evening set	9600 Apr 05 23:03 9600 Apr 07 08:26	29° <b>Ƴ</b> 41'15 0° <b>႘</b>		evening set	9605 Oct 02 18:08 9605 Oct 09 08:01	28° <b>£</b> 28'37 0° <b>™</b>	
max. Earth dist.	9600 Apr 16 10:12	2° <b>8</b> 03'04	6.27183 AU		0605 0 + 16 00 26	1070 20110	0022152
conjunction	9600 Apr 18 17:43	2° <b>8</b> 34'31	-0°24'48	conjunction minimum elong	9605 Oct 16 09:26 9605 Oct 16 09:25	1°M38'18 1°M38'18	0°23'53 0°24'02
minimum elong	9600 Apr 18 17:42	2° <b>8</b> 34'31		max. Earth dist.	9605 Oct 18 20:37	2°M12'38	6.09943 AU
morning rise	9600 May 01 11:42	5° <b>8</b> 27'46	0 2130	morning rise	9605 Oct 30 01:39	4°M48'05	0.07713710
morning rise	9600 Jun 15 10:13	15° <b>8</b>			9605 Dec 16 10:29	15° <b>™</b>	
retrograde	9600 Sep 03 10:09	23° <b>8</b> 41'52		retrograde	9606 Mar 06 08:53	23°M51'39	
opposition	9600 Nov 03 00:49	18° <b>8</b> 48'01	-0°50'59	min. Earth dist.	9606 May 03 18:26	19° <b>M</b> 00'16	4.18399 AU
min. Earth dist.	9600 Nov 04 12:38	18° <b>8</b> 36'26	4.18711 AU	opposition	9606 May 05 05:54	18° <b>M</b> 48'19	0°50'42
	9600 Dec 06 14:42	15° <b>₹</b> 8		11	9606 Jun 06 15:54	15°RM₊	
direct	9601 Jan 03 01:41	13° <b>8</b> 49'49		direct	9606 Jul 03 16:45	13° <b>M</b> 48'57	
	9601 Jan 30 11:00	15° <b>8</b>			9606 Jul 31 00:32	15° <b>M</b> ₊	
	9601 Apr 27 10:20	$\Pi^{\circ}0$			9606 Oct 27 20:31	0° <b>∡</b> ¹	
evening set	9601 May 08 20:39	2° <b>Ⅲ</b> 38′28		evening set	9606 Nov 07 02:19	2° <b>҂</b> 15′29	
max. Earth dist.	9601 May 19 22:45	5° <b>Ⅱ</b> 14'34	6.10300 AU				
				conjunction	9606 Nov 20 14:51	5° <b>∡</b> 16′26	0°41'22
conjunction	9601 May 21 16:58	5° <b>Ⅱ</b> 39'25	-0°41'30	minimum elong	9606 Nov 20 14:50	5° <b>∡</b> 16'25	0°41'41
minimum elong	9601 May 21 16:57		0°41'49	max. Earth dist.	9606 Nov 22 12:06	5° <b>∡</b> ′41'43	6.26973 AU
morning rise	9601 Jun 03 13:43	8° <b>Ⅱ</b> 40'57		morning rise	9606 Dec 04 02:45	8° <b>≯</b> 16'46	
retrograde	9601 Oct 10 01:20	28° <b>Ⅱ</b> 10′06		retrograde	9607 Apr 07 04:49	26° <b>₰</b> 08'25	
opposition	9601 Dec 09 02:10	23° <b>∐</b> 14'13		opposition	9607 Jun 06 11:24	21° <b>∡</b> °07'51	1°05'57
min. Earth dist.	9601 Dec 09 23:38		4.02500 AU	min. Earth dist.	9607 Jun 05 13:50	21° <b>∡</b> 15′00	4.34782 AU
direct	9602 Feb 06 17:49	18° <b>Ⅱ</b> 18'12		direct	9607 Aug 06 06:35	16° <b>∡</b> *07'03	
	9602 May 09 17:05	0°95			9607 Nov 22 04:18	0°る	
evening set	9602 Jun 13 01:02	7°956'09	5.06262 ATT	evening set	9607 Dec 10 03:55	3° <b>る</b> 48'50	
max. Earth dist.	9602 Jun 25 11:56	10° <b>©</b> 56'56	5.96263 AU	agniumation	0607 Dec. 22, 11:24	6° <b>る</b> 41'51	0°45'23
agnismation	9602 Jun 26 02:21	11° <b>©</b> 05'40	0944!10	conjunction	9607 Dec 23 11:34 9607 Dec 23 11:35	6° <b>ろ</b> 41'51	0°45'44
conjunction minimum elong	9602 Jun 26 02:21 9602 Jun 26 02:21	11°505'40	0°44'40	minimum elong max. Earth dist.	9607 Dec 24 06:16	6° <b>ろ</b> 51'59	6.41457 AU
morning rise	9602 Jul	14°505'40	0 44 40	morning rise	9608 Jan 05 17:43	9° <b>る</b> 33'55	0.41437 AU
morning risc	9602 Sep 21 23:55	0°Ω		retrograde	9608 May 06 07:42	26° <b>る</b> 33'09	
retrograde	9602 Nov 17 12:05	4°Ω48'53		opposition	9608 Jul 06 00:31	21° <b>る</b> 35'52	1°01'43
retrograde	9603 Jan 14 20:37	30°R.55		min. Earth dist.	9608 Jul 05 21:22	21° <b>る</b> 36'53	4.46417 AU
opposition	9603 Jan 16 02:44	29°549'57	-0°59'06	direct	9608 Sep 05 22:23	16° <b>る</b> 34'20	
min. Earth dist.	9603 Jan 15 23:03		3.92148 AU		9608 Dec 22 03:10	0° <b>≈</b>	
direct	9603 Mar 15 11:52	24° <b>©</b> 55'20		evening set	9609 Jan 09 09:43	3° <b>≈</b> 48'53	
	9603 May 11 07:40	$0^{\circ}\Omega$		C			
evening set	9603 Jul 20 06:50	15° <b>Ω</b> 01'19		conjunction	9609 Jan 22 12:25	6° <b>≈</b> 36'51	0°36'45
	9603 Jul 20 04:40	15° <b>Ω</b>		minimum elong	9609 Jan 22 12:26	6° <b>≈</b> 36'52	0°37'02
				max. Earth dist.	9609 Jan 22 02:26	6° <b>≈</b> 31'31	6.49431 AU
conjunction	9603 Aug 02 15:08	18° <b>Ω</b> 16′52	-0°29'51	morning rise	9609 Feb 04 12:51	9° <b>≈</b> 23'44	
minimum elong	9603 Aug 02 15:09	18° <b>Ω</b> 16′53			9609 Mar 03 16:53	15° <b>≈</b>	
max. Earth dist.	9603 Aug 03 13:34		5.90655 AU	retrograde	9609 Jun 04 22:07	25° <b>≈</b> 58'55	
morning rise	9603 Aug 16 02:00	21° <b>Ω</b> 33'46		opposition	9609 Aug 04 21:44	21° <b>≈</b> 04'20	0°41'38
	9603 Sep 21 07:09	0° m/		min. Earth dist.	9609 Aug 05 13:53	20°≈59'09	4.50324 AU
retrograde	9603 Dec 26 04:31	12° Tp 25'17	2 02026 444	direct	9609 Oct 06 11:48	16° <b>≈</b> 02'48	
min. Earth dist.	9604 Feb 22 11:31	-	3.92026 AU		9610 Jan 24 10:54	0° <b>)</b> {	
opposition	9604 Feb 23 13:47	7° Mp 22'58	-0°25'58	evening set	9610 Feb 08 16:00	3° <b>)</b> €11'50	C 400CC ATT
direct	9604 Apr 21 12:09	2°Mp27'47		max. Earth dist.	9610 Feb 20 01:35	5° <b>)</b> 38′32	6.48966 AU
evening set	9604 Aug 26 09:46	22° Mp 25'25		conjunction	9610 Feb 21 14:17	5° <b>¥</b> 58'17	0°18'37
conjunction	9604 Sep 08 23:54	25° Mp 41'07	0°03'16	minimum elong	9610 Feb 21 14:17	5° <b>¥</b> 58'17	0°18'48
minimum elong	9604 Sep 08 23:54	25° mg 41'08	0°03'19	morning rise	9610 Mar 06 10:41	8° <b>¥</b> 43′52	0 10 40
behind sun begin	9604 Sep 08 15:35	25° m/36'09	0 03 17	retrograde	9610 Jul 05 03:18	25° <b>)</b> 25'54	
behind sun end	9604 Sep 09 08:14	25° m/46'07		opposition	9610 Sep 04 04:09	20° <b>)</b> 32'44	0°10'50
max. Earth dist.	9604 Sep 11 04:36	26° m/ 12'48	5.96002 AU	min. Earth dist.	9610 Sep 05 12:40	20° <b>)</b> 22'21	4.45546 AU
morning rise	9604 Sep 22 15:55	28° m 57'39	-	direct	9610 Nov 05 20:16	15° <b>)</b> €31'38	-
Ç	9604 Sep 27 00:57	0∘ <u>⊽</u>		desc. node	9611 Jan 04 23:36	20° <b>¥</b> 27'45	
asc. node	9604 Oct 24 03:51	6° <b>≏</b> 12'41			9611 Feb 25 03:35	$0$ ° $\Upsilon$	
retrograde	9605 Jan 31 03:43	19° <b>≙</b> 11'57		evening set	9611 Mar 10 22:40	2° <b>Y</b> 58'04	
min. Earth dist.	9605 Mar 30 01:45	14° <b>≏</b> 20'32	4.02211 AU	max. Earth dist.	9611 Mar 21 13:48	5° <b>Y</b> 17'50	6.40144 AU
opposition	9605 Mar 31 15:06	14° <b>≙</b> 07'51	0°16'47				
direct	9605 May 28 23:52	9° <b>亞</b> 10'39		conjunction	9611 Mar 23 18:15	5° <b>Ƴ</b> 46'41	-0°04'45

minimum alana	9611 Mar 23 18:15	5° <b>Ƴ</b> 46'41	0004146	retrograde	9617 Feb 05 03:25	24° <b>£</b> 22'33	
minimum elong		5° <b>Υ</b> 42'25	0 04 40	Č			4.03908 AU
behind sun begin	9611 Mar 23 10:28			min. Earth dist.	9617 Apr 04 01:07		
behind sun end	9611 Mar 24 02:02	5°Υ50'56		opposition	9617 Apr 05 16:22	19° <b>£</b> 18'19	0°22'24
morning rise	9611 Apr 05 12:11	8° <b>Y</b> 34'45		direct	9617 Jun 03 03:09	14° <b>£</b> 20'46	
retrograde	9611 Aug 05 21:19	25° <b>Y</b> 54'13			9617 Sep 22 07:08	0°M	
opposition	9611 Oct 05 19:43	21° <b>Υ</b> 01'10		evening set	9617 Oct 07 21:42	3°M32'39	
min. Earth dist.	9611 Oct 07 11:05	20° <b>Y</b> 48'34	4.33163 AU				
direct	9611 Dec 06 20:28	16° <b>Y</b> 01'14		conjunction	9617 Oct 21 12:52	6°M41'17	0°27'04
	9612 Mar 22 17:50	$0^{\circ}S$		minimum elong	9617 Oct 21 12:51	6°M41'16	0°27'16
evening set	9612 Apr 10 05:55	4° <b>8</b> 05'52		max. Earth dist.	9617 Oct 23 23:52	7° <b>™</b> 15'21	6.12109 AU
max. Earth dist.	9612 Apr 20 17:37	6° <b>8</b> 28'39	6.25062 AU	morning rise	9617 Nov 04 04:37	9° <b>™</b> 49'51	
					9617 Nov 27 07:38	15° <b>™</b>	
conjunction	9612 Apr 23 00:36	6° <b>8</b> 59'58	-0°27'33	retrograde	9618 Mar 11 01:43	28° <b>™</b> 43′05	
minimum elong	9612 Apr 23 00:35	6° <b>8</b> 59'58	0°27'44	opposition	9618 May 09 23:09	23°M39'58	0°54'03
morning rise	9612 May 05 18:41	9° <b>8</b> 54'07		min. Earth dist.	9618 May 08 13:19	23°M51'20	4.20781 AU
	9612 May 28 18:17	15° <b>8</b>		direct	9618 Jul 08 15:16	18° <b>M</b> 40'18	
retrograde	9612 Sep 08 05:10	28° <b>8</b> 17'37			9618 Oct 10 03:56	0° <b>∡</b> ¹	
opposition	9612 Nov 07 17:00	23° <b>8</b> 23'32	-0°54'17	evening set	9618 Nov 11 22:12	6° <b>₹</b> 59'36	
min. Earth dist.	9612 Nov 09 05:15	23° <b>8</b> 11'49	4.16334 AU	•			
direct	9613 Jan 07 14:32	18° <b>8</b> 25'31		conjunction	9618 Nov 25 10:06	9° <b>∡</b> 759'16	0°42'44
	9613 Apr 10 18:47	0°П		minimum elong	9618 Nov 25 10:05	9° <b>×</b> 759'16	0°43'04
evening set	9613 May 13 10:21	7° <b>Ⅱ</b> 21'41		max. Earth dist.	9618 Nov 27 05:18	10° <b>₹</b> 23'16	6.29344 AU
max. Earth dist.	9613 May 24 13:56	9° <b>I</b> 59'29	6.07866 AU	morning rise	9618 Dec 08 21:13	12° <b>×</b> <sup>2</sup> 58'15	0.27511110
max. Lattii dist.	7013 Way 24 13.30	) <b>H</b> 3/2/	0.07600 AC	morning risc	9619 Mar 21 20:39	0°る	
conjunction	9613 May 26 07:12	10° <b>Ⅲ</b> 23'55	0042140	retrograde	9619 Apr 11 11:52	0°る40'33	
·	•	10 <b>H</b> 23 33 10° <b>H</b> 23'54		reirograde	•		
minimum elong	9613 May 26 07:12		0-43.07	***	9619 May 02 00:53	30°₹ <b>⋌</b> ¹	1006125
morning rise	9613 Jun 08 04:45	13° <b>II</b> 26'51		opposition	9619 Jun 10 21:04	25° 🖈 40'22	1°06'25
	9613 Aug 30 22:24	0°95		min. Earth dist.	9619 Jun 10 00:55	25° 🖈 47'02	4.36941 AU
retrograde	9613 Oct 15 02:44	3°507'06		direct	9619 Aug 10 19:38	20° <b>₹</b> 39'24	
	9613 Nov 29 22:35	30°RⅡ			9619 Nov 04 04:33	0°る	
opposition	9613 Dec 14 02:44	28° <b>Ⅱ</b> 10'51		evening set	9619 Dec 14 16:02	8° <b>る</b> 15'33	
min. Earth dist.	9613 Dec 14 20:59	28° <b>Ⅱ</b> 04'51	4.00233 AU			_	
direct	9614 Feb 11 12:16	23° <b>Ⅱ</b> 15′03		conjunction	9619 Dec 27 22:56	11° <b>る</b> 07'33	0°44'49
	9614 Apr 19 16:03	0		minimum elong	9619 Dec 27 22:56	11° <b>る</b> 07'34	0°45'11
evening set	9614 Jun 17 23:39	13° <b>©</b> 00'24		max. Earth dist.	9619 Dec 28 13:44	11° <b>る</b> 15'33	6.43231 AU
				morning rise	9620 Jan 10 04:08	13° <b>る</b> 58'34	
conjunction	9614 Jul 01 01:53	16° <b>©</b> 11'14	-0°43'21		9620 Apr 16 19:45	0° <b>≈</b>	
minimum elong	9614 Jul 01 01:54	16°911'14	0°43'42	retrograde	9620 May 10 12:30	0° <b>≈</b> 52′00	
max. Earth dist.	9614 Jun 30 15:41	16° <b>©</b> 05'01	5.94385 AU		9620 Jun 03 01:08	30°R₹	
morning rise	9614 Jul 14 06:07	19° <b>5</b> 23'20		opposition	9620 Jul 10 06:00	25° <b>ප්</b> 55'11	0°59'41
	9614 Aug 29 20:06	$0^{\circ}\Omega$		min. Earth dist.	9620 Jul 10 06:01	25° <b>る</b> 55'10	4.47676 AU
retrograde	9614 Nov 22 21:04	10° <b>Ω</b> 04'06		direct	9620 Sep 10 07:31	20°る53'40	
opposition	9615 Jan 21 09:23	5° <b>Ω</b> 04'41	-0°55'51		9620 Dec 04 11:07	0° <b>≈</b>	
min. Earth dist.	9615 Jan 21 02:52	5° <b>Ω</b> 06'52	3.90866 AU	evening set	9621 Jan 13 16:30	8°≈05'25	
direct	9615 Mar 20 16:17	0° <b>Ω</b> 10′04		C			
	9615 Jul 03 04:21	15° <b>Ω</b>		conjunction	9621 Jan 26 18:24	10°≈52'51	0°34'39
evening set	9615 Jul 25 12:40	20° <b>Ω</b> 19'49		minimum elong	9621 Jan 26 18:25	10°≈52'52	0°34'55
		_, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		max. Earth dist.	9621 Jan 26 03:10	10° <b>≈</b> 44'43	6.50070 AU
conjunction	9615 Aug 07 22:13	23° <b>Ω</b> 36'11	-0°26'41	morning rise	9621 Feb 08 18:16	13° <b>≈</b> 39'17	0.00070110
minimum elong	9615 Aug 07 22:14	23°Ω36'12		morning not	9621 Feb 15 02:58	15° <b>≈</b>	
max. Earth dist.	9615 Aug 09 03:01		5.90123 AU		9621 May 28 06:14	0° <b>∀</b>	
morning rise	9615 Aug 21 10:03	26° <b>£</b> 53'49	3.70123 AU	retrograde	9621 Jun 09 02:32	0° <b>)</b> 13′07	
morning risc	9615 Sep 03 08:03	0° <b>m</b>		Tetrograde	9621 Jun 20 21:50	30°R≈	
rotro ara do	9615 Dec 31 12:59	17° Mp 45'54		ampagition			0°37'46
retrograde			0020111	opposition	9621 Aug 09 02:22	25°≈18'48	
opposition	9616 Feb 28 20:39	12° m/43'13		min. Earth dist.	9621 Aug 09 21:24	25°≈12'41	4.50319 AU
min. Earth dist.	9616 Feb 27 15:58		3.92318 AU	direct	9621 Oct 10 17:21	20°≈17'17	
direct	9616 Apr 26 17:59	7° Mp 47'51			9622 Jan 07 06:29	0° <b>)</b> {	
evening set	9616 Aug 31 17:39	27° m/43'38		evening set	9622 Feb 12 20:55	7° <b>)</b> (27'03	C 40214 177
asc. node	9616 Sep 02 16:34	28° m, 11'37		max. Earth dist.	9622 Feb 24 04:20	9° <b>¥</b> 52'47	6.48314 AU
	9616 Sep 10 05:40	0∘ <b>⊽</b>				40634	004.5:
				conjunction	9622 Feb 25 18:52	10° <b>)</b> 13′34	0°15'32
conjunction	9616 Sep 14 08:14	0° <b>£</b> 59'04		minimum elong	9622 Feb 25 18:53	10° <b>)</b> 13'34	0°15'41
minimum elong	9616 Sep 14 08:14	0° <b>≙</b> 59'04	0°00'51	behind sun begin	9622 Feb 25 17:07	10° <b>米</b> 12'37	
behind sun begin	9616 Sep 13 23:50	0° <b>£</b> 54'04		behind sun end	9622 Feb 25 20:39	10° <b>)</b> 14'31	
behind sun end	9616 Sep 14 16:37	1° <b>≏</b> 04'04		morning rise	9622 Mar 10 14:37	12° <b>¥</b> 59'11	
max. Earth dist.	9616 Sep 16 15:13	1° <b>≏</b> 32'00	5.97061 AU	retrograde	9622 Jul 09 09:59	29° <b>)</b> 44′26	
morning rise	9616 Sep 28 00:51	4° <b>≙</b> 15'17		opposition	9622 Sep 08 11:30	24° <b>)</b> 51′24	0°05'59

