 15:24 4583 Feb 07 05:37 4583 Feb 23 23:17 4583 Feb 26 10:18 4583 Mar 03 05:59 4583 Mar 10 13:50 4583 Mar 10 15:47 4583 Mar 10 15:47 4583 Mar 10 6:04 4583 Mar 21 22:15 4583 Mar 30 12:34 4583 Apr 02 10:59	15°る26'53 15°る33'07 16°る01'26 9°る19'38 7°る37'36 12°る35'38 0°≈ 0°≈50'52 26°≈06'08 0°¥ 7°¥47'46 20°¥05'08 20°¥13'30 0°Y 10°Y11'21 25°Y21'56 0°8	1°24'40 0.68026 AU 21°14'44 1.42343 AU -2°07'01 2°06'58	asc. node min. Earth dist.  inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.  superior conj minimum elong evening rise	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50 4583 Dec 21 03:49 4583 Dec 21 02:59 4583 Dec 26 14:16 4583 Dec 30 08:01 4584 Jan 06 22:18 4584 Jan 10 05:13 4584 Jan 25 02:40 4584 Feb 02 19:57 4584 Feb 13 15:41  4584 Feb 19 02:50 4584 Feb 19 02:50 4584 Feb 19 01:54 4584 Mar 03 04:09 4584 Mar 07 19:40	1°る40'34 0°る32'59 30°8% 29°%23'19 29°%22'13 22°%02'05 26°%20'29 0°る 20°る58'01 0°≈ 4°≈15'49 21°≈14'15 0°升03'50 29°≈48'43 0°升 22°升00'41 0°°	0°35'07 0°34'46 20°02'10 1.43979 AU -2°05'04
min. Earth dist. morning rise direct morning max el  desc. node morning set  max. Earth dist.  superior conj minimum elong  evening rise asc. node  evening max el	4583 Jan 05 21:13 4583 Jan 05 19:25 4583 Jan 05 11:11 4583 Jan 11 03:00 4583 Jan 15 09:52 4583 Jan 23 23:23 4583 Feb 06 15:24 4583 Feb 07 05:37 4583 Feb 23 23:17 4583 Feb 26 10:18 4583 Mar 03 05:59 4583 Mar 10 13:50 4583 Mar 10 15:47 4583 Mar 10 15:47 4583 Mar 10 06:04 4583 Mar 21 22:15 4583 Mar 30 12:34 4583 Apr 02 10:59 4583 Apr 07 12:37	15° 526'53 15° 533'07 16° 501'26 9° 519'38 7° 537'36 12° 535'38 0° ≈ 0° ≈50'52 26° ≈06'08 0° 升 7° 升47'46 20° 升05'08 20° 升13'30 0° Ŷ 10° Ŷ11'21 25° Ŷ21'56 0° ႘ 6° ႘ 22'36	1°24'40 0.68026 AU 21°14'44 1.42343 AU -2°07'01	asc. node min. Earth dist.  inferior conj minimum elong morning rise direct morning max el  desc. node  morning set max. Earth dist.  superior conj minimum elong evening rise  asc. node	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50 4583 Dec 21 03:49 4583 Dec 21 02:59 4583 Dec 26 14:16 4583 Dec 30 08:01 4584 Jan 06 22:18 4584 Jan 10 05:13 4584 Jan 25 02:40 4584 Jan 31 01:24 4584 Feb 02 19:57 4584 Feb 13 15:41 4584 Feb 19 02:50 4584 Feb 19 02:50 4584 Feb 19 01:54 4584 Mar 03 04:09 4584 Mar 07 19:40 4584 Mar 16 09:35	1°る40'34 0°る32'59 30°8ペ 29°ペ23'19 29°ペ22'13 22°ペ02'05 26°ペ20'29 0°る 20°る58'01 0°≈ 4°≈15'49 21°≈14'15 0°升03'50 29°≈48'43 0°升 22°升00'41 0°介 13°介50'54	0°35'07 0°34'46 20°02'10 1.43979 AU -2°05'04 2°04'55
min. Earth dist. morning rise direct morning max el  desc. node morning set  max. Earth dist.  superior conj minimum elong  evening rise asc. node  evening max el retrograde	4583 Jan 05 21:13 4583 Jan 05 19:25 4583 Jan 05 11:11 4583 Jan 11 03:00 4583 Jan 15 09:52 4583 Jan 23 23:23 4583 Feb 06 15:24 4583 Feb 07 05:37 4583 Feb 23 23:17 4583 Feb 26 10:18 4583 Mar 03 05:59 4583 Mar 10 13:50 4583 Mar 10 15:47 4583 Mar 10 15:47 4583 Mar 10 15:47 4583 Mar 21 22:15 4583 Mar 30 12:34 4583 Apr 02 10:59 4583 Apr 07 12:37 4583 Apr 14 05:13	15° 526'53 15° 533'07 16° 501'26 9° 519'38 7° 537'36 12° 535'38 0° ≈ 0° ≈ 50'52 26° ≈ 06'08 0° 升 7° 升47'46 20° 升05'08 20° 升13'30 0° Ŷ 10° Ŷ11'21 25° Ŷ21'56 0° ႘ 6° ႘22'36 9° ႘46'58	1°24'40 0.68026 AU 21°14'44 1.42343 AU -2°07'01 2°06'58	asc. node min. Earth dist.  inferior conj minimum elong morning rise direct morning max el  desc. node  morning set max. Earth dist.  superior conj minimum elong evening rise  asc. node evening max el	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50 4583 Dec 21 03:49 4583 Dec 21 02:59 4583 Dec 26 14:16 4583 Dec 30 08:01 4584 Jan 06 22:18 4584 Jan 10 05:13 4584 Jan 25 02:40 4584 Jan 31 01:24 4584 Feb 02 19:57 4584 Feb 13 15:41  4584 Feb 19 02:50 4584 Feb 19 02:50 4584 Feb 19 01:54 4584 Mar 03 04:09 4584 Mar 07 19:40 4584 Mar 16 09:35 4584 Mar 21 01:20	1°る40'34 0°る32'59 30°Rポ 29°ポ23'19 29°ポ22'13 22°ポ02'05 26°ポ20'29 0°ጜ 20°ጜ58'01 0°≈ 4°≈15'49 21°≈14'15 0°升03'50 29°≈48'43 0°升 22°升00'41 0°Υ 13°Υ50'54 19°Υ36'45	0°35'07 0°34'46 20°02'10 1.43979 AU -2°05'04 2°04'55
min. Earth dist. morning rise direct morning max el  desc. node morning set  max. Earth dist.  superior conj minimum elong  evening rise asc. node  evening max el retrograde evening set	4583 Jan 05 21:13 4583 Jan 05 19:25 4583 Jan 05 11:11 4583 Jan 11 03:00 4583 Jan 15 09:52 4583 Jan 23 23:23 4583 Feb 06 15:24 4583 Feb 23 23:17 4583 Feb 26 10:18 4583 Mar 03 05:59 4583 Mar 10 13:50 4583 Mar 10 15:47 4583 Mar 10 15:47 4583 Mar 10 15:47 4583 Mar 21 22:15 4583 Mar 30 12:34 4583 Apr 02 10:59 4583 Apr 07 12:37 4583 Apr 14 05:13 4583 Apr 16 20:06	15° 526'53 15° 533'07 16° 501'26 9° 519'38 7° 537'36 12° 535'38 0° ≈ 0° ≈ 50'52 26° ≈ 06'08 0° 米 7° 升47'46  20° 升05'08 20° 升13'30 0° Ŷ 10° Ŷ11'21 25° Ŷ21'56 0° ႘ 6° ႘22'36 9° ႘46'58 9° ႘15'56	1°24'40 0.68026 AU 21°14'44 1.42343 AU -2°07'01 2°06'58	asc. node min. Earth dist.  inferior conj minimum elong morning rise direct morning max el  desc. node  morning set max. Earth dist.  superior conj minimum elong evening rise  asc. node evening max el retrograde	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50 4583 Dec 21 03:49 4583 Dec 21 02:59 4583 Dec 26 14:16 4583 Dec 30 08:01 4584 Jan 06 22:18 4584 Jan 10 05:13 4584 Jan 25 02:40 4584 Jan 31 01:24 4584 Feb 02 19:57 4584 Feb 13 15:41  4584 Feb 19 02:50 4584 Feb 19 02:50 4584 Feb 19 01:54 4584 Mar 03 04:09 4584 Mar 07 19:40 4584 Mar 16 09:35 4584 Mar 21 01:20 4584 Mar 27 11:29	1°云40'34 0°云32'59 30°飛ズ 29°ズ23'19 29°ズ26'08 23°ズ22'13 22°ズ02'05 26°ズ20'29 0°云 20°云58'01 0°≈ 4°≈15'49 21°≈14'15 0°┼03'50 29°≈48'43 0°┼ 22°┼00'41 0°♈ 13°℉50'54 19°℉36'45 23°℉00'07	0°35'07 0°34'46 20°02'10 1.43979 AU -2°05'04 2°04'55
min. Earth dist. morning rise direct morning max el  desc. node morning set  max. Earth dist.  superior conj minimum elong  evening rise asc. node  evening max el retrograde evening set inferior conj	4583 Jan 05 21:13 4583 Jan 05 19:25 4583 Jan 05 11:11 4583 Jan 11 03:00 4583 Jan 15 09:52 4583 Jan 23 23:23 4583 Feb 06 15:24 4583 Feb 07 05:37 4583 Feb 23 23:17 4583 Feb 26 10:18 4583 Mar 03 05:59  4583 Mar 10 13:50 4583 Mar 10 15:47 4583 Mar 10 15:47 4583 Mar 10 15:47 4583 Mar 21 22:15 4583 Mar 30 12:34 4583 Apr 02 10:59 4583 Apr 07 12:37 4583 Apr 14 05:13 4583 Apr 16 20:06 4583 Apr 23 12:21	15° 526'53 15° 533'07 16° 501'26 9° 519'38 7° 537'36 12° 535'38 0° ≈ 0° ≈ 50'52 26° ≈ 06'08 0° 光 7° 光 47'46  20° 光 05'08 20° 光 13'30 0° Y 10° Y 11'21 25° Y 21'56 0° と 6° と 22'36 9° と 46'58 9° と 15'56 4° と 20'53	1°24'40 0.68026 AU 21°14'44 1.42343 AU -2°07'01 2°06'58 18°07'53	asc. node min. Earth dist.  inferior conj minimum elong morning rise direct morning max el  desc. node  morning set max. Earth dist.  superior conj minimum elong evening rise  asc. node evening max el retrograde evening set	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50 4583 Dec 21 03:49 4583 Dec 21 02:59 4583 Dec 26 14:16 4583 Dec 30 08:01 4584 Jan 06 22:18 4584 Jan 10 05:13 4584 Jan 25 02:40 4584 Jan 31 01:24 4584 Feb 02 19:57 4584 Feb 13 15:41  4584 Feb 19 02:50 4584 Feb 19 02:50 4584 Feb 19 01:54 4584 Mar 03 04:09 4584 Mar 07 19:40 4584 Mar 16 09:35 4584 Mar 27 11:29 4584 Mar 30 08:25	1°云40'34 0°云32'59 30°尽ズ 29°ズ23'19 29°ズ26'08 23°ズ22'13 22°ズ02'05 26°ズ20'29 0°云 20°云58'01 0°≈ 4°≈15'49 21°≈14'15 0°升03'50 29°≈48'43 0°升 22°升00'41 0°Ƴ 13°Ƴ50'54 19°Ƴ36'45 23°Ƴ00'07 22°Ƴ17'38	0°35'07 0°34'46 20°02'10 1.43979 AU -2°05'04 2°04'55
min. Earth dist. morning rise direct morning max el  desc. node morning set  max. Earth dist.  superior conj minimum elong  evening rise asc. node  evening max el retrograde evening set	4583 Jan 05 21:13 4583 Jan 05 19:25 4583 Jan 05 11:11 4583 Jan 11 03:00 4583 Jan 15 09:52 4583 Jan 23 23:23 4583 Feb 06 15:24 4583 Feb 23 23:17 4583 Feb 26 10:18 4583 Mar 03 05:59 4583 Mar 10 13:50 4583 Mar 10 15:47 4583 Mar 10 15:47 4583 Mar 10 15:47 4583 Mar 21 22:15 4583 Mar 30 12:34 4583 Apr 02 10:59 4583 Apr 07 12:37 4583 Apr 14 05:13 4583 Apr 16 20:06	15° 526'53 15° 533'07 16° 501'26 9° 519'38 7° 537'36 12° 535'38 0° ≈ 0° ≈ 50'52 26° ≈ 06'08 0° 米 7° 米47'46  20° 光05'08 20° 光13'30 0° Ŷ 10° Ŷ11'21 25° Ŷ21'56 0° と 6° と22'36 9° と46'58 9° と15'56 4° と20'53 4° と14'00	1°24'40 0.68026 AU 21°14'44 1.42343 AU -2°07'01 2°06'58	asc. node min. Earth dist.  inferior conj minimum elong morning rise direct morning max el  desc. node  morning set max. Earth dist.  superior conj minimum elong evening rise  asc. node evening max el retrograde	4583 Dec 19 10:16 4583 Dec 20 06:55 4583 Dec 20 16:50 4583 Dec 21 03:49 4583 Dec 21 02:59 4583 Dec 26 14:16 4583 Dec 30 08:01 4584 Jan 06 22:18 4584 Jan 10 05:13 4584 Jan 25 02:40 4584 Jan 31 01:24 4584 Feb 02 19:57 4584 Feb 13 15:41  4584 Feb 19 02:50 4584 Feb 19 02:50 4584 Feb 19 01:54 4584 Mar 03 04:09 4584 Mar 07 19:40 4584 Mar 16 09:35 4584 Mar 21 01:20 4584 Mar 27 11:29	1°云40'34 0°云32'59 30°飛ズ 29°ズ23'19 29°ズ26'08 23°ズ22'13 22°ズ02'05 26°ズ20'29 0°云 20°云58'01 0°≈ 4°≈15'49 21°≈14'15 0°┼03'50 29°≈48'43 0°┼ 22°┼00'41 0°♈ 13°℉50'54 19°℉36'45 23°℉00'07	0°35'07 0°34'46 20°02'10 1.43979 AU -2°05'04 2°04'55

: E 4 E 4	4504 4 00 05 24	1.40000712.5	0.62074 ATT		4595 M 20 02 04	2005 1/	
min. Earth dist.	4584 Apr 08 05:24		0.62874 AU		4585 Mar 20 03:04	30° <b>₹</b> ₩	0.64515.433
morning rise	4584 Apr 11 16:51	10° <b>℃</b> 57'31		min. Earth dist.	4585 Mar 22 02:08	27° <b>)</b> (40'18	0.64717 AU
direct	4584 Apr 18 13:45	8° <b>Y</b> 20′59		morning rise	4585 Mar 25 17:18	23° <b>¥</b> 57'25	
desc. node	4584 Apr 22 01:52	8° <b>Ƴ</b> 57'19		direct	4585 Apr 01 11:03	21° <b>米</b> 08′15	
morning max el	4584 May 02 13:28	16° <b>Ƴ</b> 20'12	27°49'30	desc. node	4585 Apr 08 22:53	23° <b>)</b> €53'54	
	4584 May 13 19:33	$9^{\circ}$ 8		morning max el	4585 Apr 14 23:12	29° <b>)</b> 02′01	27°17'48
	4584 Jun 01 01:41	$\Pi^{\circ}0$			4585 Apr 15 21:46	$0$ ° $\Upsilon$	
morning set	4584 Jun 05 18:10	9°Ⅲ08'56			4585 May 07 16:06	$0^{\circ}$ 8	
max. Earth dist.	4584 Jun 11 03:17	20° <b>Ⅱ</b> 19'57	1.32608 AU	morning set	4585 May 20 09:02	22° <b>8</b> 49'01	
asc. node	4584 Jun 12 08:52	22° <b>Ⅲ</b> 58'38			4585 May 23 23:37	$\Pi^{\circ}0$	
				max. Earth dist.	4585 May 25 01:14	2° <b>Ⅱ</b> 10'48	1.33581 AU
superior conj	4584 Jun 13 09:45	25° <b>Ⅱ</b> 12'59	0°10'49		,		
minimum elong	4584 Jun 13 09:14	25° <b>Ⅱ</b> 10'11	0°10'42	superior conj	4585 May 28 13:44	9° <b>Ⅱ</b> 31'36	-0°17'20
behind sun begin	4584 Jun 13 05:19	24° <b>I</b> I49'02	0 10 .2	minimum elong	4585 May 28 14:38	9° <b>∏</b> 36'21	0°17'09
behind sun end	4584 Jun 13 13:08	25° <b>I</b> [31'21		asc. node	4585 May 30 05:54	13° <b>I</b> I04'50	0 17 07
ocimia sun cha	4584 Jun 15 14:34	0°95		evening rise	4585 Jun 04 19:47	24° <b>I</b> 57'36	
		୦ ଓ 10°©16'41		evening rise		0°95	
evening rise	4584 Jun 20 08:44				4585 Jun 07 06:04		2200444
	4584 Jun 30 11:31	0°Ω		evening max el	4585 Jun 25 18:41	28°958'17	22°04'44
evening max el	4584 Jul 14 03:34	18° <b>Ω</b> 34'30	23°41'19		4585 Jun 26 21:02	$0$ ° $\Omega$	
desc. node	4584 Jul 19 01:11	22° <b>Ω</b> 32'49		desc. node	4585 Jul 05 22:09	5° <b>Ω</b> 02'28	
retrograde	4584 Jul 27 19:11	25° <b>Ω</b> 25'42		retrograde	4585 Jul 08 13:26	5° <b>Ω</b> 18'39	
evening set	4584 Aug 01 01:14	24° <b>Ω</b> 45'57		evening set	4585 Jul 11 09:14	5° <b>Ω</b> 00'51	
min. Earth dist.	4584 Aug 07 13:31	21° <b>Ω</b> 41′08	0.55986 AU	min. Earth dist.	4585 Jul 19 23:48	1° <b>Ω</b> 18′56	0.54977 AU
inferior conj	4584 Aug 09 17:55	20° <b>Ω</b> 22'31	-5°01'33	inferior conj	4585 Jul 20 16:12	0° <b>Ω</b> 55'53	-3°59'38
minimum elong	4584 Aug 09 13:12	20° <b>Ω</b> 29'37	5°01'02	minimum elong	4585 Jul 20 07:34	1° <b>Ω</b> 08′01	3°57'24
morning rise	4584 Aug 18 03:40	16° <b>Ω</b> 27'18		•	4585 Jul 22 08:21	30° <b>₹</b> 5	
direct	4584 Aug 20 23:13	16° <b>Ω</b> 07'29		morning rise	4585 Jul 29 07:37	27° <b>©</b> 05'22	
morning max el	4584 Aug 31 05:10	20° <b>£</b> 53'09	20°06'05	direct	4585 Aug 01 12:04	26°5642'49	
morning must vi	4584 Sep 07 13:09	0° m)	20 00 00		4585 Aug 10 15:09	0°Ω	
asc. node	4584 Sep 08 08:06	1° Mp 14'02		morning max el	4585 Aug 13 09:01	2°Ω15'39	21°32'06
	4584 Sep 18 10:43	20° m) 03'02		asc. node	4585 Aug 26 05:09	19° <b>Ω</b> 56'22	21 32 00
morning set	-			asc. node	•		
	4584 Sep 23 07:22	0∘ <b>⊽</b>		. ,	4585 Aug 31 11:15	0° Mp	
	45040 06 00 01	50 0 45110	104010.5	morning set	4585 Sep 02 19:35	4° <b>m</b> 49'04	
superior conj	4584 Sep 26 03:31	5° <b>Ω</b> 45'18	1°42'35				
minimum elong	4584 Sep 26 04:27	5° <b>≙</b> 50'04	1°42'33	superior conj	4585 Sep 10 02:17	20°Mp06'58	1°43'23
max. Earth dist.	4584 Oct 01 16:14	16° <b>≏</b> 34'29	1.36804 AU	minimum elong	4585 Sep 10 01:47	20° Mp 04'18	1°43'22
evening rise	4584 Oct 05 11:58	23° <b>₽</b> 40'45		max. Earth dist.	4585 Sep 14 03:41	28° <b>m</b> 25'53	1.35028 AU
	4584 Oct 09 01:18	0° <b>M</b> ₊			4585 Sep 14 22:30	0∘ <b>ত</b>	
desc. node	4584 Oct 15 00:30	10° <b>M</b> ₀00′28		evening rise	4585 Sep 18 11:01	6° <b>≏</b> 51'50	
	4584 Oct 28 11:21	0° <b>∡</b> ¹		desc. node	4585 Oct 01 21:30	0° <b>M</b> ₊15′24	
evening max el	4584 Nov 10 05:21	15° <b>∡</b> 07'55	25°46'20		4585 Oct 01 17:37	0° <b>M</b> ₊	
retrograde	4584 Nov 22 14:05	22° <b>∡</b> 11'47		evening max el			
evening set				CVCIIIII III III III CI	4585 Oct 23 17:52	28°M46'53	26°43'36
min. Earth dist.	4584 Nov 28 15:31	19° <b>√</b> 41'13		evening max er	4585 Oct 23 17:52 4585 Oct 25 01:15	28°M₊46'53 0°⊀	26°43'36
	4584 Nov 28 15:31 4584 Dec 02 23:15	19° <b>х</b> 41′13 15° <b>х</b> 00′07	0.66997 AU	-	4585 Oct 25 01:15	0° <b>∡</b> ¹	26°43'36
inferior coni	4584 Dec 02 23:15	15° <b>∡</b> ¹00'07	0.66997 AU -0°20'33	retrograde	4585 Oct 25 01:15 4585 Nov 05 18:53	0° <b>҂</b> ¹ 6° <b>҂</b> ¹02'47	26°43'36
inferior conj	4584 Dec 02 23:15 4584 Dec 04 07:15	15° <b>х</b> 00'07 13° <b>х</b> 18'52	-0°20'33	-	4585 Oct 25 01:15 4585 Nov 05 18:53 4585 Nov 12 08:58	0° ⊀ 6° ₹ 02'47 3° ₹ 23'39	26°43'36
minimum elong	4584 Dec 02 23:15 4584 Dec 04 07:15 4584 Dec 04 07:47	15° <b>尽</b> 00'07 13° <b>尽</b> 18'52 13° <b>尽</b> 17'10		retrograde evening set	4585 Oct 25 01:15 4585 Nov 05 18:53 4585 Nov 12 08:58 4585 Nov 15 19:17	0°₺ 6°₺02'47 3°₺23'39 30°₧₧	
minimum elong asc. node	4584 Dec 02 23:15 4584 Dec 04 07:15 4584 Dec 04 07:47 4584 Dec 05 07:18	15° ₹ 00'07 13° ₹ 18'52 13° ₹ 17'10 12° ₹ 03'30	-0°20'33	retrograde evening set min. Earth dist.	4585 Oct 25 01:15 4585 Nov 05 18:53 4585 Nov 12 08:58 4585 Nov 15 19:17 4585 Nov 16 09:56	0° ₹ 6° ₹02'47 3° ₹23'39 30° RM 29° M18'02	0.65949 AU
minimum elong asc. node morning rise	4584 Dec 02 23:15 4584 Dec 04 07:15 4584 Dec 04 07:47 4584 Dec 05 07:18 4584 Dec 10 00:28	15° ₹ 00'07 13° ₹ 18'52 13° ₹ 17'10 12° ₹ 03'30 7° ₹ 26'14	-0°20'33	retrograde evening set min. Earth dist. inferior conj	4585 Oct 25 01:15 4585 Nov 05 18:53 4585 Nov 12 08:58 4585 Nov 15 19:17 4585 Nov 16 09:56 4585 Nov 18 05:31	0° ₹ 02'47 3° ₹ 23'39 30° RM 29° M 18'02 27° M 09'32	0.65949 AU -1°20'30
minimum elong asc. node morning rise direct	4584 Dec 02 23:15 4584 Dec 04 07:15 4584 Dec 04 07:47 4584 Dec 05 07:18 4584 Dec 10 00:28 4584 Dec 13 06:42	15° ₹00'07 13° ₹18'52 13° ₹17'10 12° ₹03'30 7° ₹26'14 6° ₹25'13	-0°20'33 0°20'20	retrograde evening set min. Earth dist. inferior conj minimum elong	4585 Oct 25 01:15 4585 Nov 05 18:53 4585 Nov 12 08:58 4585 Nov 15 19:17 4585 Nov 16 09:56 4585 Nov 18 05:31 4585 Nov 18 07:46	0° ₹ 02'47 3° ₹ 23'39 30° RM 29° M 18'02 27° M 09'32 27° M 02'54	0.65949 AU
minimum elong asc. node morning rise	4584 Dec 02 23:15 4584 Dec 04 07:15 4584 Dec 04 07:47 4584 Dec 05 07:18 4584 Dec 10 00:28 4584 Dec 13 06:42 4584 Dec 20 05:03	15° ₹00'07 13° ₹18'52 13° ₹17'10 12° ₹03'30 7° ₹26'14 6° ₹25'13 10° ₹15'47	-0°20'33 0°20'20	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	4585 Oct 25 01:15 4585 Nov 05 18:53 4585 Nov 12 08:58 4585 Nov 15 19:17 4585 Nov 16 09:56 4585 Nov 18 05:31 4585 Nov 18 07:46 4585 Nov 22 04:20	0° ₹ 02'47 3° ₹ 23'39 30° ₹ 1.8'02 27° 1.8'02 27° 1.02'54 22° 1.57'28	0.65949 AU -1°20'30
minimum elong asc. node morning rise direct morning max el	4584 Dec 02 23:15 4584 Dec 04 07:15 4584 Dec 04 07:47 4584 Dec 05 07:18 4584 Dec 10 00:28 4584 Dec 13 06:42 4584 Dec 20 05:03 4585 Jan 03 15:34	15° ₹00'07 13° ₹18'52 13° ₹17'10 12° ₹03'30 7° ₹26'14 6° ₹25'13 10° ₹15'47 0° ₹	-0°20'33 0°20'20	retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise	4585 Oct 25 01:15 4585 Nov 05 18:53 4585 Nov 12 08:58 4585 Nov 15 19:17 4585 Nov 16 09:56 4585 Nov 18 05:31 4585 Nov 18 07:46 4585 Nov 22 04:20 4585 Nov 24 07:23	0° ₹ 02'47 3° ₹ 23'39 30° R M 29° M 18'02 27° M 09'32 27° M 02'54 22° M 57'28 21° M 27'54	0.65949 AU -1°20'30