min. Earth dist.	9622 Sep 09 21:14	24°¥40'38	4.44284 AU	retrograde	9628 Jan 05 19:53	23° m 12'07	
direct	9622 Nov 10 01:43	19° <b>H</b> 50'28	4.44204 AU	min. Earth dist.	9628 Mar 03 20:57	18° Mp 19'56	3.93484 AU
desc. node	9622 Nov 14 15:59	19° <b>)</b> 52'22		opposition	9628 Mar 05 05:05	18° Mp 09'02	
dese. node	9623 Feb 08 01:03	0°Υ		direct	9628 May 02 02:48	13° m) 13'24	0 1.00
evening set	9623 Mar 15 05:34	7° <b>Υ</b> 21'03		asc. node	9628 Jul 12 10:26	20° m 50'50	
max. Earth dist.	9623 Mar 25 18:17	9° <b>Y</b> 40'06	6.38347 AU		9628 Aug 24 01:30	0∘ <b>⊽</b>	
				evening set	9628 Sep 06 02:12	3° <b>ჲ</b> 03'48	
conjunction	9623 Mar 28 00:46	10° <b>Ƴ</b> 10′13	-0°08'08	-	-		
minimum elong	9623 Mar 28 00:46	10° <b>Ƴ</b> 10′12	0°08'10	conjunction	9628 Sep 19 17:09	6° <b>£</b> 18′28	0°04'57
behind sun begin	9623 Mar 27 17:41	10° <b>Ƴ</b> 06'19		minimum elong	9628 Sep 19 17:09	6° <b>≏</b> 18′28	0°04'57
behind sun end	9623 Mar 28 07:51	10° <b>Ƴ</b> 14'06		behind sun begin	9628 Sep 19 09:00	6° <b>£</b> 13'37	
morning rise	9623 Apr 09 18:39	12° <b>Y</b> 58'57		behind sun end	9628 Sep 20 01:18	6° <b>£</b> 23′18	
	9623 Jul 24 19:42	0°8		max. Earth dist.	9628 Sep 22 02:37	6° <b>£</b> 52'43	5.98979 AU
retrograde	9623 Aug 10 13:48	0° <b>8</b> 26'04		morning rise	9628 Oct 03 09:50	9° <b>£</b> 33'45	
	9623 Aug 27 05:59	30° <b>₹</b> Υ		retrograde	9629 Feb 10 02:38	29° <b>Ω</b> 30'39	
opposition	9623 Oct 10 09:46	25°Υ32'59		min. Earth dist.	9629 Apr 09 01:35	24° <b>Ω</b> 39'28	4.06332 AU
min. Earth dist.	9623 Oct 12 02:26	25°Υ19'56	4.30922 AU	opposition	9629 Apr 10 16:15	24° <b>Ω</b> 26'20	0°27'49
direct	9623 Dec 11 08:03	20° <b>Y</b> 33'15		direct	9629 Jun 08 07:48	19° <b>£</b> 28'25	
avanina aat	9624 Mar 04 21:59	0° <b>と</b> 8° <b>と</b> 44'51		avanina aat	9629 Sep 03 22:35	0°M	
evening set max. Earth dist.	9624 Apr 14 17:59 9624 Apr 25 06:09	_	6.22550 AU	evening set	9629 Oct 12 23:09	8°M31'49	
max. Earth dist.	9024 Apr 23 00.09	11 00043	0.22330 AU	conjunction	9629 Oct 26 14:03	11° <b>M</b> .39'04	0°30'01
conjunction	9624 Apr 27 12:52	11° <b>8</b> 40'03	-0°30'18	minimum elong	9629 Oct 26 14:03	11°M39'04	0°30'14
minimum elong	9624 Apr 27 12:51	11°840'02		max. Earth dist.	9629 Oct 29 00:56	12°ML12'51	6.14805 AU
morning rise	9624 May 10 07:13	14° <b>8</b> 35'21		morning rise	9629 Nov 09 05:15	14°M46'09	
C	9624 May 12 02:31	15° <b>8</b>		C	9629 Nov 10 05:37	15°M	
	9624 Jul 29 06:03	0° <b>I</b> I			9630 Jan 26 19:38	0° <b>∡</b> ¹	
retrograde	9624 Sep 13 04:50	3° <b>Ⅱ</b> 09'49		retrograde	9630 Mar 15 12:57	3° <b>҂</b> 27'29	
-	9624 Oct 29 21:51	30° <b>₹</b> 8		-	9630 May 02 12:14	30°RM	
opposition	9624 Nov 12 15:40	28° <b>8</b> 15'31	-0°57'28	min. Earth dist.	9630 May 13 04:03	28°M35'48	4.23492 AU
min. Earth dist.	9624 Nov 14 01:34	28° <b>8</b> 04'31	4.13747 AU	opposition	9630 May 14 13:16	28°M24'39	0°56'56
direct	9625 Jan 12 06:56	23° <b>8</b> 17'51		direct	9630 Jul 13 08:54	23°M24'45	
	9625 Mar 21 11:07	$\Pi^{\circ}0$			9630 Sep 20 00:37	0°⊀	
evening set	9625 May 18 06:46	12° <b>Ⅱ</b> 22'15		evening set	9630 Nov 16 14:38	11° <b>∡</b> ³36′02	
max. Earth dist.	9625 May 29 14:22	15° <b>Ⅱ</b> 03'19	6.05431 AU			=	
				conjunction	9630 Nov 30 01:45	14° <b>₹</b> 34'20	0°43'48
conjunction	9625 May 31 04:09	15° <b>Ⅱ</b> 25'48		minimum elong	9630 Nov 30 01:44	14° 🗷 34'20	0°44'08
minimum elong	9625 May 31 04:08	15° <b>Ⅲ</b> 25'48 18° <b>Ⅲ</b> 30'10	0°44'12	max. Earth dist.	9630 Dec 01 16:05	14° 🖈 55'32	6.31846 AU
morning rise	9625 Jun 13 02:29 9625 Aug 04 10:28	0.62		morning rise	9630 Dec 13 12:05 9631 Feb 15 06:27	17° <b>メ</b> 31'56 0° <b>る</b>	
retrograde	9625 Oct 20 12:32	8°921'32		retrograde	9631 Apr 15 17:58	5° <b>る</b> 05'04	
opposition	9625 Dec 19 10:02	3°524'54	-1°07'58	min. Earth dist.	9631 Jun 14 11:37	0°る10'45	4.39042 AU
min. Earth dist.	9625 Dec 20 01:34		3.98187 AU	opposition	9631 Jun 15 04:04	0° <b>る</b> 05'20	1°06'29
	9626 Jan 17 01:53	30° <b>Ŗ</b> Ⅱ		opp	9631 Jun 15 20:13	30°R. <b>✓</b>	
direct	9626 Feb 16 15:50	28° <b>Ⅲ</b> 29′22		direct	9631 Aug 15 08:07	25° <b>₹</b> '04'11	
	9626 Mar 18 23:36	0ಂತ			9631 Oct 13 23:34	ರ°0	
evening set	9626 Jun 23 04:27	18° <b>©</b> 20'57		evening set	9631 Dec 19 00:56	12° <b>る</b> 35'00	
conjunction	9626 Jul 06 07:51	21°533'00	-0°41'58	conjunction	9632 Jan 01 07:10	15° <b>る</b> 26'08	0°44'03
minimum elong	9626 Jul 06 07:52	21° <b>©</b> 33'00	0°42'19	minimum elong	9632 Jan 01 07:11	15° <b>පි</b> 26'08	0°44'23
max. Earth dist.	9626 Jul 06 04:00		5.92961 AU	max. Earth dist.	9632 Jan 01 17:45	15° <b>පි</b> 31'50	6.44776 AU
morning rise	9626 Jul 19 13:09	24°9546'17		morning rise	9632 Jan 14 11:33	18° <b>る</b> 16'14	
	9626 Aug 10 13:00	0° <b>Ω</b>			9632 Mar 15 15:23	0°≈ 5°2 •04!53	
retrogrado	9626 Nov 10 03:48 9626 Nov 28 10:44	15° <b>Ω</b> 15° <b>Ω</b> 32'49		retrograde opposition	9632 May 14 13:33 9632 Jul 14 09:06	5°≈04'52 0°≈08'24	0°57'23
retrograde	9626 Dec 16 14:17	13 <b>δ (</b> 32 49) 15°R <b>Ω</b>		min. Earth dist.	9632 Jul 14 11:32	0°≈0824 0°≈07'36	4.48593 AU
opposition	9627 Jan 26 20:57	13 <b>₹87</b> 10° <b>£</b> 32'58	-0°51'56	mm. Darm dist.	9632 Jul 14 11:32 9632 Jul 15 11:00	0 ≈0736 30°Ŗる	т.то <i>эээ М</i> О
min. Earth dist.	9627 Jan 26 10:46	10° <b>Ω</b> 36'23	3.90271 AU	direct	9632 Sep 14 12:20	25° <b>る</b> 06'49	
direct	9627 Mar 26 00:27	5° <b>Ω</b> 38'26	5.50271110		9632 Nov 13 15:37	25 <b>3</b> 00 <b>4</b> 7	
	9627 Jun 13 15:00	15° <b>Ω</b>		evening set	9633 Jan 17 21:15	12°≈16'56	
evening set	9627 Jul 30 22:40	25° <b>Ω</b> 48'52		<i>5</i>			
Č				conjunction	9633 Jan 30 22:35	15° <b>≈</b> 04'03	0°32'24
conjunction	9627 Aug 13 08:59	29° <b>Ω</b> 05'30	-0°23'10	minimum elong	9633 Jan 30 22:36	15° <b>≈</b> 04'03	0°32'41
minimum elong	9627 Aug 13 09:00	29° <b>Ω</b> 05'31	0°23'22	max. Earth dist.	9633 Jan 30 03:54	14° <b>≈</b> 54′03	6.50302 AU
max. Earth dist.	9627 Aug 14 17:56	29° <b>Ω</b> 25'38	5.90416 AU		9633 Jan 30 15:01	15° <b>≈</b>	
	9627 Aug 17 02:12	0° <b>m</b>		morning rise	9633 Feb 12 21:45	17° <b>≈</b> 50'08	
morning rise	9627 Aug 26 21:55	2° Mp 23'26			9633 Apr 18 14:51	0° <b>∀</b>	

	0.000 x 10 0.000	40)/00/50			0.000 x 1 04 04 00	00 010110	
retrograde	9633 Jun 13 06:08	4° <b>)</b> €23'58		morning rise	9638 Jul 24 21:22	0° <b>Ω</b> 10'40	
	9633 Aug 09 07:57	30°R <b>≈</b>			9638 Jul 24 03:48	$0 {\circ} \Omega$	
opposition	9633 Aug 13 05:59	29° <b>≈</b> 29'57	0°33'47		9638 Oct 01 08:41	15° <b>Ω</b>	
min. Earth dist.	9633 Aug 14 04:00	29° <b>≈</b> 22'54	4.49857 AU	retrograde	9638 Dec 03 20:48	21° <b>Ω</b> 00′22	
direct	9633 Oct 14 22:11	24° <b>≈</b> 28'30		opposition	9639 Feb 01 07:52	15° <b>Ω</b> 59'58	-0°47'31
	9633 Dec 18 06:47	0° <b>∀</b>		min. Earth dist.	9639 Jan 31 17:16	16° <b>Ω</b> 04'53	3.90234 AU
evening set	9634 Feb 17 01:10	11° <b>) (</b> 40′20			9639 Feb 08 19:29	15°R <b>Ω</b>	
max. Earth dist.	9634 Feb 28 03:30	14° <b>)</b> (03'48	6.47176 AU	direct	9639 Mar 31 09:04	11° <b>Ω</b> 05'24	
max. Lartii dist.	7054100 20 05.50	14 /(03 40	0.4/1/0 AC	uncet		11° <b>Ω</b> 0324	
	0.0437 01 00 04	1.40\/05105	0010104		9639 May 19 14:43		
conjunction	9634 Mar 01 22:34	14° <b>)</b> €27'05	0°12'24		9639 Jul 31 04:32	0° <b>m</b>	
minimum elong	9634 Mar 01 22:35	14° <b>∺</b> 27'05	0°12'31	evening set	9639 Aug 05 07:47	1°Mp 14'26	
behind sun begin	9634 Mar 01 17:24	14° <b>) (</b> 24′18					
behind sun end	9634 Mar 02 03:46	14° <b>∺</b> 29'52		conjunction	9639 Aug 18 19:01	4° Mp31′06	-0°19'28
morning rise	9634 Mar 14 18:10	17° <b>) (</b> 13′03		minimum elong	9639 Aug 18 19:02	4° Mp 31'06	0°19'39
-	9634 May 21 15:44	$_{0}$ ° $\gamma$		max. Earth dist.	9639 Aug 20 09:20	4° m 54'27	5.91231 AU
retrograde	9634 Jul 13 19:36	4° <b>Ƴ</b> 03'11		morning rise	9639 Sep 01 08:34	7° Mp 48'56	
remograde	9634 Sep 06 06:53	30° <b>₽</b>		retrograde	9640 Jan 11 02:24	28° m 32'09	
omnosition	•		0001107	•		-	2.05020 ATT
opposition	9634 Sep 12 19:39	29° <b>H</b> 10'12		min. Earth dist.	9640 Mar 09 01:59	~	3.95030 AU
min. Earth dist.	9634 Sep 14 07:16	28° <b>)</b> 58'49	4.42539 AU	opposition	9640 Mar 10 11:00	23° Tp 28'45	-0~0/56
desc. node	9634 Sep 25 07:17	27° <b>)</b> ₹36′03		direct	9640 May 07 11:26	18° Mp 32′50	
direct	9634 Nov 14 08:17	24° <b>)</b> €09'21		asc. node	9640 May 22 01:30	18° <b>m</b> 54′52	
	9635 Jan 19 01:32	$0$ ° $\mathbf{\Upsilon}$			9640 Aug 05 20:59	0∘ <b>ত</b>	
evening set	9635 Mar 19 13:03	11° <b>Y</b> 45'31		evening set	9640 Sep 11 08:14	8° <b>≏</b> 16'56	
max. Earth dist.	9635 Mar 30 01:32	14° <b>Ƴ</b> 05'07	6.36126 AU	Č	1		
				conjunction	9640 Sep 24 23:27	11° <b>≏</b> 30'43	0°08'53
conjunction	9635 Apr 01 08:16	14° <b>Y</b> 35'31	0011127	minimum elong	9640 Sep 24 23:26	11° <b>⊆</b> 30'43	0°08'56
	•				•		0 08 30
minimum elong	9635 Apr 01 08:16	14° <b>Y</b> 35'30	0°11'31	behind sun begin	9640 Sep 24 16:17	11° <b>Ω</b> 26'30	
behind sun begin	9635 Apr 01 02:29	14° <b>Ƴ</b> 32'19		behind sun end	9640 Sep 25 06:35	11° <b>≏</b> 34'56	
behind sun end	9635 Apr 01 14:02	14° <b>Ƴ</b> 38'42		max. Earth dist.	9640 Sep 27 11:09		6.01082 AU
morning rise	9635 Apr 14 01:58	17° <b>Y</b> 25′05		morning rise	9640 Oct 08 16:10	14° <b>≙</b> 45′00	
	9635 Jun 16 23:05	$9^{\circ}$ 8			9640 Dec 22 05:52	0°M₊	
retrograde	9635 Aug 15 06:13	5° <b>8</b> 01'17		retrograde	9641 Feb 14 21:45	4° <b>ጤ</b> 31'18	
opposition	9635 Oct 15 01:28	0° <b>8</b> 08'09	-0°33'31		9641 Apr 11 11:57	30° <b>₽</b> Ω	
11	9635 Oct 16 02:50	30° <b>₹</b> Υ		min. Earth dist.	9641 Apr 13 21:56	29° <b>£</b> 40'24	4.08765 AU
min. Earth dist.	9635 Oct 16 17:26	29° <b>Υ</b> 55'19	4.28378 AU	opposition	9641 Apr 15 13:07	29° <b>£</b> 27'07	0°32'54
	9635 Dec 15 18:43	25° <b>Υ</b> 08'44	4.26376 AU	**	*		0 32 34
direct				direct	9641 Jun 13 06:56	24° <b>£</b> 28'56	
	9636 Feb 12 02:39	0° <b>8</b>			9641 Aug 13 05:03	0°M	
evening set	9636 Apr 19 08:20	13° <b>8</b> 28'19		evening set	9641 Oct 17 22:00	13°M24'28	
	9636 Apr 26 00:19	15° <b>8</b>			9641 Oct 24 21:57	15° <b>™</b>	
max. Earth dist.	9636 Apr 29 21:47	15° <b>8</b> 53'49	6.19886 AU				
				conjunction	9641 Oct 31 12:22	16° <b>™</b> 30′24	0°32'43
conjunction	9636 May 02 03:18	16° <b>8</b> 24'41	-0°32'53	minimum elong	9641 Oct 31 12:20	16°M30'23	0°32'58
minimum elong	9636 May 02 03:16	16° <b>8</b> 24'40	0°33'08	max. Earth dist.	9641 Nov 02 19:41	17° <b>M</b> 01'58	6.17337 AU
morning rise	9636 May 14 22:08	19° <b>8</b> 21'16		morning rise	9641 Nov 14 03:06	19°M36'07	
morning rise	9636 Jul 03 18:16	0°II		morning 1150	9642 Jan 02 13:01	0° <b>√</b>	
. 1							
retrograde	9636 Sep 18 08:37	8° <b>Ⅱ</b> 07'19	1000116	retrograde	9642 Mar 19 23:51	8° <b>₹</b> 06'55	4.0.5000 4.77
opposition	9636 Nov 17 17:00	3° <b>Ⅱ</b> 12'46		min. Earth dist.	9642 May 17 19:05		4.25900 AU
min. Earth dist.	9636 Nov 19 01:02		4.11173 AU	opposition	9642 May 19 01:29	3° <b>₹</b> 04'28	0°59'27
	9636 Dec 14 15:04	30° <b>₹8</b>			9642 Jun 12 22:45	30°RM₊	
direct	9637 Jan 17 04:02	28° <b>8</b> 15'26		direct	9642 Jul 18 02:34	28° <b>™</b> 04'20	
	9637 Feb 19 10:06	$\Pi$ $^{\circ}0$			9642 Aug 22 14:36	0° <b>∡</b> 7	
evening set	9637 May 23 05:19	17° <b>Ⅲ</b> 27'48		evening set	9642 Nov 21 05:27	16° <b>₹</b> 09'05	
max. Earth dist.	9637 Jun 03 18:44	20° <b>Ⅱ</b> 13'06	6.03200 AU	-			
				conjunction	9642 Dec 04 16:04	19° <b>√</b> 06'17	0°44'37
conjunction	9637 Jun 05 03:32	20° <b>∏</b> 32'42	0°44'37	minimum elong	9642 Dec 04 16:03	19° <b>∡</b> 06'17	0°44'58
	9637 Jun 05 03:31	20° <b>II</b> 32'42		max. Earth dist.	9642 Dec 06 03:50	19° <b>x</b> '0617	6.33953 AU
minimum elong			0 44 38				0.33933 AU
morning rise	9637 Jun 18 02:38	23° <b>Ⅲ</b> 38′26		morning rise	9642 Dec 18 01:27	22°\$\square 02'40	
	9637 Jul 15 14:11	0ಂ <b>ತಾ</b>			9643 Jan 25 08:38	0°ಕ	
retrograde	9637 Oct 25 23:48	13° <b>©</b> 39'44		retrograde	9643 Apr 19 21:42	9° <b>る</b> 28'13	
opposition	9637 Dec 24 19:10	8°5642'45	-1°07'18	opposition	9643 Jun 19 10:04	4° <b>る</b> 28'59	1°06'13
min. Earth dist.	9637 Dec 25 06:54	8° <b>©</b> 38'52	3.96551 AU	min. Earth dist.	9643 Jun 18 19:33	4° <b>る</b> 33'45	4.40718 AU
direct	9638 Feb 21 20:06	3°547'32			9643 Aug 01 02:59	30°R <i>≯</i>	
evening set	9638 Jun 28 10:39	23°5643'31		direct	9643 Aug 19 16:57	29° <b>х</b> 27'47	
<i>3</i>					9643 Sep 07 12:39	0°ප	
conjunction	9638 Jul 11 14:50	26°956'25	-0°40'12	evening set	9643 Dec 23 09:43	00 16° <b>る</b> 54'51	
minimum elong				evening set	7073 DOC 43 07.43	10 03431	
	0638 [51 11 14.51	760025417/	0.040,33				
max. Earth dist.	9638 Jul 11 14:51 9638 Jul 11 15:28	26°956'26	0°40'32 5.92066 AU	conjunction	9644 Jan 05 15:09	19° <b>る</b> 45'16	0042102