minimum elong asc. node morning rise direct morning max el desc. node	4584 Dec 02 23:15 4584 Dec 04 07:15 4584 Dec 04 07:47 4584 Dec 05 07:18 4584 Dec 10 00:28 4584 Dec 13 06:42 4584 Dec 20 05:03	15° 🗷 00'07 13° 🗷 18'52 13° 🗷 17'10 12° 🗷 03'30 7° 🗷 26'14 6° 🗷 25'13 10° 🗷 15'47 0° 🛪 11° 云 21'52	-0°20'33 0°20'20	retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise direct	4585 Oct 25 01:15 4585 Nov 05 18:53 4585 Nov 12 08:58 4585 Nov 15 19:17 4585 Nov 16 09:56 4585 Nov 18 05:31 4585 Nov 18 07:46 4585 Nov 22 04:20	0° ₹ 02'47 3° ₹ 23'39 30° ₹ 1.8'02 27° 1.8'02 27° 1.02'54 22° 1.57'28	0.65949 AU -1°20'30 1°19'33
minimum elong asc. node morning rise direct morning max el	4584 Dec 02 23:15 4584 Dec 04 07:15 4584 Dec 04 07:47 4584 Dec 05 07:18 4584 Dec 10 00:28 4584 Dec 13 06:42 4584 Dec 20 05:03 4585 Jan 03 15:34	15° ₹00'07 13° ₹18'52 13° ₹17'10 12° ₹03'30 7° ₹26'14 6° ₹25'13 10° ₹15'47 0° ₹	-0°20'33 0°20'20	retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise	4585 Oct 25 01:15 4585 Nov 05 18:53 4585 Nov 12 08:58 4585 Nov 15 19:17 4585 Nov 16 09:56 4585 Nov 18 05:31 4585 Nov 18 07:46 4585 Nov 22 04:20 4585 Nov 24 07:23	0° ₹ 02'47 3° ₹ 23'39 30° R M 29° M 18'02 27° M 09'32 27° M 02'54 22° M 57'28 21° M 27'54	0.65949 AU -1°20'30
minimum elong asc. node morning rise direct morning max el desc. node	4584 Dec 02 23:15 4584 Dec 04 07:15 4584 Dec 04 07:47 4584 Dec 05 07:18 4584 Dec 10 00:28 4584 Dec 13 06:42 4584 Dec 20 05:03 4585 Jan 03 15:34 4585 Jan 10 23:43	15° 🗷 00'07 13° 🗷 18'52 13° 🗷 17'10 12° 🗷 03'30 7° 🗷 26'14 6° 🗷 25'13 10° 🗷 15'47 0° 🛪 11° 云 21'52	-0°20'33 0°20'20	retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise direct	4585 Oct 25 01:15 4585 Nov 05 18:53 4585 Nov 12 08:58 4585 Nov 15 19:17 4585 Nov 16 09:56 4585 Nov 18 05:31 4585 Nov 18 07:46 4585 Nov 22 04:20 4585 Nov 24 07:23 4585 Nov 27 04:10	0° ₹ 02'47 3° ₹ 23'39 30° R M 29° M 18'02 27° M 09'32 27° M 02'54 22° M 57'28 21° M 27'54 20° M 42'17	0.65949 AU -1°20'30 1°19'33
minimum elong asc. node morning rise direct morning max el desc. node	4584 Dec 02 23:15 4584 Dec 04 07:15 4584 Dec 04 07:47 4584 Dec 05 07:18 4584 Dec 10 00:28 4584 Dec 13 06:42 4584 Dec 20 05:03 4585 Jan 03 15:34 4585 Jan 10 23:43 4585 Jan 12 00:12	15° ₹00'07 13° ₹18'52 13° ₹17'10 12° ₹03'30 7° ₹26'14 6° ₹25'13 10° ₹15'47 0° ₹ 11° ₹21'52 12° ₹57'09 0° ≈	-0°20'33 0°20'20	retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise direct	4585 Oct 25 01:15 4585 Nov 05 18:53 4585 Nov 12 08:58 4585 Nov 15 19:17 4585 Nov 16 09:56 4585 Nov 18 05:31 4585 Nov 18 07:46 4585 Nov 22 04:20 4585 Nov 24 07:23 4585 Nov 27 04:10 4585 Dec 03 17:47	0° ₹ 02'47 3° ₹ 23'39 30° R	0.65949 AU -1°20'30 1°19'33
minimum elong asc. node morning rise direct morning max el desc. node morning set	4584 Dec 02 23:15 4584 Dec 04 07:15 4584 Dec 04 07:47 4584 Dec 05 07:18 4584 Dec 10 00:28 4584 Dec 13 06:42 4584 Dec 20 05:03 4585 Jan 03 15:34 4585 Jan 10 23:43 4585 Jan 12 00:12 4585 Jan 22 22:18	15° ₹00'07 13° ₹18'52 13° ₹17'10 12° ₹03'30 7° ₹26'14 6° ₹25'13 10° ₹15'47 0° ₹ 11° ₹21'52 12° ₹57'09 0° ≈	-0°20'33 0°20'20 19°04'13	retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	4585 Oct 25 01:15 4585 Nov 05 18:53 4585 Nov 12 08:58 4585 Nov 15 19:17 4585 Nov 16 09:56 4585 Nov 18 05:31 4585 Nov 18 07:46 4585 Nov 22 04:20 4585 Nov 24 07:23 4585 Nov 27 04:10 4585 Dec 03 17:47 4585 Dec 08 11:41	0° ₹ 02'47 3° ₹ 23'39 30° R M 29° M 18'02 27° M 09'32 27° M 02'54 22° M 57'28 21° M 27'54 20° M 42'17 24° M 15'56 0° ₹	0.65949 AU -1°20'30 1°19'33
minimum elong asc. node morning rise direct morning max el desc. node morning set	4584 Dec 02 23:15 4584 Dec 04 07:15 4584 Dec 04 07:47 4584 Dec 05 07:18 4584 Dec 10 00:28 4584 Dec 13 06:42 4584 Dec 20 05:03 4585 Jan 03 15:34 4585 Jan 10 23:43 4585 Jan 12 00:12 4585 Jan 22 22:18	15° ₹00'07 13° ₹18'52 13° ₹17'10 12° ₹03'30 7° ₹26'14 6° ₹25'13 10° ₹15'47 0° ₹ 11° ₹21'52 12° ₹57'09 0° ≈	-0°20'33 0°20'20 19°04'13 1.44997 AU	retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	4585 Oct 25 01:15 4585 Nov 05 18:53 4585 Nov 12 08:58 4585 Nov 15 19:17 4585 Nov 16 09:56 4585 Nov 18 05:31 4585 Nov 18 07:46 4585 Nov 22 04:20 4585 Nov 24 07:23 4585 Nov 27 04:10 4585 Dec 03 17:47 4585 Dec 08 11:41 4585 Dec 23 06:40	0° ₹ 02'47 3° ₹ 23'39 30° R M 29° M 18'02 27° M 09'32 27° M 02'54 22° M 57'28 21° M 42'17 24° M 15'56 0° ₹ 22° ₹ 59'44	0.65949 AU -1°20'30 1°19'33
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minimum elong asc. node morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	4584 Dec 02 23:15 4584 Dec 04 07:15 4584 Dec 04 07:47 4584 Dec 05 07:18 4584 Dec 10 00:28 4584 Dec 13 06:42 4584 Dec 20 05:03 4585 Jan 03 15:34 4585 Jan 10 23:43 4585 Jan 12 00:12 4585 Jan 22 22:18 4585 Jan 26 07:30 4585 Jan 28 16:11 4585 Jan 28 07:20	15° 🗷 00'07 13° 🗷 18'52 13° 🗷 17'10 12° 🗷 03'30 7° 🗷 26'14 6° 🗷 25'13 10° 🗷 15'47 0° 🖰 11° 🔂 21'52 12° 🗃 57'09 0° ミ 5° ミ18'41 9° ミ02'13 8° ミ27'12	-0°20'33 0°20'20 19°04'13 1.44997 AU -1°43'46	retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set  desc. node	4585 Oct 25 01:15 4585 Nov 05 18:53 4585 Nov 12 08:58 4585 Nov 15 19:17 4585 Nov 16 09:56 4585 Nov 18 05:31 4585 Nov 18 07:46 4585 Nov 22 04:20 4585 Nov 24 07:23 4585 Nov 27 04:10 4585 Dec 03 17:47 4585 Dec 03 17:47 4585 Dec 23 06:40 4585 Dec 27 15:26 4585 Dec 28 20:45	0° ₹ 02'47 3° ₹ 23'39 30° ₹ 1.8'02 27° 1.8'02'54 22° 1.57'28 21° 1.27'54 20° 1.42'17 24° 1.5'56 0° ₹ 22° ₹ 59'44 0° ₹ 1° ₹ 57'01	0.65949 AU -1°20'30 1°19'33
minimum elong asc. node morning rise direct morning max el  desc. node morning set  max. Earth dist.  superior conj minimum elong	4584 Dec 02 23:15 4584 Dec 04 07:15 4584 Dec 04 07:47 4584 Dec 05 07:18 4584 Dec 10 00:28 4584 Dec 13 06:42 4584 Dec 20 05:03 4585 Jan 03 15:34 4585 Jan 10 23:43 4585 Jan 12 00:12 4585 Jan 22 22:18 4585 Jan 26 07:30 4585 Jan 28 16:11 4585 Jan 28 07:20 4585 Feb 10 17:35	15° 🗷 00'07 13° 🗷 18'52 13° 🗷 17'10 12° 🗷 03'30 7° 🗷 26'14 6° 🗷 25'13 10° 🗷 15'47 0° 🛪 11° 🗷 21'52 12° 云 57'09 0° ミ 5° ミ18'41 9° ミ02'13 8° ミ27'12 0° )	-0°20'33 0°20'20 19°04'13 1.44997 AU -1°43'46	retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set desc. node superior conj	4585 Oct 25 01:15 4585 Nov 05 18:53 4585 Nov 12 08:58 4585 Nov 15 19:17 4585 Nov 16 09:56 4585 Nov 18 05:31 4585 Nov 18 07:46 4585 Nov 22 04:20 4585 Nov 24 07:23 4585 Nov 27 04:10 4585 Dec 03 17:47 4585 Dec 03 17:47 4585 Dec 23 06:40 4585 Dec 27 15:26 4585 Dec 28 20:45 4586 Jan 07 18:51	0° ₹ 02'47 3° ₹ 23'39 30° ₹	0.65949 AU -1°20'30 1°19'33 18°22'18
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minimum elong asc. node morning rise direct morning max el  desc. node morning set  max. Earth dist.  superior conj minimum elong evening rise asc. node	4584 Dec 02 23:15 4584 Dec 04 07:15 4584 Dec 04 07:47 4584 Dec 05 07:18 4584 Dec 10 00:28 4584 Dec 13 06:42 4584 Dec 20 05:03 4585 Jan 03 15:34 4585 Jan 10 23:43 4585 Jan 12 00:12 4585 Jan 22 22:18 4585 Jan 26 07:30 4585 Jan 28 16:11 4585 Jan 28 07:20 4585 Feb 10 17:35 4585 Feb 12 12:12 4585 Mar 01 21:58 4585 Mar 03 06:36	15° 🗷 00'07 13° 🗷 18'52 13° 🗷 17'10 12° 🗷 03'30 7° 🗷 26'14 6° 🗷 25'13 10° 🗷 15'47 0° 🛪 11° 🗷 21'52 12° 🗷 57'09 0° ≈ 5° ≈ 18'41  9° ≈ 02'13 8° ≈ 27'12 0° 升 2° 升 54'08 0° か 1° か 38'18	-0°20'33 0°20'20 19°04'13 1.44997 AU -1°43'46 1°43'02	retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set  desc. node  superior conj minimum elong max. Earth dist.	4585 Oct 25 01:15 4585 Nov 05 18:53 4585 Nov 12 08:58 4585 Nov 15 19:17 4585 Nov 16 09:56 4585 Nov 18 05:31 4585 Nov 18 07:46 4585 Nov 22 04:20 4585 Nov 24 07:23 4585 Nov 27 04:10 4585 Dec 03 17:47 4585 Dec 08 11:41 4585 Dec 23 06:40 4585 Dec 27 15:26 4585 Dec 28 20:45  4586 Jan 07 18:51 4586 Jan 07 11:00 4586 Jan 09 02:09 4586 Jan 15 16:14	0° ₹ 02'47 3° ₹ 23'39 30° R	0.65949 AU -1°20'30 1°19'33 18°22'18 -1°04'49 1°03'51
minimum elong asc. node morning rise direct morning max el  desc. node morning set  max. Earth dist.  superior conj minimum elong evening rise  asc. node evening max el	4584 Dec 02 23:15 4584 Dec 04 07:15 4584 Dec 04 07:47 4584 Dec 05 07:18 4584 Dec 10 00:28 4584 Dec 13 06:42 4584 Dec 20 05:03 4585 Jan 03 15:34 4585 Jan 10 23:43 4585 Jan 12 00:12 4585 Jan 22 22:18 4585 Jan 26 07:30 4585 Jan 28 16:11 4585 Jan 28 07:20 4585 Feb 10 17:35 4585 Feb 12 12:12 4585 Mar 01 21:58 4585 Mar 03 06:36 4585 Mar 04 13:25	15° 🗷 00'07 13° 🗷 18'52 13° 🗷 17'10 12° 🗷 03'30 7° 🗷 26'14 6° 🗷 25'13 10° 🗷 15'47 0° 🕏 11° 🕏 21'52 12° 💍 57'09 0° ≈ 5° ≈ 18'41  9° ≈ 02'13 8° ≈ 27'12 0° 升 2° 升 54'08 0° ♀ 1° ♀ 38'18 3° ♀ 01'32	-0°20'33 0°20'20 19°04'13 1.44997 AU -1°43'46	retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set  desc. node  superior conj minimum elong max. Earth dist.  evening rise	4585 Nov 25 01:15 4585 Nov 05 18:53 4585 Nov 12 08:58 4585 Nov 15 19:17 4585 Nov 16 09:56 4585 Nov 18 05:31 4585 Nov 18 07:46 4585 Nov 22 04:20 4585 Nov 24 07:23 4585 Nov 27 04:10 4585 Dec 03 17:47 4585 Dec 08 11:41 4585 Dec 23 06:40 4585 Dec 27 15:26 4585 Dec 28 20:45 4586 Jan 07 18:51 4586 Jan 07 11:00 4586 Jan 09 02:09 4586 Jan 15 16:14 4586 Jan 23 21:04	0° ₹ 6° ₹02'47 3° ₹23'39 30° RM 29° M.18'02 27° M.02'54 22° M.57'28 21° M.27'54 20° M.42'17 24° M.15'56 0° ₹ 22° ₹59'44 0° ₹ 1° ₹57'01 17° ₹38'14 17° ₹07'25 19° ₹41'01 0° ≈ 12° ≈51'56	0.65949 AU -1°20'30 1°19'33 18°22'18 -1°04'49 1°03'51 1.45295 AU
minimum elong asc. node morning rise direct morning max el  desc. node morning set  max. Earth dist.  superior conj minimum elong evening rise  asc. node evening max el retrograde	4584 Dec 02 23:15 4584 Dec 04 07:15 4584 Dec 04 07:47 4584 Dec 05 07:18 4584 Dec 10 00:28 4584 Dec 13 06:42 4584 Dec 20 05:03 4585 Jan 03 15:34 4585 Jan 12 00:12 4585 Jan 12 00:12 4585 Jan 22 22:18 4585 Jan 26 07:30 4585 Jan 28 16:11 4585 Jan 28 07:20 4585 Feb 10 17:35 4585 Feb 12 12:12 4585 Mar 01 21:58 4585 Mar 03 06:36 4585 Mar 04 13:25 4585 Mar 11 02:23	15° 🗷 00'07 13° 🗷 18'52 13° 🗷 17'10 12° 🗷 03'30 7° 🗷 26'14 6° 🗷 25'13 10° 🗷 15'47 0° 云 11° 云 21'52 12° 云 57'09 0° ≈ 5° ≈ 18'41  9° ≈ 02'13 8° ≈ 27'12 0° ጕ 2° ጕ 54'08 0° ጕ 1° ጕ 38'18 3° ጕ 01'32 6° ጕ 36'50	-0°20'33 0°20'20 19°04'13 1.44997 AU -1°43'46 1°43'02	retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set  desc. node  superior conj minimum elong max. Earth dist.	4585 Nov 25 01:15 4585 Nov 05 18:53 4585 Nov 12 08:58 4585 Nov 15 19:17 4585 Nov 16 09:56 4585 Nov 18 05:31 4585 Nov 18 07:46 4585 Nov 22 04:20 4585 Nov 24 07:23 4585 Nov 27 04:10 4585 Dec 03 17:47 4585 Dec 08 11:41 4585 Dec 23 06:40 4585 Dec 27 15:26 4585 Dec 28 20:45 4586 Jan 07 11:00 4586 Jan 09 02:09 4586 Jan 15 16:14 4586 Jan 23 21:04 4586 Feb 03 10:00	0° ₹ 6° ₹02'47 3° ₹23'39 30° RM 29° M.18'02 27° M.02'54 22° M.57'28 21° M.27'54 20° M.42'17 24° M.15'56 0° ₹ 22° ₹59'44 0° ₹ 1° ₹57'01 17° ₹38'14 17° ₹07'25 19° ₹41'01 0° ≈ 12° ≈51'56 29° ≈22'08	0.65949 AU -1°20'30 1°19'33 18°22'18 -1°04'49 1°03'51
minimum elong asc. node morning rise direct morning max el  desc. node morning set  max. Earth dist.  superior conj minimum elong evening rise  asc. node evening max el retrograde evening set	4584 Dec 02 23:15 4584 Dec 04 07:15 4584 Dec 04 07:47 4584 Dec 05 07:18 4584 Dec 10 00:28 4584 Dec 13 06:42 4584 Dec 20 05:03 4585 Jan 03 15:34 4585 Jan 10 23:43 4585 Jan 12 00:12 4585 Jan 22 22:18 4585 Jan 26 07:30  4585 Jan 28 16:11 4585 Jan 28 07:20 4585 Feb 10 17:35 4585 Feb 12 12:12 4585 Mar 01 21:58 4585 Mar 04 13:25 4585 Mar 11 02:23 4585 Mar 14 05:24	15° 🗷 00'07 13° 🗷 18'52 13° 🗷 17'10 12° 🗷 03'30 7° 🗷 26'14 6° 🗷 25'13 10° 🗷 15'47 0° 🛪 11° 📆 21'52 12° 📆 57'09 0° ミ 5° ミ18'41 9° ミ02'13 8° ミ27'12 0° ) (2° ) (38'18) 0° (7' ) 1° (7'38'18) 3° (7'01'32) 6° (7'36'50) 5° (7'42'07	-0°20'33 0°20'20 19°04'13 1.44997 AU -1°43'46 1°43'02	retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set  desc. node  superior conj minimum elong max. Earth dist.  evening rise greatest brilliancy	4585 Nov 25 01:15 4585 Nov 05 18:53 4585 Nov 12 08:58 4585 Nov 15 19:17 4585 Nov 16 09:56 4585 Nov 18 05:31 4585 Nov 18 07:46 4585 Nov 22 04:20 4585 Nov 24 07:23 4585 Nov 27 04:10 4585 Dec 03 17:47 4585 Dec 08 11:41 4585 Dec 23 06:40 4585 Dec 27 15:26 4585 Dec 28 20:45 4586 Jan 07 11:00 4586 Jan 09 02:09 4586 Jan 15 16:14 4586 Jan 23 21:04 4586 Feb 03 10:00 4586 Feb 03 19:50	0° ₹ 6° ₹02'47 3° ₹23'39 30° RM 29° M.18'02 27° M.02'54 22° M.57'28 21° M.27'54 20° M.42'17 24° M.15'56 0° ₹ 22° ₹59'44 0° ₹ 1° ₹57'01 17° ₹38'14 17° ₹07'25 19° ₹41'01 0° ≈ 12° ≈51'56 29° ≈22'08 0° ₹	0.65949 AU -1°20'30 1°19'33 18°22'18 -1°04'49 1°03'51 1.45295 AU -0.8m
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minimum elong asc. node morning rise direct morning max el  desc. node morning set  max. Earth dist.  superior conj minimum elong evening rise  asc. node evening max el retrograde evening set	4584 Dec 02 23:15 4584 Dec 04 07:15 4584 Dec 04 07:47 4584 Dec 05 07:18 4584 Dec 10 00:28 4584 Dec 13 06:42 4584 Dec 20 05:03 4585 Jan 03 15:34 4585 Jan 10 23:43 4585 Jan 12 00:12 4585 Jan 22 22:18 4585 Jan 26 07:30  4585 Jan 28 16:11 4585 Jan 28 07:20 4585 Feb 10 17:35 4585 Feb 12 12:12 4585 Mar 01 21:58 4585 Mar 04 13:25 4585 Mar 11 02:23 4585 Mar 14 05:24	15° 🗷 00'07 13° 🗷 18'52 13° 🗷 17'10 12° 🗷 03'30 7° 🗷 26'14 6° 🗷 25'13 10° 🗷 15'47 0° 🛪 11° 📆 21'52 12° 📆 57'09 0° ミ 5° ミ18'41 9° ミ02'13 8° ミ27'12 0° ) (2° ) (38'18) 0° (7' ) 1° (7'38'18) 3° (7'01'32) 6° (7'36'50) 5° (7'42'07	-0°20'33 0°20'20 19°04'13 1.44997 AU -1°43'46 1°43'02 18°32'02 3°34'34	retrograde evening set  min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el  morning set  desc. node  superior conj minimum elong max. Earth dist.  evening rise greatest brilliancy	4585 Nov 25 01:15 4585 Nov 05 18:53 4585 Nov 12 08:58 4585 Nov 15 19:17 4585 Nov 16 09:56 4585 Nov 18 05:31 4585 Nov 18 07:46 4585 Nov 22 04:20 4585 Nov 24 07:23 4585 Nov 27 04:10 4585 Dec 03 17:47 4585 Dec 08 11:41 4585 Dec 23 06:40 4585 Dec 27 15:26 4585 Dec 28 20:45 4586 Jan 07 11:00 4586 Jan 09 02:09 4586 Jan 15 16:14 4586 Jan 23 21:04 4586 Feb 03 10:00 4586 Feb 03 19:50	0° ₹ 6° ₹02'47 3° ₹23'39 30° RM 29° M.18'02 27° M.02'54 22° M.57'28 21° M.27'54 20° M.42'17 24° M.15'56 0° ₹ 22° ₹59'44 0° ₹ 1° ₹57'01 17° ₹38'14 17° ₹07'25 19° ₹41'01 0° ≈ 12° ≈51'56 29° ≈22'08 0° ₹	0.65949 AU -1°20'30 1°19'33 18°22'18 -1°04'49 1°03'51 1.45295 AU -0.8m

ratra ara da	4586 Feb 22 22:12	20° <b>¥</b> 29'51		arraning got	4507 Eab 10 14:12	3° <b>)</b> 12′28	
retrograde				evening set	4587 Feb 10 14:13		
evening set	4586 Feb 26 08:05	19° <b>)</b> €22'00	202.42.5		4587 Feb 13 19:19	30°R≈	2002120
inferior conj	4586 Mar 03 20:53	13° <b>)</b> € 32'54	3°24'35	inferior conj	4587 Feb 15 23:43	27°≈09'31	3°02'39
minimum elong	4586 Mar 03 19:20	13° <b>)</b> ₹37′52		minimum elong	4587 Feb 15 21:28	27° <b>≈</b> 17′05	3°02'11
min. Earth dist.	4586 Mar 05 07:42	11° <b>∺</b> 41′22	0.66179 AU	min. Earth dist.	4587 Feb 16 20:20	26° <b>≈</b> 00′03	0.67219 AU
morning rise	4586 Mar 09 06:15	7° <b>∺</b> 18'44		morning rise	4587 Feb 21 04:30	20° <b>≈</b> 55'17	
direct	4586 Mar 15 15:01	4° <b>∺</b> 30'15		direct	4587 Feb 27 00:40	18° <b>≈</b> 18′37	
desc. node	4586 Mar 26 19:55	10° <b>)</b> 34′24		morning max el	4587 Mar 10 17:51	25° <b>≈</b> 18'57	24°57'55
morning max el	4586 Mar 28 09:05	12° <b>₩</b> 05'02	26°17'26	desc. node	4587 Mar 13 16:59	28° <b>≈</b> 30′03	
S	4586 Apr 11 17:45	0° <b>Υ</b>			4587 Mar 15 00:08	0° <b>)</b> €	
	4586 Apr 30 07:27	0°8			4587 Apr 05 05:57	0° <b>Υ</b>	
morning set	4586 May 03 11:31	5° <b>8</b> 49'01		morning set	4587 Apr 15 20:47	17° <b>Υ</b> 55'35	
•	•	_	1 25022 AII	•	•	24° <b>Υ</b> 30'13	1 26005 ATT
max. Earth dist.	4586 May 07 11:47	13° <b>8</b> 29'13	1.35022 AU	max. Earth dist.	4587 Apr 19 11:45		1.36895 AU
					4587 Apr 22 10:05	0°8	
superior conj	4586 May 12 10:51	23° <b>8</b> 25'09					
minimum elong	4586 May 12 13:23	23° <b>8</b> 38'08	0°46'17	superior conj	4587 Apr 25 22:09	6° <b>8</b> 46'13	
	4586 May 15 15:20	$\Pi$ $\circ 0$		minimum elong	4587 Apr 26 02:13	7° <b>8</b> 06'14	1°15'07
asc. node	4586 May 17 02:55	3° <b>Ⅲ</b> 05′15		asc. node	4587 May 03 23:57	22° <b>8</b> 56'02	
evening rise	4586 May 20 04:05	9° <b>Ⅱ</b> 25'11		evening rise	4587 May 04 07:24	23° <b>8</b> 33'26	
•	4586 May 31 04:23	0°©		•	4587 May 07 13:28	$\Pi^{\circ}0$	
evening max el	4586 Jun 07 19:38	9° <b>©</b> 48'03	20°38'45	evening max el	4587 May 21 09:05	21° <b>Ⅱ</b> 18'59	19°30'34
retrograde	4586 Jun 19 02:03	15°9518'56	_, _, ,	retrograde	4587 May 30 21:34	25° <b>∏</b> 57'21	-, -, -, -, -, -, -, -, -, -, -, -, -, -
evening set	4586 Jun 21 03:06	15° <b>©</b> 08'47		evening set	4587 Jun 01 20:31	25° <b>II</b> 46'28	
-				-		23° <b>I</b> I4028	
desc. node	4586 Jun 22 19:08	14°5546'19	201.4102	desc. node	4587 Jun 09 16:11		0015100
inferior conj	4586 Jun 30 09:32	11° <b>©</b> 11'41		inferior conj	4587 Jun 10 12:27	21° <b>∐</b> 41'22	
minimum elong	4586 Jun 30 03:18	11° <b>©</b> 20'37	2°11'50	minimum elong	4587 Jun 10 11:47	21° <b>Ⅱ</b> 42′26	0°14'47
min. Earth dist.	4586 Jul 01 11:26	10° <b>©</b> 34'29	0.54885 AU	transit middle	4587 Jun 10 11:47	21° <b>∏</b> 42′26	0°14'47
morning rise	4586 Jul 09 02:51	7° <b>5</b> 05'46		transit begin	4587 Jun 10 10:18	21° <b>Ⅱ</b> 44'49	
direct	4586 Jul 12 21:27	6° <b>ॐ</b> 35′04		transit end	4587 Jun 10 13:17	21° <b>Ⅱ</b> 40′03	
morning max el	4586 Jul 26 03:04	12° <b>9</b> 58'04	23°12'31	min. Earth dist.	4587 Jun 13 01:04	20° <b>Ⅱ</b> 04'49	0.55757 AU
	4586 Aug 08 00:53	$0^{\circ}\Omega$		morning rise	4587 Jun 19 00:23	17° <b>Ⅲ</b> 04'10	
asc. node	4586 Aug 13 02:12	9° <b>Ω</b> 09'26		direct	4587 Jun 23 15:47	16° <b>Ⅱ</b> 15'41	
morning set	4586 Aug 18 06:45	19° <b>Ω</b> 41'21		morning max el	4587 Jul 07 16:44		24°55'24
morning set	4586 Aug 23 02:14	0°m		morning max er	4587 Jul 13 16:45	0°95	24 33 24
	4380 Aug 23 02.14	עוויט		aga mada	4587 Jul 30 23:14	28°\$544'44	
	4506 A 25 07 20	40 m. 47122	1027127	asc. node			
superior conj	4586 Aug 25 07:38	4° m) 47'32	1°37'37		4587 Jul 31 13:58	0°N	
minimum elong	4586 Aug 25 06:04	4° TD 39'03	1°37'30	morning set	4587 Aug 02 18:30	4° <b>Ω</b> 34'16	
max. Earth dist.	4586 Aug 28 00:03	10° <b>m</b> 29'50	1.33635 AU				
evening rise	4586 Sep 01 23:28	20° Mp 41'17		superior conj	4587 Aug 09 17:03	19° <b>Ω</b> 38′26	1°26'18
	4586 Sep 06 19:56	0∘ <b>亚</b>		minimum elong	4587 Aug 09 14:52	19° <b>Ω</b> 26′30	1°26'02
desc. node	4586 Sep 18 18:29	20° <b>₽</b> 08'02		max. Earth dist.	4587 Aug 11 04:40	22° <b>Ω</b> 52′29	1.32665 AU
	4586 Sep 25 16:10	0° <b>M</b> .			4587 Aug 14 12:24	0° <b>m</b> )	
evening max el	4586 Oct 06 06:13	12°M13'32	27°18'58	evening rise	4587 Aug 16 21:38	4° m 57'49	
retrograde	4586 Oct 19 17:55	19°M31'54		Č			
evening set	4586 Oct 26 17:43				-	0∘ <b>ত</b>	
min. Earth dist.		16°III.51'47		desc node	4587 Aug 30 11:28	0° <b>ჲ</b> 9° <b>ჲ</b> 28'22	
mm. Laith dist.		16°M51'47	0.64557 ATT	desc. node	4587 Aug 30 11:28 4587 Sep 05 15:30	9° <b>≏</b> 28'22	27°25'51
	4586 Oct 30 12:49	13°M20'44		desc. node evening max el	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25	9° <b>£</b> 28′22 25° <b>£</b> 14′03	27°25'51
inferior conj	4586 Oct 30 12:49 4586 Nov 01 20:23	13°M20'44 10°M51'01	-2°22'48	evening max el	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49	9° <b>£</b> 28′22 25° <b>£</b> 14′03 0° <b>M</b>	27°25'51
inferior conj minimum elong	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29	13°M20'44 10°M51'01 10°M39'58	-2°22'48	evening max el retrograde	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10	9° <b>Ω</b> 28'22 25° <b>Ω</b> 14'03 0°M 2°M29'17	27°25'51
inferior conj minimum elong morning rise	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29 4586 Nov 08 08:27	13°M20'44 10°M51'01 10°M39'58 5°M23'20	-2°22'48	evening max el	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10 4587 Oct 09 14:34	9° <b>£</b> 28'22 25° <b>£</b> 14'03 0° <b>M</b> 2° <b>M</b> 29'17 29° <b>£</b> 58'20	27°25'51
inferior conj minimum elong morning rise asc. node	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29 4586 Nov 08 08:27 4586 Nov 09 01:23	13°M20'44 10°M51'01 10°M39'58 5°M23'20 5°M07'14	-2°22'48	evening max el retrograde evening set	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10 4587 Oct 09 14:34 4587 Oct 09 13:36	9° <b>£</b> 28'22 25° <b>£</b> 14'03 0° <b>M</b> 2° <b>M</b> 29'17 29° <b>£</b> 58'20 30° <b>R£</b>	
inferior conj minimum elong morning rise	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29 4586 Nov 08 08:27	13°M20'44 10°M51'01 10°M39'58 5°M23'20	-2°22'48	evening max el retrograde evening set min. Earth dist.	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10 4587 Oct 09 14:34	9° <b>£</b> 28'22 25° <b>£</b> 14'03 0° <b>M</b> 2° <b>M</b> 29'17 29° <b>£</b> 58'20 30° <b>R£</b>	27°25'51 0.62843 AU
inferior conj minimum elong morning rise asc. node	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29 4586 Nov 08 08:27 4586 Nov 09 01:23	13°M20'44 10°M51'01 10°M39'58 5°M23'20 5°M07'14	-2°22'48 2°21'13	evening max el retrograde evening set	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10 4587 Oct 09 14:34 4587 Oct 09 13:36	9° <b>£</b> 28'22 25° <b>£</b> 14'03 0° <b>M</b> 2° <b>M</b> 29'17 29° <b>£</b> 58'20 30° <b>R£</b>	0.62843 AU
inferior conj minimum elong morning rise asc. node direct	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29 4586 Nov 08 08:27 4586 Nov 09 01:23 4586 Nov 10 22:12	13°M20'44 10°M51'01 10°M39'58 5°M23'20 5°M07'14 4°M49'06	-2°22'48 2°21'13	evening max el retrograde evening set min. Earth dist.	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10 4587 Oct 09 14:34 4587 Oct 09 13:36 4587 Oct 13 05:51	9° \$\Delta 28'22\\ 25° \$\Delta 14'03\\ 0° \$\mathbb{M}\\ 2° \$\mathbb{M} 29'17\\ 29° \$\Delta 58'20\\ 30° \$\mathbb{R} \Delta \\ 26° \$\Delta 57'44\\	0.62843 AU -3°24'28
inferior conj minimum elong morning rise asc. node direct	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29 4586 Nov 08 08:27 4586 Nov 09 01:23 4586 Nov 10 22:12 4586 Nov 17 09:55	13°M20'44 10°M51'01 10°M39'58 5°M23'20 5°M07'14 4°M49'06 8°M15'07	-2°22'48 2°21'13	evening max el retrograde evening set min. Earth dist. inferior conj	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10 4587 Oct 09 14:34 4587 Oct 09 13:36 4587 Oct 13 05:51 4587 Oct 16 01:00	9° <b>Ω</b> 28'22 25° <b>Ω</b> 14'03 0° <b>M</b> 2° <b>M</b> 29'17 29° <b>Ω</b> 58'20 30° <b>R Ω</b> 26° <b>Ω</b> 57'44 24° <b>Ω</b> 15'42	0.62843 AU -3°24'28
inferior conj minimum elong morning rise asc. node direct morning max el	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29 4586 Nov 08 08:27 4586 Nov 09 01:23 4586 Nov 10 22:12 4586 Nov 17 09:55 4586 Dec 02 02:26	13°M20'44 10°M51'01 10°M39'58 5°M23'20 5°M07'14 4°M49'06 8°M15'07 0°\$\mathref{Z}\$	-2°22'48 2°21'13	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10 4587 Oct 09 14:34 4587 Oct 09 13:36 4587 Oct 13 05:51 4587 Oct 16 01:00 4587 Oct 16 06:39	9° \$\Pi 28'22\) 25° \$\Pi 14'03\) 0° \$\mathbb{M}\) 2° \$\mathbb{M} 29'17\) 29° \$\Pi 58'20\) 30° \$\RPhi \text{2}\) 26° \$\Pi 57'44\) 24° \$\Pi 15'42\) 24° \$\Pi 02'02\)	0.62843 AU -3°24'28
inferior conj minimum elong morning rise asc. node direct morning max el	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29 4586 Nov 08 08:27 4586 Nov 09 01:23 4586 Nov 10 22:12 4586 Nov 17 09:55 4586 Dec 02 02:26 4586 Dec 04 18:22	13°M20'44 10°M51'01 10°M39'58 5°M23'20 5°M07'14 4°M49'06 8°M15'07 0°  ✓ 4°  ✓ 29'02	-2°22'48 2°21'13	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10 4587 Oct 09 14:34 4587 Oct 09 13:36 4587 Oct 13 05:51 4587 Oct 16 01:00 4587 Oct 16 06:39 4587 Oct 23 00:19	9° \$\Pi 28'22 \\ 25° \$\Pi 14'03 \\ 0° \$\mathbb{M} \\ 2° \$\mathbb{M} 29'17 \\ 29° \$\Pi 58'20 \\ 30° \$\mathbb{A} \\ 26° \$\Pi 57'44 \\ 24° \$\Pi 15'42 \\ 24° \$\Pi 02'02 \\ 19° \$\Pi 05'25 \\	0.62843 AU -3°24'28
inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29 4586 Nov 08 08:27 4586 Nov 09 01:23 4586 Nov 10 22:12 4586 Nov 17 09:55 4586 Dec 02 02:26 4586 Dec 04 18:22 4586 Dec 15 17:47	13°M20'44 10°M39'58 5°M23'20 5°M07'14 4°M49'06 8°M15'07 0°\$\mathred{x}\$ 4°\$\mathred{x}\$29'02 22°\$\mathred{x}\$39'47	-2°22'48 2°21'13 17°57'15	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10 4587 Oct 09 14:34 4587 Oct 09 13:36 4587 Oct 13 05:51 4587 Oct 16 01:00 4587 Oct 16 06:39 4587 Oct 23 00:19 4587 Oct 25 09:45 4587 Oct 26 22:28	9° \$\Delta 28'22\) 25° \$\Delta 14'03\) 0° \$\mathbb{m}\$. 2° \$\mathbb{m}.29'17\) 29° \$\Delta 58'20\) 30° \$\mathbb{n}\$\$\Delta 26° \$\Delta 57'44\) 24° \$\Delta 15'42\) 24° \$\Delta 02'02\) 19° \$\Delta 05'25\) 18° \$\Delta 38'58\) 18° \$\Delta 50'04\)	0.62843 AU -3°24'28 3°22'38
inferior conj minimum elong morning rise asc. node direct morning max el  morning set desc. node superior conj	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29 4586 Nov 08 08:27 4586 Nov 09 01:23 4586 Nov 10 22:12 4586 Nov 17 09:55 4586 Dec 02 02:26 4586 Dec 04 18:22 4586 Dec 15 17:47 4586 Dec 18 07:23	13°M20'44 10°M51'01 10°M39'58 5°M23'20 5°M07'14 4°M49'06 8°M15'07 0°\$\s^1\text{29'02} 22°\$\s^1\text{39'47}	-2°22'48 2°21'13 17°57'15	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10 4587 Oct 09 14:34 4587 Oct 13 05:51 4587 Oct 16 01:00 4587 Oct 16 06:39 4587 Oct 23 00:19 4587 Oct 25 09:45 4587 Oct 26 22:28 4587 Nov 01 02:28	9° \$\Delta 28'22\) 25° \$\Delta 14'03\) 0° \$\mathbb{m}\$. 2° \$\mathbb{m} 29'17\) 29° \$\Delta 58'20\) 30° \$\mathbb{n}\$\$\Delta 26° \$\Delta 57'44\) 24° \$\Delta 02'02\) 19° \$\Delta 05'25\) 18° \$\Delta 38'58\) 18° \$\Delta 50'04\) 22° \$\Delta 05'26\)	0.62843 AU -3°24'28
inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29 4586 Nov 08 08:27 4586 Nov 09 01:23 4586 Nov 10 22:12 4586 Nov 17 09:55 4586 Dec 02 02:26 4586 Dec 04 18:22 4586 Dec 15 17:47 4586 Dec 18 07:23 4586 Dec 18 05:16	13°M20'44 10°M51'01 10°M39'58 5°M23'20 5°M07'14 4°M49'06 8°M15'07 0°\$\sqrt{4}\$'\sqrt{29'02} 22°\$\sqrt{3}\$'39'47 26°\$\sqrt{4}\$'24 26°\$\sqrt{3}\$'51	-2°22'48 2°21'13 17°57'15	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10 4587 Oct 09 14:34 4587 Oct 13 05:51 4587 Oct 16 01:00 4587 Oct 16 06:39 4587 Oct 23 00:19 4587 Oct 25 09:45 4587 Oct 26 22:28 4587 Nov 01 02:28 4587 Nov 07 04:40	9° \$\Delta 28'22\) 25° \$\Delta 14'03\) 0° \$\mathbb{M}\) 2° \$\mathbb{M}\t29'17\) 29° \$\Delta 58'20\) 30° \$\mathbb{R}\Delta \) 26° \$\Delta 57'44\) 24° \$\Delta 02'02\) 19° \$\Delta 05'25\) 18° \$\Delta 38'58\) 18° \$\Delta 50'04\) 22° \$\Delta 05'26\) 0° \$\mathbb{M}\tag{6}	0.62843 AU -3°24'28 3°22'38
inferior conj minimum elong morning rise asc. node direct morning max el  morning set desc. node  superior conj minimum elong	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29 4586 Nov 08 08:27 4586 Nov 09 01:23 4586 Nov 10 22:12 4586 Nov 17 09:55 4586 Dec 02 02:26 4586 Dec 04 18:22 4586 Dec 15 17:47 4586 Dec 18 07:23 4586 Dec 20 07:17	13°M20'44 10°M51'01 10°M39'58 5°M23'20 5°M07'14 4°M49'06 8°M15'07 0°  ✓ 4° ✓ 29'02 22° ✓ 39'47 26° ✓ 48'24 26° ✓ 39'51 0°  ♂	-2°22'48 2°21'13 17°57'15 -0°17'44 0°17'25	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10 4587 Oct 09 14:34 4587 Oct 13 05:51 4587 Oct 16 01:00 4587 Oct 16 06:39 4587 Oct 23 00:19 4587 Oct 25 09:45 4587 Oct 26 22:28 4587 Nov 01 02:28 4587 Nov 07 04:40 4587 Nov 17 05:46	9° \$\Delta 28'22\) 25° \$\Delta 14'03\) 0° \$\mathbb{M}\$. 2° \$\mathbb{M} 29'17\) 29° \$\Delta 58'20\) 30° \$\mathbb{R} \Delta \) 26° \$\Delta 57'44\) 24° \$\Delta 02'02\) 19° \$\Delta 05'25\) 18° \$\Delta 38'58\) 18° \$\Delta 50'04\) 22° \$\Delta 05'26\) 0° \$\mathbb{M}\$. 17° \$\mathbb{M} 06'31	0.62843 AU -3°24'28 3°22'38
inferior conj minimum elong morning rise asc. node direct morning max el  morning set desc. node  superior conj minimum elong  max. Earth dist.	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29 4586 Nov 08 08:27 4586 Nov 09 01:23 4586 Nov 10 22:12 4586 Nov 17 09:55 4586 Dec 02 02:26 4586 Dec 04 18:22 4586 Dec 15 17:47  4586 Dec 18 07:23 4586 Dec 18 05:16 4586 Dec 20 07:17 4586 Dec 22 21:08	13°M20'44 10°M51'01 10°M39'58 5°M23'20 5°M07'14 4°M49'06 8°M15'07 0°  4°  4°  22°  39'47  26°  48'24 26°  39'51 0°  4°  30'5'25	-2°22'48 2°21'13 17°57'15	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10 4587 Oct 09 14:34 4587 Oct 13 05:51 4587 Oct 16 01:00 4587 Oct 16 06:39 4587 Oct 23 00:19 4587 Oct 25 09:45 4587 Oct 26 22:28 4587 Nov 01 02:28 4587 Nov 07 04:40	9° \$\Delta 28'22\) 25° \$\Delta 14'03\) 0° \$\mathbb{M}\) 2° \$\mathbb{M}\t29'17\) 29° \$\Delta 58'20\) 30° \$\mathbb{R}\Delta \) 26° \$\Delta 57'44\) 24° \$\Delta 02'02\) 19° \$\Delta 05'25\) 18° \$\Delta 38'58\) 18° \$\Delta 50'04\) 22° \$\Delta 05'26\) 0° \$\mathbb{M}\tag{6}	0.62843 AU -3°24'28 3°22'38
inferior conj minimum elong morning rise asc. node direct morning max el  morning set desc. node  superior conj minimum elong	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29 4586 Nov 08 08:27 4586 Nov 09 01:23 4586 Nov 10 22:12 4586 Nov 17 09:55 4586 Dec 02 02:26 4586 Dec 04 18:22 4586 Dec 15 17:47  4586 Dec 18 07:23 4586 Dec 18 05:16 4586 Dec 20 07:17 4586 Dec 22 21:08 4587 Jan 03 11:59	13°M20'44 10°M51'01 10°M39'58 5°M23'20 5°M07'14 4°M49'06 8°M15'07 0° ** 4° **29'02 22° **39'47 26° ***48'24 26° **39'51 0° ** 4° **305'25 22° **311'07	-2°22'48 2°21'13 17°57'15 -0°17'44 0°17'25	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10 4587 Oct 09 14:34 4587 Oct 13 05:51 4587 Oct 16 01:00 4587 Oct 16 06:39 4587 Oct 23 00:19 4587 Oct 25 09:45 4587 Nov 17 05:46 4587 Nov 17 05:46 4587 Nov 24 14:44	9° № 28'22 25° № 14'03 0° № 2° № 29'17 29° № 58'20 30° № 2 26° № 57'44 24° № 15'42 24° № 02'02 19° № 05'25 18° № 38'58 18° № 50'04 22° № 05'26 0° № 17° № 06'31 0° ✓	0.62843 AU -3°24'28 3°22'38 17°49'53
inferior conj minimum elong morning rise asc. node direct morning max el  morning set desc. node  superior conj minimum elong  max. Earth dist. evening rise	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29 4586 Nov 08 08:27 4586 Nov 09 01:23 4586 Nov 10 22:12 4586 Nov 17 09:55 4586 Dec 02 02:26 4586 Dec 04 18:22 4586 Dec 18 07:23 4586 Dec 18 05:16 4586 Dec 20 07:17 4586 Dec 22 21:08 4587 Jan 03 11:59 4587 Jan 08 14:23	13°M.20'44 10°M.51'01 10°M.39'58 5°M.23'20 5°M.07'14 4°M.49'06 8°M.15'07 0°   4°   22°   22°   39'47  26°   4°   39'51 0°   4°   4°   505'25 22°   511'07 0°   6%	-2°22'48 2°21'13 17°57'15 -0°17'44 0°17'25 1.44857 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10 4587 Oct 09 14:34 4587 Oct 13 05:51 4587 Oct 16 01:00 4587 Oct 16 06:39 4587 Oct 23 00:19 4587 Oct 25 09:45 4587 Nov 17 05:46 4587 Nov 17 05:46 4587 Nov 28 19:55	9° № 28'22 25° № 14'03 0° № 2° № 29'17 29° № 58'20 30° № 2 26° № 57'44 24° № 15'42 24° № 02'02 19° № 05'25 18° № 38'58 18° № 50'04 22° № 05'26 0° № 17° № 06'31 0° ✓	0.62843 AU -3°24'28 3°22'38 17°49'53
inferior conj minimum elong morning rise asc. node direct morning max el  morning set desc. node  superior conj minimum elong  max. Earth dist. evening rise  greatest brilliancy	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29 4586 Nov 08 08:27 4586 Nov 09 01:23 4586 Nov 10 22:12 4586 Nov 17 09:55 4586 Dec 02 02:26 4586 Dec 04 18:22 4586 Dec 18 07:23 4586 Dec 18 05:16 4586 Dec 20 07:17 4586 Dec 22 21:08 4587 Jan 03 11:59 4587 Jan 08 14:23 4587 Jan 18 01:45	13°M.20'44 10°M.51'01 10°M.39'58 5°M.23'20 5°M.07'14 4°M.49'06 8°M.15'07 0°    4°    22°   39'47 26°   4°   39'51 0°   4°   605'25 22°   11'07 0°   14°   14'   14'39	-2°22'48 2°21'13 17°57'15 -0°17'44 0°17'25 1.44857 AU -0.6m	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10 4587 Oct 09 14:34 4587 Oct 13 05:51 4587 Oct 16 01:00 4587 Oct 16 06:39 4587 Oct 23 00:19 4587 Oct 25 09:45 4587 Nov 10 02:28 4587 Nov 01 02:28 4587 Nov 17 05:46 4587 Nov 24 14:44 4587 Nov 28 19:55 4587 Nov 28 22:27	9° № 28'22 25° № 14'03 0° № 2° № 29'17 29° № 58'20 30° № 26° № 57'44 24° № 15'42 24° № 02'02 19° № 05'25 18° № 38'58 18° № 50'04 22° № 05'26 0° № 17° № 06'31 0° ※ 7° ※ 09'32 7° ※ 20'06	0.62843 AU -3°24'28 3°22'38 17°49'53
inferior conj minimum elong morning rise asc. node direct morning max el  morning set desc. node  superior conj minimum elong  max. Earth dist. evening rise	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29 4586 Nov 08 08:27 4586 Nov 09 01:23 4586 Nov 10 22:12 4586 Nov 17 09:55 4586 Dec 02 02:26 4586 Dec 04 18:22 4586 Dec 18 07:23 4586 Dec 18 05:16 4586 Dec 20 07:17 4586 Dec 22 21:08 4587 Jan 03 11:59 4587 Jan 08 14:23 4587 Jan 18 01:45 4587 Jan 30 03:07	13°M.20'44 10°M.51'01 10°M.39'58 5°M.23'20 5°M.07'14 4°M.49'06 8°M.15'07 0°    4°    22°   39'47 26°   4°   39'51 0°   4°   60'5'25 22°   11'07 0°   14°   14'39 0°   14'04'31	-2°22'48 2°21'13 17°57'15 -0°17'44 0°17'25 1.44857 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10 4587 Oct 09 14:34 4587 Oct 13 05:51 4587 Oct 16 01:00 4587 Oct 16 06:39 4587 Oct 23 00:19 4587 Oct 25 09:45 4587 Nov 17 05:46 4587 Nov 17 05:46 4587 Nov 28 19:55	9° № 28'22 25° № 14'03 0° № 2° № 29'17 29° № 58'20 30° № 26° № 57'44 24° № 15'42 24° № 02'02 19° № 05'25 18° № 38'58 18° № 50'04 22° № 05'26 0° № 17° № 06'31 0° ※ 7° ※ 09'32 7° ※ 20'06 13° ※ 26'12	0.62843 AU -3°24'28 3°22'38 17°49'53
inferior conj minimum elong morning rise asc. node direct morning max el  morning set desc. node  superior conj minimum elong  max. Earth dist. evening rise  greatest brilliancy	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29 4586 Nov 08 08:27 4586 Nov 09 01:23 4586 Nov 10 22:12 4586 Nov 17 09:55 4586 Dec 02 02:26 4586 Dec 04 18:22 4586 Dec 15 17:47  4586 Dec 18 07:23 4586 Dec 18 05:16 4586 Dec 20 07:17 4586 Dec 22 21:08 4587 Jan 03 11:59 4587 Jan 08 14:23 4587 Jan 18 01:45	13°M.20'44 10°M.51'01 10°M.39'58 5°M.23'20 5°M.07'14 4°M.49'06 8°M.15'07 0°    4°    22°   39'47 26°   4°   39'51 0°   4°   605'25 22°   11'07 0°   14°   14'   14'39	-2°22'48 2°21'13 17°57'15 -0°17'44 0°17'25 1.44857 AU -0.6m	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10 4587 Oct 09 14:34 4587 Oct 13 05:51 4587 Oct 16 01:00 4587 Oct 16 06:39 4587 Oct 23 00:19 4587 Oct 25 09:45 4587 Nov 10 02:28 4587 Nov 01 02:28 4587 Nov 17 05:46 4587 Nov 24 14:44 4587 Nov 28 19:55 4587 Nov 28 22:27	9° № 28'22 25° № 14'03 0° № 2° № 29'17 29° № 58'20 30° № 26° № 57'44 24° № 15'42 24° № 02'02 19° № 05'25 18° № 38'58 18° № 50'04 22° № 05'26 0° № 17° № 06'31 0° ※ 7° ※ 09'32 7° ※ 20'06	0.62843 AU -3°24'28 3°22'38 17°49'53