minimum elong	9644 Jan 05 15:10	19° <b>ප</b> 45'16	0°43'22	evening set	9649 May 28 03:48	22° <b>Ⅲ</b> 32'50	
max. Earth dist.	9644 Jan 05 20:21	19° <b>る</b> 48'03	6.45903 AU	max. Earth dist.	9649 Jun 08 21:05	25° <b>Ⅱ</b> 21'04	6.01639 AU
morning rise	9644 Jan 18 18:52	22° <b>る</b> 34'40					
	9644 Feb 24 04:40	0° <b>≈</b>		conjunction	9649 Jun 10 02:26	25° <b>Ⅱ</b> 38'40	-0°45'04
retrograde	9644 May 18 17:49	9° <b>≈</b> 19'57		minimum elong	9649 Jun 10 02:26	25° <b>∏</b> 38'40	0°45'25
opposition	9644 Jul 18 13:06	4°≈23'55	0°54'48	morning rise	9649 Jun 23 02:29	28° <b>Ⅱ</b> 45'29	
min. Earth dist.	9644 Jul 18 19:23	4° <b>≈</b> 21'53	4.49117 AU		9649 Jun 28 07:53	$0$ $\circ$ $\odot$	
	9644 Aug 29 09:08	30°Rる		retrograde	9649 Oct 31 06:52	18° <b>©</b> 53'47	
direct	9644 Sep 18 20:03	29° <b>る</b> 22'19		opposition	9649 Dec 30 02:00	13° <b>©</b> 56'17	
	9644 Oct 09 09:36	0° <b>≈</b>		min. Earth dist.	9649 Dec 30 09:27	13° <b>©</b> 53'49	3.95588 AU
	9645 Jan 14 20:39	15° <b>≈</b>		direct	9650 Feb 26 23:20	9° <b>©</b> 01'12	
evening set	9645 Jan 22 02:46	16°≈31'54	C 50170 ATT	evening set	9650 Jul 03 14:09	28° <b>©</b> 59'01	
max. Earth dist.	9645 Feb 03 04:47	19° <b>≈</b> 06'40	6.50179 AU		9650 Jul 07 18:26	$0^{\circ}\Omega$	
conjunction	9645 Feb 04 03:34	19° <b>≈</b> 18'51	0°29'58	conjunction	9650 Jul 16 19:21	2° <b>Ω</b> 12'28	-0°38'12
minimum elong	9645 Feb 04 03:35	19° <b>≈</b> 18'52	0°30'14	minimum elong	9650 Jul 16 19:22	2° <b>Ω</b> 12′29	0°38'30
morning rise	9645 Feb 17 02:11	22° <b>≈</b> 04'48		max. Earth dist.	9650 Jul 17 02:30	2° <b>Ω</b> 16′50	5.91812 AU
	9645 Mar 28 07:48	0° <b>)</b> €		morning rise	9650 Jul 30 02:40	5° <b>Ω</b> 27'14	
retrograde	9645 Jun 17 10:47	8° <b>)</b> 39′46			9650 Sep 09 10:44	15° <b>Ω</b>	
opposition	9645 Aug 17 11:18	3° <b>)</b> 45′56	0°29'33	retrograde	9650 Dec 09 04:17	26° <b>Ω</b> 17'14	
min. Earth dist.	9645 Aug 18 10:58	3° <b>)</b> 38′21	4.49121 AU	opposition	9651 Feb 06 14:21	21° <b>Ω</b> 16′21	-0°42'53
	9645 Sep 19 21:27	30° <b>₹</b> ≈		min. Earth dist.	9651 Feb 05 21:43	21° <b>Ω</b> 21'57	3.90724 AU
direct	9645 Oct 19 02:58	28° <b>≈</b> 44'32		direct	9651 Apr 05 15:28	16° <b>Ω</b> 21'41	
	9645 Nov 17 13:58	0° <b>∀</b>			9651 Jul 14 01:59	0° <b>m</b>	
evening set	9646 Feb 21 07:08	15° <b>∺</b> 59'10		evening set	9651 Aug 10 12:09	6° Mp 27′25	
max. Earth dist.	9646 Mar 04 08:07	18° <b>∺</b> 22′20	6.45885 AU				
				conjunction	9651 Aug 24 00:03	9° <b>m</b> 43'50	
conjunction	9646 Mar 06 04:15	18° <b>)</b> 46′16	0°09'08	minimum elong	9651 Aug 24 00:04	9° m 43'50	0°15'56
minimum elong	9646 Mar 06 04:15	18° <b>)</b> (46′16	0°09'13	behind sun begin	9651 Aug 23 23:31	9° m 43'30	
behind sun begin	9646 Mar 05 21:30	18° <b>)</b> (42′38		behind sun end	9651 Aug 24 00:36	9° Mp 44'10	5.02207.444
behind sun end	9646 Mar 06 10:59	18° <b>)</b> 49'54 21° <b>)</b> 32'35		max. Earth dist.	9651 Aug 25 18:06	10° Mp 09'21	5.92397 AU
morning rise	9646 Mar 18 23:20	21°π32'33 0°Υ		morning rise	9651 Sep 06 14:18	13° <b>™</b> 01'22 0° <b>≏</b>	
retrograde	9646 Apr 29 10:53 9646 Jul 18 06:09	8° <b>Υ</b> 27'57		retrograde	9651 Nov 28 17:08 9652 Jan 16 01:22	0 <b>==</b> 3° <b>£</b> 37'43	
desc. node	9646 Aug 05 02:02	7° <b>Υ</b> 58'28		retrograde	9652 Mar 04 18:58	30°RM)	
opposition	9646 Sep 17 05:49	3° <b>Υ</b> 35'04	-0°03'53	min. Earth dist.	9652 Mar 14 00:12	28° Mp 45'58	3.96748 AU
min. Earth dist.	9646 Sep 18 18:38	3° <b>Υ</b> 23'19	4.40782 AU	opposition	9652 Mar 15 11:04	28° m/34'07	
min. Eurin Gibt.	9646 Oct 18 14:37	30°R <b>)</b> €	0702110	asc. node	9652 Apr 03 04:46	26° Mp 08'23	0 02 03
direct	9646 Nov 18 16:38	28° <b>)</b> 34'28		direct	9652 May 12 12:15	23° m 37'56	
	9646 Dec 19 19:35	$0^{\circ}\Upsilon$			9652 Jul 16 06:50	0∘ <b>⊽</b>	
evening set	9647 Mar 23 22:41	16° <b>Y</b> 16′05		evening set	9652 Sep 16 08:53	13° <b>≏</b> 15'33	
max. Earth dist.	9647 Apr 03 09:29	18° <b>Y</b> 35'30	6.34040 AU		•		
	·			conjunction	9652 Sep 30 00:05	16° <b>≏</b> 28'22	0°12'35
conjunction	9647 Apr 05 17:35	19° <b>Ƴ</b> 06'48	-0°14'48	minimum elong	9652 Sep 30 00:04	16° <b>≏</b> 28'21	0°12'40
minimum elong	9647 Apr 05 17:35	19° <b>Y</b> 06'48	0°14'53	behind sun begin	9652 Sep 29 18:51	16° <b>≏</b> 25'18	
behind sun begin	9647 Apr 05 14:21	19° <b>Y</b> 05'00		behind sun end	9652 Sep 30 05:17	16° <b>≏</b> 31'25	
behind sun end	9647 Apr 05 20:48	19° <b>Ƴ</b> 08'35		max. Earth dist.	9652 Oct 02 10:22	17° <b>≏</b> 02'45	6.03163 AU
morning rise	9647 Apr 18 11:27	21° <b>Y</b> 57'14		morning rise	9652 Oct 13 16:52	19° <b>≏</b> 41'38	
	9647 May 26 11:15	0°8			9652 Nov 29 16:38	0° <b>M</b>	
retrograde	9647 Aug 20 01:39	9° <b>8</b> 42'04		retrograde	9653 Feb 19 11:42	9°M17'56	
opposition	9647 Oct 19 19:19	4° <b>8</b> 48'46		min. Earth dist.	9653 Apr 18 14:53	4°M26'39	4.10988 AU
min. Earth dist.	9647 Oct 21 10:29		4.26116 AU	opposition	9653 Apr 20 04:34	4°M13'53	0°37'32
Ľ .	9647 Dec 09 21:44	30°RΥ 200 <b>0</b> (40)20		T'	9653 May 27 23:23	30° <b>₹</b> Ω	
direct	9647 Dec 20 09:25	29° <b>Ƴ</b> 49'38		direct	9653 Jun 18 02:44	29° <b>≙</b> 15′23 0° <b>M</b>	
	9647 Dec 30 21:29 9648 Apr 09 13:44	0° <b>と</b> 15° <b>と</b>			9653 Jul 09 10:08 9653 Oct 08 22:21	บาแน 15°M	
evening set	9648 Apr 23 23:42	18° <b>8</b> 15'54		evening set	9653 Oct 22 15:54	18°ML04'13	
max. Earth dist.	9648 May 04 17:04	20° <b>8</b> 44'21	6.17658 AU	evening set	7000 OCC 22 10.04	10 1100 13	
max. Zurur uist.	7010 may 07 17.07	20 0-17-21	3.17330 110	conjunction	9653 Nov 05 06:05	21°M09'04	0°35'06
conjunction	9648 May 06 19:02	21° <b>8</b> 13'17	-0°35'19	minimum elong	9653 Nov 05 06:04	21°M09'04	0°35'21
minimum elong	9648 May 06 19:01	21° <b>8</b> 13'17		max. Earth dist.	9653 Nov 07 12:06	21°M39'43	6.19529 AU
morning rise	9648 May 19 14:05	24° <b>8</b> 10'57	<del></del>	morning rise	9653 Nov 18 20:07	24°M13'33	
<i>3</i>	9648 Jun 14 11:32	0°II		<i>5</i>	9653 Dec 15 05:39	0° <b>∡</b> 7	
retrograde	9648 Sep 23 11:33	13° <b>Ⅱ</b> 06'42		retrograde	9654 Mar 24 06:57	12° <b>₹</b> 35'21	
opposition	9648 Nov 22 18:47	8° <b>Ⅱ</b> 11'53	-1°02'42	min. Earth dist.	9654 May 22 04:59	7° <b>∡</b> ¹42'57	4.27884 AU
min. Earth dist.	9648 Nov 24 00:15	8° <b>Ⅲ</b> 02'17	4.09188 AU	opposition	9654 May 23 09:39	7° <b>∡</b> ³33′23	1°01'32
direct	9649 Jan 22 01:10	3° <b>Ⅱ</b> 14'55		direct	9654 Jul 22 14:13	2° <b>х</b> 33′08	

page 6

9666 May 27 20:37

opposition

12°**₹**09'57 1°03'17

9660 May 28 17:47

 $\mathbb{I}^{\circ 0}$ 

page 7

9672 May 03 00:52

evening set

27°**8**35'58

conjunction	9677 Nov 15 00:26	0° <b>∡</b> 745'23	0°39'16	opposition	9683 Nov 02 21:15	18° <b>8</b> 40'20	-0°49'58
minimum elong	9677 Nov 15 00:25	0° × 45'23	0°39'34	min. Earth dist.	9683 Nov 04 11:28	18° <b>8</b> 27'59	
max. Earth dist.	9677 Nov 17 02:06	1°×13'18	6.24042 AU	mm. Lattii dist.	9683 Dec 04 22:33	15°RB	4.17200710
morning rise	9677 Nov 28 13:12	3° <b>×</b> <sup>7</sup> 47'20	0.24042 710	direct	9684 Jan 03 00:25	13° <b>8</b> 41'54	
retrograde	9678 Apr 02 03:35	21° <b>×</b> <sup>7</sup> 50'12		direct	9684 Jan 31 22:13	15° <b>8</b>	
min. Earth dist.	9678 May 31 07:50	16° 🖈 50 12	4.32256 AU		9684 Apr 27 00:05	0°II	
opposition	9678 Jun 01 08:40	16° <b>×</b> <sup>7</sup> 49'01	1°04'36	evening set	9684 May 07 18:25	2° <b>II</b> 29'13	
direct	9678 Jul 31 22:38	11° <b>х</b> 49'01	1 0430	max. Earth dist.	9684 May 18 17:07	5° <b>∏</b> 03'11	6.10620 AU
evening set	9678 Dec 04 21:15	29°× <b>7</b> 36'14		max. Bartii dist.	7001 May 10 17.07	3 1203 11	0.10020710
evening sec	9678 Dec 06 17:08	0° <b>ਰ</b>		conjunction	9684 May 20 14:41	5° <b>Ⅱ</b> 30'00	-0°40'59
	7070 Dec 00 17.00	<b>0 0</b>		minimum elong	9684 May 20 14:41	5° <b>∏</b> 29'59	
conjunction	9678 Dec 18 05:44	2° <b>ප</b> 30'22	0°45'28	morning rise	9684 Jun 02 11:26	8° <b>П</b> 31'22	0 41 17
minimum elong	9678 Dec 18 05:44	2°る30'22	0°45'49	retrograde	9684 Oct 08 19:18	27° <b>I</b> 59'01	
max. Earth dist.	9678 Dec 19 05:56	2°る43'32	6.39490 AU	opposition	9684 Dec 07 21:18	23° <b>I</b> I03'14	-1°07'09
morning rise	9678 Dec 31 12:53	5°පි23'36	0.57470 AC	min. Earth dist.	9684 Dec 08 19:28	22° <b>I</b> 55'58	4.02526 AU
retrograde	9679 May 02 10:54	22° <b>る</b> 29'28		direct	9685 Feb 05 12:39	18° <b>I</b> 107'03	4.02320710
opposition	9679 Jul 02 02:38	17° <b>る</b> 31'35	1°03'21	direct	9685 May 09 09:45	0°9	
min. Earth dist.	9679 Jul 01 19:50	17 <b>さ</b> 3133	4.45097 AU	evening set	9685 Jun 11 22:25	7° <b>9</b> 45'53	
direct	9679 Sep 01 20:34	17 33348 12° <b>3</b> 30'08	4.43097 AU	evening set	9003 Juli 11 22.23	1 2043 33	
evening set	9680 Jan 05 08:37	12 <b>33</b> 008 29° <b>る</b> 47'06		conjunction	9685 Jun 24 23:36	10° <b>©</b> 55'28	0044!10
evening set	9680 Jan 06 08:52	29° <b>≈</b>		minimum elong	9685 Jun 24 23:37	10 \$33.28 10°\$55'29	0°44'40
	9080 Jan 00 08.32	0 ≈		•		10 \$33 29 10°\$45'30	5.95992 AU
:	0600 I 10 12:07	2925126	0020144	max. Earth dist.	9685 Jun 24 07:11 9685 Jul 08 02:33		3.93992 AU
conjunction	9680 Jan 18 12:07 9680 Jan 18 12:08	2°≈35'36	0°38'44 0°39'03	morning rise		14°506'14	
minimum elong		2°≈35'37			9685 Sep 21 20:27	0° <b>Ω</b> 4° <b>Ω</b> 40'05	
max. Earth dist.	9680 Jan 18 07:13	2°≈32'59	6.48838 AU	retrograde	9685 Nov 16 09:55		
morning rise	9680 Jan 31 13:26	5°≈23'02		• • •	9686 Jan 12 15:24	30°R≌	005012.1
	9680 Mar 20 06:40	15° <b>≈</b>		opposition	9686 Jan 14 23:25	29°541'17	
retrograde	9680 May 31 01:00	21°≈59'38	0045125	min. Earth dist.	9686 Jan 14 21:30	29°541'56	3.91590 AU
opposition	9680 Jul 31 00:01	17°≈04'39	0°45'35	direct	9686 Mar 14 09:50	24°5946'36	
min. Earth dist.	9680 Jul 31 13:00	17°≈00'28	4.50470 AU		9686 May 11 00:41	0°N	
	9680 Aug 16 15:59	15°R≈		evening set	9686 Jul 19 05:40	14° <b>£</b> 55'33	
direct	9680 Oct 01 12:27	12°≈03'06			9686 Jul 19 12:58	15° <b>Ω</b>	
	9680 Nov 16 10:43	15° <b>≈</b>			0606 4 01 14 01	100 0 1 1107	0020110
evening set	9681 Feb 03 16:53	29°≈10'49		conjunction	9686 Aug 01 14:01	18° <b>Ω</b> 11'27	
T d F d	9681 Feb 07 13:08	0° <b>∀</b>	C 40040 ATT	minimum elong	9686 Aug 01 14:03	18° <b>Ω</b> 11'28	0°30'34
max. Earth dist.	9681 Feb 15 06:50	1° <b>∺</b> 39'29	6.49848 AU	max. Earth dist.	9686 Aug 02 12:47	18° <b>£</b> 25′24	5.89903 AU
	0601 E 1 16 15 40	10)/(57111	0001157	morning rise	9686 Aug 15 00:40	21° <b>£</b> 28'39	
conjunction	9681 Feb 16 15:49	1° <b>)</b> 57'11	0°21'57	. 1	9686 Sep 20 13:15	0°M)	
minimum elong	9681 Feb 16 15:50	1° <b>)</b> 57'11	0°22'09	retrograde	9686 Dec 25 06:20	12° Mp 23'32	0026156
morning rise	9681 Mar 01 12:49	4° <b>)</b> (42'40		opposition	9687 Feb 22 13:57	7° Mp 21'21	
retrograde	9681 Jun 30 01:28	21° <b>∺</b> 20'51 16° <b>∺</b> 27'31	0017115	min. Earth dist.	9687 Feb 21 12:03		3.91188 AU
opposition	9681 Aug 30 02:30		0°16'15	direct	9687 Apr 21 11:09	2° Mp 26'17	
min. Earth dist.	9681 Aug 31 08:53	16° <b>升</b> 17'49	4.47115 AU	evening set	9687 Aug 26 11:12	22° Mp 27'12	
direct	9681 Oct 31 19:34	11° <b>H</b> 26'18			0.07.0 00 01 07	250m-42115	0002157
evening set	9682 Mar 05 21:15	28° <b>)</b> 47'43		conjunction	9687 Sep 09 01:07	25° m 43'15	
desc. node	9682 Mar 05 22:34	28° <b>)</b> 48'26		minimum elong	9687 Sep 09 01:06	25° m 43'15	0°04′01
T d F d	9682 Mar 11 10:08	0° <b>Υ</b>	6.42302 AU	behind sun begin	9687 Sep 08 16:50	25° m 38'17	
max. Earth dist.	9682 Mar 16 14:36	1 10/39	0.42302 AU	behind sun end	9687 Sep 09 09:22	25° Mp 48'12	5 05162 AII
aoniumatian	0692 Mar. 10 17:15	100025141	0000147	max. Earth dist.	9687 Sep 11 05:12		5.95163 AU
conjunction	9682 Mar 18 17:15	1° <b>Υ</b> 35'41		morning rise	9687 Sep 22 17:15	29° Mp 00'11	
minimum elong	9682 Mar 18 17:15	1° <b>Υ</b> 35'42 1° <b>Υ</b> 31'21	0-0046	000 m - J -	9687 Sep 26 21:46	% <b>ひ</b> ววเวว	
behind sun begin	9682 Mar 18 09:16			asc. node	9687 Nov 03 02:56	8° <b>£</b> 23'33	
behind sun end	9682 Mar 19 01:14	1° <b>Υ</b> 40'02 4° <b>Υ</b> 23'03		retrograde	9688 Jan 31 06:36	19° <b>£</b> 17'55	4.01.470 ATT
morning rise	9682 Mar 31 11:28			min. Earth dist.	9688 Mar 29 03:51	14° <b>£</b> 26'57	4.01470 AU
retrograde	9682 Jul 31 10:58	21° <b>Υ</b> 33'45	001.012.4	opposition	9688 Mar 30 18:47	14° <b>£</b> 13'43	0°15'45
opposition	9682 Sep 30 10:23	16° <b>Y</b> 40'45		direct	9688 May 28 02:02	9° <b>£</b> 16'34	
min. Earth dist.	9682 Oct 02 01:21		4.35787 AU	evening set	9688 Oct 01 21:30	28° <b>£</b> 36'34	
direct	9682 Dec 01 14:42	11° <b>Υ</b> 40'33			9688 Oct 07 21:32	0° <b>M</b> ₊	
evening set	9683 Apr 05 22:36	29° <b>Ƴ</b> 37'15		aamin	0600 0-4 15 10 50	10 <b>m</b> 46122	0022114
may Feetle 11 4	9683 Apr 07 15:09	0° <b>8</b>	6 27052 411	conjunction	9688 Oct 15 12:52	1°M46'32	
max. Earth dist.	9683 Apr 16 09:15	1.038.30	6.27953 AU	minimum elong	9688 Oct 15 12:51	1°M46'31	0°23'24
a aminus -ti	0692 A 10 17 16	20 420112	0024102	max. Earth dist.	9688 Oct 18 01:20	2°M21'40	6.09363 AU
conjunction	9683 Apr 18 17:16	2° <b>8</b> 30'13		morning rise	9688 Oct 29 05:01	4°M56'33	
minimum elong	9683 Apr 18 17:15	2° <b>8</b> 30'12	0-24.13		9688 Dec 14 18:44	15°M	
morning rise	9683 May 01 11:09	5° <b>8</b> 23'06		retrograde	9689 Mar 05 15:45	24°M02'16	4 17002 111
notno a J-	9683 Jun 15 21:42	15° <b>8</b>		min. Earth dist.	9689 May 03 00:12	19°ML10'44	4.17983 AU
retrograde	9683 Sep 03 07:35	23° <b>8</b> 34'09		opposition	9689 May 04 11:49	18° <b>M</b> 58'44	0°49'54

	9689 Jun 07 23:59	15°RM		minimum elong	9695 Apr 23 05:15	7° <b>8</b> 08'31	0°27'00
direct	9689 Jul 02 22:53	13°M59'22		morning rise	9695 May 05 23:24	10° <b>8</b> 02'37	0 27 09
direct	9689 Jul 28 01:57	15°M		morning rise	9695 May 28 07:35	10 <b>8</b> 02 37	
	9689 Oct 26 05:05	13 llG 0° <b>√</b>		retrograde	9695 Sep 08 07:00	28° <b>8</b> 24'53	
		0 <b>x</b> . 2° <b>x</b> 26'26		•	9695 Nov 07 19:27		0952120
evening set	9689 Nov 06 06:45	2° <b>×</b> '20 20		opposition		23° <b>8</b> 30'55 23° <b>8</b> 19'21	
	0.000 N	50 707120	0040155	min. Earth dist.	9695 Nov 09 07:12	_	4.16581 AU
conjunction	9689 Nov 19 19:18	5° 🖈 27'29	0°40'55	direct	9696 Jan 07 16:11	18° <b>8</b> 32'53	
minimum elong	9689 Nov 19 19:17	5° 🖈 27'29	0°41'15		9696 Apr 09 09:07	0° <b>I</b>	
max. Earth dist.	9689 Nov 21 18:31	5° <b>₹</b> 53'52	6.26705 AU	evening set	9696 May 12 14:28	7° <b>Ⅱ</b> 28'44	
morning rise	9689 Dec 03 07:20	8° <b>₹</b> 27'58		max. Earth dist.	9696 May 23 17:37	10° <b>Ⅱ</b> 06'13	6.08098 AU
retrograde	9690 Apr 06 09:49	26° <b>≯</b> 20'31				_	
opposition	9690 Jun 05 17:42	21° <b>∡</b> 19'43	1°05'30	conjunction	9696 May 25 11:14	10° <b>Ⅲ</b> 30'51	
min. Earth dist.	9690 Jun 04 18:33	21° <b>х</b> 27'24	4.34647 AU	minimum elong	9696 May 25 11:13	10° <b>Ⅱ</b> 30'51	0°42'44
direct	9690 Aug 05 11:16	16° <b>⊀</b> 18'54		morning rise	9696 Jun 07 08:41	13° <b>Ⅱ</b> 33'39	
	9690 Nov 20 10:34	0°ಕ			9696 Aug 29 07:30	0	
evening set	9690 Dec 09 08:33	4° <b>る</b> 00'28		retrograde	9696 Oct 14 05:11	3° <b>©</b> 12'40	
					9696 Nov 29 18:43	30°R <b>Ⅱ</b>	
conjunction	9690 Dec 22 16:19	6° <b>ප</b> 53'31	0°45'12	opposition	9696 Dec 13 04:41	28° <b>Ⅱ</b> 16'32	-1°07'41
minimum elong	9690 Dec 22 16:19	6° <b>ප</b> 53'31	0°45'35	min. Earth dist.	9696 Dec 14 00:03	28° <b>Ⅲ</b> 10′10	4.00425 AU
max. Earth dist.	9690 Dec 23 12:08	7° <b>る</b> 04'16	6.41436 AU	direct	9697 Feb 10 16:03	23° <b>Ⅲ</b> 20'41	
morning rise	9691 Jan 04 22:31	9° <b>ට</b> 45'37			9697 Apr 18 06:57	$0$ $\circ$ $\odot$	
retrograde	9691 May 06 14:22	26° <b>පි</b> 45'06		evening set	9697 Jun 17 02:51	13° <b>©</b> 05'43	
opposition	9691 Jul 06 06:42	21° <b>る</b> 47'42	1°01'42				
min. Earth dist.	9691 Jul 06 03:25	21° <b>る</b> 48'47	4.46473 AU	conjunction	9697 Jun 30 05:04	16° <b>©</b> 16'28	-0°43'19
direct	9691 Sep 06 04:34	16° <b>පි</b> 46'13		minimum elong	9697 Jun 30 05:04	16° <b>©</b> 16'28	0°43'41
	9691 Dec 21 09:20	0° <b>≈</b>		max. Earth dist.	9697 Jun 29 18:52	16°9510'16	5.94536 AU
evening set	9692 Jan 09 14:28	4°≈00'15		morning rise	9697 Jul 13 09:01	19° <b>©</b> 28'23	
evening sec	, o, 2 tun o, 1 2 o			morning rise	9697 Aug 28 13:35	0°N	
conjunction	9692 Jan 22 17:13	6° <b>≈</b> 48'13	0°36'53	retrograde	9697 Nov 21 23:25	10° <b>Ω</b> 08'10	
minimum elong	9692 Jan 22 17:14	6°≈48'14	0°37'11	opposition	9698 Jan 20 10:58	5°Ω08'56	-0°56'08
max. Earth dist.	9692 Jan 22 06:38	6°≈42'34	6.49538 AU	min. Earth dist.	9698 Jan 20 05:01	5° <b>Ω</b> 10'55	3.90973 AU
morning rise	9692 Feb 04 18:00	9°≈35'11	0.47330 AC	direct	9698 Mar 19 17:53	0° <b>Ω</b> 14'21	3.70713 AO
morning rise	9692 Mar 01 23:11	9 ≈33 11 15°≈		direct	9698 Jul 01 23:44	0 <b>%</b> 1421 15° <b>Ω</b>	
						20° <b>Ω</b> 23'56	
retrograde	9692 Jun 04 04:04	26°≈10'13	0942102	evening set	9698 Jul 24 15:11	20 8623 30	
opposition	9692 Aug 04 03:11	21°≈15'32	0°42'02		0000 4 07 00-17	229 0 40100	0927104
min. Earth dist.	9692 Aug 04 19:19	21°≈10′21	4.50472 AU	conjunction	9698 Aug 07 00:17	23° <b>Ω</b> 40′08	
direct	9692 Oct 05 16:36	16°≈13'58		minimum elong	9698 Aug 07 00:19	23° <b>Ω</b> 40'08	
	9693 Jan 22 18:43	0° <b>∀</b>		max. Earth dist.	9698 Aug 08 03:04	23° <b>Ω</b> 56'30	5.90158 AU
evening set	9693 Feb 07 20:42	3° <b>)</b> €22'34	C 40150 177	morning rise	9698 Aug 20 12:02	26° <b>Ω</b> 57'39	
max. Earth dist.	9693 Feb 19 08:11	5° <b>∺</b> 50'08	6.49150 AU		9698 Sep 02 03:24	0° m/y	
				retrograde	9698 Dec 30 13:16	17° <b>m</b> 49'34	
conjunction	9693 Feb 20 19:20	6° <b>₩</b> 09'02	0°19'01	opposition	9699 Feb 27 22:31	12° Mp 46'57	
minimum elong	9693 Feb 20 19:21	6° <b>₩</b> 09'03	0°19'12	min. Earth dist.	9699 Feb 26 17:18		3.92279 AU
morning rise	9693 Mar 05 15:44	8° <b>)</b> 54'35		direct	9699 Apr 26 19:42	7° <b>m</b> 51'39	
retrograde	9693 Jul 04 07:05	25° <b>∺</b> 36′07		evening set	9699 Aug 31 19:18	27° <b>m</b> y 47'27	
opposition	9693 Sep 03 08:39	20° <b>)</b> 42′59	0°11'34		9699 Sep 10 00:56	0∘ <b>ত</b>	
min. Earth dist.	9693 Sep 04 16:27	20° <b>)</b> 32'49	4.45763 AU	asc. node	9699 Sep 11 19:07	0° <b>ჲ</b> 25'18	
direct	9693 Nov 04 23:54	15° <b>∺</b> 41'55					
desc. node	9694 Jan 13 05:27	22° <b>)</b> €04'09		conjunction	9699 Sep 14 09:44	1° <b>≏</b> 02'51	0°00'11
	9694 Feb 23 13:27	$0$ ° $\mathbf{\gamma}$		minimum elong	9699 Sep 14 09:44	1° <b>≏</b> 02'50	0°00'11
evening set	9694 Mar 10 03:29	3° <b>Ƴ</b> 07'55		behind sun begin	9699 Sep 14 01:25	0° <b>≙</b> 57'53	
max. Earth dist.	9694 Mar 20 18:04	5° <b>Y</b> 27′20	6.40383 AU	behind sun end	9699 Sep 14 18:03	1° <b>≏</b> 07'48	
				max. Earth dist.	9699 Sep 16 16:42	1° <b>≏</b> 35'48	5.96965 AU
conjunction	9694 Mar 22 23:04	5° <b>Y</b> 56′29	-0°04'11	morning rise	9699 Sep 28 02:01	4° <b>£</b> 18'58	
minimum elong	9694 Mar 22 23:04	5° <b>Y</b> 56′29	0°04'12	retrograde	9700 Feb 05 06:55	24° <b>£</b> 27'03	
behind sun begin	9694 Mar 22 15:13	5° <b>Y</b> 52'11		min. Earth dist.	9700 Apr 04 04:53	19° <b>≙</b> 35'49	4.03749 AU
behind sun end	9694 Mar 23 06:55	6° <b>Ƴ</b> 00'46		opposition	9700 Apr 05 19:15	19° <b>≙</b> 22'46	0°21'25
morning rise	9694 Apr 04 17:14	8° <b>Y</b> 44'33		direct	9700 Jun 03 06:51	14° <b>£</b> 25'18	
retrograde	9694 Aug 05 02:36	26° <b>Ƴ</b> 03'09			9700 Sep 22 00:34	0° <b>M</b>	
opposition	9694 Oct 04 23:23	21° <b>Υ</b> 10'11	-0°23'14	evening set	9700 Oct 07 23:17	3°M37'20	
min. Earth dist.	9694 Oct 06 15:50	20° <b>Υ</b> 57'13	4.33409 AU	Ü		. •	
direct	9694 Dec 06 01:22	16° <b>Ƴ</b> 10'11		conjunction	9700 Oct 21 14:26	6°M46'02	0°26'26
	9695 Mar 22 06:07	0°8		minimum elong	9700 Oct 21 14:25	6°M46'01	0°26'38
evening set	9695 Apr 10 10:24	4° <b>8</b> 14'26		max. Earth dist.	9700 Oct 24 02:39	7° <b>M</b> 20'48	6.11895 AU
max. Earth dist.	9695 Apr 20 21:24		6.25307 AU	morning rise	9700 Nov 04 06:10	9°M54'41	
Zurur uist.	. 0.0 прт 20 21.23	U 030 44	3.2030, 110		9700 Nov 27 00:02	15°M	
conjunction	9695 Apr 23 05:16	7° <b>8</b> 08'32	-0°26'58	retrograde	9700 Nov 27 00:02 9701 Mar 11 04:05	28°M49'04	
2011,411,41011	. 0.00 . ipi 25 05.10	, 000 32	3 20 30	1011001440	,, o. 1.1ui 11 04.0J	_ UV 17 UT	

min. Earth dist. opposition direct	9701 May 08 15:38 9701 May 10 02:40 9701 Jul 08 16:50 9701 Oct 09 18:02	23°M.57'38 23°M.45'51 18°M.46'15 0°×7	4.20536 AU 0°53'16	opposition min. Earth dist. direct	9706 Oct 10 14:45 9706 Oct 12 06:25 9706 Dec 11 12:09 9707 Mar 05 03:25	25°Y45'01 25°Y32'18 20°Y45'20 0°8	-0°28'05 4.31167 AU
evening set	9701 Nov 12 00:27	7° <b>∡</b> ¹05'57		evening set max. Earth dist.	9707 Apr 16 00:11 9707 Apr 26 12:24	8° <b>8</b> 56'23 11° <b>8</b> 20'11	6.22959 AU
conjunction minimum elong max. Earth dist. morning rise	9701 Nov 25 12:19 9701 Nov 25 12:18 9701 Nov 27 06:45 9701 Dec 08 23:36	10° × 05'43 10° × 05'43 10° × 29'19 13° × 04'52	0°42'20 0°42'39 6.29077 AU	conjunction minimum elong morning rise	9707 Apr 28 18:58 9707 Apr 28 18:57 9707 May 11 13:26	11° <b>8</b> 51'26 11° <b>8</b> 51'25 14° <b>8</b> 46'35	
retrograde	9702 Mar 20 01:48 9702 Apr 11 17:13 9702 May 04 03:37	0°る 0°る48'28 30°Ŗ♂		retrograde	9707 May 12 13:01 9707 Jul 29 05:32 9707 Sep 14 09:00	15° <b>В</b> 0°П 3°П18'59	
min. Earth dist.	9702 Jun 10 06:05	25° <b>∡</b> 754'36	4.36661 AU		9707 Nov 01 07:33	30° <b>₹</b> 8	
opposition direct	9702 Jun 11 01:37 9702 Aug 11 00:30	25° <b>х</b> 48'08 20° <b>х</b> 47'09	1°06'03	opposition min. Earth dist.	9707 Nov 13 19:21 9707 Nov 15 05:28	28° <b>8</b> 24'46 28° <b>8</b> 13'41	-0°56'46 4.14321 AU
direct	9702 Nov 03 14:36	20 メ 47 09 0° <b>る</b>		direct	9707 Nov 13 03:28 9708 Jan 13 12:35	23° <b>8</b> 27'03	4.14321 AU
evening set	9702 Dec 14 19:01	8° <b>る</b> 23'45			9708 Mar 20 20:28	$\Pi^{\circ}$	
	0702 D 20 02 00	110715157	004444	evening set	9708 May 18 11:18	12° <b>Ⅱ</b> 29'33	C 0 C 1 4 0 A T I
conjunction minimum elong	9702 Dec 28 02:09 9702 Dec 28 02:10	11°る15'57 11°る15'57	0°44'43 0°45'05	max. Earth dist.	9708 May 29 19:34	15° <b>Ⅱ</b> 10'44	6.06148 AU
max. Earth dist.	9702 Dec 28 17:57	11°る24'29	6.42946 AU	conjunction	9708 May 31 08:40	15° <b>Ⅱ</b> 32'46	-0°43'33
morning rise	9703 Jan 10 07:34	14° <b>පි</b> 07'10		minimum elong	9708 May 31 08:40	15° <b>Ⅱ</b> 32'45	0°43'53
	9703 Apr 15 21:00	0° <b>≈</b>		morning rise	9708 Jun 13 06:43	18° <b>Ⅲ</b> 36'42	
retrograde	9703 May 11 16:41	1°≈01'46 30°Rる			9708 Aug 04 03:43	0°© 8°©24'23	
opposition	9703 Jun 06 10:15 9703 Jul 11 10:58	30°なる 26° <b>る</b> 04'45	0°59'45	retrograde opposition	9708 Oct 20 12:55 9708 Dec 19 11:14	3°924'23	-1°07'42
min. Earth dist.	9703 Jul 11 09:56	26°පි05'05	4.47411 AU	min. Earth dist.	9708 Dec 20 02:52	3°522'44	3.99008 AU
direct	9703 Sep 11 10:34	21° <b>පි</b> 03'12			9709 Jan 17 16:36	30° <b>Ŗ</b> Ⅱ	
	9703 Dec 04 17:45	0° <b>≈</b>		direct	9709 Feb 16 18:01	28° <b>Ⅱ</b> 32'21	
evening set	9704 Jan 14 20:45	8° <b>≈</b> 15'33		evening set	9709 Mar 18 14:46 9709 Jun 23 06:02	0°© 18°©20'53	
conjunction	9704 Jan 27 22:55	11° <b>≈</b> 03'10	0°34'50	evening set	7707 Juni 25 00.02	10 32033	
minimum elong	9704 Jan 27 22:56	11° <b>≈</b> 03'10	0°35'07	conjunction	9709 Jul 06 08:55	21°532'20	-0°42'02
max. Earth dist.	9704 Jan 27 08:56	10° <b>≈</b> 55'41	6.49844 AU	minimum elong	9709 Jul 06 08:56	21° <b>©</b> 32'21	0°42'24
morning rise	9704 Feb 09 22:57	13° <b>≈</b> 49'45		max. Earth dist.	9709 Jul 06 02:55	21°9528'41	5.93779 AU
	9704 Feb 15 11:48 9704 May 24 03:21	15° <b>≈</b> 0° <b>∀</b>		morning rise	9709 Jul 19 13:59 9709 Aug 10 16:47	24° <b>©</b> 45'05 0° <b>Ω</b>	
retrograde	9704 Jun 09 08:31	0° <b>)</b> 24′20			9709 Nov 11 12:24	15° <b>Ω</b>	
	9704 Jun 25 11:45	30° <b>₹</b> ≈		retrograde	9709 Nov 28 06:40	15° <b>Ω</b> 27'49	
opposition	9704 Aug 09 07:40	25° <b>≈</b> 29'58	0°38'14		9709 Dec 15 00:55	15°R <b>Ω</b>	
min. Earth dist.	9704 Aug 10 02:42	25°≈23'52 20°≈28'27	4.50141 AU	opposition	9710 Jan 26 19:12 9710 Jan 26 09:11	10°Ω28'01 10°Ω31'23	-0°52'24 3.90977 AU
direct	9704 Oct 10 22:42 9705 Jan 06 11:09	20 <b>≈</b> 2827 0° <b>∺</b>		min. Earth dist. direct	9710 Jan 26 09:11 9710 Mar 26 00:06	5°Ω33'26	3.90977 AU
evening set	9705 Feb 13 02:22	7° <b>∺</b> 38'46			9710 Jun 14 02:10	15° <b>Ω</b>	
max. Earth dist.	9705 Feb 24 08:46	10° <b>∺</b> 04'02	6.48194 AU	evening set	9710 Jul 30 20:40	25° <b>Ω</b> 41′21	
conjunction	9705 Feb 26 00:24	10° <b>)</b> 25′24		conjunction	9710 Aug 13 06:42	28° <b>Ω</b> 57'34	
minimum elong	9705 Feb 26 00:25	10° <b>¥</b> 25′24	0°16'06	minimum elong	9710 Aug 13 06:43	28° <b>Ω</b> 57'35	
morning rise	9705 Mar 10 20:33 9705 Jul 09 16:48	13° <b>光</b> 11'11 29° <b>光</b> 56'43		max. Earth dist.	9710 Aug 14 15:02	29° <b>{\langle</b> 17'19 0° <b>m</b>	5.90926 AU
retrograde opposition	9705 Sep 08 17:02	29 <del>X</del> 30 43 25° <del>X</del> 03'39	0°06'42	morning rise	9710 Aug 17 12:57 9710 Aug 26 19:02	2° Mg 15'02	
min. Earth dist.	9705 Sep 10 02:41	24° <b>)</b> 52'53	4.44250 AU	retrograde	9711 Jan 05 17:19	23° <b>m</b> 02'05	
direct	9705 Nov 10 07:09	20° <b>∺</b> 02'40		min. Earth dist.	9711 Mar 04 19:57	18° <b>m</b> 09'22	3.93714 AU
desc. node	9705 Nov 23 05:09	20° <b>)</b> 17'43		opposition	9711 Mar 06 02:02	17° <b>m</b> 59'09	-0°15'11
evening set	9706 Feb 07 05:11 9706 Mar 15 11:33	0° <b>Ƴ</b> 7° <b>Ƴ</b> 33'31		direct asc. node	9711 May 03 01:33 9711 Jul 24 11:20	13° Mp 03'36 22° Mp 53'07	
max. Earth dist.	9706 Mar 26 01:57	9° <b>Υ</b> ′53'25	6.38432 AU	asc. node	9711 Aug 25 15:36	ე∘ <b>⊽</b>	
				evening set	9711 Sep 06 22:17	2° <b>£</b> 53'24	
conjunction	9706 Mar 28 07:07	10° <b>Ƴ'</b> 22'47					
minimum elong	9706 Mar 28 07:06	10° <b>Y</b> 22'46	0°07'38	conjunction	9711 Sep 20 13:00	6° <b>2</b> 08'00	0°04'08
behind sun begin behind sun end	9706 Mar 27 23:52 9706 Mar 28 14:20	10° <b>Υ</b> 18'48 10° <b>Υ</b> 26'45		minimum elong	9711 Sep. 20 13:00	6° <b>亞</b> 03'06	0°04'09
morning rise	9706 Mar 28 14:20 9706 Apr 10 01:01	10° γ 26'45 13° <b>Υ</b> 11'32		behind sun begin behind sun end	9711 Sep 20 04:45 9711 Sep 20 21:16	6° <b>2</b> 12'54	
	9706 Jul 21 12:38	0°8		max. Earth dist.	9711 Sep 20 21:10 9711 Sep 22 21:54	6° <b>£</b> 41'55	5.98903 AU
retrograde	9706 Aug 10 18:13	0° <b>8</b> 38'02		morning rise	9711 Oct 04 05:29	9° <b>≏</b> 23'15	
	9706 Aug 31 00:16	30°ጺ <b>ϓ</b>		retrograde	9712 Feb 10 23:57	29° <b>£</b> 21′28	