inferior conj minimum elong morning rise asc. node direct morning max el  morning set desc. node  superior conj minimum elong  max. Earth dist. evening rise  greatest brilliancy	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29 4586 Nov 08 08:27 4586 Nov 09 01:23 4586 Nov 10 22:12 4586 Nov 17 09:55 4586 Dec 02 02:26 4586 Dec 04 18:22 4586 Dec 18 07:23 4586 Dec 18 05:16 4586 Dec 20 07:17 4586 Dec 22 21:08 4587 Jan 03 11:59 4587 Jan 08 14:23 4587 Jan 18 01:45 4587 Jan 30 03:07	13°M.20'44 10°M.51'01 10°M.39'58 5°M.23'20 5°M.07'14 4°M.49'06 8°M.15'07 0°    4°    22°   39'47 26°   4°   39'51 0°   4°   60'5'25 22°   11'07 0°   14°   14'39 0°   14'04'31	-2°22'48 2°21'13 17°57'15 -0°17'44 0°17'25 1.44857 AU -0.6m	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10 4587 Oct 09 14:34 4587 Oct 13 05:51 4587 Oct 16 01:00 4587 Oct 16 06:39 4587 Oct 23 00:19 4587 Oct 25 09:45 4587 Oct 26 22:28 4587 Nov 07 04:40 4587 Nov 17 05:46 4587 Nov 28 19:55 4587 Nov 28 19:55 4587 Nov 28 22:27 4587 Dec 02 14:48	9° № 28'22 25° № 14'03 0° № 2° № 29'17 29° № 58'20 30° № 26° № 57'44 24° № 15'42 24° № 02'02 19° № 05'25 18° № 38'58 18° № 50'04 22° № 05'26 0° № 17° № 06'31 0° ※ 7° ※ 09'32 7° ※ 20'06 13° ※ 26'12	0.62843 AU -3°24'28 3°22'38 17°49'53 0°26'22 0°26'00
inferior conj minimum elong morning rise asc. node direct morning max el  morning set desc. node  superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el	4586 Oct 30 12:49 4586 Nov 01 20:23 4586 Nov 02 00:29 4586 Nov 08 08:27 4586 Nov 09 01:23 4586 Nov 10 22:12 4586 Nov 17 09:55 4586 Dec 02 02:26 4586 Dec 04 18:22 4586 Dec 15 17:47  4586 Dec 18 07:23 4586 Dec 18 05:16 4586 Dec 20 07:17 4586 Dec 22 21:08 4587 Jan 03 11:59 4587 Jan 08 14:23 4587 Jan 18 01:45 4587 Jan 30 03:07 4587 Jan 30 01:21	13°M20'44 10°M51'01 10°M39'58 5°M23'20 5°M07'14 4°M49'06 8°M15'07 0°  4°  4°  4°  4°  4°  4°  505'25 22°  511'07 0°  14°  14°  14'39 0°  14'04'31 0°  14'  10'  10'  10'  10'  10'  10'  10'	-2°22'48 2°21'13 17°57'15 -0°17'44 0°17'25 1.44857 AU -0.6m	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node	4587 Aug 30 11:28 4587 Sep 05 15:30 4587 Sep 18 16:25 4587 Sep 24 17:49 4587 Oct 02 10:10 4587 Oct 09 14:34 4587 Oct 13 05:51 4587 Oct 16 01:00 4587 Oct 16 06:39 4587 Oct 23 00:19 4587 Oct 25 09:45 4587 Oct 26 22:28 4587 Nov 01 02:28 4587 Nov 07 04:40 4587 Nov 17 05:46 4587 Nov 28 19:55 4587 Nov 28 22:27 4587 Dec 02 14:48 4587 Dec 05 13:51	9° \$\Pi 28'22\) 25° \$\Pi 14'03\) 0° \$\mathbb{m}\$. 2° \$\mathbb{m}\$.29'17\) 29° \$\Pi 58'20\) 30° \$\RPi\$\$. 26° \$\Pi 57'44\) 24° \$\Pi 05'25\) 18° \$\Pi 05'25\) 18° \$\Pi 05'25\) 18° \$\Pi 05'26\) 0° \$\mathbb{m}\$. 17° \$\mathbb{m}\$.06'31\) 0° \$\strict{s}\$\$ 7° \$\strict{s}\$.20'06\) 13° \$\strict{s}\$.26'12\] 18° \$\strict{s}\$.14'56	0.62843 AU -3°24'28 3°22'38 17°49'53 0°26'22 0°26'00

	4588 Jan 02 04:54	0° <b>≈</b>		evening max el	4588 Dec 25 20:05	27° <b>る</b> 13'42	22°29'31
evening max el	4588 Jan 13 02:12	13° <b>≈</b> 38'23	21°13'06	evening man er	4588 Dec 28 20:47	0°≈	
retrograde	4588 Jan 21 18:02	18° <b>≈</b> 46'14	21 13 00	retrograde	4589 Jan 04 14:12	3° <b>≈</b> 01'38	
asc. node	4588 Jan 22 21:42	18° <b>≈</b> 39'03		asc. node	4589 Jan 08 18:45	1°≈29'31	
evening set	4588 Jan 25 21:53	17° <b>≈</b> 09'03		evening set	4589 Jan 09 05:23	1°≈08'37	
inferior conj	4588 Jan 31 06:05	10°≈54'57	2°31'06	evening set	4589 Jan 10 10:52	30°Rる	
minimum elong	4588 Jan 31 03:39	10 ≈03+37 11°≈03'25	2°30'24	inferior conj	4589 Jan 14 13:58	24° <b>る</b> 46'38	1°51'26
min. Earth dist.	4588 Jan 31 13:55	11 ≈03 23 10°≈27'55	0.67837 AU	minimum elong	4589 Jan 14 11:48	24°る54'10	1°50'40
morning rise	4588 Feb 05 09:14	4°≈42'20	0.07037 AC	min. Earth dist.	4589 Jan 14 10:09	24°る59'52	0.68064 AU
direct	4588 Feb 10 14:56	2°≈24'48		morning rise	4589 Jan 19 18:07	18°る37'02	0.08004 AU
morning max el	4588 Feb 21 02:38	2 ≈2448 8°≈39'03	23°29'35	direct	4589 Jan 24 09:03	16°る42'06	
desc. node	4588 Feb 28 14:01	8 ≈3903 17°≈19'03	23 29 33		4589 Feb 02 14:38	10 342 00 22° <b>る</b> 06'51	22°01'50
desc. node		17 <b>≈</b> 1903		morning max el	4589 Feb 02 14.38 4589 Feb 09 09:35		22 01 30
. ,	4588 Mar 08 20:24			1 1		0° <b>≈</b>	
morning set	4588 Mar 27 06:54	28° <b>)</b> 52'59		desc. node	4589 Feb 14 11:04	6°≈46'15	
E 4 E	4588 Mar 27 22:43	0°Υ 5° <b>Ω</b> 4 <b>7</b> 122	1 20020 411		4589 Mar 02 04:10	0° <b>\</b>	
max. Earth dist.	4588 Mar 31 07:14	5° <b>Ƴ</b> 47'33	1.39038 AU	morning set	4589 Mar 07 12:45	8° <b>)</b> € 28'53	
				max. Earth dist.	4589 Mar 13 05:24	17° <b>¥</b> 49'40	1.41201 AU
superior conj	4588 Apr 07 19:49	19° <b>Y</b> 25′03			4589 Mar 20 07:25	$0^{\circ}$ Y	
minimum elong	4588 Apr 08 00:43	19° <b>Ƴ</b> 47'53	1°41'12				
	4588 Apr 13 09:14	0°B		superior conj	4589 Mar 20 23:03	1° <b>Y</b> ′09′01	
evening rise	4588 Apr 17 02:58	7° <b>8</b> 14'59		minimum elong	4589 Mar 21 02:55	1° <b>Y</b> 26′10	2°00'44
asc. node	4588 Apr 19 21:00	12° <b>8</b> 32'38		evening rise	4589 Mar 31 11:15	20° <b>Y</b> 20′08	
	4588 Apr 30 07:41	$\Pi$ $\circ 0$			4589 Apr 05 17:34	$9^{\circ}$ 8	
evening max el	4588 May 03 09:22	3° <b>Ⅲ</b> 30′15	18°42'35	asc. node	4589 Apr 06 18:02	1° <b>8</b> 48'42	
retrograde	4588 May 11 10:32	7° <b>Ⅲ</b> 27'32		evening max el	4589 Apr 16 17:05	16° <b>8</b> 12'50	18°14'49
evening set	4588 May 13 14:51	7° <b>Ⅱ</b> 11'11		retrograde	4589 Apr 23 18:24	19° <b>8</b> 44'56	
inferior conj	4588 May 21 10:54	2° <b>∏</b> 48'14	1°26'12	evening set	4589 Apr 26 05:24	19° <b>8</b> 20'00	
minimum elong	4588 May 21 13:51	2° <b>Ⅱ</b> 42'43	1°25'14	inferior conj	4589 May 03 06:47	14° <b>8</b> 36'37	2°36'33
min. Earth dist.	4588 May 24 18:03	0° <b>Ⅲ</b> 21'39	0.57398 AU	minimum elong	4589 May 03 10:16	14° <b>8</b> 28'59	2°35'41
	4588 May 25 06:24	30° <b>₹</b> 8		min. Earth dist.	4589 May 06 16:33	11° <b>8</b> 39'29	0.59484 AU
desc. node	4588 May 26 13:13	29° <b>8</b> 08'55		morning rise	4589 May 10 12:25	8° <b>8</b> 55'18	
morning rise	4588 May 29 09:36	27° <b>8</b> 35'29		desc. node	4589 May 13 10:15	7° <b>8</b> 36'26	
direct	4588 Jun 03 23:50	26° <b>8</b> 18'24		direct	4589 May 16 21:14	7° <b>8</b> 03'22	
	4588 Jun 13 19:24	0°II		morning max el	4589 May 31 06:14	14° <b>8</b> 53'35	27°26'31
morning max el	4588 Jun 18 08:32	3° <b>∏</b> 50'46	26°24'53	morning man er	4589 Jun 12 10:56	0°II	2, 2001
morning max or	4588 Jul 07 06:07	0.20 10	20 2133		4589 Jun 29 14:16	0°©	
asc. node	4588 Jul 16 20:17	18° <b>©</b> 36'02		morning set	4589 Jul 01 13:13	4°901'42	
morning set	4588 Jul 17 05:14	19° <b>©</b> 23'11		asc. node	4589 Jul 03 17:19	8°937'13	
morning set	4588 Jul 22 02:56	0°Ω		max. Earth dist.	4589 Jul 08 02:12		1.31976 AU
	4388 Jul 22 02.30	0 02		max. Earth dist.	4309 Jul 00 02.12	10 30029	1.31970 AU
superior conj	4588 Jul 24 04:33	4° <b>Ω</b> 33'33	1°10'11	superior conj	4589 Jul 08 16:16	19° <b>©</b> 26'03	0°49'52
minimum elong	4588 Jul 24 02:15	4°Ω20'49	1°09'48	minimum elong	4589 Jul 08 14:18	19° <b>©</b> 15'12	0°49'29
max. Earth dist.	4588 Jul 24 14:39	5° <b>Ω</b> 29'15	1.32116 AU	minimum ciong	4589 Jul 13 11:43	0°Ω	0 4727
evening rise	4588 Jul 31 02:33	19° <b>Ω</b> 32'49	1.52110 AC	evening rise	4589 Jul 15 11:43	4° <b>Ω</b> 17'47	
evening rise	4588 Aug 05 06:49	0° m)		evening rise	4589 Jul 29 02:37	0°m)	
desc. node	4588 Aug 22 12:32	ران 03°11 28° Mg 03′11		desc. node	4589 Aug 09 09:33	15° Mp 33'25	
desc. Hode	4588 Aug 24 00:59	0° <b>Ω</b>		evening max el	4589 Aug 12 19:44	19° My 06'56	26°01'05
avanina may al	4588 Aug 30 21:44	0 <b>==</b> 7° <b>£</b> 34'55	26950150	retrograde	4589 Aug 26 18:58	26° m) 14'53	20 01 03
evening max el	· ·	7 <b>=</b> 34 33 14° <b>£</b> 46'04	20 39 30	•	•	-•	
retrograde	4588 Sep 13 18:54			evening set	4589 Sep 02 03:19	24° My 37'53	0.50000 ATT
evening set min. Earth dist.	4588 Sep 20 19:24	12° <b>Ω</b> 36'16	0.0076.411	min. Earth dist.	4589 Sep 06 08:18	22° Mp 02'29	0.58800 AU
	4588 Sep 24 11:58	9° <b>Ω</b> 56'27	0.60876 AU	inferior conj	4589 Sep 09 14:02	19° Mp 39'08	
inferior conj	4588 Sep 27 16:05	7° <b>Ω</b> 15'01		minimum elong	4589 Sep 09 18:10		5°00'52
minimum elong	4588 Sep 27 22:10	7° <b>Ω</b> 02'04	4°18'51	morning rise	4589 Sep 17 11:15	15° Mp 12'56	
morning rise	4588 Oct 05 02:50	2° <b>Ω</b> 25'42		direct	4589 Sep 19 21:17	14° <b>m</b> 53'33	
direct	4588 Oct 07 10:59	2° <b>Ω</b> 03'59		morning max el	4589 Sep 28 00:01	18° <b>m</b> ) 47'24	18°32'51
asc. node	4588 Oct 12 19:31	4° <b>Ω</b> 03'14		asc. node	4589 Sep 29 16:33	20° m/33'37	
morning max el	4588 Oct 14 16:17	5° <b>Ω</b> 39'15	18°01'17		4589 Oct 06 06:03	0∘ <b>ত</b>	
morning set	4588 Oct 30 10:29	0°M33'01		morning set	4589 Oct 14 03:21	14° <b>≏</b> 33'44	
	4588 Oct 30 03:21	0°M₊			4589 Oct 22 04:31	0° <b>M</b>	
	4500 37 00 10 5	100 <b>m</b> (=:::	1001104		4500.0 : 22.55	10W 2005	1004154
superior conj	4588 Nov 09 10:51	18°M47'46	1°01'04	superior conj	4589 Oct 22 23:53	1°M30'37	
minimum elong	4588 Nov 09 14:54	19° <b>M</b> 05'38	1°00'34	minimum elong	4589 Oct 23 03:18	1°M46'29	1°24'35
	4588 Nov 15 22:56	0° <b>∡</b> ″		max. Earth dist.	4589 Oct 30 08:39	14° <b>M</b> 47'18	1.40044 AU
max. Earth dist.	4588 Nov 17 01:58	1° <b>∡</b> 52'57	1.42062 AU	evening rise	4589 Nov 03 13:45	21°M58'25	
desc. node	4588 Nov 18 11:50	4° <b>≯</b> 13'09		desc. node	4589 Nov 05 08:52	24°M57'09	
evening rise	4588 Nov 22 19:23	11° <b>∡</b> 12'43			4589 Nov 08 11:36	0° <b>∡</b> ″	
	4588 Dec 05 01:40	0°₹			4589 Nov 29 02:32	0°₹	

evening max el	4589 Dec 08 10:14	10° <b>る</b> 52'15	23°49'30		4590 Nov 01 13:28	0° <b>∡</b> ¹	
retrograde	4589 Dec 19 07:16	10 <b>3</b> 32 15	25 47 50	evening max el	4590 Nov 20 22:51	24° <b>х</b> 34'32	25°06'29
evening set	4589 Dec 24 11:09	15°る08'20		evening max or	4590 Nov 27 20:18	0°る	25 00 25
asc. node	4589 Dec 26 15:46	12° <b>る</b> 54'57		retrograde	4590 Dec 02 20:08	1° <b>る</b> 27'24	
inferior conj	4589 Dec 29 21:33	8° <b>ප</b> 42'31	1°04'48		4590 Dec 07 08:08	30°R <b>✓</b>	
minimum elong	4589 Dec 29 20:06	8° <b>る</b> 47'29	1°04'13	evening set	4590 Dec 08 13:33	29° <b>₹</b> 04'15	
min. Earth dist.	4589 Dec 29 06:48	9° <b>ප</b> 32'42	0.67921 AU	min. Earth dist.	4590 Dec 13 01:28	24° <b>₹</b> 02'42	0.67429 AU
morning rise	4590 Jan 04 05:03	2° <b>る</b> 37'38		asc. node	4590 Dec 13 12:48	23° <b>₹</b> 25'45	
direct	4590 Jan 08 06:02	1° <b>る</b> 05'22		inferior conj	4590 Dec 14 03:00	22° <b>х</b> 39'11	0°12'06
morning max el	4590 Jan 16 09:06	5° <b>る</b> 45'39	20°42'17	minimum elong	4590 Dec 14 02:42	22° <b>х</b> 40'11	0°11'59
desc. node	4590 Feb 01 08:06	26° <b>る</b> 41'26		transit middle	4590 Dec 14 02:42	22° <b>∡</b> ¹40'11	0°11'59
	4590 Feb 03 13:54	0° <b>≈</b>		transit begin	4590 Dec 14 00:50	22° <b>∡</b> ¹46′18	
morning set	4590 Feb 14 16:57	16° <b>≈</b> 56′05		transit end	4590 Dec 14 04:34	22° <b>х</b> 34′05	
	4590 Feb 22 22:53	0° <b>)</b> €		morning rise	4590 Dec 19 16:04	16° <b>∡</b> 741′10	
max. Earth dist.	4590 Feb 23 10:13	0° <b>)</b> 45′48	1.43099 AU	direct	4590 Dec 23 04:38	15° <b>∡</b> 29'34	
				morning max el	4590 Dec 30 11:22	19° <b>∡</b> ³35′09	19°35'37
superior conj	4590 Mar 02 02:58	11° <b>)(</b> 48'11	-2°08'21		4591 Jan 07 19:40	0° <b>ප</b>	
minimum elong	4590 Mar 02 02:49	11° <b>)(</b> 47'31	2°08'21	greatest brilliancy	4591 Jan 12 13:24	6° <b>る</b> 53'11	-0.7m
	4590 Mar 12 15:55	$0$ ° $\mathbf{Y}$		desc. node	4591 Jan 19 05:07	16° <b>る</b> 56'25	
evening rise	4590 Mar 14 04:06	2° <b>Y</b> 40'05		morning set	4591 Jan 24 13:35	25° <b>る</b> 09'55	
asc. node	4590 Mar 24 15:04	20° <b>Ƴ</b> 37'40			4591 Jan 27 16:32	0° <b>≈</b>	
evening max el	4590 Mar 31 04:55	29° <b>Y</b> 18'20	18°06'43	max. Earth dist.	4591 Feb 05 22:15	14° <b>≈</b> 28'45	1.44494 <b>A</b> U
	4590 Mar 31 22:37	0°B					
retrograde	4590 Apr 06 17:42	2° <b>8</b> 40'44		superior conj	4591 Feb 10 05:12	21° <b>≈</b> 19'18	
evening set	4590 Apr 09 11:04	2° <b>8</b> 05'08		minimum elong	4591 Feb 09 22:52	20°≈53'53	1°58'08
	4590 Apr 12 17:09	30° <b>₹</b> Υ			4591 Feb 15 13:36	0° <b>∀</b>	
inferior conj	4590 Apr 15 21:28	27° <b>℃</b> 01'40	3°17'00	evening rise	4591 Feb 24 01:04	14° <b>)</b> €05'57	
minimum elong	4590 Apr 15 23:43	26° <b>Y</b> 56′01	3°16'40		4591 Mar 05 13:43	0° <b>Υ</b>	
min. Earth dist.	4590 Apr 18 22:47	23°Y58'51	0.61679 AU	asc. node	4591 Mar 11 12:05	8°Υ50'40	
morning rise	4590 Apr 22 10:36	21°Υ02'34		evening max el	4591 Mar 14 17:44	12° <b>Υ</b> 38'18	18°17'35
direct	4590 Apr 29 05:47	18° <b>Ƴ</b> 39'00		retrograde	4591 Mar 21 03:59	16° <b>Υ</b> 05'00	
desc. node	4590 Apr 30 07:17	18° <b>Υ</b> 42'18 26° <b>Υ</b> 38'00	27951151	evening set	4591 Mar 24 03:28	15° <b>Y</b> 17'26 9° <b>Y</b> 54'54	2022121
morning max el	4590 May 13 10:06		27°51'51	inferior conj	4591 Mar 30 02:50	9° <b>Υ</b> 53'21	3°33'30
	4590 May 16 13:59 4590 Jun 06 01:10	0°B 0°B		minimum elong min. Earth dist.	4591 Mar 30 03:23 4591 Apr 01 14:02	7° <b>Υ</b> 08'56	0.63707 AU
morning set	4590 Jun 15 16:30	0 H 18°H23'47		morning rise	4591 Apr 05 02:21	3° <b>Υ</b> 46'28	0.03707 AU
asc. node	4590 Jun 20 14:21	28° <b>II</b> 43'50		direct	4591 Apr 11 22:58	1° <b>Υ</b> 02'32	
asc. node	4590 Jun 21 04:27	0° <b>9</b>		desc. node	4591 Apr 17 04:18	2° <b>Υ</b> 23'27	
max. Earth dist.	4590 Jun 21 11:24		1.32251 AU	morning max el	4591 Apr 25 18:12	9° <b>Υ</b> 00'49	27°39'53
max. Lartii dist.	4370 Juli 21 11.24	0 3737	1.52251710	morning max cr	4591 May 12 01:26	0°8	21 37 33
superior conj	4590 Jun 23 02:29	4°9510'28	0°25'58		4591 May 29 07:59	0° <b>I</b>	
minimum elong	4590 Jun 23 01:18	4°904'05	0°25'42	morning set	4591 May 30 12:46	2° <b>I</b> I22'00	
evening rise	4590 Jun 29 23:06	19° <b>5</b> 06'19		max. Earth dist.	4591 Jun 04 14:26		1.32963 AU
<i>y</i>	4590 Jul 05 06:37	$0^{\circ}\Omega$					
evening max el	4590 Jul 25 10:48	29° <b>Ω</b> 54'18	24°36'30	superior conj	4591 Jun 07 09:21	18° <b>Ⅱ</b> 40′52	-0°00'53
•	4590 Jul 25 13:10	o° mp		minimum elong	4591 Jun 07 09:24	18° <b>Ⅱ</b> 41′07	0°00'53
desc. node	4590 Jul 27 06:33	1° m 33'28		behind sun begin	4591 Jun 07 04:04	18° <b>Ⅱ</b> 12'32	
retrograde	4590 Aug 08 08:14	6° <b>₪</b> 55'04		behind sun end	4591 Jun 07 14:44	19° <b>Ⅱ</b> 09'44	
evening set	4590 Aug 13 10:57	5° Mp 56'22		asc. node	4591 Jun 07 11:23	18° <b>Ⅱ</b> 51'43	
min. Earth dist.	4590 Aug 18 22:02	3°№06′29	0.56882 AU		4591 Jun 12 15:18	$0$ $\circ$ $\odot$	
inferior conj	4590 Aug 21 16:12	1° <b>m</b> 20'02		evening rise	4591 Jun 14 10:50	3° <b>©</b> 52'19	
minimum elong	4590 Aug 21 15:10	1° <b>m</b> 21'41	5°13'48		4591 Jun 28 15:04	$0$ $^{\circ}$ $\Omega$	
	4590 Aug 23 18:56	$30^\circ$ R $\Omega$		evening max el	4591 Jul 06 23:51	10° <b>Ω</b> 18'41	22°59'45
morning rise	4590 Aug 29 21:53	27° <b>Ω</b> 15'15		desc. node	4591 Jul 14 03:32	15° <b>Ω</b> 30'41	
direct	4590 Sep 01 13:03	26° <b>Ω</b> 56′10		retrograde	4591 Jul 20 08:42	16° <b>Ω</b> 58'49	
_	4590 Sep 09 09:19	0° <b>т</b> р		evening set	4591 Jul 23 22:55	16° <b>Ω</b> 30'37	
morning max el	4590 Sep 10 22:23	1° <b>m</b> 20'01	19°25'48	min. Earth dist.	4591 Jul 31 08:42	13° <b>Ω</b> 11'40	
asc. node	4590 Sep 16 13:35	8° m 06'08		inferior conj	4591 Aug 01 23:05	12° <b>Ω</b> 16'10	
morning set	4590 Sep 28 04:32	28° m 58'04		minimum elong	4591 Aug 01 16:03	12° <b>Ω</b> 26'22	4°40'28
	4590 Sep 28 16:54	0∘ <b>⊽</b>		morning rise	4591 Aug 10 11:25	8° <b>Ω</b> 24'46	
	4500 0 : 06 05 05	150 0 0 ::::	1020110	direct	4591 Aug 13 10:29	8° <b>Ω</b> 04'02	20040121
superior conj	4590 Oct 06 05:33		1°38'40	morning max el	4591 Aug 24 09:03	13° <b>Ω</b> 09'15	20°40'21
minimum elong	4590 Oct 06 07:27	15° <b>Ω</b> 11'15	1°38'34	asc. node	4591 Sep 03 10:37	26° <b>Ω</b> 27'00	
max. Earth dist.	4590 Oct 12 12:56	27° <b>Ω</b> 01'14	1.37946 AU	morning sot	4591 Sep 05 11:29	0° Тф 12° Тъ 20146	
avanina rias	4590 Oct 14 04:11	0°M 3°M 47'15		morning set	4591 Sep 12 11:18	13° <b>m</b> 38'46	
evening rise desc. node	4590 Oct 16 07:09 4590 Oct 23 05:52	3°M47'15 15°M33'53		superior conj	4591 Sep 19 23:13	29° m 09'04	10/12/18
acse. Houc	7370 OC 23 U3.32	בר בראוו פיז		superior conj	7371 BCP 17 23.13	47 الال بإزار ك	1 73 70

minimum elong	4591 Sep 19 23:30	29° <b>m</b> 10'33	1°43'47	superior conj	4592 Sep 03 01:09	13° <b>m</b> 39'58	1°41'40
	4591 Sep 20 09:12	0∘ <b>ত</b>		minimum elong	4592 Sep 03 00:07	13° Mp 34'35	1°41'37
max. Earth dist.	4591 Sep 24 20:45	8° <b>£</b> 56'05	1.36009 AU	max. Earth dist.	4592 Sep 06 12:14	20° M 52'59	1.34391 AU
evening rise	4591 Sep 28 20:41	16° <b>≏</b> 32'19		evening rise	4592 Sep 11 01:58	0° <b>ჲ</b> 01'15	
	4591 Oct 06 11:28	0° <b>M</b>			4592 Sep 11 01:42	0∘ <b>⊽</b>	
desc. node	4591 Oct 10 02:53	5°M58'55		desc. node	4592 Sep 25 23:54	26° <b>≏</b> 05'37	