min. Earth dist.	9712 Apr 08 22:59	24° <b>£</b> 30'30	4.05988 AU	retrograde	9717 Jul 14 01:08	4° <b>Υ</b> 17'00	
opposition	9712 Apr 10 13:54	24° <b>⊆</b> 30'30' 24° <b>⊆</b> 17'18	0°26'39	retrograde	9717 Sep 08 08:17	30° <b>₹</b>	
direct	9712 Jun 08 03:32	19° <b>Ω</b> 19'33	0 2037	opposition	9717 Sep 08 08:17 9717 Sep 13 01:17	29° <b>¥</b> 24'01	0°01'51
ancet	9712 Sep 04 11:13	0°M		min. Earth dist.	9717 Sep 13 01:17 9717 Sep 14 12:08	29° <b>X</b> 12'54	4.42778 AU
evening set	9712 Oct 12 19:56	8°M24'24		desc. node	9717 Oct 03 17:50	26° <b>)</b> 52'46	1.12770710
e venning see	),112 OCC 12 15.00	0 1102.2.		direct	9717 Nov 14 14:02	24° <b>)</b> (23'15	
conjunction	9712 Oct 26 10:42	11° <b>M</b> 31'55	0°29'19	4.1.001	9718 Jan 17 21:28	0°Υ	
minimum elong	9712 Oct 26 10:41	11°M31'54	0°29'33	evening set	9718 Mar 19 19:03	11° <b>Υ</b> 58'29	
max. Earth dist.	9712 Oct 28 19:29	12°M04'32	6.14223 AU	max. Earth dist.	9718 Mar 30 07:17	14° <b>Y</b> 17'51	6.36611 AU
morning rise	9712 Nov 09 02:06	14°M39'20					
C	9712 Nov 10 14:27	15°M		conjunction	9718 Apr 01 14:12	14° <b>Ƴ</b> 48'19	-0°10'55
	9713 Jan 27 07:24	0°⊀		minimum elong	9718 Apr 01 14:11	14° <b>Ƴ</b> 48'19	0°10'58
retrograde	9713 Mar 15 13:57	3° <b>∡</b> 23'53		behind sun begin	9718 Apr 01 08:08	14° <b>Y</b> 44'59	
	9713 May 02 00:49	30°RM		behind sun end	9718 Apr 01 20:14	14° <b>Y</b> 51'39	
min. Earth dist.	9713 May 13 05:03	28°M31'52	4.22743 AU	morning rise	9718 Apr 14 08:09	17° <b>Y</b> 37'46	
opposition	9713 May 14 13:18	28°M21'02	0°56'11		9718 Jun 15 23:38	$9^{\circ}$ 8	
direct	9713 Jul 13 08:25	23°M21'14		retrograde	9718 Aug 15 10:19	5° <b>8</b> 11'44	
	9713 Sep 20 05:19	0°⊀		opposition	9718 Oct 15 05:22	0° <b>8</b> 18'32	-0°32'41
evening set	9713 Nov 16 13:42	11° <b>∡</b> ³35′03		min. Earth dist.	9718 Oct 16 20:54	0° <b>8</b> 05'51	4.29084 AU
					9718 Oct 17 15:07	30° <b>₹</b> Υ	
conjunction	9713 Nov 30 01:10	14° <b>₹</b> ³33'50	0°43'26	direct	9718 Dec 16 00:13	25° <b>Y</b> 19′03	
minimum elong	9713 Nov 30 01:09	14° <b>∡</b> ³33'49	0°43'47		9719 Feb 11 05:57	$9^{\circ}$ 8	
max. Earth dist.	9713 Dec 01 17:16	14° <b>∡</b> 756′01	6.31006 AU	evening set	9719 Apr 20 12:33	13° <b>8</b> 36'13	
morning rise	9713 Dec 13 11:37	17° <b>∡</b> ³31'52			9719 Apr 26 15:07	15° <b>8</b>	
	9714 Feb 15 01:59	ರ°ರ		max. Earth dist.	9719 May 01 03:28	16° <b>8</b> 02'13	6.20767 AU
retrograde	9714 Apr 15 20:14	5° <b>る</b> 08'28					
opposition	9714 Jun 15 06:35	0° <b>る</b> 08'40	1°06'15	conjunction	9719 May 03 07:38	16° <b>8</b> 32'14	-0°32'22
min. Earth dist.	9714 Jun 14 12:46	0° <b>る</b> 14'33	4.38197 AU	minimum elong	9719 May 03 07:37	16° <b>8</b> 32'13	0°32'37
	9714 Jun 16 08:53	30°₽ <b>√</b>		morning rise	9719 May 16 02:14	19° <b>8</b> 28'23	
direct	9714 Aug 15 07:48	25° <b>∡</b> 07'40			9719 Jul 04 10:23	$\Pi$ $^{\circ}0$	
	9714 Oct 13 13:32	0°ප		retrograde	9719 Sep 19 08:08	8° <b>Ⅱ</b> 10′18	
evening set	9714 Dec 19 03:02	12° <b>る</b> 41'00		opposition	9719 Nov 18 17:39	3° <b>Ⅱ</b> 15'50	-0°59'34
				min. Earth dist.	9719 Nov 20 01:55	3° <b>Ⅱ</b> 05′22	4.12173 AU
conjunction	9715 Jan 01 09:24	15° <b>る</b> 32'32	0°44'01		9719 Dec 16 04:47	30° <b>₹</b> 8	
minimum elong	9715 Jan 01 09:25	15° <b>る</b> 32'32	0°44'23	direct	9720 Jan 18 06:08	28° <b>8</b> 18'26	
max. Earth dist.	9715 Jan 01 20:05	15° <b>⋜</b> 38'18	6.43997 AU		9720 Feb 20 01:44	$\Pi$ $^{\circ}0$	
morning rise	9715 Jan 14 14:11	18° <b>る</b> 23'05		evening set	9720 May 23 06:33	17° <b>Ⅱ</b> 27'17	
	9715 Mar 15 21:14	0° <b>≈</b>		max. Earth dist.	9720 Jun 03 17:40	20° <b>Ⅱ</b> 10′54	6.04216 AU
retrograde	9715 May 15 20:10	5°≈14'27					
opposition	9715 Jul 15 13:53	0° <b>≈</b> 17'55	0°57'35	conjunction	9720 Jun 05 04:19	20° <b>Ⅲ</b> 31'34	-0°44'20
min. Earth dist.	9715 Jul 15 16:28	0° <b>≈</b> 17'05	4.47937 AU	minimum elong	9720 Jun 05 04:19	20° <b>Ⅲ</b> 31'34	0°44'41
	9715 Jul 17 21:10	30°₹ <b>る</b>		morning rise	9720 Jun 18 03:16	23° <b>Ⅱ</b> 36'44	
direct	9715 Sep 15 17:05	25° <b>る</b> 16'24			9720 Jul 15 19:28	$0$ $\circ$ $\odot$	
	9715 Nov 13 15:56	0° <b>≈</b>		retrograde	9720 Oct 25 19:04	13° <b>©</b> 33'21	
evening set	9716 Jan 19 01:44	12° <b>≈</b> 28′18		opposition	9720 Dec 24 16:12	8° <b>5</b> 36'24	-1°07'10
	9716 Jan 30 21:58	15° <b>≈</b>		min. Earth dist.	9720 Dec 25 04:16	8° <b>©</b> 32'24	3.97471 AU
max. Earth dist.	9716 Jan 31 09:45	15° <b>≈</b> 06′19	6.49816 AU	direct	9721 Feb 21 19:03	3°5541'00	
				evening set	9721 Jun 28 07:58	23° <b>©</b> 33'46	
conjunction	9716 Feb 01 03:23	15° <b>≈</b> 15'45	0°32'39				
minimum elong	9716 Feb 01 03:24	15° <b>≈</b> 15'45	0°32'56	conjunction	9721 Jul 11 11:56	26° <b>©</b> 46'09	-0°40'25
morning rise	9716 Feb 14 02:53	18° <b>≈</b> 02'09		minimum elong	9721 Jul 11 11:57	26° <b>©</b> 46'10	
	9716 Apr 17 09:24	0° <b>∀</b>		max. Earth dist.	9721 Jul 11 12:09	26° <b>©</b> 46'17	5.92808 AU
retrograde	9716 Jun 13 11:58	4° <b>)</b> ₹37'24		morning rise	9721 Jul 24 17:52	29° <b>©</b> 59'48	
	9716 Aug 11 07:33	30° <b>Ŗ</b> ≈			9721 Jul 24 18:11	$0^{\circ}\Omega$	
opposition	9716 Aug 13 11:45	29° <b>≈</b> 43'15	0°34'18		9721 Oct 02 10:21	15° <b>Ω</b>	
min. Earth dist.	9716 Aug 14 08:10	29° <b>≈</b> 36'42	4.49586 AU	retrograde	9721 Dec 03 15:45	20° <b>Ω</b> 46′20	
direct	9716 Oct 15 02:22	24° <b>≈</b> 41'49		opposition	9722 Feb 01 02:29	15° <b>Ω</b> 46′05	
	9716 Dec 17 00:57	0° <b>∀</b>		min. Earth dist.	9722 Jan 31 14:14		3.90691 AU
evening set	9717 Feb 17 07:07	11° <b>)</b> 54'19			9722 Feb 06 20:05	15°R <b>Ω</b>	
max. Earth dist.	9717 Feb 28 12:18	14° <b>∺</b> 19'17	6.47155 AU	direct	9722 Mar 31 05:46	10° <b>Ω</b> 51'27	
					9722 May 21 00:19	15° <b>Ω</b>	
conjunction	9717 Mar 02 04:49	14° <b>)</b> 41'11	0°12'50		9722 Aug 01 00:38	0° <b>m</b>	
minimum elong	9717 Mar 02 04:49	14° <b>)</b> 41′12	0°12'57	evening set	9722 Aug 05 02:29	0° <b>m</b> ,59′08	
behind sun begin	9717 Mar 01 23:56	14° <b>)</b> 38′34					
behind sun end	9717 Mar 02 09:42	14° <b>) (</b> 43′49		conjunction	9722 Aug 18 13:19	4° Mp 15'34	
morning rise	9717 Mar 15 00:26	17° <b>)</b> €27'13		minimum elong	9722 Aug 18 13:20	4° m 15'34	
	9717 May 20 07:04	$0^{\circ}$ Y		max. Earth dist.	9722 Aug 20 01:29	4° <b>™</b> 37'36	5.91342 AU

	0.500 0 01 00 05	70m 22112			0500 5 1 05 05 50	100 20125	0020126
morning rise	9722 Sep 01 02:37	7° m/33'12		minimum elong	9728 Feb 05 07:59	19° <b>≈</b> 28'25	0°30'36
retrograde	9723 Jan 10 20:32	28° Mp 16'34		morning rise	9728 Feb 18 06:48	22° <b>≈</b> 14'22	
min. Earth dist.	9723 Mar 09 20:56	23° Mp 24'26	3.94797 AU		9728 Mar 27 16:28	0° <b>∀</b>	
opposition	9723 Mar 11 05:40	23° <b>m</b> 13'19	-0°09'12	retrograde	9728 Jun 17 15:32	8° <b>)</b> 48′27	
direct	9723 May 08 04:56	18° <b>M</b> ,17′29		opposition	9728 Aug 17 15:39	3° <b>升</b> 54'34	0°30'16
asc. node	9723 Jun 03 15:48	19° <b>m</b> 28'09		min. Earth dist.	9728 Aug 18 14:56	3° <b>)</b> 47′06	4.49601 AU
	9723 Aug 07 19:02	0∘ <b>⊽</b>			9728 Sep 21 20:25	30°R≈	
evening set	9723 Sep 12 02:47	8° <b>ഫ</b> 02'50		direct	9728 Oct 19 08:36	28° <b>≈</b> 53'11	
evening see	>/25 5 <b>c</b> p 12 02	0 -0200			9728 Nov 15 23:56	0° <b>∀</b>	
agniumation	0722 San 25 17:42	11° <b>≏</b> 16'47	0°08'02	avanina sat	9729 Feb 21 10:37	16° <b>)</b> €05'53	
conjunction	9723 Sep 25 17:43			evening set			C 46644 ATT
minimum elong	9723 Sep 25 17:43	11° <b>Ω</b> 16'46	0°08'04	max. Earth dist.	9729 Mar 04 11:54	18° <b>∺</b> 28'59	6.46644 AU
behind sun begin	9723 Sep 25 10:17	11° <b>≏</b> 12'23					
behind sun end	9723 Sep 26 01:09	11° <b>≏</b> 21'10		conjunction	9729 Mar 06 07:46	18° <b>¥</b> 52'43	0°09'45
max. Earth dist.	9723 Sep 28 02:44	11° <b>≏</b> 50'38	6.00526 AU	minimum elong	9729 Mar 06 07:46	18° <b>¥</b> 52'43	0°09'50
morning rise	9723 Oct 09 10:28	14° <b>≙</b> 31'19		behind sun begin	9729 Mar 06 01:15	18° <b>)</b> 49′13	
-	9723 Dec 24 07:36	0°M		behind sun end	9729 Mar 06 14:17	18° <b>¥</b> 56'14	
retrograde	9724 Feb 15 19:25	4°M20'55		morning rise	9729 Mar 19 03:01	21° <b>) (</b> 38'47	
rouogrado	9724 Apr 10 02:36	30° <b>R</b> Ω		morning moe	9729 Apr 29 03:17	0°Υ	
i. David dias		•	4.0705C ATT		9729 Apr 29 03:17 9729 Jul 18 06:44	8° <b>Υ</b> 31'15	
min. Earth dist.	9724 Apr 13 20:19	29° <b>£</b> 29'41	4.07956 AU	retrograde			
opposition	9724 Apr 15 10:30	29° <b>£</b> 16'43	0°31'46	desc. node	9729 Aug 16 16:46	7° <b>Y</b> 12'48	
direct	9724 Jun 13 03:55	24° <b>≏</b> 18'38		opposition	9729 Sep 17 07:26	3° <b>Y</b> 38'15	
	9724 Aug 14 00:25	$0^{\circ}$ M.		min. Earth dist.	9729 Sep 18 19:06	3° <b>Y</b> 26'51	4.41759 AU
evening set	9724 Oct 17 18:50	13°M17'06			9729 Oct 19 06:53	30° <b>₹</b> ₩	
	9724 Oct 25 07:20	15° <b>M</b> ₊		direct	9729 Nov 18 18:50	28° <b>ℋ</b> 37'33	
					9729 Dec 19 08:56	$0^{\circ}\Upsilon$	
conjunction	9724 Oct 31 09:30	16°M23'34	0°32'04	evening set	9730 Mar 23 23:36	16° <b>Y</b> 15'52	
minimum elong	9724 Oct 31 09:38	16°M23'33	0°32'19	max. Earth dist.	9730 Apr 03 12:01		6.35141 AU
C				max. Earth dist.	9730 Apr 03 12.01	10 1 33 40	0.33141 AU
max. Earth dist.	9724 Nov 02 18:20	16°M56'03	6.16377 AU		0.500 + 0.5 10.00	10000000110	001.410.1
morning rise	9724 Nov 14 00:15	19°M29'46		conjunction	9730 Apr 05 18:38	19° <b>Y</b> 06′10	
	9725 Jan 02 20:35	0°⊀		minimum elong	9730 Apr 05 18:37	19° <b>Ƴ</b> 06'10	0°14'07
retrograde	9725 Mar 20 01:27	8° <b>₰</b> 04'47		behind sun begin	9730 Apr 05 14:36	19° <b>Ƴ</b> 03'56	
min. Earth dist.	9725 May 17 18:56	3° <b>҂</b> 12'49	4.24901 AU	behind sun end	9730 Apr 05 22:39	19° <b>Ƴ</b> 08'23	
opposition	9725 May 19 02:15	3° <b>∡</b> 02'20	0°58'47	morning rise	9730 Apr 18 12:18	21° <b>Y</b> 56'07	
	9725 Jun 12 14:53	30°RML		-	9730 May 26 17:09	0°8	
direct	9725 Jul 18 01:02	28°M02'23		retrograde	9730 Aug 19 22:15	9° <b>8</b> 36'41	
uncet	9725 Aug 22 20:08	0°×7		opposition	9730 Oct 19 16:55	4° <b>8</b> 43'24	0°36'53
avaning sat	•	16° <b>⊀</b> 10'15				4° <b>8</b> 30'30	
evening set	9725 Nov 21 05:55	10 × 10 13		min. Earth dist.	9730 Oct 21 09:06		4.27230 AU
					9730 Dec 07 07:47	30° <b>₹</b> Υ	
conjunction	9725 Dec 04 16:35	19° <b>₰</b> 07'54		direct	9730 Dec 20 09:01	29° <b>Ƴ</b> 44'08	
minimum elong	9725 Dec 04 16:34	19° <b>₰</b> 07'54	0°44'41		9731 Jan 02 10:05	$8^{\circ 0}$	
max. Earth dist.	9725 Dec 06 04:12	19° <b>∡</b> ¹27'33	6.33018 AU		9731 Apr 11 02:46	15° <b>8</b>	
morning rise	9725 Dec 18 02:26	22° <b>∡</b> 04'50		evening set	9731 Apr 24 21:37	18° <b>8</b> 06'57	
	9726 Jan 25 02:58	0°రె		max. Earth dist.	9731 May 05 11:46	20° <b>8</b> 33'17	6.18651 AU
retrograde	9726 Apr 20 02:50	9° <b>ට</b> 33'51			,		
opposition	9726 Jun 19 13:58	4° <b>る</b> 34'29	1°06'05	conjunction	9731 May 07 16:40	21° <b>8</b> 03'51	-0°34'37
min. Earth dist.	9726 Jun 18 23:02	4°₹39'25	4.39954 AU	minimum elong	9731 May 07 16:39	21° <b>8</b> 03'51	
mm. Earth dist.			4.33334 AU	Č	•	_	0 3434
11	9726 Aug 02 22:43	30°₹ <b>҂</b> 7		morning rise	9731 May 20 11:46	24° <b>8</b> 01'04	
direct	9726 Aug 19 20:10	29° <b>х</b> 33′23			9731 Jun 16 04:58	0°II	
	9726 Sep 05 20:18	0°₹		retrograde	9731 Sep 24 04:17	12° <b>∏</b> 52'48	
evening set	9726 Dec 23 12:42	17° <b>る</b> 02'20		opposition	9731 Nov 23 12:33	7° <b>Ⅱ</b> 58'02	-1°01'53
				min. Earth dist.	9731 Nov 24 19:06	7° <b>Ⅱ</b> 48'05	4.09940 AU
conjunction	9727 Jan 05 18:32	19° <b>る</b> 53'05	0°43'05	direct	9732 Jan 22 20:47	3° <b>Ⅱ</b> 00′50	
minimum elong	9727 Jan 05 18:33	19° <b>る</b> 53'05	0°43'26	evening set	9732 May 27 22:48	22° <b>Ⅱ</b> 16'54	
max. Earth dist.	9727 Jan 06 03:15	19° <b>る</b> 57'46	6.45405 AU		•		
morning rise	9727 Jan 18 22:23	22° <b>る</b> 42'46		conjunction	9732 Jun 09 21:25	25° <b>Ⅱ</b> 22'29	-0°44'47
morning rise	9727 Feb 23 14:18	0°≈		minimum elong	9732 Jun 09 21:25	25° <b>II</b> 22'29	
. 1				_			
retrograde	9727 May 19 21:46	9°≈29'32	0055107	max. Earth dist.	9732 Jun 08 14:53	25° <b>Ⅱ</b> 04'11	6.02074 AU
opposition	9727 Jul 19 18:06	4°≈33'22		morning rise	9732 Jun 22 21:03	28° <b>Ⅱ</b> 28'58	
min. Earth dist.	9727 Jul 19 21:54	4° <b>≈</b> 32'08	4.48933 AU		9732 Jun 29 06:32	$0$ $\circ$ $\odot$	
	9727 Sep 02 08:53	30°R₹		retrograde	9732 Oct 31 00:38	18° <b>©</b> 35'37	
direct	9727 Sep 19 23:13	29° <b>る</b> 31'52		opposition	9732 Dec 29 18:25	13° <b>©</b> 38'20	-1°06'12
	9727 Oct 07 17:51	0° <b>≈</b>		min. Earth dist.	9732 Dec 30 04:47	13° <b>©</b> 34'54	3.95633 AU
	9728 Jan 15 06:35	15° <b>≈</b>		direct	9733 Feb 26 17:05	8°5643'09	
evening set	9728 Jan 23 07:06	16° <b>≈</b> 41'27		evening set	9733 Jul 03 08:23	28°541'53	
max. Earth dist.	9728 Feb 04 10:56	19°≈17'09	6.50339 AU		9733 Jul 08 16:36	0°Ω	
mas. Durin dist.	,,20100 07 10.30	17 7011 07	5.50557 110		,,55 Jul 00 10.50	~ UL	
agniumation	0720 Esh 05 07:50	100000004	0.30.30	agniumation	0722 Jul 16 12:20	10 0 5 5 10 5	0020122
conjunction	9728 Feb 05 07:58	19° <b>≈</b> 28′24	0°30'20	conjunction	9733 Jul 16 13:20	1° <b>Ω</b> 55'25	-0 36 32

minimum elong	9733 Jul 16 13:21	1° <b>Ω</b> 55'25	0°38'52		9739 Feb 06 03:41	0° <b>≈</b>	
max. Earth dist.	9733 Jul 16 16:56	1° <b>Ω</b> 57'36		retrograde	9739 May 24 02:27	13° <b>≈</b> 47'17	
morning rise	9733 Jul 29 20:36	5° <b>Ω</b> 10'18	0.911.02110	opposition	9739 Jul 23 23:12	8°≈51'27	0°52'15
8	9733 Sep 10 11:02	15° <b>Ω</b>		min. Earth dist.	9739 Jul 24 06:31	8°≈49'05	4.49735 AU
retrograde	9733 Dec 08 22:33	26°Ω02'21		direct	9739 Sep 24 07:50	3°≈49'50	
opposition	9734 Feb 06 08:27	21°Ω01'42	-0°43'49		9739 Dec 29 11:42	15° <b>≈</b>	
min. Earth dist.	9734 Feb 05 16:16	21° <b>Ω</b> 07'09		evening set	9740 Jan 27 13:09	20° <b>≈</b> 57'48	
direct	9734 Apr 05 08:14	16° <b>Ω</b> 07'03		<u>8</u>			
	9734 Jul 14 19:00	0° mp		conjunction	9740 Feb 09 13:33	23° <b>≈</b> 44'27	0°27'46
evening set	9734 Aug 10 08:18	6° m 16'33		minimum elong	9740 Feb 09 13:34	23° <b>≈</b> 44'28	0°28'01
Č	Č	•		max. Earth dist.	9740 Feb 08 13:32	23° <b>≈</b> 31'37	6.50521 AU
conjunction	9734 Aug 23 20:03	9° mp 33'24	-0°16'32	morning rise	9740 Feb 22 11:40	26°≈30'06	
minimum elong	9734 Aug 23 20:04	9° m 33'25	0°16'41	C	9740 Mar 10 04:41	0° <b>∀</b>	
max. Earth dist.	9734 Aug 25 11:40	9° m 57'32	5.91378 AU	retrograde	9740 Jun 21 19:16	13° <b>)</b> 04'17	
morning rise	9734 Sep 06 10:16	12° m/51'26		opposition	9740 Aug 21 21:08	8° <b>ℋ</b> 10'33	0°25'55
	9734 Nov 29 08:17	0∘ <b>⊽</b>		min. Earth dist.	9740 Aug 22 21:50	8° <b>∺</b> 02'39	4.49152 AU
retrograde	9735 Jan 16 00:47	3° <b>₽</b> 32'49		direct	9740 Oct 23 13:39	3° <b>₩</b> 09'12	
	9735 Mar 05 02:55	30°R, Mp		evening set	9741 Feb 25 16:04	20° <b>)</b> €23'37	
min. Earth dist.	9735 Mar 14 23:38	28° <b>m</b> 40'53	3.95545 AU	max. Earth dist.	9741 Mar 08 14:52	22° <b>)</b> 45′45	6.45585 AU
opposition	9735 Mar 16 09:49	28° <b>m</b> 29'15	-0°03'15				
asc. node	9735 Apr 15 02:51	24° <b>m</b> 54'05		conjunction	9741 Mar 10 12:46	23° <b>) (</b> 10′40	0°06'28
direct	9735 May 13 10:20	23° m 33'09		minimum elong	9741 Mar 10 12:46	23° <b>ℋ</b> 10'40	0°06'33
	9735 Jul 17 12:44	0° <b>⊽</b>		behind sun begin	9741 Mar 10 05:17	23° <b>)</b> €06'37	
evening set	9735 Sep 17 08:33	13° <b>≙</b> 15′24		behind sun end	9741 Mar 10 20:15	23° <b>)</b> 14'42	
				morning rise	9741 Mar 23 07:38	25° <b>升</b> 57′00	
conjunction	9735 Oct 01 00:01	16° <b>≏</b> 28'53	0°11'49		9741 Apr 11 09:55	$0$ ° $\mathbf{\Upsilon}$	
minimum elong	9735 Sep 30 24:00	16° <b>≏</b> 28'52	0°11'54	desc. node	9741 Jun 26 14:10	11° <b>Y</b> 51'46	
behind sun begin	9735 Sep 30 18:16	16° <b>≏</b> 25'30		retrograde	9741 Jul 22 17:20	12° <b>Y</b> 54'06	
behind sun end	9735 Oct 01 05:44	16° <b>≙</b> 32'15		opposition	9741 Sep 21 17:14	8° <b>Y</b> 01'08	-0°07'46
max. Earth dist.	9735 Oct 03 12:28	17° <b>≏</b> 04'39	6.01920 AU	min. Earth dist.	9741 Sep 23 07:13	7° <b>Ƴ</b> 49'00	4.40130 AU
morning rise	9735 Oct 14 16:45	19° <b>≙</b> 42'46		direct	9741 Nov 23 04:06	3° <b>Y</b> 00′32	
	9735 Nov 30 10:29	0° <b>M</b> .		evening set	9742 Mar 28 08:10	20° <b>Ƴ</b> 43'51	
retrograde	9736 Feb 20 16:50	9°M24'16		max. Earth dist.	9742 Apr 07 18:09	23° <b>Y</b> 03'06	6.33052 AU
min. Earth dist.	9736 Apr 18 17:38	4°MJ33'13	4.09827 AU				
opposition	9736 Apr 20 08:13	4°M20'09	0°36'35	conjunction	9742 Apr 10 03:00	23° <b>Y</b> 34'53	-0°17'15
	9736 May 29 15:53	30° <b>₹</b> Ω		minimum elong	9742 Apr 10 02:59	23° <b>Y</b> 34'53	0°17'23
direct	9736 Jun 18 04:43	29° <b>≙</b> 21'47		morning rise	9742 Apr 22 20:47	26° <b>Y</b> 25'40	
	9736 Jul 07 21:02	0° <b>M</b> .			9742 May 09 03:22	$_{0\circ}$ 8	
	9736 Oct 08 08:42	15° <b>M</b> ₊		retrograde	9742 Aug 24 15:44	14° <b>8</b> 15'03	
evening set	9736 Oct 22 19:32	18°ML14'08		opposition	9742 Oct 24 09:48	9° <b>8</b> 21'34	-0°41'12
				min. Earth dist.	9742 Oct 26 01:04	9° <b>8</b> 08'56	4.24809 AU
conjunction	9736 Nov 05 09:42	21°ML19'27	0°34'33	direct	9742 Dec 24 21:37	4° <b>8</b> 22'28	
minimum elong	9736 Nov 05 09:41	21°M19'26	0°34'49		9743 Mar 24 15:51	15° <b>8</b>	
max. Earth dist.	9736 Nov 07 16:34	21°M50'39	6.18535 AU	evening set	9743 Apr 29 12:35	22° <b>8</b> 52'51	
morning rise	9736 Nov 19 00:07	24°M24'29		max. Earth dist.	9743 May 10 06:01	25° <b>8</b> 21'51	6.16101 AU
	9736 Dec 14 11:33	0° <b>∡</b> ¹					
retrograde	9737 Mar 24 13:44	12° <b>∡</b> ¹49'45		conjunction	9743 May 12 08:04	25° <b>8</b> 50'57	-0°36'50
min. Earth dist.	9737 May 22 10:33	7° <b>∡</b> 757'33	4.27131 AU	minimum elong	9743 May 12 08:03	25° <b>8</b> 50'56	0°37'08
opposition	9737 May 23 16:29	7° <b>∡</b> ¹47'33	1°00'58	morning rise	9743 May 25 03:28	28° <b>8</b> 49'24	
direct	9737 Jul 22 20:00	2° <b>∡</b> 747′18			9743 May 30 06:02	$\Pi^{\circ}0$	
evening set	9737 Nov 25 22:45	20° <b>∡</b> ¹48'42		retrograde	9743 Sep 29 09:36	17° <b>Ⅱ</b> 52'24	
				opposition	9743 Nov 28 14:35	12° <b>Ⅱ</b> 57'24	-1°03'57
conjunction	9737 Dec 09 08:54	23° <b>х</b> 45'14	0°44'54	min. Earth dist.	9743 Nov 29 19:56	12° <b>Ⅱ</b> 47'49	4.07465 AU
minimum elong	9737 Dec 09 08:54	23° <b>∡</b> ¹45'14	0°45'16	direct	9744 Jan 27 18:18	8° <b>Ⅱ</b> 00'29	
max. Earth dist.	9737 Dec 10 18:49	24° <b>₰</b> 03'51	6.35135 AU	evening set	9744 Jun 01 22:17	27° <b>Ⅲ</b> 24'20	
morning rise	9737 Dec 22 17:45	26° <b>∡</b> 740′55			9744 Jun 12 17:42	0°ಅ	
	9738 Jan 07 04:42	5°0					
retrograde	9738 Apr 24 09:08	14° <b>る</b> 01'57		conjunction	9744 Jun 14 21:36	0° <b>©</b> 31'15	
opposition	9738 Jun 23 22:10	9° <b>ප</b> 03'01	1°05'29	minimum elong	9744 Jun 14 21:36	0° <b>©</b> 31'15	
min. Earth dist.	9738 Jun 23 09:06	9° <b>る</b> 07'18	4.41770 AU	max. Earth dist.	9744 Jun 13 17:50		5.99903 AU
direct	9738 Aug 24 08:20	4° <b>ට</b> 01'47		morning rise	9744 Jun 27 22:22	3°539'11	
evening set	9738 Dec 27 22:59	21° <b>පි</b> 26'03		retrograde	9744 Nov 05 10:36	23° <b>9</b> 55'35	
				opposition	9745 Jan 04 03:49	18° <b>9</b> 57'52	-1°04'36
conjunction	9739 Jan 10 03:54	24° <b>る</b> 15'56		min. Earth dist.	9745 Jan 04 09:38	18° <b>©</b> 55'56	3.94014 AU
minimum elong	9739 Jan 10 03:55	24° <b>る</b> 15'57	0°42'12	direct	9745 Mar 03 20:59	14° <b>©</b> 02'53	
max. Earth dist.	9739 Jan 10 07:13	24° <b>る</b> 17'43	6.46760 AU		9745 Jun 21 13:12	$0$ $^{\circ}$ $\Omega$	
morning rise	9739 Jan 23 07:07	27° <b>る</b> 04'49		evening set	9745 Jul 08 15:44	4° <b>Ω</b> 06'19	