	4591 Oct 26 23:47	0° <b>√</b>			4592 Sep 28 13:16	$0^{\circ}$ M.	
evening max el	4591 Nov 03 11:33	8° <b>∡</b> 17'50	26°13'00	evening max el	4592 Oct 16 00:14	21°M53'16	27°01'41
retrograde	4591 Nov 16 03:54	15° <b>∡</b> ¹27'32		retrograde	4592 Oct 29 06:04	29° <b>™</b> 10′19	
evening set	4591 Nov 22 10:51	12° <b>∡</b> 52'57		evening set	4592 Nov 05 00:54	26°M29'44	
min. Earth dist.	4591 Nov 26 15:46	8° <b>҂</b> ¹26'42	0.66595 AU	min. Earth dist.	4592 Nov 08 23:18	22°M39'11	0.65405 AU
inferior conj	4591 Nov 28 04:31	6° <b>∡</b> ³33'35	-0°45'33	inferior conj	4592 Nov 10 23:56	20°M21'00	-1°46'46
minimum elong	4591 Nov 28 05:44	6° <b>҂</b> ¹29'48	0°45'01	minimum elong	4592 Nov 11 02:58	20° <b>™</b> 12'22	1°45'31
asc. node	4591 Nov 30 09:49	3° <b>х</b> 55′26		asc. node	4592 Nov 16 06:53	15° <b>M</b> 17'44	
morning rise	4591 Dec 04 01:09	0° <b>∡</b> ¹45'01		morning rise	4592 Nov 17 05:58	14° <b>M</b> 44'57	
morning moe	4591 Dec 05 20:45	30°RML		direct	4592 Nov 19 23:34	14°M04'31	
direct	4591 Dec 07 03:11	29°M50'52		morning max el	4592 Nov 26 11:21	17°M33'27	18°09'34
ancet	4591 Dec 08 10:02	0° <b>⊼</b> ¹		morning max or	4592 Dec 05 16:07	0° <b>√</b>	10 07 5 1
morning max el	4591 Dec 13 20:50		18°44'19	morning set	4592 Dec 14 22:56	15°× <b>7</b> '03'48	
morning max cr	4592 Jan 01 08:58	0°る	10 44 19	desc. node	4592 Dec 14 22:30 4592 Dec 22 23:12	28°×704'43	
morning set	4592 Jan 04 03:39	0 る 4° <b>る</b> 22'35		desc. Hode	4592 Dec 24 03:56	28 x 04 43	
•	4592 Jan 06 02:09	4 <b>3</b> 2233			4392 Dec 24 03.30	0.0	
desc. node			1 45221 ATT		4502 D 20 16 00	00=45112	0045106
max. Earth dist.	4592 Jan 19 15:49	28° <b>⋜</b> 43'45	1.45221 AU	superior conj	4592 Dec 29 16:00	8° <b>3</b> 45'12	
	4500 X 00 11 10	00 01120	1000100	minimum elong	4592 Dec 29 10:22	8° <b>る</b> 22'58	
superior conj	4592 Jan 20 11:40	0° <b>≈</b> 01'38		max. Earth dist.	4593 Jan 01 11:30		1.45199 AU
minimum elong	4592 Jan 20 02:20	29° <b>る</b> 24'59	1°28'02		4593 Jan 12 05:57	0° <b>≈</b>	
	4592 Jan 20 11:15	0° <b>≈</b>		evening rise	4593 Jan 14 23:12	4° <b>≈</b> 13'33	
evening rise	4592 Feb 04 23:02	24°≈34'40		greatest brilliancy	4593 Jan 27 11:32	23° <b>≈</b> 29'46	-0.7m
	4592 Feb 08 07:57	0° <b>∀</b>			4593 Jan 31 21:34	0° <b>∀</b>	
greatest brilliancy	4592 Feb 12 03:14	6° <b>∺</b> 06′25	-0.9m	evening max el	4593 Feb 08 12:13		19°32'20
evening max el	4592 Feb 26 04:52	26° <b>₩</b> 06'20	18°46'32	asc. node	4593 Feb 12 06:08	12° <b>) (</b> 43′40	
asc. node	4592 Feb 26 09:06	26° <b>升</b> 16′59		retrograde	4593 Feb 15 18:26	13° <b>) (</b> 48′56	
retrograde	4592 Mar 03 21:17	29° <b>)</b> 49′43		evening set	4593 Feb 19 07:40	12° <b>)</b> 35′01	
evening set	4592 Mar 07 03:13	28° <b>∺</b> 49'21		inferior conj	4593 Feb 24 18:45	6° <b>升</b> 39′28	3°16'36
inferior conj	4592 Mar 12 19:00	23° <b>₩</b> 09'15	3°31'57	minimum elong	4593 Feb 24 16:51	6° <b>)</b> 45′44	3°16'18
minimum elong	4592 Mar 12 18:06	23° <b>升</b> 12′05	3°31'54	min. Earth dist.	4593 Feb 25 23:15	5° <b>)</b> €05'53	0.66668 AU
min. Earth dist.	4592 Mar 14 14:29	20° <b>¥</b> 55'37	0.65396 AU	morning rise	4593 Mar 02 01:47	0° <b>)</b> €25'08	
morning rise	4592 Mar 18 08:32	16° <b>¥</b> 56′26			4593 Mar 02 13:21	30°R≈	
direct	4592 Mar 24 23:08	14° <b>₩</b> 06'08		direct	4593 Mar 08 05:26	27° <b>≈</b> 40'52	
desc. node	4592 Apr 03 01:20	18° <b>₩</b> 08'24			4593 Mar 14 15:42	0° <b>∀</b>	
morning max el	4592 Apr 07 04:07	21° <b>¥</b> 52'43	26°55'05	morning max el	4593 Mar 20 13:46	5° <b>)</b> €02'30	25°45'32
	4592 Apr 14 06:29	$0^{\circ}\mathbf{\Upsilon}$		desc. node	4593 Mar 20 22:23	5° <b>)</b> 24'29	
	4592 May 04 06:28	0°8			4593 Apr 08 17:52	$0^{\circ}\Upsilon$	
morning set	4592 May 12 22:52	15° <b>8</b> 46'31		morning set	4593 Apr 25 18:46	28° <b>Y</b> 26'25	
max. Earth dist.	4592 May 17 07:49	24° <b>8</b> 22'25	1.34141 AU	Č	4593 Apr 26 15:05	0°8	
	4592 May 20 01:59	0°II		max. Earth dist.	4593 Apr 29 14:01		1.35774 AU
	10,21114, 20 01.0,	~ <b>~</b>		man. Bartin digt.	10,5 11pr 2, 11.01	0 000 20	1.50,,,1110
superior conj	4592 May 21 10:46	2° <b>∏</b> 50′12	-0°29'44	superior conj	4593 May 05 04:10	16° <b>8</b> 31'37	-0°59'13
minimum elong	4592 May 21 12:21	2° <b>∏</b> 58'26		minimum elong	4593 May 05 07:23	16° <b>8</b> 47'53	
asc. node	4592 May 24 08:24	8° <b>Ⅱ</b> 56'15		asc. node	4593 May 11 05:27	28° <b>8</b> 53'46	
evening rise	4592 May 28 21:00	18° <b>Ⅱ</b> 28'55		use. Houe	4593 May 11 18:20	0°Ⅱ	
evening rise	4592 Jun 03 14:36	0°95		evening rise	4593 May 13 03:34	2° <b>∏</b> 50′10	
evening max el	4592 Jun 17 18:33	20°951'00	21°26'17	evening rise	4593 May 29 04:21	0°95	
retrograde	4592 Jun 29 22:56	26°951'27	21 2017	evening max el	4593 May 31 00:43	1° <b>9</b> 57'34	20007116
desc. node	4592 Jun 30 00:34	26°951'26		retrograde	4593 Jun 10 13:15	7°906'04	20 07 10
				•		6°956'18	
evening set	4592 Jul 02 08:43	26°938'10	2010145	evening set	4593 Jun 12 11:52		
inferior conj	4592 Jul 11 17:31	22°538'31		desc. node	4593 Jun 16 21:34	5°930'19	1000107
minimum elong	4592 Jul 11 09:09	22°950'13	3°16'12	inferior conj	4593 Jun 21 13:18	2°957'02	
min. Earth dist.	4592 Jul 11 19:05	22°536'20	0.54822 AU	minimum elong	4593 Jun 21 09:25	3°502'50	
morning rise	4592 Jul 20 10:27	18°5544'20		min. Earth dist.	4593 Jun 23 07:21		0.55146 AU
direct	4592 Jul 23 20:23	18°5519'06	20012:25		4593 Jun 26 19:15	30°RⅡ	
morning max el	4592 Aug 05 08:07	24°9512'58	22°13'36	morning rise	4593 Jun 30 05:25	28° <b>∏</b> 39'18	
	4592 Aug 10 13:34	$0$ ° $\Omega$		direct	4593 Jul 04 07:54	28° <b>Ⅱ</b> 02'43	
asc. node	4592 Aug 20 07:40	15° <b>Ω</b> 23'48			4593 Jul 11 14:18	0°50	
morning set	4592 Aug 26 21:25	28° <b>Ω</b> 28'40		morning max el	4593 Jul 17 23:41	4°5544'16	23°56'53
	4592 Aug 27 14:49	0° <b>m</b>			4593 Aug 04 17:05	$0^{\circ}\Omega$	
				asc. node	4593 Aug 07 04:44	4° <b>Ω</b> 47'28	

morning set	4593 Aug 11 09:04	13° <b>Ω</b> 22'18		asc. node	4594 Jul 25 01:47	24° <b>©</b> 30'22	
	4500 4 40 00 00	200 02010	1000105	morning set	4594 Jul 26 20:36	28° <b>©</b> 14'23	
superior conj	4593 Aug 18 08:32	28° <b>Ω</b> 26'10			4594 Jul 27 16:26	$0 {\circ} \Omega$	
minimum elong	4593 Aug 18 06:38	28° <b>Ω</b> 15'55	1°33'16		4504 4 02 10 06	120 02010	1020101
max. Earth dist.	4593 Aug 19 01:54	0° m/)	1 22172 ATT	superior conj	4594 Aug 02 19:06	13° <b>Ω</b> 20'06 13° <b>Ω</b> 07'29	1°20'01 1°19'42
	4593 Aug 20 12:23	3°Mp05'00	1.33172 AU	minimum elong max. Earth dist.	4594 Aug 02 16:48		1.32376 AU
evening rise	4593 Aug 25 18:57 4593 Sep 03 04:54	14°Mp03'21 0° <b>≏</b>		evening rise	4594 Aug 03 19:30 4594 Aug 09 20:19	13 <b>δι</b> 33 37 28° <b>Ω</b> 28'57	1.32370 AU
desc. node	4593 Sep 03 04.54 4593 Sep 12 20:54	0 <b>==</b> 15° <b>£</b> 46'02		evening rise	4594 Aug 10 13:59	0° Mp	
desc. node	4593 Sep 23 14:11	0°M			4594 Aug 10 13:59 4594 Aug 27 09:58	0∘ <b>⊽</b>	
evening max el	4593 Sep 28 11:45	5°M09'40	27°25'32	desc. node	4594 Aug 30 17:55	0 <b>=</b> 4° <b>£</b> 49'21	
retrograde	4593 Oct 12 02:17	12°ML27'22	27 23 32	evening max el	4594 Sep 10 20:06	17° <b>Ω</b> 54'53	27°18'55
evening set	4593 Oct 12 02:17 4593 Oct 19 05:02	9°M49'23		retrograde	4594 Sep 24 15:53	25° <b>Ω</b> 09'17	27 1033
min. Earth dist.	4593 Oct 22 21:59	6°M32'25	0.63868 AU	evening set	4594 Oct 01 19:44	22° <b>Ω</b> 45'37	
inferior conj	4593 Oct 25 10:47	3°M55'54		min. Earth dist.	4594 Oct 05 10:32	19° <b>£</b> 55'26	0.62026 AU
minimum elong	4593 Oct 25 15:37	3°M43'28	2°47'32	inferior conj	4594 Oct 08 10:07	17° <b>Ω</b> 11'28	
	4593 Oct 29 17:09	30° <b>R≏</b>		minimum elong	4594 Oct 08 16:09	16° <b>£</b> 57'37	
morning rise	4593 Nov 01 03:36	28° <b>£</b> 35'33		morning rise	4594 Oct 15 14:22	12° <b>♀</b> 09'55	
asc. node	4593 Nov 03 03:57	28° <b>≏</b> 06'11		direct	4594 Oct 17 22:42	11° <b>≏</b> 45'58	
direct	4593 Nov 03 15:09	28° <b>≏</b> 05'06		asc. node	4594 Oct 21 01:01	12° <b>ჲ</b> 29'06	
	4593 Nov 08 11:20	0° <b>M</b> .		morning max el	4594 Oct 24 20:00	15° <b>≏</b> 15'24	17°52'21
morning max el	4593 Nov 10 04:07	1°MJ30'06	17°51'56		4594 Nov 04 01:12	o° <b>m</b>	
morning set	4593 Nov 26 21:28	27°ML04'13		morning set	4594 Nov 09 17:01	10°M05'09	
	4593 Nov 28 14:27	0° <b>∡</b> ¹					
				superior conj	4594 Nov 20 13:52	29°M18'44	0°42'23
superior conj	4593 Dec 09 13:46	18° <b>∡</b> 23'12	0°01'53	minimum elong	4594 Nov 20 17:24	29°M33'50	0°41'54
minimum elong	4593 Dec 09 13:58	18° <b>∡</b> °24′01	0°01'52		4594 Nov 20 23:31	0° <b>∡</b> ¹	
behind sun begin	4593 Dec 09 04:09	17° <b>∡</b> ¹43'55		desc. node	4594 Nov 26 17:14	9° <b>∡</b> ³36'57	
behind sun end	4593 Dec 09 23:47	19° <b>∡</b> 04'02		max. Earth dist.	4594 Nov 27 20:14	11° <b>₰</b> 27'29	1.43076 AU
desc. node	4593 Dec 09 20:14	18° <b>∡</b> ¹49'34		evening rise	4594 Dec 04 23:12	22° <b>х</b> 49'43	
max. Earth dist.	4593 Dec 15 05:46	27° <b>х</b> 31'02	1.44451 AU		4594 Dec 09 14:39	8°0	
	4593 Dec 16 19:20	ರ°0			4594 Dec 30 15:01	0° <b>≈</b>	
evening rise	4593 Dec 25 10:04	13° <b>る</b> 25'15		evening max el	4595 Jan 05 11:06	6° <b>≈</b> 45′20	21°44'50
	4594 Jan 05 08:48	0° <b>≈</b>		retrograde	4595 Jan 14 14:05	12° <b>≈</b> 10'41	
evening max el	4594 Jan 22 14:22	23° <b>≈</b> 10′52	20°32'54	asc. node	4595 Jan 17 00:15	11° <b>≈</b> 39′09	
asc. node	4594 Jan 30 03:12	27° <b>≈</b> 55'14		evening set	4595 Jan 18 22:26	10° <b>≈</b> 27′02	
retrograde	4594 Jan 30 16:42	27° <b>≈</b> 56'57		inferior conj	4595 Jan 24 06:38		2°15'13
evening set	4594 Feb 03 14:40	26° <b>≈</b> 28'38		minimum elong	4595 Jan 24 04:15	4°≈17'26	2°14'27
inferior conj	4594 Feb 08 23:22	20°≈20'21	2°50'23	min. Earth dist.	4595 Jan 24 09:28	3°≈59'19	0.67978 AU
minimum elong	4594 Feb 08 20:59	20°≈28'31	2°49'47		4595 Jan 27 10:18	30°Ŗる	
min. Earth dist.	4594 Feb 09 14:21	19°≈29'07	0.67522 AU	morning rise	4595 Jan 29 09:52	27°る57'22	
morning rise	4594 Feb 14 03:05	14°≈06'25		direct	4595 Feb 03 09:16	25° <b>る</b> 49'02	
direct	4594 Feb 19 17:05	11°≈37'23	24020157		4595 Feb 11 13:02	0°≈	22051126
morning max el	4594 Mar 02 22:26	18°≈19'54	24°20'56	morning max el desc. node	4595 Feb 13 08:02	1°≈42'38	22°51′36
desc. node	4594 Mar 07 19:26	23°≈45'03 0°¥		desc. node	4595 Feb 22 16:29	12°≈51'58 0° <b>)</b> €	
	4594 Mar 12 17:59 4594 Apr 01 19:55	0° <b>Υ</b>		morning set	4595 Mar 06 17:35 4595 Mar 19 17:24	0° <b>X</b> 20° <b>¥</b> 28'59	
morning set	4594 Apr 07 18:58	10° <b>Y</b> 05'49		max. Earth dist.	4595 Mar 24 06:13		1.39970 AU
max. Earth dist.	4594 Apr 11 11:07	16° <b>Y</b> 36'43	1.37780 AU	max. Latin dist.	4595 Mar 25 08:21	20 <b>γ</b> (0/2 <del>4</del>	1.57770 AC
max. Earth dist.	чээч гирг 11 11.0 <i>1</i>	10 1 30 43	1.57760710		4373 Will 23 00.21	V 1	
superior conj	4594 Apr 18 10:09	29° <b>Ƴ</b> 35'42	-1°27'20	superior conj	4595 Apr 01 00:33	11° <b>Y</b> ′52'24	-1°51'00
minimum elong	4594 Apr 18 14:42	29° <b>Υ</b> 57'40		minimum elong	4595 Apr 01 05:18	12° <b>Υ</b> 14'09	
	4594 Apr 18 15:12	0°8		evening rise	4595 Apr 10 19:08	0° <b>8</b> 14'37	
evening rise	4594 Apr 27 03:58	16° <b>8</b> 47'58		<i>y</i>	4595 Apr 10 16:04	0°8	
asc. node	4594 Apr 28 02:29	18° <b>8</b> 39'10		asc. node	4595 Apr 14 23:31	8° <b>8</b> 07'37	
	4594 May 04 02:16	0°II		evening max el	4595 Apr 26 22:59	26° <b>8</b> 12'11	18°28'24
evening max el	4594 May 13 19:03	13° <b>Ⅱ</b> 46'14	19°07'40	retrograde	4595 May 04 12:27	29° <b>8</b> 56'22	