page 15

direct

9768 Feb 06 18:39

18°**Ⅱ**16'44

retrograde

9762 May 02 17:47

22°る41'07

	9768 May 08 23:06	0ം <b>ഉ</b>		conjunction	9773 Dec 22 18:59	7° <b>る</b> 01'06	0°45'05
evening set	9768 Jun 12 02:42	7° <b>©</b> 53'20		minimum elong	9773 Dec 22 18:59	7° <b>ප</b> 01'06	0°45'28
max. Earth dist.	9768 Jun 24 11:26	10° <b>©</b> 52'39	5.96682 AU	max. Earth dist.	9773 Dec 23 16:00	7° <b>る</b> 12'30	6.40686 AU
				morning rise	9774 Jan 05 01:28	9° <b>る</b> 53'37	
conjunction	9768 Jun 25 03:43	11° <b>©</b> 02'31	-0°44'14	retrograde	9774 May 06 19:16	26° <b>る</b> 55'50	
minimum elong	9768 Jun 25 03:43	11° <b>©</b> 02'31	0°44'36	opposition	9774 Jul 06 11:53	21° <b>る</b> 58'18	1°01'46
morning rise	9768 Jul 08 06:18	14°9512'48		min. Earth dist.	9774 Jul 06 07:15	21° <b>る</b> 59'48	4.45792 AU
	9768 Sep 21 11:59	0° <b>Ω</b>		direct	9774 Sep 06 07:07	16° <b>ප්</b> 56'51	
retrograde	9768 Nov 16 10:51	4° <b>£</b> 43′11			9774 Dec 20 14:12	0° <b>≈</b>	
annagitian	9769 Jan 13 02:20 9769 Jan 15 00:43	30°Rூ 29°€44'32	0.050142	evening set	9775 Jan 09 19:17	4° <b>≈</b> 12'44	
opposition min. Earth dist.	9769 Jan 14 23:05	29 \$344 32 29°\$45'05	-0 3943 3.92287 AU	conjunction	9775 Jan 22 22:21	7° <b>≈</b> 01'02	0°37'02
direct	9769 Mar 14 11:55	24°949'53	3.92287 AU	minimum elong	9775 Jan 22 22:21	7°≈01'02	0°37'02 0°37'21
direct	9769 May 10 20:51	0°Ω		max. Earth dist.	9775 Jan 22 13:36	6°≈56'21	6.48989 AU
evening set	9769 Jul 19 06:59	14°Ω56'12		morning rise	9775 Feb 04 23:19	9° <b>≈</b> 48'17	0.10505710
	9769 Jul 19 13:14	15° <b>Ω</b>			9775 Mar 02 01:27	15° <b>≈</b>	
				retrograde	9775 Jun 05 11:37	26° <b>≈</b> 25′00	
conjunction	9769 Aug 01 14:46	18° <b>Ω</b> 11'36	-0°30'42	opposition	9775 Aug 05 09:47	21° <b>≈</b> 30′15	0°42'26
minimum elong	9769 Aug 01 14:47	18° <b>Ω</b> 11'36	0°30'57	min. Earth dist.	9775 Aug 06 01:21	21° <b>≈</b> 25′15	4.50090 AU
max. Earth dist.	9769 Aug 02 10:55	18° <b>Ω</b> 23'55	5.90495 AU	direct	9775 Oct 06 22:53	16° <b>≈</b> 28'43	
morning rise	9769 Aug 15 01:09	21° <b>Ω</b> 28′21			9776 Jan 22 18:51	0° <b>)</b> €	
	9769 Sep 20 15:21	0° <b>™</b>		evening set	9776 Feb 09 03:25	3° <b>)</b> 38′16	
retrograde	9769 Dec 25 03:28	12° <b>m</b> 20'47		max. Earth dist.	9776 Feb 20 14:44	6° <b>∺</b> 05'51	6.48962 AU
min. Earth dist.	9770 Feb 21 11:33	7° <b>m</b> 27'23	3.91586 AU				
opposition	9770 Feb 22 13:10	7° <b>m</b> 18'42	-0°27'48	conjunction	9776 Feb 22 02:08	6° <b>)</b> €24'53	0°19'23
direct	9770 Apr 21 10:55	2° m 23'39		minimum elong	9776 Feb 22 02:09	6° <b>)</b> €24'54	0°19'34
evening set	9770 Aug 26 09:51	22° <b>m</b> 23'16		morning rise	9776 Mar 05 22:55	9° <b>)</b> (10'37	
agnismation	0770 San 09 22:22	250 m 20106	0004140	retrograde	9776 Jul 04 15:09	25° <b>\</b> 52'25 20° <b>\</b> 59'11	0°12'12
conjunction minimum elong	9770 Sep 08 23:33 9770 Sep 08 23:34	25° m 39'06 25° m 39'06	0°04'43	opposition min. Earth dist.	9776 Sep 03 15:32 9776 Sep 04 22:46	20° <b>X</b> 39'11 20° <b>X</b> 49'11	4.45794 AU
behind sun begin	9770 Sep 08 25:34 9770 Sep 08 15:23	25° Mp 34'12	0 0443	direct	9776 Sep 04 22.46 9776 Nov 05 06:43	15° <b>)</b> 58'03	4.43/94 AU
behind sun end	9770 Sep 08 13:23 9770 Sep 09 07:44	25° m/ 44'00		desc. node	9777 Jan 21 11:24	23° <b>)</b> 42'30	
max. Earth dist.	9770 Sep 11 02:51	26° m/10'00	5.95325 AU	desc. node	9777 Feb 22 14:15	0°Υ	
morning rise	9770 Sep 22 15:14	28° m 55'48		evening set	9777 Mar 10 10:34	3° <b>Υ</b> 23'48	
Č	9770 Sep 27 03:12	0∘ <u>⊽</u>		max. Earth dist.	9777 Mar 21 03:26	5° <b>Ƴ</b> 44'19	6.40646 AU
asc. node	9770 Nov 13 11:07	10° <b>≏</b> 25'47					
retrograde	9771 Jan 31 06:55	19° <b>≙</b> 13'45		conjunction	9777 Mar 23 06:29	6° <b>Y</b> 12'21	-0°03'41
min. Earth dist.	9771 Mar 30 04:52	14° <b>≏</b> 22'20	4.01369 AU	minimum elong	9777 Mar 23 06:28	6° <b>Ƴ</b> 12'21	0°03'42
opposition	9771 Mar 31 18:10	14° <b>ഫ</b> 09'39	0°14'38	behind sun begin	9777 Mar 22 22:34	6° <b>Y</b> 08′02	
direct							
	9771 May 29 02:21	9° <b>≏</b> 12'38		behind sun end	9777 Mar 23 14:22	6° <b>Ƴ</b> 16'40	
evening set	9771 Oct 02 19:40	28° <b>ჲ</b> 33'06		behind sun end morning rise	9777 Apr 05 00:35	9° <b>Ƴ</b> 00'19	
evening set	•			behind sun end morning rise retrograde	9777 Apr 05 00:35 9777 Aug 05 07:18	9° <b>Υ</b> 00'19 26° <b>Υ</b> 17'28	
, and the second	9771 Oct 02 19:40 9771 Oct 09 01:28	28° <b>£</b> 33'06 0° <b>M</b> .	0022122	behind sun end morning rise retrograde opposition	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09	9° <b>Υ</b> 00'19 26° <b>Υ</b> 17'28 21° <b>Υ</b> 24'28	
conjunction	9771 Oct 02 19:40 9771 Oct 09 01:28 9771 Oct 16 10:56	28° <b>2</b> 33'06 0° <b>M</b> 1° <b>M</b> 43'11	0°22'32	behind sun end morning rise retrograde opposition min. Earth dist.	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17	9° <b>Υ</b> 00'19 26° <b>Υ</b> 17'28 21° <b>Υ</b> 24'28 21° <b>Υ</b> 11'57	-0°22'28 4.33912 AU
conjunction minimum elong	9771 Oct 02 19:40 9771 Oct 09 01:28 9771 Oct 16 10:56 9771 Oct 16 10:55	28° \$\Omega 33'06	0°22'42	behind sun end morning rise retrograde opposition	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33	9° <b>Y</b> 00'19 26° <b>Y</b> 17'28 21° <b>Y</b> 24'28 21° <b>Y</b> 11'57 16° <b>Y</b> 24'29	
conjunction minimum elong max. Earth dist.	9771 Oct 02 19:40 9771 Oct 09 01:28 9771 Oct 16 10:56 9771 Oct 16 10:55 9771 Oct 18 23:23	28° \( \Omega \) 33'06 0° \( \mathrm{M} \) 1° \( \mathrm{M} \) 43'11 2° \( \mathrm{M} \) 18'19		behind sun end morning rise retrograde opposition min. Earth dist. direct	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33 9778 Mar 21 12:16	9° <b>Υ</b> 00'19 26° <b>Υ</b> 17'28 21° <b>Υ</b> 24'28 21° <b>Υ</b> 11'57 16° <b>Υ</b> 24'29 0° <b>႘</b>	
conjunction minimum elong	9771 Oct 02 19:40 9771 Oct 09 01:28 9771 Oct 16 10:56 9771 Oct 16 10:55 9771 Oct 18 23:23 9771 Oct 30 03:06	28° \$\Omega\$ 33'06 0° \$\mathbb{m}\$ 1° \$\mathbb{m}\$ 43'11 1° \$\mathbb{m}\$ 43'11 2° \$\mathbb{m}\$ 18'19 4° \$\mathbb{m}\$ 53'24	0°22'42	behind sun end morning rise retrograde opposition min. Earth dist. direct	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33 9778 Mar 21 12:16 9778 Apr 10 16:42	9°Υ00'19 26°Υ17'28 21°Υ24'28 21°Υ11'57 16°Υ24'29 0°႘ 4°႘26'59	4.33912 AU
conjunction minimum elong max. Earth dist. morning rise	9771 Oct 02 19:40 9771 Oct 09 01:28 9771 Oct 16 10:56 9771 Oct 16 10:55 9771 Oct 18 23:23 9771 Oct 30 03:06 9771 Dec 15 21:59	28° \( \Omega \) 33'06 0° \( \mathrm{M} \) 1° \( \mathrm{M} \) 43'11 2° \( \mathrm{M} \) 18'19	0°22'42	behind sun end morning rise retrograde opposition min. Earth dist. direct	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33 9778 Mar 21 12:16	9°Υ00'19 26°Υ17'28 21°Υ24'28 21°Υ11'57 16°Υ24'29 0°႘ 4°႘26'59	
conjunction minimum elong max. Earth dist.	9771 Oct 02 19:40 9771 Oct 09 01:28 9771 Oct 16 10:56 9771 Oct 16 10:55 9771 Oct 18 23:23 9771 Oct 30 03:06	28° \$\Omega 33'06 0° \$\mathbb{m}\$ 1° \$\mathbb{m}\$ 43'11 2° \$\mathbb{m}\$ 18'19 4° \$\mathbb{m}\$ 53'24 15° \$\mathbb{m}\$\$	0°22'42	behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33 9778 Mar 21 12:16 9778 Apr 10 16:42 9778 Apr 21 03:53	9°Υ00'19 26°Υ17'28 21°Υ24'28 21°Υ11'57 16°Υ24'29 0°႘ 4°႘26'59	4.33912 AU 6.26007 AU
conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	9771 Oct 02 19:40 9771 Oct 09 01:28 9771 Oct 16 10:56 9771 Oct 16 10:55 9771 Oct 18 23:23 9771 Oct 30 03:06 9771 Dec 15 21:59 9772 Mar 05 15:57	28° \$\Omega 33'06 0° \$\mathbb{m}\$ 1° \$\mathbb{m}\$ 43'11 1° \$\mathbb{m}\$ 43'11 2° \$\mathbb{m}\$ 18'19 4° \$\mathbb{m}\$ 53'24 15° \$\mathbb{m}\$ 24° \$\mathbb{m}\$ 01'24	0°22'42 6.09008 AU	behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33 9778 Mar 21 12:16 9778 Apr 10 16:42 9778 Apr 21 03:53	9°Υ00'19 26°Υ17'28 21°Υ24'28 21°Υ11'57 16°Υ24'29 0°႘ 4°႘26'59 6°႘49'11	4.33912 AU 6.26007 AU -0°26'26
conjunction minimum elong max. Earth dist. morning rise retrograde	9771 Oct 02 19:40 9771 Oct 09 01:28 9771 Oct 16 10:56 9771 Oct 16 10:55 9771 Oct 18 23:23 9771 Oct 30 03:06 9771 Dec 15 21:59 9772 Mar 05 15:57 9772 May 03 00:13	28° \$\Omega 33'06 0° \$\mathbb{m}\$ 1° \$\mathbb{m}\$43'11 1° \$\mathbb{m}\$43'11 2° \$\mathbb{m}\$18'19 4° \$\mathbb{m}\$53'24 15° \$\mathbb{m}\$ 24° \$\mathbb{m}\$01'24 19° \$\mathbb{m}\$10'09	0°22'42 6.09008 AU 4.17441 AU	behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33 9778 Mar 21 12:16 9778 Apr 10 16:42 9778 Apr 21 03:53	9°Υ00'19 26°Υ17'28 21°Υ24'28 21°Υ11'57 16°Υ24'29 0°8 4°8'26'59 6°8'49'11 7°8'20'46	4.33912 AU 6.26007 AU -0°26'26
conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	9771 Oct 02 19:40 9771 Oct 09 01:28 9771 Oct 16 10:56 9771 Oct 16 10:55 9771 Oct 18 23:23 9771 Oct 30 03:06 9771 Dec 15 21:59 9772 Mar 05 15:57 9772 May 03 00:13 9772 May 04 12:36	28° \$\Omega\$ 33'06 0° \$\mathbb{m}\$ 1° \$\mathbb{m}\$ 43'11 2° \$\mathbb{m}\$ 18'19 4° \$\mathbb{m}\$ 53'24 15° \$\mathbb{m}\$ 24° \$\mathbb{m}\$ 01'24 19° \$\mathbb{m}\$ 10'09 18° \$\mathbb{m}\$ 57'53	0°22'42 6.09008 AU 4.17441 AU	behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33 9778 Mar 21 12:16 9778 Apr 10 16:42 9778 Apr 21 03:53 9778 Apr 23 11:26 9778 Apr 23 11:25	9°Υ00'19 26°Υ17'28 21°Υ24'28 21°Υ11'57 16°Υ24'29 0°႘ 4°႘26'59 6°႘49'11 7°႘20'46 7°႘20'45	4.33912 AU 6.26007 AU -0°26'26
conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	9771 Oct 02 19:40 9771 Oct 09 01:28 9771 Oct 16 10:56 9771 Oct 16 10:55 9771 Oct 18 23:23 9771 Oct 30 03:06 9771 Dec 15 21:59 9772 Mar 05 15:57 9772 May 03 00:13 9772 May 04 12:36 9772 Jun 07 20:47	28° \$\Omega\$ 33'06 0° \$\mathbb{m}\$ 1° \$\mathbb{m}\$ 43'11 2° \$\mathbb{m}\$ 18'19 4° \$\mathbb{m}\$ 53'24 15° \$\mathbb{m}\$ 24° \$\mathbb{m}\$ 01'24 19° \$\mathbb{m}\$ 10'09 18° \$\mathbb{m}\$ 57'53 15° \$\mathbb{m}\$	0°22'42 6.09008 AU 4.17441 AU	behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33 9778 Mar 21 12:16 9778 Apr 10 16:42 9778 Apr 21 03:53 9778 Apr 23 11:26 9778 Apr 23 11:25 9778 May 06 05:38	9°Y00'19 26°Y17'28 21°Y24'28 21°Y11'57 16°Y24'29 0°8 4°826'59 6°849'11 7°820'46 7°820'45 10°814'33	4.33912 AU 6.26007 AU -0°26'26
conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	9771 Oct 02 19:40 9771 Oct 09 01:28 9771 Oct 16 10:56 9771 Oct 16 10:55 9771 Oct 18 23:23 9771 Oct 30 03:06 9771 Dec 15 21:59 9772 Mar 05 15:57 9772 May 03 00:13 9772 May 04 12:36 9772 Jun 07 20:47 9772 Jul 02 21:07	28° \$\Omega 33'06 0° \$\mathbb{m}\$.  1° \$\mathbb{m}\$.43'11 2° \$\mathbb{m}\$.18'19 4° \$\mathbb{m}\$.53'24 15° \$\mathbb{m}\$.24' \$\mathbb{m}\$.01'24 19° \$\mathbb{m}\$.10'09 18° \$\mathbb{m}\$.57'53 15° \$\mathbb{m}\$. 13° \$\mathbb{m}\$.58'40	0°22'42 6.09008 AU 4.17441 AU	behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33 9778 Mar 21 12:16 9778 Apr 10 16:42 9778 Apr 21 03:53 9778 Apr 23 11:26 9778 Apr 23 11:25 9778 May 06 05:38 9778 May 27 16:31	9°Y00'19 26°Y17'28 21°Y24'28 21°Y11'57 16°Y24'29 0°8 4°8'26'59 6°8'49'11 7°8'20'46 7°8'20'45 10°8'14'33 15°8 28°8'33'38 23°8'39'39	4.33912 AU 6.26007 AU -0°26'26 0°26'38
conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	9771 Oct 02 19:40 9771 Oct 09 01:28 9771 Oct 16 10:56 9771 Oct 16 10:55 9771 Oct 18 23:23 9771 Oct 30 03:06 9771 Dec 15 21:59 9772 Mar 05 15:57 9772 May 04 12:36 9772 Jun 07 20:47 9772 Jul 02 21:07 9772 Jul 28 04:57	28° \$\Omega 33'06 0° \$\mathbb{m}\$ 1° \$\mathbb{m}\$ 43'11 2° \$\mathbb{m}\$ 18'19 4° \$\mathbb{m}\$ 53'24 15° \$\mathbb{m}\$ 24° \$\mathbb{m}\$ 01'24 19° \$\mathbb{m}\$ 10'09 18° \$\mathbb{m}\$ 57'53 15° \$\mathbb{m}\$ 13° \$\mathbb{m}\$ 58'40 15° \$\mathbb{m}\$	0°22'42 6.09008 AU 4.17441 AU	behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist.	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33 9778 Mar 21 12:16 9778 Apr 10 16:42 9778 Apr 21 03:53 9778 Apr 23 11:26 9778 Apr 23 11:25 9778 May 06 05:38 9778 May 27 16:31 9778 Sep 08 10:35 9778 Nov 07 22:51 9778 Nov 09 11:06	9°Y00'19 26°Y17'28 21°Y24'28 21°Y11'57 16°Y24'29 0°8 4°8'26'59 6°8'49'11 7°8'20'46 7°8'20'45 10°8'14'33 15°8 28°8'33'38 23°8'39'39 23°8'27'55	4.33912 AU 6.26007 AU -0°26'26 0°26'38
conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition  direct	9771 Oct 02 19:40 9771 Oct 09 01:28 9771 Oct 16 10:56 9771 Oct 16 10:55 9771 Oct 18 23:23 9771 Oct 30 03:06 9771 Dec 15 21:59 9772 Mar 05 15:57 9772 May 04 12:36 9772 Jun 07 20:47 9772 Jul 02 21:07 9772 Jul 28 04:57 9772 Oct 26 03:14 9772 Nov 06 06:42	28° \$\textit{\Omega} 33'06 0° \$\mathbb{M}\$ 1° \$\mathbb{M} 43'11 2° \$\mathbb{M} 18'19 4° \$\mathbb{M} 53'24 15° \$\mathbb{M}\$ 24° \$\mathbb{M} 01'24 19° \$\mathbb{M} 10'09 18° \$\mathbb{M} 57'53 15° \$\mathbb{M}\$ 13° \$\mathbb{M} 58'40 15° \$\mathbb{M}\$ 0° \$\mathred{\sigma}\$ 2° \$\mathred{\sigma} 27'36	0°22'42 6.09008 AU 4.17441 AU 0°49'02	behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33 9778 Mar 21 12:16 9778 Apr 10 16:42 9778 Apr 21 03:53 9778 Apr 23 11:26 9778 Apr 23 11:25 9778 May 06 05:38 9778 May 27 16:31 9778 Sep 08 10:35 9778 Nov 07 22:51 9778 Nov 09 11:06 9779 Jan 07 22:04	9°Y00'19 26°Y17'28 21°Y24'28 21°Y11'57 16°Y24'29 0°8 4°8'26'59 6°8'49'11 7°8'20'45 10°8'14'33 15°8'28'833'38 23°8'39'39 23°8'27'55 18°8'41'28	4.33912 AU 6.26007 AU -0°26'26 0°26'38
conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition  direct  evening set  conjunction	9771 Oct 02 19:40 9771 Oct 09 01:28 9771 Oct 16 10:56 9771 Oct 16 10:55 9771 Oct 18 23:23 9771 Oct 30 03:06 9771 Dec 15 21:59 9772 Mar 05 15:57 9772 May 03 00:13 9772 May 04 12:36 9772 Jul 02 21:07 9772 Jul 02 21:07 9772 Jul 28 04:57 9772 Oct 26 03:14 9772 Nov 06 06:42	28° \$\to 33'06 0° \$\mathbb{M}\$ 1° \$\mathbb{M}\$ 43'11 2° \$\mathbb{M}\$ 18'19 4° \$\mathbb{M}\$ 53'24 15° \$\mathbb{M}\$ 24° \$\mathbb{M}\$ 01'24 19° \$\mathbb{M}\$ 10'09 18° \$\mathbb{M}\$ 57'53 15° \$\mathbb{M}\$ 13° \$\mathbb{M}\$ 58'40 15° \$\mathbb{M}\$ 2° \$\star* 27'36 5° \$\tangle 29'00	0°22'42 6.09008 AU 4.17441 AU 0°49'02	behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33 9778 Mar 21 12:16 9778 Apr 10 16:42 9778 Apr 21 03:53 9778 Apr 23 11:26 9778 Apr 23 11:25 9778 May 06 05:38 9778 May 27 16:31 9778 Sep 08 10:35 9778 Nov 07 22:51 9778 Nov 09 11:06 9779 Jan 07 22:04 9779 Apr 10 00:20	9°Υ00'19 26°Υ17'28 21°Υ24'28 21°Υ11'57 16°Υ24'29 0°℧ 4°℧26'59 6°℧49'11 7°℧20'45 10°℧14'33 15°℧ 28°℧33'38 23°℧39'39 23°℧27'55 18°℧41'28 0°Ⅱ	4.33912 AU 6.26007 AU -0°26'26 0°26'38
conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition  direct  evening set  conjunction minimum elong	9771 Oct 02 19:40 9771 Oct 09 01:28  9771 Oct 16 10:56 9771 Oct 16 10:55 9771 Oct 18 23:23 9771 Oct 30 03:06 9771 Dec 15 21:59 9772 Mar 05 15:57 9772 May 04 12:36 9772 Jun 07 20:47 9772 Jul 02 21:07 9772 Jul 28 04:57 9772 Oct 26 03:14 9772 Nov 06 06:42  9772 Nov 19 19:18 9772 Nov 19 19:17	28° \$\to 33'06\ 0° \$\mathbb{M}\$.  1° \$\mathbb{M}\$.43'11\ 2° \$\mathbb{M}\$.83'24\ 15° \$\mathbb{M}\$.  24° \$\mathbb{M}\$.01'24\ 19° \$\mathbb{M}\$.07'53\ 15° \$\mathbb{M}\$.  13° \$\mathbb{M}\$.58'40\ 15° \$\mathbb{M}\$.  0° \$A\$ 2° \$A\$'27'36\ 5° \$A\$'28'59	0°22'42 6.09008 AU 4.17441 AU 0°49'02 0°40'28 0°40'48	behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33 9778 Mar 21 12:16 9778 Apr 10 16:42 9778 Apr 21 03:53 9778 Apr 23 11:26 9778 Apr 23 11:25 9778 May 06 05:38 9778 May 27 16:31 9778 Sep 08 10:35 9778 Nov 07 22:51 9778 Nov 09 11:06 9779 Jan 07 22:04 9779 Apr 10 00:20 9779 May 13 18:14	9°Y00'19 26°Y17'28 21°Y24'28 21°Y11'57 16°Y24'29 0°8 4°8'26'59 6°8'49'11 7°8'20'46 7°8'20'45 10°8'14'33 15°8 28°8'33'38 23°8'39'39 23°8'27'55 18°8'41'28 0°Π 7°Π34'24	4.33912 AU 6.26007 AU -0°26'26 0°26'38 -0°52'46 4.17425 AU
conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition  direct  evening set  conjunction minimum elong max. Earth dist.	9771 Oct 02 19:40 9771 Oct 09 01:28  9771 Oct 16 10:56 9771 Oct 16 10:55 9771 Oct 18 23:23 9771 Oct 30 03:06 9771 Dec 15 21:59 9772 Mar 05 15:57 9772 May 04 12:36 9772 Jun 07 20:47 9772 Jul 02 21:07 9772 Jul 28 04:57 9772 Oct 26 03:14 9772 Nov 06 06:42  9772 Nov 19 19:18 9772 Nov 19 19:17 9772 Nov 21 17:22	28° \$\to 33'06 0° \$\mathbb{M}\$.  1° \$\mathbb{M}\$.43'11 2° \$\mathbb{M}\$.83'24 15° \$\mathbb{M}\$. 24° \$\mathbb{M}\$.01'24 19° \$\mathbb{M}\$.57'53 15° \$\mathbb{M}\$. 13° \$\mathbb{M}\$.58'40 15° \$\mathbb{M}\$. 0° \$\mathscr{A}\$. 2° \$\mathscr{A}\$'27'36  5° \$\mathscr{A}\$'29'00 5° \$\mathscr{A}\$'28'59 5° \$\mathscr{A}\$'54'47	0°22'42 6.09008 AU 4.17441 AU 0°49'02	behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33 9778 Mar 21 12:16 9778 Apr 10 16:42 9778 Apr 21 03:53 9778 Apr 23 11:26 9778 Apr 23 11:25 9778 May 06 05:38 9778 May 27 16:31 9778 Sep 08 10:35 9778 Nov 07 22:51 9778 Nov 09 11:06 9779 Jan 07 22:04 9779 Apr 10 00:20	9°Υ00'19 26°Υ17'28 21°Υ24'28 21°Υ11'57 16°Υ24'29 0°℧ 4°℧26'59 6°℧49'11 7°℧20'45 10°℧14'33 15°℧ 28°℧33'38 23°℧39'39 23°℧27'55 18°℧41'28 0°Ⅱ	4.33912 AU 6.26007 AU -0°26'26 0°26'38 -0°52'46 4.17425 AU
conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition  direct  evening set  conjunction minimum elong max. Earth dist. morning rise	9771 Oct 02 19:40 9771 Oct 09 01:28  9771 Oct 16 10:56 9771 Oct 16 10:55 9771 Oct 18 23:23 9771 Oct 30 03:06 9771 Dec 15 21:59 9772 Mar 05 15:57 9772 May 03 00:13 9772 May 04 12:36 9772 Jun 07 20:47 9772 Jul 02 21:07 9772 Jul 28 04:57 9772 Oct 26 03:14 9772 Nov 19 19:18 9772 Nov 19 19:17 9772 Nov 21 17:22 9772 Dec 03 07:32	28° \$\Omega\$ 33'06 0° \$\mathbb{m}\$.  1° \$\mathbb{m}\$.43'11 2° \$\mathbb{m}\$.18'19 4° \$\mathbb{m}\$.53'24 15° \$\mathbb{m}\$.24° \$\mathbb{m}\$.0'09 18° \$\mathbb{m}\$.57'53 15° \$\mathbb{m}\$.13° \$\mathbb{m}\$.57'53 15° \$\mathbb{m}\$.13° \$\mathbb{m}\$.58'40 15° \$\mathbb{m}\$.2° \$\star*27'36  5° \$\star*29'00 5° \$\star*28'59 5° \$\star*28'59 5° \$\star*28'59	0°22'42 6.09008 AU 4.17441 AU 0°49'02 0°40'28 0°40'48	behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct evening set max. Earth dist.	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33 9778 Mar 21 12:16 9778 Apr 10 16:42 9778 Apr 21 03:53 9778 Apr 23 11:26 9778 Apr 23 11:25 9778 May 06 05:38 9778 May 27 16:31 9778 Sep 08 10:35 9778 Nov 07 22:51 9778 Nov 09 11:06 9779 Jan 07 22:04 9779 Apr 10 00:20 9779 May 13 18:14 9779 May 24 21:20	9°Y00'19 26°Y17'28 21°Y24'28 21°Y11'57 16°Y24'29 0°8 4°826'59 6°849'11 7°820'45 10°814'33 15°8 28°833'38 23°839'39 23°827'55 18°841'28 0°II 7°II34'24 10°II11'30	4.33912 AU 6.26007 AU -0°26'26 0°26'38 -0°52'46 4.17425 AU 6.09018 AU
conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition  direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	9771 Oct 02 19:40 9771 Oct 09 01:28  9771 Oct 16 10:56 9771 Oct 16 10:55 9771 Oct 18 23:23 9771 Oct 30 03:06 9771 Dec 15 21:59 9772 May 03 00:13 9772 May 04 12:36 9772 Jun 07 20:47 9772 Jul 02 21:07 9772 Jul 28 04:57 9772 Oct 26 03:14 9772 Nov 19 19:18 9772 Nov 19 19:17 9772 Nov 21 17:22 9772 Dec 03 07:32 9773 Apr 06 14:34	28° \$\to 33'06 0° \$\mathbb{M}\$.  1° \$\mathbb{M}\$.43'11 2° \$\mathbb{M}\$.18'19 4° \$\mathbb{M}\$.53'24 15° \$\mathbb{M}\$.24° \$\mathbb{M}\$.01'24 19° \$\mathbb{M}\$.10'09 18° \$\mathbb{M}\$.57'53 15° \$\mathbb{M}\$.13° \$\mathbb{M}\$.58'40 15° \$\mathbb{M}\$.20' \$\sqrt{2}\$.27'36  5° \$\sqrt{2}\$.29'50 26° \$\sqrt{2}\$.25'27	0°22'42 6.09008 AU 4.17441 AU 0°49'02 0°40'28 0°40'48 6.26029 AU	behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33 9778 Mar 21 12:16 9778 Apr 10 16:42 9778 Apr 21 03:53 9778 Apr 23 11:26 9778 Apr 23 11:25 9778 May 06 05:38 9778 May 27 16:31 9778 Sep 08 10:35 9778 Nov 07 22:51 9778 Nov 09 11:06 9779 Jan 07 22:04 9779 May 13 18:14 9779 May 24 21:20	9°Y00'19 26°Y17'28 21°Y24'28 21°Y11'57 16°Y24'29 0°8 4°8'26'59 6°8'49'11 7°8'20'46 7°8'20'45 10°8'14'33 15°8 28°8'33'38 23°8'27'55 18°8'41'28 0°11 7°134'24 10°111'30	4.33912 AU 6.26007 AU -0°26'26 0°26'38 -0°52'46 4.17425 AU 6.09018 AU -0°42'01
conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition  direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	9771 Oct 02 19:40 9771 Oct 09 01:28  9771 Oct 16 10:56 9771 Oct 16 10:55 9771 Oct 18 23:23 9771 Oct 18 23:23 9771 Oct 30 03:06 9771 Dec 15 21:59 9772 May 03 00:13 9772 May 04 12:36 9772 Jun 07 20:47 9772 Jul 02 21:07 9772 Jul 28 04:57 9772 Oct 26 03:14 9772 Nov 06 06:42  9772 Nov 19 19:18 9772 Nov 19 19:17 9772 Nov 21 17:22 9772 Dec 03 07:32 9773 Apr 06 14:34 9773 Jun 05 20:53	28° \$\textit{\Omega} 33'06 0° \$\textit{\mathbb{m}}.43'11 1° \$\textit{\mathbb{m}}.43'11 2° \$\textit{\mathbb{m}}.18'19 4° \$\textit{\mathbb{m}}.53'24 15° \$\textit{\mathbb{m}}.10'09 18° \$\textit{\mathbb{m}}.57'53 15° \$\textit{\mathbb{m}}.8'40 15° \$\textit{\mathbb{m}}.8'8'40 15° \$\textit{\mathbb{m}}.28'40 15° \$\textit{\mathbb{m}}.28'40 15° \$\textit{\mathbb{m}}.28'40 15° \$\textit{\mathbb{m}}.28'40 15° \$\textit{\mathbb{m}}.28'40 20' \$\textit{\mathbb{m}}.28'59 5° \$\textit{\mathbb{m}}.29'50 26° \$\textit{\mathbb{m}}.29'50 26° \$\textit{\mathbb{m}}.25'27 21° \$\textit{\mathbb{m}}.24'36	0°22'42 6.09008 AU 4.17441 AU 0°49'02 0°40'28 0°40'48 6.26029 AU 1°05'07	behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction min. Earth dist.	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33 9778 Mar 21 12:16 9778 Apr 10 16:42 9778 Apr 21 03:53 9778 Apr 23 11:26 9778 Apr 23 11:25 9778 May 06 05:38 9778 May 27 16:31 9778 Sep 08 10:35 9778 Nov 07 22:51 9778 Nov 09 11:06 9779 Jan 07 22:04 9779 Apr 10 00:20 9779 May 13 18:14 9779 May 26 14:56 9779 May 26 14:56	9°Y00'19 26°Y17'28 21°Y24'28 21°Y11'57 16°Y24'29 0°8 4°8'26'59 6°8'49'11 7°8'20'45 10°8'14'33 15°8 28°8'33'38 23°8'39'39 23°8'27'55 18°8'41'28 0°П 7°П34'24 10°П11'30 10°П36'03 10°П36'03	4.33912 AU 6.26007 AU -0°26'26 0°26'38 -0°52'46 4.17425 AU 6.09018 AU
conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition  direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	9771 Oct 02 19:40 9771 Oct 09 01:28  9771 Oct 16 10:56 9771 Oct 16 10:55 9771 Oct 18 23:23 9771 Oct 18 23:23 9771 Oct 30 03:06 9771 Dec 15 21:59 9772 Mar 05 15:57 9772 May 04 12:36 9772 Jun 07 20:47 9772 Jul 02 21:07 9772 Jul 28 04:57 9772 Oct 26 03:14 9772 Nov 06 06:42  9772 Nov 19 19:18 9772 Nov 19 19:17 9772 Dec 03 07:32 9773 Apr 06 14:34 9773 Jun 05 20:53 9773 Jun 04 22:28	28° \$\to 33'06 0° \$\mathbb{m}\$.  1° \$\mathbb{m}\$.43'11 2° \$\mathbb{m}\$.18'19 4° \$\mathbb{m}\$.53'24 15° \$\mathbb{m}\$. 24° \$\mathbb{m}\$.01'24 19° \$\mathbb{m}\$.10'09 18° \$\mathbb{m}\$.57'53 15° \$\mathbb{m}\$. 13° \$\mathbb{m}\$.58'40 15° \$\mathbb{m}\$. 2° \$\stackled{x}\$.27'36  5° \$\tall\$ 29'50 5° \$\tall\$ 29'50 26° \$\tall\$ 25'27 21° \$\tall\$ 24'36 21° \$\tall\$ 32'03	0°22'42 6.09008 AU 4.17441 AU 0°49'02 0°40'28 0°40'48 6.26029 AU	behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33 9778 Mar 21 12:16 9778 Apr 10 16:42 9778 Apr 21 03:53  9778 Apr 23 11:26 9778 Apr 23 11:25 9778 May 06 05:38 9778 May 27 16:31 9778 Sep 08 10:35 9778 Nov 07 22:51 9778 Nov 09 11:06 9779 Jan 07 22:04 9779 Apr 10 00:20 9779 May 13 18:14 9779 May 26 14:56 9779 May 26 14:56 9779 Jun 08 12:06	9°Y00'19 26°Y17'28 21°Y24'28 21°Y11'57 16°Y24'29 0°8 4°8'26'59 6°8'49'11 7°8'20'45 10°8'14'33 15°8 28°8'33'38 23°8'39'39 23°8'27'55 18°8'41'28 0°11 7°134'24 10°111'30 10°136'03 10°136'03 13°138'20	4.33912 AU 6.26007 AU -0°26'26 0°26'38 -0°52'46 4.17425 AU 6.09018 AU -0°42'01
conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition  direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	9771 Oct 02 19:40 9771 Oct 09 01:28  9771 Oct 16 10:56 9771 Oct 16 10:55 9771 Oct 18 23:23 9771 Oct 18 23:23 9771 Oct 30 03:06 9771 Dec 15 21:59 9772 May 03 00:13 9772 May 04 12:36 9772 Jun 07 20:47 9772 Jul 02 21:07 9772 Jul 28 04:57 9772 Oct 26 03:14 9772 Nov 06 06:42  9772 Nov 19 19:18 9772 Nov 19 19:17 9772 Nov 21 17:22 9772 Dec 03 07:32 9773 Apr 06 14:34 9773 Jun 05 20:53	28° \$\to 33'06 0° \$\mathbb{M}\$  1° \$\mathbb{M}\$ 43'11 2° \$\mathbb{M}\$ 18'19 4° \$\mathbb{M}\$ 53'24 15° \$\mathbb{M}\$ 24° \$\mathbb{M}\$ 01'24 19° \$\mathbb{M}\$ 10'09 18° \$\mathbb{M}\$ 57'53 15° \$\mathbb{M}\$ 13° \$\mathbb{M}\$ 58'40 15° \$\mathbb{M}\$ 2° \$\mathbb{Z}\$ 27'36  5° \$\mathbb{Z}\$ 29'00 5° \$\mathbb{Z}\$ 28'59 5° \$\mathbb{Z}\$ 28'59 5° \$\mathbb{Z}\$ 28'59 26° \$\mathbb{Z}\$ 25'27 21° \$\mathbb{Z}\$ 24'36 21° \$\mathbb{Z}\$ 32'03 16° \$\mathbb{Z}\$ 23'52	0°22'42 6.09008 AU 4.17441 AU 0°49'02 0°40'28 0°40'48 6.26029 AU 1°05'07	behind sun end morning rise retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist. conjunction min Earth dist. direct	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33 9778 Mar 21 12:16 9778 Apr 10 16:42 9778 Apr 21 03:53 9778 Apr 23 11:26 9778 Apr 23 11:25 9778 May 06 05:38 9778 May 27 16:31 9778 Sep 08 10:35 9778 Nov 07 22:51 9778 Nov 09 11:06 9779 Jan 07 22:04 9779 Apr 10 00:20 9779 May 13 18:14 9779 May 26 14:56 9779 May 26 14:56	9°Y00'19 26°Y17'28 21°Y24'28 21°Y11'57 16°Y24'29 0°8 4°8'26'59 6°8'49'11 7°8'20'45 10°8'14'33 15°8 28°8'33'38 23°8'39'39 23°8'27'55 18°8'41'28 0°П 7°П34'24 10°П11'30 10°П36'03 10°П36'03	4.33912 AU 6.26007 AU -0°26'26 0°26'38 -0°52'46 4.17425 AU 6.09018 AU -0°42'01
conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition  direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	9771 Oct 02 19:40 9771 Oct 09 01:28  9771 Oct 16 10:56 9771 Oct 16 10:55 9771 Oct 18 23:23 9771 Oct 30 03:06 9771 Dec 15 21:59 9772 Mar 05 15:57 9772 May 04 12:36 9772 Jun 07 20:47 9772 Jul 02 21:07 9772 Jul 02 21:07 9772 Jul 28 04:57 9772 Oct 26 03:14 9772 Nov 19 19:18 9772 Nov 19 19:17 9772 Nov 19 19:17 9772 Nov 21 17:22 9772 Dec 03 07:32 9773 Apr 06 14:34 9773 Jun 05 20:53 9773 Jun 04 22:28 9773 Aug 05 14:01	28° \$\to 33'06 0° \$\mathbb{m}\$.  1° \$\mathbb{m}\$.43'11 2° \$\mathbb{m}\$.18'19 4° \$\mathbb{m}\$.53'24 15° \$\mathbb{m}\$. 24° \$\mathbb{m}\$.01'24 19° \$\mathbb{m}\$.10'09 18° \$\mathbb{m}\$.57'53 15° \$\mathbb{m}\$. 13° \$\mathbb{m}\$.58'40 15° \$\mathbb{m}\$. 2° \$\stackled{x}\$.27'36  5° \$\tall\$ 29'50 5° \$\tall\$ 29'50 26° \$\tall\$ 25'27 21° \$\tall\$ 24'36 21° \$\tall\$ 32'03	0°22'42 6.09008 AU 4.17441 AU 0°49'02 0°40'28 0°40'48 6.26029 AU 1°05'07	behind sun end morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction min. Earth dist.	9777 Apr 05 00:35 9777 Aug 05 07:18 9777 Oct 05 05:09 9777 Oct 06 20:17 9777 Dec 06 06:33 9778 Mar 21 12:16 9778 Apr 10 16:42 9778 Apr 21 03:53  9778 Apr 23 11:26 9778 Apr 23 11:25 9778 May 06 05:38 9778 May 27 16:31 9778 Sep 08 10:35 9778 Nov 07 22:51 9778 Nov 09 11:06 9779 Jan 07 22:04 9779 Apr 10 00:20 9779 May 13 18:14 9779 May 26 14:56 9779 May 26 14:56 9779 Jun 08 12:06 9779 Aug 30 04:42	9°Y00'19 26°Y17'28 21°Y24'28 21°Y11'57 16°Y24'29 0°8 4°8'26'59 6°8'49'11 7°8'20'45 10°8'14'33 15°8 28°8'33'38 23°8'39'39 23°8'27'55 18°8'41'28 0°11 7°134'24 10°111'30 10°136'03 13°138'20 0°9	4.33912 AU 6.26007 AU -0°26'26 0°26'38 -0°52'46 4.17425 AU 6.09018 AU -0°42'01