retrograde	4594 May 22 15:34	18° <b>Ⅲ</b> 05'33		evening set	4595 May 06 19:39	29° <b>8</b> 36'41	
evening set	4594 May 24 16:08	17° <b>Ⅱ</b> 52'57		inferior conj	4595 May 14 07:27	25° <b>8</b> 05'28	1°59'57
inferior conj	4594 Jun 01 23:50	13° <b>Ⅱ</b> 41′09	0°31'14	minimum elong	4595 May 14 10:57	24° <b>8</b> 58'28	1°58'54
minimum elong	4594 Jun 02 01:06	13° <b>Ⅱ</b> 39'00	0°30'47	min. Earth dist.	4595 May 17 17:38	22° <b>8</b> 22'48	0.58253 AU
desc. node	4594 Jun 03 18:37	12° <b>Ⅱ</b> 27'57		morning rise	4595 May 21 23:05	19° <b>8</b> 39'26	
min. Earth dist.	4594 Jun 04 22:30	11° <b>Ⅱ</b> 41'17	0.56375 AU	desc. node	4595 May 21 15:40	19° <b>8</b> 49'00	
morning rise	4594 Jun 10 06:51	8° <b>Ⅱ</b> 48'04		direct	4595 May 27 22:19	18° <b>8</b> 07'22	
direct	4594 Jun 15 07:56	7° <b>Ⅱ</b> 48'36		morning max el	4595 Jun 11 07:35	25° <b>8</b> 48'47	26°55'06
morning max el	4594 Jun 29 13:46	15° <b>Ⅱ</b> 07'11	25°36'01		4595 Jun 15 05:33	$\Pi$ °0	
	4594 Jul 11 11:42	0ಂತಾ			4595 Jul 04 18:40	0ಂತಾ	

morning set	4595 Jul 11 06:20	12° <b>©</b> 59'24			4596 Jun 09 14:22	0° <b>Ⅱ</b>	
asc. node	4595 Jul 11 22:48	14°926'24		morning set	4596 Jun 24 12:34	27° <b>I</b> 32'00	
					4596 Jun 25 16:55	0.ಪ	
superior conj	4595 Jul 18 06:53	28°515'00	1°02'03	asc. node	4596 Jun 27 19:49	4°930'41	
minimum elong	4595 Jul 18 04:40	28°902'44	1°01'40	max. Earth dist.	4596 Jun 30 17:38	10°950'15	1.32043 AU
max. Earth dist.	4595 Jul 18 06:27	28° <b>©</b> 12'36	1.32004 AU				
	4595 Jul 19 01:54	$0^{\circ}\Omega$		superior conj	4596 Jul 01 18:10	13° <b>©</b> 05'08	0°40'09
evening rise	4595 Jul 25 03:18	13° <b>Ω</b> 09'19		minimum elong	4596 Jul 01 16:30	12° <b>©</b> 55'53	0°39'48
	4595 Aug 02 16:07	0° <b>m</b> ∕		evening rise	4596 Jul 08 13:41	27° <b>©</b> 57'17	
desc. node	4595 Aug 17 14:57	22° <b>m</b> 59'44			4596 Jul 09 12:52	$0^{\circ}\Omega$	
evening max el	4595 Aug 23 22:41	29° <b>m</b> 56'33	26°38'47		4596 Jul 26 09:23	0° <b>™</b>	
	4595 Aug 24 00:09	0∘ <b>⊽</b>		desc. node	4596 Aug 03 11:57	9° <b>m</b> 55'43	
retrograde	4595 Sep 06 21:15	7° <b>≏</b> 06'14		evening max el	4596 Aug 04 17:42	11°Mp09'15	25°27'40
evening set	4595 Sep 13 16:18	5° <b>≏</b> 09'31		retrograde	4596 Aug 18 16:34	18° <b>m</b> 14'06	
min. Earth dist.	4595 Sep 17 12:33	2° <b>£</b> 33'33	0.59989 AU	evening set	4596 Aug 24 14:00	16° <b>m</b> 53'29	
inferior conj	4595 Sep 20 18:23	29° m 57'38		min. Earth dist.	4596 Aug 29 05:31	14° Mp 14'13	0.57955 AU
minimum elong	4595 Sep 21 00:00	29° Mp 46'20	4°39'11	inferior conj	4596 Sep 01 08:11	12° Mp 04'40	
	4595 Sep 20 17:13	30°R, Mp 250 m 17142		minimum elong	4596 Sep 01 10:29	12° Mp 00'38	5°10'58
morning rise	4595 Sep 28 09:45	25° Mp 17'43		morning rise	4596 Sep 09 09:13	7° Mp 47'50	
direct asc. node	4595 Sep 30 18:11	24° Mp 57'18		direct	4596 Sep 11 21:17	7° Mp 28'38	18°52'36
morning max el	4595 Oct 07 22:03 4595 Oct 08 07:37	28° Mp 17'02 28° Mp 39'37	18°12'04	morning max el asc. node	4596 Sep 20 11:39 4596 Sep 23 19:04	11° mp 33'34 15° mp 15'36	18 32 30
morning max er	4595 Oct 09 14:29	0° <b>ت</b>	16 12 04	asc. node	4596 Oct 02 20:41	0₀ <b>ʊ</b>	
morning set	4595 Oct 24 03:29	0 <b>=</b> 23° <b>£</b> 48'11		morning set	4596 Oct 02 20:41 4596 Oct 07 00:18	ა <del></del> 8° <b>_</b> 00'22	
morning set	4595 Oct 27 10:19	0°M		morning set	4370 Oct 07 00.16	6 <b>—</b> 00 22	
	1373 000 27 10.17	0 110		superior conj	4596 Oct 15 11:36	24° <b>£</b> 31'35	1°31'54
superior conj	4595 Nov 02 14:51	11°M26'18	1°12'29	minimum elong	4596 Oct 15 14:25	24° <b>£</b> 44'58	1°31'40
minimum elong	4595 Nov 02 18:49	11° <b>M</b> .44'11	1°12'01		4596 Oct 18 09:28	0°M	
max. Earth dist.	4595 Nov 10 05:53	24°M47'37	1.41236 AU	max. Earth dist.	4596 Oct 22 11:32	7°M25'33	1.39156 AU
	4595 Nov 13 08:37	0° <b>∡</b> ¹		evening rise	4596 Oct 26 09:07	14°M13'45	
desc. node	4595 Nov 13 14:15	0° <b>х</b> 23′14		desc. node	4596 Oct 30 11:16	21°M04'35	
evening rise	4595 Nov 15 04:48	3° <b>∡</b> 00'54			4596 Nov 05 01:30	0°⊀	
	4595 Dec 02 23:09	0°ರ			4596 Nov 26 21:45	8°0	
evening max el	4595 Dec 19 03:19	20° <b>る</b> 22'28	23°03'30	evening max el	4596 Nov 30 16:40	4° <b>る</b> 02'59	24°22'58
retrograde	4595 Dec 29 08:56	26° <b>る</b> 26'20		retrograde	4596 Dec 12 00:11	10° <b>る</b> 40'13	
evening set	4596 Jan 03 05:21	24° <b>る</b> 26'46		evening set	4596 Dec 17 09:53	8° <b>る</b> 24'58	
asc. node	4596 Jan 03 21:17	23° <b>る</b> 51'15		asc. node	4596 Dec 20 18:19	4° <b>る</b> 47'50	
inferior conj	4596 Jan 08 14:35	18° <b>る</b> 02'53	1°32'27	min. Earth dist.	4596 Dec 22 02:07	3° <b>る</b> 03'57	0.67764 AU
minimum elong	4596 Jan 08 12:40	18° <b>ろ</b> 09'31	1°31'44	inferior conj	4596 Dec 22 21:28	1° <b>る</b> 59'07	0°43'06
min. Earth dist.	4596 Jan 08 06:09	18° <b>ろ</b> 31'58	0.68054 AU	minimum elong	4596 Dec 22 20:27	2°る02'32	0°42'42
morning rise	4596 Jan 13 19:52	11° <b>ろ</b> 55'00			4596 Dec 24 09:38	30°₹ <b>⋌</b> 7	
direct	4596 Jan 18 04:51	10°る09'36	2102624	morning rise	4596 Dec 28 07:05	25° 🖈 57'06	
morning max el	4596 Jan 26 22:16	15° <b>る</b> 14'02	21°26'34	direct	4597 Jan 01 02:40	24° 🖈 33'55	20012107
dasa mada	4596 Feb 07 18:22	0°≈ 2°≈32'08		morning max el	4597 Jan 08 20:02 4597 Jan 09 20:08	28°矛57'31 0°る	20°12'07
desc. node morning set	4596 Feb 09 13:31 4596 Feb 27 11:07	2 ≈32 08 29°≈31'11		desc. node	4597 Jan 26 10:32	0 3 22° <b>る</b> 36'22	
morning set	4596 Feb 27 18:23	29 <b>≈</b> 3111		desc. Hode	4597 Jan 31 08:07	22 <b>3</b> 30 22 0° <b>≈</b>	
max. Earth dist.	4596 Mar 05 06:57		1.42060 AU	morning set	4597 Feb 05 08:59	0 <b>∞</b> 7° <b>≈</b> 43'23	
Dartii Uist.		10 7(3230	2000710	max. Earth dist.	4597 Feb 15 15:37	23°≈52'35	1.43770 AU
superior conj	4596 Mar 12 18:25	23° <b>)</b> 10′12	-2°05'52		4597 Feb 19 10:36	0° <b>)</b> €	
minimum elong	4596 Mar 12 20:59	23° <b>H</b> 21'18					
S	4596 Mar 16 15:59	$0^{\circ}\mathbf{\Upsilon}$		superior conj	4597 Feb 21 11:18	3° <b>)</b> 19′22	-2°06'32
evening rise	4596 Mar 23 21:20	13° <b>Ƴ</b> 01′25		minimum elong	4597 Feb 21 08:34	3° <b>)</b> €08'07	2°06'28
asc. node	4596 Mar 31 20:33	27° <b>Y</b> 13'07		evening rise	4597 Mar 06 06:13	24° <b>)</b> 59′07	
	4596 Apr 02 13:04	$9^{\circ}$ 8			4597 Mar 09 03:38	$0^{\circ}\mathbf{\Upsilon}$	
evening max el	4596 Apr 09 08:54	9° <b>8</b> 05'57	18°09'04	asc. node	4597 Mar 18 17:34	15° <b>Ƴ</b> 47'42	
retrograde	4596 Apr 16 03:21	12° <b>8</b> 31'49		evening max el	4597 Mar 23 21:26	22° <b>Y</b> 17'52	18°09'02
evening set	4596 Apr 18 17:17	12° <b>8</b> 02'22		retrograde	4597 Mar 30 07:59	25° <b>Ƴ</b> 40'40	
inferior conj	4596 Apr 25 11:46			evening set	4597 Apr 02 03:58	25° <b>Y</b> 00'01	
minimum elong	4596 Apr 25 14:51	7° <b>8</b> 03'04	2°56'23	inferior conj	4597 Apr 08 09:10	19° <b>℃</b> 47'56	3°26'34
min. Earth dist.	4596 Apr 28 18:55	4° <b>8</b> 07'53	0.60423 AU	minimum elong	4597 Apr 08 10:42	19° <b>℃</b> 43'53	3°26'25
morning rise	4596 May 02 10:10	1° <b>8</b> 20'30		min. Earth dist.	4597 Apr 11 04:43	16°Υ50'11	0.62570 AU
1 1	4596 May 05 01:14	30°R <b>Y</b>		morning rise	4597 Apr 14 16:04	13° <b>Y</b> 44'00	
desc. node	4596 May 07 12:41	29° <b>Y</b> 20'41		direct	4597 Apr 21 12:44	11°Υ10'32	
direct	4596 May 09 00:39	29° <b>Y</b> 14'17		desc. node	4597 Apr 24 09:44	11° <b>Υ</b> 34'58 19° <b>Υ</b> 10'05	27051120
morning max el	4596 May 13 03:41 4596 May 23 07:49	0° <b>と</b> 7° <b>と</b> 08'24	27042101	morning max el	4597 May 05 13:54 4597 May 14 18:14	0° <b>8</b>	27°51'20
morning max er	+330 way 23 07.49	/ 00824	21 42 UI		+571 way 14 10.14	υ <b>Ο</b>	

	4507 L 02 11 57	οο <b>π</b>			4500 M 20 14 25	2601/40110	
	4597 Jun 02 11:57	0°II		morning rise	4598 Mar 28 14:25	26° <b>)</b> 40′19	
morning set	4597 Jun 08 13:10	11° <b>II</b> 44'32	1 22500 411	direct	4598 Apr 04 09:05	23° <b>)</b> 51'59	
max. Earth dist.	4597 Jun 14 00:51	23° <b>I</b> 12'08	1.32500 AU	desc. node	4598 Apr 11 06:46	26° <b>)</b> 12′58	
asc. node	4597 Jun 14 16:50	24° <b>Ⅱ</b> 38′00			4598 Apr 16 02:41	0° <b>Υ</b>	
				morning max el	4598 Apr 17 23:20		27°24'25
superior conj	4597 Jun 16 03:09	27° <b>Ⅱ</b> 43'43			4598 May 08 22:47	0°8	
minimum elong	4597 Jun 16 02:27	27° <b>Ⅱ</b> 39'55	0°14'44	morning set	4598 May 23 05:31	25° <b>8</b> 29'27	
behind sun begin	4597 Jun 16 00:28	27° <b>Ⅱ</b> 29'09			4598 May 25 12:01	0°II	
behind sun end	4597 Jun 16 04:26	27° <b>Ⅱ</b> 50'40		max. Earth dist.	4598 May 28 00:09	5°Щ06'52	1.33405 AU
	4597 Jun 17 04:12	0ංම				_	
evening rise	4597 Jun 23 01:25	12°5945'08		superior conj	4598 May 31 07:58	12° <b>Ⅱ</b> 05'20	
	4597 Jul 01 18:14	$0$ $^{\circ}\Omega$		minimum elong	4598 May 31 08:38	12° <b>Ⅱ</b> 08'52	0°12'50
evening max el	4597 Jul 17 06:48	21° <b>Ω</b> 42'03	23°55'49	behind sun begin	4598 May 31 05:20	11° <b>Ⅱ</b> 51′24	
desc. node	4597 Jul 21 08:57	25° <b>Ω</b> 07'38		behind sun end	4598 May 31 11:55	12° <b>Ⅱ</b> 26′21	
retrograde	4597 Jul 31 00:20	28° <b>Ω</b> 36'30		asc. node	4598 Jun 01 13:52	14° <b>Ⅱ</b> 44'34	
evening set	4597 Aug 04 11:55	27° <b>Ω</b> 52'08		evening rise	4598 Jun 07 12:42	27° <b>Ⅱ</b> 27'11	
min. Earth dist.	4597 Aug 10 17:06		0.56199 AU		4598 Jun 08 17:52	0ංම	
inferior conj	4597 Aug 13 01:39	23° <b>Ω</b> 25′20			4598 Jun 26 21:19	$0$ $^{\circ}$ $\Omega$	
minimum elong	4597 Aug 12 21:54	23° <b>Ω</b> 31′06	5°06'05	evening max el	4598 Jun 28 21:04	2° <b>Ω</b> 04'30	22°18'43
morning rise	4597 Aug 21 10:26	19° <b>Ω</b> 28'07		desc. node	4598 Jul 08 05:59	8° <b>Ω</b> 00'57	
direct	4597 Aug 24 04:44	19° <b>Ω</b> 08'34		retrograde	4598 Jul 11 20:10	8° <b>Ω</b> 30'48	
morning max el	4597 Sep 03 05:12	23° <b>Ω</b> 48′06	19°54'59	evening set	4598 Jul 14 20:12	8° <b>Ω</b> 10'53	
	4597 Sep 08 12:38	0° mp		min. Earth dist.	4598 Jul 23 03:29		0.55068 AU
asc. node	4597 Sep 10 16:05	3°Mp09'48		inferior conj	4598 Jul 24 01:50	4° <b>Ω</b> 03'45	
morning set	4597 Sep 21 04:09	22° m/32'23		minimum elong	4598 Jul 23 17:25	4° <b>Ω</b> 15'40	4°10'18
	4597 Sep 24 20:00	0∘ <b>⊽</b>		morning rise	4598 Aug 01 16:30	0° <b>Ω</b> 13'34	
					4598 Aug 02 21:31	30° <b>₹</b>	
superior conj	4597 Sep 28 22:53	8° <b>≏</b> 19'43		direct	4598 Aug 04 19:22	29° <b>©</b> 51'39	
minimum elong	4597 Sep 29 00:05	8° <b>≏</b> 25'41	1°41'46		4598 Aug 06 16:29	$0$ $\circ$ $\Omega$	
max. Earth dist.	4597 Oct 04 16:40	19° <b>≏</b> 28'35	1.37091 AU	morning max el	4598 Aug 16 10:48		21°18'12
evening rise	4597 Oct 08 11:32	26° <b>≙</b> 27'18		asc. node	4598 Aug 28 13:08	21° <b>Ω</b> 46'43	
	4597 Oct 10 11:18	0°M₊			4598 Sep 01 22:23	0° <b>m</b> )	
desc. node	4597 Oct 17 08:16	11°M36'51		morning set	4598 Sep 05 12:32	7° <b>m</b> , 17'09	
. 1	4597 Oct 29 13:12	0° ⊀ <b>7</b>	25026124		4500 G 12 20 25	220m 27150	1042142
evening max el	4597 Nov 13 05:01	17° 🖈 45'45	25°36'24	superior conj	4598 Sep 12 20:27	22° My 37'58	1°43'42
retrograde	4597 Nov 25 11:00 4597 Dec 01 10:23	24° <b>₹</b> 47'25 22° <b>₹</b> 18'35		minimum elong	4598 Sep 12 20:08	22° <b>™</b> 36'21 0° <b>≏</b>	1°43'42
evening set min. Earth dist.	4597 Dec 05 19:09		0.67118 AU	may Earth dist	4598 Sep 16 11:00	0 <u>==</u> 1° <b>⊆</b> 19'42	1.35267 AU
inferior conj	4597 Dec 07 01:29	17 × 32 12 15° × 55'17		max. Earth dist.	4598 Sep 17 02:56 4598 Sep 21 08:15	9° <b>£</b> 32'06	1.55207 AU
minimum elong	4597 Dec 07 01:47	15° <b>×</b> 54'19		evening rise	4598 Oct 03 00:37	ე° <b>™</b> .	
transit middle	4597 Dec 07 01:47	15° <b>×</b> 54'19		desc. node	4598 Oct 04 05:16	1°M54'42	
transit begin	4597 Dec 06 23:51	16°×700'31	0 11 41	desc. node	4598 Oct 25 06:53	0° <b>√</b>	
transit end	4597 Dec 00 23:31 4597 Dec 07 03:44	15° <b>х</b> 48'06		evening max el	4598 Oct 26 17:36	1° <b>∡</b> 726'17	26°36'21
asc. node	4597 Dec 07 05:44 4597 Dec 07 15:20	15° 🖈 11'12		retrograde	4598 Nov 08 16:42	8° <b>×</b> 741'06	20 30 21
morning rise	4597 Dec 07 13:20 4597 Dec 12 17:34	10° <b>₹</b> 1112		evening set	4598 Nov 15 04:55	6° <b>₹</b> 03'00	
direct	4597 Dec 16 01:21	8° <b>×</b> 57'40		min. Earth dist.	4598 Nov 19 06:54	1° <b>∡</b> ′51′58	0.66125 AU
morning max el	4597 Dec 23 01:42	12° 🗷 51'50	19°11'52	mm. Lattii dist.	4598 Nov 20 20:26	30°RM	0.00123 AC
morning max ci	4598 Jan 04 20:51	ිප් මෙත්	17 11 32	inferior conj	4598 Nov 21 00:42	29°M47'15	-1°11'13
greatest brilliancy	4598 Jan 05 19:58	1°る27'28	-0.7m	minimum elong	4598 Nov 21 02:40	29°M41'21	1°10'22
desc. node	4598 Jan 13 07:33	12°る58'07	0.7111	asc. node	4598 Nov 24 12:24	25°M57'19	1 10 22
morning set	4598 Jan 15 10:33	16° <b>る</b> 15'53		morning rise	4598 Nov 27 01:09	24°ML03'40	
morning sec	4598 Jan 24 06:10	0°≈		direct	4598 Nov 29 23:11	23°ML15'58	
max. Earth dist.	4598 Jan 29 06:26	7°≈51'50	1.44888 AU	morning max el	4598 Dec 06 13:40	26°M51'39	18°27'27
					4598 Dec 09 08:21	0° <b>∡</b> 7	
superior conj	4598 Feb 01 03:43	12° <b>≈</b> 25'37	-1°48'17	morning set	4598 Dec 26 12:33	26° <b>∡</b> ¹04'58	
minimum elong	4598 Jan 31 19:20	11° <b>≈</b> 52'25	1°47'37	Č	4598 Dec 28 23:24	0°⋜	
	4598 Feb 12 01:43	0° <b>∀</b>		desc. node	4598 Dec 31 04:33	3° <b>ට</b> 31'40	
evening rise	4598 Feb 15 17:44	6° <b>₩</b> 01'23					
-	4598 Mar 02 18:24	$0^{\circ}\mathbf{\Upsilon}$		superior conj	4599 Jan 11 06:41	21° <b>る</b> 01'29	-1°11'32
asc. node	4598 Mar 05 14:37	3° <b>Y</b> 42'30		minimum elong	4599 Jan 10 22:15	20°る28'22	1°10'32
evening max el	4598 Mar 07 09:47	5° <b>Ƴ</b> 41'44	18°27'41	max. Earth dist.	4599 Jan 12 00:44		
retrograde	4598 Mar 13 21:50	9° <b>Ƴ</b> 14'31			4599 Jan 17 00:07	0° <b>≈</b>	
evening set	4598 Mar 16 23:53	8° <b>Ƴ</b> 21'45		evening rise	4599 Jan 27 05:52	16° <b>≈</b> 06'37	
inferior conj	4598 Mar 22 19:38	2° <b>Y</b> 51'25	3°34'46	=	4599 Feb 05 01:09	0° <b>∀</b>	
minimum elong	4598 Mar 22 19:30	2° <b>Y</b> 51'46	3°34'46	greatest brilliancy	4599 Feb 06 00:39	1° <b>)</b> 31′40	-0.8m
min. Earth dist.	4598 Mar 25 00:09	0° <b>Υ</b> 17'39	0.64470 AU	evening max el	4599 Feb 18 19:33	19° <b>)</b> 11′40	19°04'05
	4598 Mar 25 06:22	30° <b>₹</b> ₩		asc. node	4599 Feb 20 11:40	20° <b>)</b> 45′07	

ratragrada	4500 Eab 25 17:06	23° <b>)</b> €05'39		avaning gat	4600 Feb 13 07:41	5° <b>)</b> 48′52	
retrograde	4599 Feb 25 17:06			evening set			2007120
evening set	4599 Mar 01 01:55	21° <b>)</b> 59'48	2026174	inferior conj	4600 Feb 18 17:32	29° <b>≈</b> 47'48	3°06'38
inferior conj	4599 Mar 06 15:25	16° <b>)</b> 13′04	3°26'54	minimum elong	4600 Feb 18 15:21	29° <b>≈</b> 55'05	3°06'12
minimum elong	4599 Mar 06 14:01	16° <b>∺</b> 17'30	3°26'45		4600 Feb 18 13:53	30° <b>₹</b> ≈	
min. Earth dist.	4599 Mar 08 04:29	14° <b>₩</b> 15'32	0.65992 AU	min. Earth dist.	4600 Feb 19 16:08	28° <b>≈</b> 32'06	0.67092 AU
morning rise	4599 Mar 12 01:45	9° <b>₩</b> 59'10		morning rise	4600 Feb 23 22:48	23° <b>≈</b> 33'36	
direct	4599 Mar 18 12:13	7° <b>₩</b> 09'44		direct	4600 Mar 01 21:00	20° <b>≈</b> 54'43	
desc. node	4599 Mar 29 03:48	12° <b>)</b> 39′56		morning max el	4600 Mar 13 18:11	28° <b>≈</b> 00'42	25°10'35
morning max el	4599 Mar 31 09:16	14° <b>)</b> 48′05	26°27'48	•	4600 Mar 15 15:30	0° <b>∀</b>	
	4599 Apr 12 19:34	0°Υ		desc. node	4600 Mar 16 00:50	0° <b>¥</b> 25'39	
	4599 May 01 17:18	0°8		dese. Hode	4600 Apr 06 12:52	0°Υ	
. ,				. ,	•		
morning set	4599 May 06 10:10	8° <b>8</b> 36'33		morning set	4600 Apr 18 22:22	20° <b>Y</b> ′52'09	
max. Earth dist.	4599 May 10 12:26	16° <b>8</b> 29'48	1.34779 AU	max. Earth dist.	4600 Apr 22 13:55	27° <b>Y</b> 32'39	1.36594 AU
					4600 Apr 23 21:20	0°8	
superior conj	4599 May 15 06:20	26° <b>8</b> 03'41	-0°42'17				
minimum elong	4599 May 15 08:37	26° <b>8</b> 15'25	0°41'50	superior conj	4600 Apr 28 19:20	9° <b>8</b> 30'25	-1°11'29
	4599 May 17 04:01	$\Pi^{\circ}0$		minimum elong	4600 Apr 28 23:13	9° <b>8</b> 49'33	1°10'51
asc. node	4599 May 19 10:56	4° <b>∏</b> 46'36		asc. node	4600 May 06 08:00	24° <b>8</b> 39'27	
evening rise	4599 May 22 21:36	11° <b>Ⅲ</b> 57'41		evening rise	4600 May 07 01:51	26° <b>8</b> 09'38	
evening rise	4599 Jun 01 07:37	0°95		evening rise	•	0°Ⅱ	
			20050122		4600 May 08 23:52		10020126
evening max el	4599 Jun 10 20:25	12° <b>©</b> 49'51	20°50'33	evening max el	4600 May 24 08:01	24° <b>Ⅱ</b> 14'27	19°39'26
retrograde	4599 Jun 22 08:45	18° <b>©</b> 28'26		retrograde	4600 Jun 03 02:30	29° <b>Ⅱ</b> 00'19	
evening set	4599 Jun 24 11:29	18° <b>©</b> 17'47		evening set	4600 Jun 05 01:08	28° <b>∏</b> 49'51	
desc. node	4599 Jun 25 03:01	18° <b>©</b> 10'26		desc. node	4600 Jun 12 00:03	25° <b>∏</b> 53'45	
inferior conj	4599 Jul 03 19:03	14° <b>©</b> 20'41	-2°31'47	inferior conj	4600 Jun 13 19:45	24° <b>Ⅱ</b> 46'33	-0°32'29
minimum elong	4599 Jul 03 12:06	14° <b>©</b> 30'33	2°29'24	minimum elong	4600 Jun 13 18:16	24° <b>∏</b> 48'51	0°31'57
min. Earth dist.	4599 Jul 04 14:51	13° <b>©</b> 52'32	0.54836 AU	min. Earth dist.	4600 Jun 16 04:00	23° <b>Ⅱ</b> 18'40	0.55572 AU
morning rise	4599 Jul 12 12:27	10°518'24	0.5 1050 110	morning rise	4600 Jun 22 09:02	20° <b>∏</b> 14'47	0.00072110
direct	4599 Jul 16 04:41	9° <b>5</b> 49'18		direct	4600 Jun 26 21:01	19° <b>Ⅱ</b> 29'46	
			22057104				24040125
morning max el	4599 Jul 29 05:59	16° <b>©</b> 05'03	22°57'04	morning max el	4600 Jul 10 19:53	26° <b>Ⅱ</b> 28'09	24°40'35
	4599 Aug 09 04:55	$0$ $^{\circ}\Omega$			4600 Jul 14 05:09	0°®	
asc. node	4599 Aug 15 10:11	10° <b>Ω</b> 55'56		asc. node	4600 Aug 02 07:14	0° <b>Ω</b> 28'19	
morning set	4599 Aug 20 23:32	22° <b>Ω</b> 09'16			4600 Aug 02 01:37	$0 {\circ} \Omega$	
	4599 Aug 24 15:46	o° mp		morning set	4600 Aug 05 11:19	7° <b>Ω</b> 02'30	
superior conj	4599 Aug 28 01:03	7° Mp 16'32	1°38'52	superior conj	4600 Aug 12 10:00	22° <b>Ω</b> 06'18	1°28'20
	-	•			•		
minimum elong	4599 Aug 27 23:36	7° m 08'48	1°38'47	minimum elong	4600 Aug 12 07:53	21° <b>Ω</b> 54'43	1°28'06
minimum elong max. Earth dist.	4599 Aug 27 23:36 4599 Aug 30 22:08	7° m 08'48 13° m 22'03			4600 Aug 12 07:53 4600 Aug 14 01:45	21° <b>Ω</b> 54'43 25° <b>Ω</b> 42'14	
minimum elong	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02	7° Mp 08'48 13° Mp 22'03 23° Mp 17'00	1°38'47	minimum elong max. Earth dist.	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45	21° <b>Q</b> 54'43 25° <b>Q</b> 42'14 0° <b>T</b> Q	1°28'06
minimum elong max. Earth dist. evening rise	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39	7° m 08'48 13° m 22'03 23° m 17'00 0° <u>a</u>	1°38'47	minimum elong	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57	21° \$\Omega 54'43\$ 25° \$\Omega 42'14\$ 0° \$\Omega\$ 7° \$\Omega 29'57\$	1°28'06
minimum elong max. Earth dist.	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18	7° m 08'48 13° m 22'03 23° m 17'00 0° <u>a</u> 21° <u>a</u> 51'34	1°38'47	minimum elong max. Earth dist. evening rise	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09	21° N 54'43 25° N 42'14 0° M 7° M 29'57 0° Ω	1°28'06
minimum elong max. Earth dist. evening rise	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06	7° m 08'48 13° m 22'03 23° m 17'00 0° <u>a</u>	1°38'47	minimum elong max. Earth dist.	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57	21° \$\Omega 54'43\$ 25° \$\Omega 42'14\$ 0° \$\Omega\$ 7° \$\Omega 29'57\$	1°28'06
minimum elong max. Earth dist. evening rise	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18	7° m 08'48 13° m 22'03 23° m 17'00 0° <u>a</u> 21° <u>a</u> 51'34	1°38'47 1.33817 AU	minimum elong max. Earth dist. evening rise	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09	21° N 54'43 25° N 42'14 0° M 7° M 29'57 0° Ω	1°28'06 1.32784 AU
minimum elong max. Earth dist. evening rise desc. node	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06	7° <b>m</b> 08'48 13° <b>m</b> 22'03 23° <b>m</b> 17'00 0° <b>Ω</b> 21° <b>Ω</b> 51'34 0° <b>M</b>	1°38'47 1.33817 AU	minimum elong max. Earth dist. evening rise desc. node	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20	21° <b>Q</b> 54'43 25° <b>Q</b> 42'14 0° My 7° My 29'57 0° <b>Ω</b> 11° <b>Ω</b> 17'30	1°28'06 1.32784 AU
minimum elong max. Earth dist. evening rise desc. node evening max el	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11	7° m 08'48 13° m 22'03 23° m 17'00 0° <u>a</u> 21° <u>a</u> 51'34 0° m 14° m 56'02	1°38'47 1.33817 AU	minimum elong max. Earth dist. evening rise desc. node	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52	21° \$\alpha 54'43 25° \$\alpha 42'14 0° \$\mathref{m}\$ 7° \$\mathref{m}\$ 29'57 0° \$\oldsymbol{\Omega}\$ 11° \$\oldsymbol{\Omega}\$ 17'30 28° \$\oldsymbol{\Omega}\$ 01'03	1°28'06 1.32784 AU
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Oct 29 15:10	7° m 08'48 13° m 22'03 23° m 17'00 0° £ 21° £ 51'34 0° m 14° M 56'02 22° M 14'04 19° M 33'41	1°38'47 1.33817 AU 27°15'21	minimum elong max. Earth dist. evening rise desc. node evening max el	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44	21° \$\alpha 54'43\\ 25° \$\alpha 42'14\\ 0° \$\mathbf{m}\\ 7° \$\mathbf{m} 29'57\\ 0° \$\alpha \\ 11° \$\alpha 17'30\\ 28° \$\alpha 01'03\\ 0° \$\mathbf{m}\\ 5° \$\mathbf{m} 16'42	1°28'06 1.32784 AU
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist.	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Oct 29 15:10 4599 Nov 02 11:07	7° m 08'48 13° m 22'03 23° m 17'00 0° \( \Omega\) 21° \( \Omega\) 51'34 0° m 14° m 56'02 22° m 14'04 19° m 33'41 15° m 57'33	1°38'47 1.33817 AU 27°15'21 0.64790 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44 4600 Oct 12 14:00	21° \$\alpha 54'43 25° \$\alpha 42'14 0° \$\mathbf{m}\$ 7° \$\mathbf{m} 29'57 0° \$\alpha\$ 11° \$\alpha 17'30 28° \$\alpha 01'03 0° \$\mathbf{m}\$ 5° \$\mathbf{m} 16'42 2° \$\mathbf{m} 43'34	1°28'06 1.32784 AU
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Oct 29 15:10 4599 Nov 02 11:07 4599 Nov 04 16:51	7° ነው 08'48 13° ነው 22'03 23° ነው 17'00 0°	1°38'47 1.33817 AU 27°15'21 0.64790 AU -2°13'16	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44 4600 Oct 12 14:00 4600 Oct 15 20:42	21° \$\alpha 54'43\\ 25° \$\alpha 42'14\\ 0° \$\mathbf{m}\\ 7° \$\mathbf{m} 29'57\\ 0° \$\alpha \\ 11° \$\alpha 17'30\\ 28° \$\alpha 01'03\\ 0° \$\mathbf{m}\\ 5° \$\mathbf{m} 16'42\\ 2° \$\mathbf{m} 43'34\\ 30° \$\mathbf{n}\$	1°28'06 1.32784 AU 27°26'46
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Oct 29 15:10 4599 Nov 02 11:07 4599 Nov 04 16:51 4599 Nov 04 20:40	7° m 08'48 13° m 22'03 23° m 17'00 0°	1°38'47 1.33817 AU 27°15'21 0.64790 AU -2°13'16	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44 4600 Oct 12 14:00 4600 Oct 15 20:42 4600 Oct 16 05:36	21° \$\alpha 54'43\) 25° \$\alpha 42'14\) 0° \$\mathbf{m}\) 7° \$\mathbf{m} 29'57\) 0° \$\alpha \) 11° \$\alpha 17'30\) 28° \$\alpha 01'03\) 0° \$\mathbf{m}\) 5° \$\mathbf{m} 16'42\) 2° \$\mathbf{m} 43'34\) 30° \$\mathbf{R} \alpha \) 29° \$\alpha 39'02	1°28'06 1.32784 AU 27°26'46 0.63120 AU
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Oct 29 15:10 4599 Nov 04 16:51 4599 Nov 04 20:40 4599 Nov 11 03:18	7° m 08'48 13° m 22'03 23° m 17'00 0°	1°38'47 1.33817 AU 27°15'21 0.64790 AU -2°13'16	minimum elong max. Earth dist.  evening rise  desc. node evening max el  retrograde evening set  min. Earth dist. inferior conj	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44 4600 Oct 12 14:00 4600 Oct 15 20:42 4600 Oct 16 05:36 4600 Oct 18 23:10	21° \$\alpha 54'43\) 25° \$\alpha 42'14\) 0° \$\mathbf{m}\) 7° \$\mathbf{m} 29'57\) 0° \$\alpha \) 11° \$\alpha 17'30\) 28° \$\alpha 01'03\) 0° \$\mathbf{m}\] 5° \$\mathbf{m} 16'42\) 2° \$\mathbf{m} 43'34\) 30° \$\mathbf{R}\$\alpha \) 29° \$\alpha 39'02\) 26° \$\alpha 58'07\]	1°28'06 1.32784 AU 27°26'46 0.63120 AU -3°15'19
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Oct 29 15:10 4599 Nov 02 11:07 4599 Nov 04 16:51 4599 Nov 04 20:40 4599 Nov 11 03:18 4599 Nov 11 09:26	7° m 08'48 13° m 22'03 23° m 17'00 0°	1°38'47 1.33817 AU 27°15'21 0.64790 AU -2°13'16	minimum elong max. Earth dist.  evening rise  desc. node evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44 4600 Oct 12 14:00 4600 Oct 15 20:42 4600 Oct 16 05:36 4600 Oct 19 04:38	21° \$\alpha 54'43\) 25° \$\alpha 42'14\) 0° \$\mathbf{m}\) 7° \$\mathbf{m} 29'57\) 0° \$\alpha \\ 11\cdot \alpha 17'30\) 28° \$\alpha 01'03\) 0° \$\mathbf{m}\\ 5\circ \mathbf{m} 16'42\) 2° \$\mathrm{m} 43'34\] 30° \$\mathrm{R} \alpha \\ 29\cdot \alpha 39'02\) 26° \$\alpha 58'07\\ 26° \$\alpha 44'41\]	1°28'06 1.32784 AU 27°26'46 0.63120 AU -3°15'19
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Oct 29 15:10 4599 Nov 04 16:51 4599 Nov 04 20:40 4599 Nov 11 03:18	7° m 08'48 13° m 22'03 23° m 17'00 0°	1°38'47 1.33817 AU 27°15'21 0.64790 AU -2°13'16 2°11'46	minimum elong max. Earth dist.  evening rise  desc. node evening max el  retrograde evening set  min. Earth dist. inferior conj	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44 4600 Oct 12 14:00 4600 Oct 15 20:42 4600 Oct 16 05:36 4600 Oct 18 23:10	21° \$\alpha 54'43\) 25° \$\alpha 42'14\) 0° \$\mathbf{m}\) 7° \$\mathbf{m} 29'57\) 0° \$\alpha \) 11° \$\alpha 17'30\) 28° \$\alpha 01'03\) 0° \$\mathbf{m}\] 5° \$\mathbf{m} 16'42\) 2° \$\mathbf{m} 43'34\) 30° \$\mathbf{R}\$\alpha \) 29° \$\alpha 39'02\) 26° \$\alpha 58'07\]	1°28'06 1.32784 AU 27°26'46 0.63120 AU -3°15'19
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Oct 29 15:10 4599 Nov 02 11:07 4599 Nov 04 16:51 4599 Nov 04 20:40 4599 Nov 11 03:18 4599 Nov 11 09:26	7° m 08'48 13° m 22'03 23° m 17'00 0°	1°38'47 1.33817 AU 27°15'21 0.64790 AU -2°13'16 2°11'46	minimum elong max. Earth dist.  evening rise  desc. node evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44 4600 Oct 12 14:00 4600 Oct 15 20:42 4600 Oct 16 05:36 4600 Oct 19 04:38	21° \$\alpha 54'43\) 25° \$\alpha 42'14\) 0° \$\mathbf{m}\) 7° \$\mathbf{m} 29'57\) 0° \$\alpha \\ 11\cdot \alpha 17'30\) 28° \$\alpha 01'03\) 0° \$\mathbf{m}\\ 5\circ \mathbf{m} 16'42\) 2° \$\mathrm{m} 43'34\] 30° \$\mathrm{R} \alpha \\ 29\cdot \alpha 39'02\) 26° \$\alpha 58'07\\ 26° \$\alpha 44'41\]	1°28'06 1.32784 AU 27°26'46 0.63120 AU -3°15'19
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Oct 29 15:10 4599 Nov 02 11:07 4599 Nov 04 16:51 4599 Nov 04 20:40 4599 Nov 11 03:18 4599 Nov 11 09:26 4599 Nov 13 17:59	7° m 08'48 13° m 22'03 23° m 17'00 0°	1°38'47 1.33817 AU 27°15'21 0.64790 AU -2°13'16 2°11'46	minimum elong max. Earth dist.  evening rise  desc. node evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44 4600 Oct 12 14:00 4600 Oct 15 20:42 4600 Oct 16 05:36 4600 Oct 19 04:38 4600 Oct 25 20:47	21° \$\alpha 54'43\\ 25° \$\alpha 42'14\\ 0° m\\ 7° m\alpha 29'57\\ 0° \oldsightarrow 11° \oldsightarrow 17'30\\ 28° \oldsightarrow 01'03\\ 0° m\\ 5° m\ 16'42\\ 2° m\ 43'34\\ 30° R\oldsightarrow 29° \oldsightarrow 39'02\\ 26° \oldsightarrow 58'07\\ 26° \oldsightarrow 44'41\\ 21° \oldsightarrow 45'07\end{arrow}	1°28'06 1.32784 AU 27°26'46 0.63120 AU -3°15'19
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Oct 29 15:10 4599 Nov 02 11:07 4599 Nov 04 16:51 4599 Nov 04 20:40 4599 Nov 11 03:18 4599 Nov 11 09:26 4599 Nov 13 17:59 4599 Nov 20 05:28	7° m 08'48 13° m 22'03 23° m 17'00 0°	1°38'47 1.33817 AU 27°15'21 0.64790 AU -2°13'16 2°11'46	minimum elong max. Earth dist.  evening rise  desc. node evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44 4600 Oct 12 14:00 4600 Oct 15 20:42 4600 Oct 16 05:36 4600 Oct 19 04:38 4600 Oct 25 20:47 4600 Oct 28 06:43	21° \$\alpha 54'43\) 25° \$\alpha 42'14\) 0° \$\mathref{m}\$ 7° \$\mathref{m} 29'57\) 0° \$\oldsymbol{\Omega}\$ 11° \$\oldsymbol{\Omega} 17'30\) 28° \$\oldsymbol{\Omega} 01'03\) 0° \$\mathref{m}\$ 5° \$\mathref{m} 16'42\) 2° \$\mathref{m} 43'34\) 30° \$\mathref{m}\$ 29° \$\oldsymbol{\Omega} 39'02\) 26° \$\oldsymbol{\Omega} 58'07\) 26° \$\oldsymbol{\Omega} 44'41\) 21° \$\oldsymbol{\Omega} 45'07\) 21° \$\oldsymbol{\Omega} 17'40\)	1°28'06 1.32784 AU 27°26'46 0.63120 AU -3°15'19
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Oct 29 15:10 4599 Nov 02 11:07 4599 Nov 04 16:51 4599 Nov 11 03:18 4599 Nov 11 03:18 4599 Nov 13 17:59 4599 Nov 20 05:28 4599 Dec 03 10:10 4599 Dec 07 20:10	7° m 08'48 13° m 22'03 23° m 17'00 0° n 21° n 51'34 0° m 14° m 56'02 22° m 14'04 19° m 33'41 15° m 57'33 13° m 30'41 13° m 20'14 8° m 00'36 7° m 54'01 7° m 24'51 10° m 51'19 0° 7 7° 72'22'23	1°38'47 1.33817 AU 27°15'21 0.64790 AU -2°13'16 2°11'46	minimum elong max. Earth dist.  evening rise  desc. node evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct asc. node	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44 4600 Oct 12 14:00 4600 Oct 15 20:42 4600 Oct 16 05:36 4600 Oct 18 23:10 4600 Oct 19 04:38 4600 Oct 25 20:47 4600 Oct 28 06:43 4600 Oct 29 06:28 4600 Nov 03 22:10	21° \$\alpha 54'43\\ 25° \$\alpha 42'14\\ 0° \$\mathref{m}\\ 7° \$\mathref{m} 29'57\\ 0° \$\alpha \\ 11° \$\alpha 17'30\\ 28° \$\alpha 01'03\\ 0° \$\mathref{m}\\ 5° \$\mathref{m} 16'42\\ 2° \$\mathref{m} 43'34\\ 30° \$\alpha \\ 29° \$\alpha 39'02\\ 26° \$\alpha 58'07\\ 26° \$\alpha 44'41\\ 21° \$\alpha 45'07\\ 21° \$\alpha 17'40\\ 21° \$\alpha 22'23\\	1°28'06 1.32784 AU 27°26'46 0.63120 AU -3°15'19 3°13'31
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Oct 29 15:10 4599 Nov 02 11:07 4599 Nov 04 16:51 4599 Nov 04 20:40 4599 Nov 11 03:18 4599 Nov 11 09:26 4599 Nov 13 17:59 4599 Nov 20 05:28 4599 Dec 03 10:10	7° m 08'48 13° m 22'03 23° m 17'00 0°	1°38'47 1.33817 AU 27°15'21 0.64790 AU -2°13'16 2°11'46	minimum elong max. Earth dist.  evening rise  desc. node evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44 4600 Oct 12 14:00 4600 Oct 15 20:42 4600 Oct 16 05:36 4600 Oct 18 23:10 4600 Oct 19 04:38 4600 Oct 25 20:47 4600 Oct 28 06:43 4600 Oct 29 06:28 4600 Nov 03 22:10 4600 Nov 08 05:49	21° \$\alpha 54'43\\ 25° \$\alpha 42'14\\ 0° \$\mathbf{m}\\ 7° \$\mathbf{m} 29'57\\ 0° \$\alpha \\ 11° \$\alpha 17'30\\ 28° \$\alpha 01'03\\ 0° \$\mathbf{m}\\ 5° \$\mathbf{m} 16'42\\ 2° \$\mathbf{m} 43'34\\ 30° \$\alpha \\ 29° \$\alpha 39'02\\ 26° \$\alpha 58'07\\ 26° \$\alpha 44'41\\ 21° \$\alpha 45'07\\ 21° \$\alpha 17'40\\ 21° \$\alpha 22'23\\ 24° \$\alpha 43'24\\ 0° \$\mathbf{m}\\	1°28'06 1.32784 AU 27°26'46 0.63120 AU -3°15'19 3°13'31
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el  morning set desc. node	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Oct 29 15:10 4599 Nov 02 11:07 4599 Nov 04 16:51 4599 Nov 04 20:40 4599 Nov 11 03:18 4599 Nov 11 09:26 4599 Nov 13 17:59 4599 Nov 20 05:28 4599 Dec 03 10:10 4599 Dec 07 20:10 4599 Dec 18 01:35	7° m 08'48 13° m 22'03 23° m 17'00 0° n 21° n 51'34 0° m 14° m 56'02 22° m 14'04 19° m 33'41 15° m 57'33 13° m 30'41 13° m 20'14 8° m 00'36 7° m 54'01 7° m 24'51 10° m 51'19 0° 🗷 7° 🗷 22'23 24° 🗷 13'27	1°38'47 1.33817 AU 27°15'21 0.64790 AU -2°13'16 2°11'46	minimum elong max. Earth dist.  evening rise  desc. node evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct asc. node	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44 4600 Oct 12 14:00 4600 Oct 15 20:42 4600 Oct 16 05:36 4600 Oct 18 23:10 4600 Oct 19 04:38 4600 Oct 25 20:47 4600 Oct 28 06:43 4600 Oct 29 06:28 4600 Nov 03 22:10 4600 Nov 08 05:49 4600 Nov 20 04:29	21° \$\alpha 54'43 25° \$\alpha 42'14 0° \$\mathref{m}\$ 7° \$\mathref{m} 29'57 0° \$\oldsymbol{\Omega}\$ 11° \$\oldsymbol{\Omega} 17'30 28° \$\oldsymbol{\Omega} 01'03 0° \$\mathref{m}\$ 5° \$\mathref{m} 16'42 2° \$\mathref{m} 43'34 30° \$\alpha \oldsymbol{\Omega}\$ 29° \$\oldsymbol{\Omega} 39'02 26° \$\oldsymbol{\Omega} 58'07 26° \$\oldsymbol{\Omega} 44'41 21° \$\oldsymbol{\Omega} 45'07 21° \$\oldsymbol{\Omega} 17'40 21° \$\oldsymbol{\Omega} 22'23 24° \$\oldsymbol{\Omega} 43'24 0° \$\mathref{m}\$ 19° \$\mathref{m} 51'05	1°28'06 1.32784 AU 27°26'46 0.63120 AU -3°15'19 3°13'31
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el  morning set desc. node  superior conj	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Oct 29 15:10 4599 Nov 02 11:07 4599 Nov 04 16:51 4599 Nov 11 03:18 4599 Nov 11 09:26 4599 Nov 13 17:59 4599 Nov 20 05:28 4599 Dec 03 10:10 4599 Dec 18 01:35 4599 Dec 21 16:32	7° m 08'48 13° m 22'03 23° m 17'00 0°	1°38'47 1.33817 AU 27°15'21 0.64790 AU -2°13'16 2°11'46 17°59'50	minimum elong max. Earth dist.  evening rise  desc. node evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44 4600 Oct 12 14:00 4600 Oct 15 20:42 4600 Oct 16 05:36 4600 Oct 18 23:10 4600 Oct 19 04:38 4600 Oct 25 20:47 4600 Oct 28 06:43 4600 Oct 29 06:28 4600 Nov 03 22:10 4600 Nov 08 05:49	21° \$\alpha 54'43\\ 25° \$\alpha 42'14\\ 0° \$\mathbf{m}\\ 7° \$\mathbf{m} 29'57\\ 0° \$\alpha \\ 11° \$\alpha 17'30\\ 28° \$\alpha 01'03\\ 0° \$\mathbf{m}\\ 5° \$\mathbf{m} 16'42\\ 2° \$\mathbf{m} 43'34\\ 30° \$\alpha \\ 29° \$\alpha 39'02\\ 26° \$\alpha 58'07\\ 26° \$\alpha 44'41\\ 21° \$\alpha 45'07\\ 21° \$\alpha 17'40\\ 21° \$\alpha 22'23\\ 24° \$\alpha 43'24\\ 0° \$\mathbf{m}\\	1°28'06 1.32784 AU 27°26'46 0.63120 AU -3°15'19 3°13'31
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el  morning set desc. node	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Nov 02 11:07 4599 Nov 04 16:51 4599 Nov 04 20:40 4599 Nov 11 03:18 4599 Nov 11 09:26 4599 Nov 13 17:59 4599 Nov 20 05:28 4599 Dec 03 10:10 4599 Dec 18 01:35 4599 Dec 21 16:32 4599 Dec 21 13:29	7° m 08'48 13° m 22'03 23° m 17'00 0°	1°38'47 1.33817 AU 27°15'21 0.64790 AU -2°13'16 2°11'46 17°59'50	minimum elong max. Earth dist.  evening rise  desc. node evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el  morning set	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44 4600 Oct 12 14:00 4600 Oct 15 20:42 4600 Oct 16 05:36 4600 Oct 18 23:10 4600 Oct 19 04:38 4600 Oct 25 20:47 4600 Oct 28 06:43 4600 Oct 29 06:28 4600 Nov 03 22:10 4600 Nov 08 05:49 4600 Nov 20 04:29 4600 Nov 26 00:22	21° \$\alpha 54'43 25° \$\alpha 42'14 0° m 7° m 29'57 0° \Overline{\	1°28'06 1.32784 AU 27°26'46 0.63120 AU -3°15'19 3°13'31
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minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el  morning set desc. node  superior conj minimum elong	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Nov 02 11:07 4599 Nov 04 16:51 4599 Nov 04 20:40 4599 Nov 11 03:18 4599 Nov 11 09:26 4599 Nov 13 17:59 4599 Nov 105:28 4599 Dec 03 10:10 4599 Dec 18 01:35 4599 Dec 21 16:32 4599 Dec 21 13:29 4599 Dec 21 15:46 4599 Dec 25 20:02	7° m 08'48 13° m 22'03 23° m 17'00 0°	1°38'47 1.33817 AU 27°15'21 0.64790 AU -2°13'16 2°11'46 17°59'50	minimum elong max. Earth dist.  evening rise  desc. node evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el  morning set	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44 4600 Oct 12 14:00 4600 Oct 15 20:42 4600 Oct 16 05:36 4600 Oct 18 23:10 4600 Oct 19 04:38 4600 Oct 25 20:47 4600 Oct 28 06:43 4600 Oct 29 06:28 4600 Nov 03 22:10 4600 Nov 08 05:49 4600 Nov 20 04:29 4600 Dec 02 01:08 4600 Dec 02 03:09	21° \$\alpha 54'43 25° \$\alpha 42'14 0° m 7° m 29'57 0° \overline{O} 11° \overline{\Overline{O}} 11° \overline{O} 17'30 28° \overline{O} 01'03 0° m 5° m 16'42 2° m 43'34 30° R \overline{O} 29° \overline{O} 39'02 26° \overline{O} 58'07 26° \overline{O} 44'41 21° \overline{O} 44'5'07 21° \overline{O} 17'40 21° \overline{O} 22'23 24° \overline{O} 43'24 0° m 19° m 51'05 0° \overline{\overline{O}} 10° \overline{\Overline{O}} 10° \overline{\overline{O}} 10° \overline{\Overline{O}} 11'14	1°28'06 1.32784 AU 27°26'46 0.63120 AU -3°15'19 3°13'31 17°49'50
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el  morning set desc. node  superior conj minimum elong	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Nov 02 11:07 4599 Nov 04 16:51 4599 Nov 04 20:40 4599 Nov 11 03:18 4599 Nov 11 09:26 4599 Nov 13 17:59 4599 Nov 10 05:28 4599 Nov 20 05:28 4599 Dec 03 10:10 4599 Dec 18 01:35 4599 Dec 21 16:32 4599 Dec 21 15:46 4599 Dec 25 20:02 4600 Jan 06 22:47	7° m 08'48 13° m 22'03 23° m 17'00 0°	1°38'47 1.33817 AU 27°15'21 0.64790 AU -2°13'16 2°11'46 17°59'50	minimum elong max. Earth dist.  evening rise  desc. node evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el  morning set	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44 4600 Oct 12 14:00 4600 Oct 15 20:42 4600 Oct 16 05:36 4600 Oct 18 23:10 4600 Oct 19 04:38 4600 Oct 25 20:47 4600 Oct 28 06:43 4600 Oct 29 06:28 4600 Nov 03 22:10 4600 Nov 08 05:49 4600 Nov 20 04:29 4600 Dec 02 01:08 4600 Dec 02 03:09 4600 Dec 04 22:38	21° \$\alpha 54'43 25° \$\alpha 42'14 0° m 7° m 29'57 0° \overline{O} 11° \overline{\Overline{O}} 11° \overline{O} 17'30 28° \overline{O} 01'03 0° m 5° m 16'42 2° m 43'34 30° R \overline{O} 29° \overline{O} 39'02 26° \overline{O} 58'07 26° \overline{O} 44'41 21° \overline{O} 45'07 21° \overline{O} 17'40 21° \overline{O} 22'23 24° \overline{O} 43'24 0° m 19° m 51'05 0° \$\alpha 12'50 10° \$\alpha 12'50 10° \$\alpha 12'50'39	1°28'06 1.32784 AU 27°26'46 0.63120 AU -3°15'19 3°13'31 17°49'50 0°20'12 0°19'55
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el  morning set desc. node  superior conj minimum elong max. Earth dist. evening rise	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Nov 02 11:07 4599 Nov 04 16:51 4599 Nov 04 20:40 4599 Nov 11 03:18 4599 Nov 11 09:26 4599 Nov 13 17:59 4599 Nov 13 17:59 4599 Nov 20 05:28 4599 Dec 03 10:10 4599 Dec 07 20:10 4599 Dec 18 01:35 4599 Dec 21 16:32 4599 Dec 21 15:46 4599 Dec 25 20:02 4600 Jan 06 22:47 4600 Jan 09 21:04	7° m 08'48 13° m 22'03 23° m 17'00 0° Ω 21° Ω 51'34 0° m 14° m 56'02 22° m 14'04 19° m 33'41 15° m 57'33 13° m 30'41 13° m 20'14 8° m 00'36 7° m 54'01 7° m 24'51 10° m 51'19 0°  7°	1°38'47 1.33817 AU 27°15'21 0.64790 AU -2°13'16 2°11'46 17°59'50 -0°24'53 0°24'27 1.44974 AU	minimum elong max. Earth dist.  evening rise  desc. node evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el  morning set  superior conj minimum elong desc. node max. Earth dist.	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44 4600 Oct 12 14:00 4600 Oct 15 20:42 4600 Oct 16 05:36 4600 Oct 18 23:10 4600 Oct 19 04:38 4600 Oct 25 20:47 4600 Oct 28 06:43 4600 Oct 29 06:28 4600 Nov 03 22:10 4600 Nov 08 05:49 4600 Nov 20 04:29 4600 Dec 02 01:08 4600 Dec 02 01:08 4600 Dec 04 22:38 4600 Dec 08 13:28 4600 Dec 14 07:57	21° \$\alpha 54'43 25° \$\alpha 42'14 0° m 7° m 29'57 0° \overline{O} 11° \overline{\Overline{O}} 11° \overline{O} 17'30 28° \overline{O} 01'03 0° m 5° m 16'42 2° m 43'34 30° R \overline{O} 29° \overline{O} 39'02 26° \overline{O} 58'07 26° \overline{O} 44'41 21° \overline{O} 44'07 21° \overline{O} 17'40 21° \overline{O} 12'22 24° \overline{O} 43'24 0° m 19° m 51'05 0° \$\alpha 12'50 10° \$\alpha 12'50 10° \$\alpha 12'50 10° \$\alpha 12'50 20° \$\alpha 51'39 20° \$\alpha 51'39	1°28'06 1.32784 AU 27°26'46 0.63120 AU -3°15'19 3°13'31 17°49'50 0°20'12 0°19'55
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el  morning set desc. node  superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Oct 29 15:10 4599 Nov 02 11:07 4599 Nov 04 16:51 4599 Nov 11 03:18 4599 Nov 11 03:18 4599 Nov 11 03:26 4599 Nov 13 17:59 4599 Nov 20 05:28 4599 Dec 03 10:10 4599 Dec 07 20:10 4599 Dec 18 01:35 4599 Dec 21 16:32 4599 Dec 21 16:32 4599 Dec 21 15:46 4599 Dec 25 20:02 4600 Jan 06 22:47 4600 Jan 09 21:04 4600 Jan 21 03:06 4600 Jan 30 14:01	7° m 08'48 13° m 22'03 23° m 17'00 0° ユ 21° ユ51'34 0° m 14° m 56'02 22° m 14'04 19° m 33'41 15° m 57'33 13° m 30'41 13° m 20'14 8° m 00'36 7° m 54'01 7° m 24'51 10° m 51'19 0° ズ 7° ズ 22'23 24° ズ 13'27 0° ろ 03'01 29° ズ 50'53 0° ろ 6° ろ 37'59 25° ろ 29'44 0° ≈ 17° ≈ 02'09 0° 米	1°38'47 1.33817 AU 27°15'21 0.64790 AU -2°13'16 2°11'46 17°59'50 -0°24'53 0°24'27 1.44974 AU -0.6m	minimum elong max. Earth dist.  evening rise  desc. node evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el  morning set	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44 4600 Oct 12 14:00 4600 Oct 15 20:42 4600 Oct 16 05:36 4600 Oct 19 04:38 4600 Oct 25 20:47 4600 Oct 28 06:43 4600 Oct 29 06:28 4600 Nov 03 22:10 4600 Nov 08 05:49 4600 Nov 20 04:29 4600 Dec 02 01:08 4600 Dec 02 01:08 4600 Dec 04 22:38 4600 Dec 08 13:28 4600 Dec 14 07:57 4600 Dec 17 08:40	21° \$\alpha 54'43 25° \$\alpha 42'14 0° \$\mathref{m}\$ 7° \$\mathref{m} 29'57 0° \$\oldsymbol{\Omega}\$ 11° \$\oldsymbol{\Omega}\$17'30 28° \$\oldsymbol{\Omega}\$01'03 0° \$\mathref{m}\$ 5° \$\mathref{m} 16'42 2° \$\mathref{m} 43'34 30° \$\alpha\$ 29° \$\oldsymbol{\Omega}\$39'02 26° \$\oldsymbol{\Omega}\$45'07 21° \$\oldsymbol{\Omega}\$45'07 21° \$\oldsymbol{\Omega}\$45'07 21° \$\oldsymbol{\Omega}\$43'24 0° \$\mathref{m}\$ 19° \$\mathref{m} 51'05 0° \$\neq\$^* 10° \$\neq\$ 12'50 10° \$\neq\$ 21'14 14° \$\neq\$ 59'39 20° \$\neq\$ 51'39 0° \$\oldsymbol{\Omega}\$ 4° \$\oldsymbol{\Omega}\$42'21	1°28'06 1.32784 AU 27°26'46 0.63120 AU -3°15'19 3°13'31 17°49'50 0°20'12 0°19'55
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el  morning set desc. node  superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Nov 02 11:07 4599 Nov 04 16:51 4599 Nov 04 20:40 4599 Nov 11 03:18 4599 Nov 11 09:26 4599 Nov 13 17:59 4599 Nov 13 17:59 4599 Nov 20 05:28 4599 Dec 03 10:10 4599 Dec 18 01:35 4599 Dec 18 01:35 4599 Dec 21 13:29 4599 Dec 21 13:29 4599 Dec 21 15:46 4599 Dec 25 20:02 4600 Jan 06 22:47 4600 Jan 09 21:04 4600 Jan 30 14:01 4600 Feb 02 00:53	7° m 08'48 13° m 22'03 23° m 17'00 0° n 21° n 51'34 0° m 14° m 56'02 22° m 14'04 19° m 33'41 15° m 57'33 13° m 30'41 13° m 20'14 8° m 00'36 7° m 54'01 7° m 24'51 10° m 51'19 0° ズ 7° ズ 22'23 24° ズ 13'27 0° る03'01 29° ズ 50'53 0° る 6° る37'59 25° る29'44 0° ≈ 17° ≈ 02'09 0° 升 2° 升 44'14	1°38'47 1.33817 AU 27°15'21 0.64790 AU -2°13'16 2°11'46 17°59'50 -0°24'53 0°24'27 1.44974 AU -0.6m	minimum elong max. Earth dist.  evening rise  desc. node evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el  morning set  superior conj minimum elong desc. node max. Earth dist.  evening rise	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44 4600 Oct 12 14:00 4600 Oct 15 20:42 4600 Oct 16 05:36 4600 Oct 18 23:10 4600 Oct 19 04:38 4600 Oct 25 20:47 4600 Oct 28 06:43 4600 Oct 29 06:28 4600 Nov 03 22:10 4600 Nov 08 05:49 4600 Nov 20 04:29 4600 Nov 20 04:29 4600 Dec 02 01:08 4600 Dec 02 01:08 4600 Dec 04 22:38 4600 Dec 08 13:28 4600 Dec 17 08:40 4601 Jan 03 07:31	21° \$\alpha 5443 25° \$\alpha 42'14 0° \$\mathref{m}\$ 7° \$\mathref{m} 29'57 0° \$\oldsymbol{\Omega}\$ 11° \$\oldsymbol{\Omega}\$17'30 28° \$\oldsymbol{\Omega}\$01'03 0° \$\mathref{m}\$ 5° \$\mathref{m}\$ 16'42 2° \$\mathref{m}\$ 43'34 30° \$\alpha\$ 29° \$\oldsymbol{\Omega}\$ 39'02 26° \$\oldsymbol{\Omega}\$ 58'07 26° \$\oldsymbol{\Omega}\$ 44'41 21° \$\oldsymbol{\Omega}\$ 45'07 21° \$\oldsymbol{\Omega}\$ 17'40 21° \$\oldsymbol{\Omega}\$ 22'23 24° \$\oldsymbol{\Omega}\$ 43'24 0° \$\mathref{m}\$ 19° \$\mathref{m}\$ 51'05 0° \$\neq\$\$\frac{\omega}\$\$ 12'50 10° \$\neq\$\$ 21'14 14° \$\neq\$\$ 59'39 20° \$\neq\$\$ 51'39 0° \$\oldsymbol{\Omega}\$\$ 4° \$\oldsymbol{\Omega}\$ 42'21 0° \$\infty\$	1°28'06 1.32784 AU 27°26'46 0.63120 AU -3°15'19 3°13'31 17°49'50 0°20'12 0°19'55 1.43942 AU
minimum elong max. Earth dist. evening rise  desc. node  evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el  morning set desc. node  superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	4599 Aug 27 23:36 4599 Aug 30 22:08 4599 Sep 04 19:02 4599 Sep 08 06:39 4599 Sep 21 02:18 4599 Sep 26 16:06 4599 Oct 09 06:11 4599 Oct 22 16:31 4599 Oct 29 15:10 4599 Nov 02 11:07 4599 Nov 04 16:51 4599 Nov 11 03:18 4599 Nov 11 03:18 4599 Nov 11 03:26 4599 Nov 13 17:59 4599 Nov 20 05:28 4599 Dec 03 10:10 4599 Dec 07 20:10 4599 Dec 18 01:35 4599 Dec 21 16:32 4599 Dec 21 16:32 4599 Dec 21 15:46 4599 Dec 25 20:02 4600 Jan 06 22:47 4600 Jan 09 21:04 4600 Jan 21 03:06 4600 Jan 30 14:01	7° m 08'48 13° m 22'03 23° m 17'00 0° ユ 21° ユ51'34 0° m 14° m 56'02 22° m 14'04 19° m 33'41 15° m 57'33 13° m 30'41 13° m 20'14 8° m 00'36 7° m 54'01 7° m 24'51 10° m 51'19 0° ズ 7° ズ 22'23 24° ズ 13'27 0° ろ 03'01 29° ズ 50'53 0° ろ 6° ろ 37'59 25° ろ 29'44 0° ≈ 17° ≈ 02'09 0° 米	1°38'47 1.33817 AU 27°15'21 0.64790 AU -2°13'16 2°11'46 17°59'50 -0°24'53 0°24'27 1.44974 AU -0.6m	minimum elong max. Earth dist.  evening rise  desc. node evening max el  retrograde evening set  min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el  morning set  superior conj minimum elong desc. node max. Earth dist.	4600 Aug 12 07:53 4600 Aug 14 01:45 4600 Aug 16 01:45 4600 Aug 19 15:57 4600 Aug 31 18:09 4600 Sep 07 23:20 4600 Sep 21 16:52 4600 Sep 23 22:10 4600 Oct 05 09:44 4600 Oct 12 14:00 4600 Oct 15 20:42 4600 Oct 16 05:36 4600 Oct 19 04:38 4600 Oct 25 20:47 4600 Oct 28 06:43 4600 Oct 29 06:28 4600 Nov 03 22:10 4600 Nov 08 05:49 4600 Nov 20 04:29 4600 Dec 02 01:08 4600 Dec 02 01:08 4600 Dec 04 22:38 4600 Dec 08 13:28 4600 Dec 14 07:57 4600 Dec 17 08:40	21° \$\alpha 54'43 25° \$\alpha 42'14 0° \$\mathref{m}\$ 7° \$\mathref{m} 29'57 0° \$\oldsymbol{\Omega}\$ 11° \$\oldsymbol{\Omega}\$17'30 28° \$\oldsymbol{\Omega}\$01'03 0° \$\mathref{m}\$ 5° \$\mathref{m} 16'42 2° \$\mathref{m} 43'34 30° \$\alpha\$ 29° \$\oldsymbol{\Omega}\$39'02 26° \$\oldsymbol{\Omega}\$45'07 21° \$\oldsymbol{\Omega}\$45'07 21° \$\oldsymbol{\Omega}\$45'07 21° \$\oldsymbol{\Omega}\$43'24 0° \$\mathref{m}\$ 19° \$\mathref{m} 51'05 0° \$\neq\$^* 10° \$\neq\$ 12'50 10° \$\neq\$ 21'14 14° \$\neq\$ 59'39 20° \$\neq\$ 51'39 0° \$\oldsymbol{\Omega}\$ 4° \$\oldsymbol{\Omega}\$42'21	1°28'06 1.32784 AU 27°26'46 0.63120 AU -3°15'19 3°13'31 17°49'50 0°20'12 0°19'55 1.43942 AU

1	4601 1 25 05 45	21017122		1	4602 1 12 02 46	4021/52
asc. node	4601 Jan 25 05:45 4601 Jan 28 15:13	21°≈17'23		asc. node evening set	4602 Jan 12 02:46	4°≈21'53 3°≈44'29
evening set inferior conj	4601 Feb 02 23:30	19°≈45'06 13°≈32'20	2°36'27	evening set	4602 Jan 12 22:49	3 ≈44 29
minimum elong	4601 Feb 02 23:30 4601 Feb 02 21:03	13°≈40'46	2°35'46			
min. Earth dist.	4601 Feb 03 09:06	12°≈59'12	0.67770 AU			
morning rise	4601 Feb 08 02:43	7°≈19'23				
direct	4601 Feb 13 10:34	4°≈58'51				
morning max el	4601 Feb 24 02:55	11° <b>≈</b> 20′29	23°42'57			
desc. node	4601 Mar 02 21:53	19° <b>≈</b> 07'48				
	4601 Mar 10 23:54	0° <b>∀</b>				
	4601 Mar 30 07:49	0° <b>Υ</b>				
morning set	4601 Mar 31 12:20	2°Υ00'55				
max. Earth dist.	4601 Apr 04 09:47	8° <b>Ƴ</b> 46'10	1.38710 AU			
superior conj	4601 Apr 11 19:18	22° <b>Y</b> 16'02	-1°38'08			
minimum elong	4601 Apr 12 00:09	22° <b>Y</b> 38'54	1°37'33			
	4601 Apr 15 20:28	$9^{\circ}$ 8				
evening rise	4601 Apr 20 22:47	9° <b>8</b> 55'43				
asc. node	4601 Apr 23 05:03	14° <b>8</b> 18'37				
	4601 May 02 04:12	$\Pi^{\circ}0$				
evening max el	4601 May 07 06:48	6° <b>Ⅱ</b> 19'45	18°48'24			
retrograde	4601 May 15 12:41	10° <b>Ⅲ</b> 22'24				
evening set	4601 May 17 15:55	10° <b>Ⅲ</b> 07'10 5° <b>Ⅲ</b> 47'06	1012144			
inferior conj minimum elong	4601 May 25 14:58 4601 May 25 17:35	5° <b>П</b> 42'19	1°12'44 1°11'50			
min. Earth dist.	4601 May 28 20:24	3° <b>П</b> 26'55	0.57116 AU			
desc. node	4601 May 29 21:05	2° <b>II</b> 45'07	0.57110710			
morning rise	4601 Jun 02 15:59	0° <b>П</b> 39'10				
S	4601 Jun 04 10:45	30° <b>₹</b> 8				
direct	4601 Jun 08 02:48	29° <b>8</b> 27'02				
	4601 Jun 11 19:41	$\Pi^{\circ}0$				
morning max el	4601 Jun 22 11:09	6° <b>Ⅱ</b> 56′09	26°13'03			
	4601 Jul 09 12:52	$0$ $\circ$ $\odot$				
asc. node	4601 Jul 20 04:17	20° <b>©</b> 17'26				
morning set	4601 Jul 20 22:16	21°952'04				
	4601 Jul 24 16:48	$0 {\circ} \Omega$				
superior conj	4601 Jul 27 21:17	7° <b>Ω</b> 00'50	1°12'55			
minimum elong	4601 Jul 27 18:57	6° <b>Ω</b> 48'02	1°12'33			
max. Earth dist.	4601 Jul 28 11:05		1.32170 AU			
evening rise	4601 Aug 03 19:59	22° <b>Ω</b> 02'12				
	4601 Aug 07 17:58	0° <b>m</b> )				
desc. node	4601 Aug 25 20:21	0° <b>ჲ</b> 00'02				
avaning may al	4601 Aug 25 20:21 4601 Sep 03 22:56	0° <b>ჲ</b> 10° <b>ჲ</b> 27'50	27°05'49			
evening max el retrograde	4601 Sep 17 19:42	10 <b>=</b> 27 30 17° <b>£</b> 39'55	27 03 49			
evening set	4601 Sep 24 21:30	17 <b>=</b> 3933				
min. Earth dist.	4601 Sep 28 13:16	13° <b>⊆</b> 23'37	0.61177 AU			
inferior conj	4601 Oct 01 16:26	10° <b>≙</b> 01'24				
minimum elong	4601 Oct 01 22:35	9° <b>£</b> 48'04	4°11'03			
morning rise	4601 Oct 09 01:33	5° <b>≏</b> 08'57				
direct	4601 Oct 11 09:37	4° <b>£</b> 46'45				
asc. node	4601 Oct 16 03:30	6° <b>£</b> 22'19				
morning max el	4601 Oct 18 12:36	8° <b>ഫ</b> 20'09	17°58'23			
	4601 Nov 01 13:20	0°M				
morning set	4601 Nov 03 06:57	3°M11'03				
superior conj	4601 Nov 13 12:18	21°ML40'10	0°56'30			
minimum elong	4601 Nov 13 16:17	21°M57'38	0°55'59			
-	4601 Nov 18 08:28	0°⊀				
max. Earth dist.	4601 Nov 21 02:11	4° <b>≯</b> ³34'40	1.42334 AU			
desc. node	4601 Nov 21 19:38	5° <b>∡</b> ¹46'40				
evening rise	4601 Nov 27 03:21	14° <b>∡</b> 22'31				
	4601 Dec 07 07:22	ರ್∘ರ				
	4601 Dec 29 22:09	0°≈	2001-11-			
evening max el	4601 Dec 29 19:16 4602 Jan 08 09:28	29°る52'42	22°17'45			
retrograde	4002 Jan 00 09:28	5° <b>≈</b> 35'06				