opposition	9779 Dec 14 04:37	28° <b>Ⅱ</b> 16'54	-1°07'20	evening set	9785 Dec 13 22:41	8° <b>る</b> 33'10	
min. Earth dist.	9779 Dec 15 00:20	28° <b>Ⅲ</b> 10′25	4.01351 AU				
direct	9780 Feb 11 17:06	23° <b>Ⅱ</b> 20'59		conjunction	9785 Dec 27 05:56	11° <b>る</b> 25'43	0°44'39
	9780 Apr 18 10:16	$0$ $\circ$		minimum elong	9785 Dec 27 05:56	11° <b>る</b> 25'43	0°45'02
evening set	9780 Jun 17 03:18	13° <b>©</b> 02'44		max. Earth dist.	9785 Dec 27 22:33	11° <b>පි</b> 34'43	6.42279 AU
				morning rise	9786 Jan 09 11:42	14° <b>る</b> 17'20	
conjunction	9780 Jun 30 05:00	16°©12'53	-0°43'21		9786 Apr 12 14:36	0° <b>≈</b>	
minimum elong	9780 Jun 30 05:01	16° <b>©</b> 12'53	0°43'44	retrograde	9786 May 11 00:30	1° <b>≈</b> 14'13	
max. Earth dist.	9780 Jun 29 16:17	16° <b>©</b> 05'09	5.95359 AU		9786 Jun 08 05:56	30°Rる	
morning rise	9780 Jul 13 08:42	19° <b>5</b> 24'16		opposition	9786 Jul 10 17:15	26° <b>ප</b> 17'09	0°59'55
	9780 Aug 28 23:27	$0^{\circ}\Omega$		min. Earth dist.	9786 Jul 10 15:45	26° <b>る</b> 17'39	4.47002 AU
retrograde	9780 Nov 21 18:26	10° <b>Ω</b> 00′23		direct	9786 Sep 10 16:53	21° <b>る</b> 15'45	
opposition	9781 Jan 20 08:05	5° <b>Ω</b> 01'12	-0°56'33		9786 Dec 02 18:21	0° <b>≈</b>	
min. Earth dist.	9781 Jan 20 02:49	5° <b>Ω</b> 02'58	3.91587 AU	evening set	9787 Jan 14 02:04	8° <b>≈</b> 28'52	
direct	9781 Mar 19 16:38	0° <b>Ω</b> 06'31		•			
	9781 Jul 02 13:30	15° <b>Ω</b>		conjunction	9787 Jan 27 04:29	11° <b>≈</b> 16'37	0°35'05
evening set	9781 Jul 24 12:22	20° <b>Ω</b> 14'07		minimum elong	9787 Jan 27 04:30	11° <b>≈</b> 16'38	0°35'22
<b>3</b>				max. Earth dist.	9787 Jan 26 16:31	11° <b>≈</b> 10'14	6.49750 AU
conjunction	9781 Aug 06 21:17	23°Ω29'59	-0°27'35	morning rise	9787 Feb 09 04:46	14°≈03'20	0.15,00110
minimum elong	9781 Aug 06 21:18	23°Ω30'00		morning rise	9787 Feb 13 15:47	15° <b>≈</b>	
max. Earth dist.	9781 Aug 07 23:21	23°Ω45'56	5.90506 AU		9787 May 20 07:26	0° <b>∀</b>	
morning rise	9781 Aug 20 08:29	26° <b>Ω</b> 47'08	3.70300 110	retrograde	9787 Jun 09 14:05	0° <b>)</b> 38′02	
morning risc	9781 Sep 02 17:51	0° M)		retrograde	9787 Jun 29 19:40	0 7€3802 30°R≈	
retrograde	9781 Dec 30 10:31	0 my 17° my 38′07		opposition	9787 Aug 09 13:47	25°≈43'32	0°38'46
•			0922105	min. Earth dist.	•	25°≈38'06	4.50381 AU
opposition	9782 Feb 27 18:56	12° Mp 35'39			9787 Aug 10 06:43		4.30381 AU
min. Earth dist.	9782 Feb 26 15:56	12° Mp 44'48	3.92303 AU	direct	9787 Oct 11 03:38	20°≈42'04	
direct	9782 Apr 26 17:36	7° Mp 40'23			9788 Jan 05 12:38	0° <b>)</b> (51112	
evening set	9782 Aug 31 15:26	27° m/36'29		evening set	9788 Feb 13 07:41	7° <b>)</b> 51'13	C 407/0 ATT
	9782 Sep 10 15:05	0∘ <b>⊽</b>		max. Earth dist.	9788 Feb 24 17:12	10° A 1/33	6.48768 AU
	0702 0 14 05 20	00.0 51155	0000120		0700 F 1 26 05 56	100\/27142	001 (107
conjunction	9782 Sep 14 05:38	0° <b>£</b> 51'55		conjunction	9788 Feb 26 05:56	10° <b>)</b> € 37'42	
minimum elong	9782 Sep 14 05:37	0° <b>£</b> 51'55	0°00'39	minimum elong	9788 Feb 26 05:56	10° <b>)</b> € 37'42	0°16'37
behind sun begin	9782 Sep 13 21:14	0° <b>≏</b> 46'55		morning rise	9788 Mar 10 02:02	13° <b>∺</b> 23'17	
behind sun end	9782 Sep 14 14:00	0° <b>£</b> 56'55			9788 Jun 30 10:10	0° <b>Υ</b>	
max. Earth dist.	9782 Sep 16 11:31	1° <b>≏</b> 24'14	5.96656 AU	retrograde	9788 Jul 08 20:12	0° <b>Y</b> 06'34	
asc. node	9782 Sep 23 01:13	2° <b>≏</b> 58'39			9788 Jul 17 05:28	30° <b>₹</b>	
morning rise	9782 Sep 27 21:48	4° <b>ჲ</b> 08'09		opposition	9788 Sep 07 21:13	25° <b>∺</b> 13'28	0°07'37
retrograde	9783 Feb 05 04:38	24° <b>≏</b> 18'24		min. Earth dist.	9788 Sep 09 06:05	25° <b>)</b> 02′59	4.45109 AU
min. Earth dist.	9783 Apr 04 02:34	19° <b>≏</b> 27'23	4.03167 AU	direct	9788 Nov 09 12:06	20° <b>升</b> 12'31	
opposition	9783 Apr 05 17:14	19° <b>≙</b> 14'15	0°20'15	desc. node	9788 Dec 03 08:55	21° <b>)</b> €02'59	
direct	9783 Jun 03 02:49	14° <b>≙</b> 16'55			9789 Feb 05 16:07	$0$ ° $\mathbf{\Upsilon}$	
	9783 Sep 22 09:39	0° <b>M</b> ₊		evening set	9789 Mar 14 15:00	7° <b>Ƴ</b> 40'19	
evening set	9783 Oct 07 20:52	3°ML31'17		max. Earth dist.	9789 Mar 25 04:39	9° <b>Y</b> 59'32	6.39498 AU
conjunction	9783 Oct 21 11:57	6°M₊40'21	0°25'44	conjunction	9789 Mar 27 10:23	10° <b>Y</b> 29′08	
minimum elong	9783 Oct 21 11:55	6°M40′20	0°25'56	minimum elong	9789 Mar 27 10:23	10° <b>Y</b> 29′08	0°06'55
max. Earth dist.	9783 Oct 23 22:21	7° <b>M</b> ₊14'09	6.11098 AU	behind sun begin	9789 Mar 27 02:58	10° <b>Y</b> 25′05	
morning rise	9783 Nov 04 03:52	9° <b>M</b> 49'28		behind sun end	9789 Mar 27 17:47	10° <b>Ƴ</b> 33'12	
	9783 Nov 27 06:10	15°M		morning rise	9789 Apr 09 04:26	13° <b>Ƴ</b> 17'30	
retrograde	9784 Mar 10 06:36	28° <b>M</b> ₊47'49			9789 Jul 19 23:31	$9^{\circ}$ 8	
min. Earth dist.	9784 May 07 17:37	23°M56'07	4.19614 AU	retrograde	9789 Aug 09 18:34	0° <b>႘</b> 39'58	
opposition	9784 May 09 03:52	23°M44'35	0°52'28		9789 Aug 30 12:02	30° <b>ŖƳ</b>	
direct	9784 Jul 07 17:20	18°ML45'07		opposition	9789 Oct 09 15:17	25° <b>Ƴ</b> 46'52	-0°26'56
	9784 Oct 08 16:40	0° <b>∡</b> 7		min. Earth dist.	9789 Oct 11 07:11	25° <b>Ƴ</b> 34'04	4.32337 AU
evening set	9784 Nov 11 00:57	7° <b>₰</b> 07'54		direct	9789 Dec 10 14:49	20° <b>Ƴ</b> 47'01	
					9790 Mar 04 04:55	$8^{\circ}$	
conjunction	9784 Nov 24 13:12	10° <b>∡</b> 08'13	0°41'56	evening set	9790 Apr 15 00:14	8° <b>8</b> 54'12	
minimum elong	9784 Nov 24 13:11	10° <b>∡</b> °08′13	0°42'16	max. Earth dist.	9790 Apr 25 12:36	11° <b>8</b> 17'38	6.24121 AU
max. Earth dist.	9784 Nov 26 09:52	10° <b>х</b> ³33′06	6.28134 AU				
morning rise	9784 Dec 08 00:38	13° <b>∡</b> 07'53		conjunction	9790 Apr 27 19:08	11° <b>8</b> 48'46	-0°29'03
-	9785 Mar 17 17:51	0°ರ		minimum elong	9790 Apr 27 19:07	11° <b>8</b> 48'45	0°29'17
retrograde	9785 Apr 10 21:14	0° <b>る</b> 55'14		morning rise	9790 May 10 13:20	14° <b>8</b> 43'21	
	9785 May 04 21:50	30°R <b>✓</b>		-	9790 May 11 18:40	15° <b>8</b>	
min. Earth dist.	9785 Jun 09 08:28	26° <b>∡</b> *01'57	4.35804 AU		9790 Jul 29 00:03	$\Pi^{\circ}0$	
opposition	9785 Jun 10 05:47	25° <b>₹</b> '54'54	1°05'46	retrograde	9790 Sep 13 03:35	3° <b>Ⅱ</b> 11′00	
direct	9785 Aug 10 01:40	20° <b>∡</b> 54′07		=	9790 Oct 30 01:27	30° <b>₹</b> 8	
	9785 Nov 01 23:53	0°ರ		opposition	9790 Nov 12 15:22	28° <b>8</b> 16'51	-0°55'47

min. Earth dist.	9790 Nov 14 02:41	28° <b>8</b> 05'25	4.15352 AU	opposition	9796 May 13 20:13	28°M34'53	0°55'30
direct	9791 Jan 12 10:02	23° <b>8</b> 18'57		direct	9796 Jul 12 13:17	23°M35'09	0 22 20
	9791 Mar 21 14:54	0°II			9796 Sep 18 00:24	0° <b>⊼</b> ¹	
evening set	9791 May 18 08:11	12° <b>Ⅱ</b> 18′23		evening set	9796 Nov 15 20:22	11° <b>₹</b> 51'34	
max. Earth dist.	9791 May 29 12:44	14° <b>∏</b> 57'08	6.06920 AU	Ü			
	•			conjunction	9796 Nov 29 07:49	14° <b>₹</b> 50'41	0°43'05
conjunction	9791 May 31 05:13	15° <b>Ⅲ</b> 21′08	-0°43'06	minimum elong	9796 Nov 29 07:48	14° <b>₹</b> 50'40	0°43'27
minimum elong	9791 May 31 05:12	15° <b>Ⅱ</b> 21'08	0°43'28	max. Earth dist.	9796 Dec 01 00:40	15° <b>∡</b> 13′20	6.30258 AU
morning rise	9791 Jun 13 03:11	18° <b>Ⅱ</b> 24'39		morning rise	9796 Dec 12 18:39	17° <b>х</b> 49'08	
	9791 Aug 05 03:45	$0$ $\circ$ $\odot$			9797 Feb 12 10:39	5°0	
retrograde	9791 Oct 20 05:37	8° <b>©</b> 09'11		retrograde	9797 Apr 15 05:55	5° <b>る</b> 27'57	
opposition	9791 Dec 19 04:27	3° <b>©</b> 12'47		opposition	9797 Jun 14 15:44	0° <b>る</b> 27'55	1°05'57
min. Earth dist.	9791 Dec 19 21:42	3° <b>©</b> 07'06	3.99404 AU	min. Earth dist.	9797 Jun 13 21:11	0° <b>る</b> 34'02	4.37750 AU
	9792 Jan 14 19:04	30°RⅡ			9797 Jun 18 04:23	30°₽ <b>✓</b>	
direct	9792 Feb 16 13:04	28° <b>Ⅱ</b> 17'01		direct	9797 Aug 14 17:06	25° <b>₹</b> 26'53	
. ,	9792 Mar 19 23:46	0°9		. ,	9797 Oct 10 17:16	0°る	
evening set	9792 Jun 22 00:42	18° <b>©</b> 05'02		evening set	9797 Dec 18 10:58	13° <b>る</b> 00'42	
conjunction	9792 Jul 05 03:34	21° <b>©</b> 16'25	-0°42'11	conjunction	9797 Dec 31 17:38	15° <b>る</b> 52'20	0°43'56
minimum elong	9792 Jul 05 03:35	21°516'26	0°42'33	minimum elong	9797 Dec 31 17:38	15° <b>る</b> 52'21	0°44'19
max. Earth dist.	9792 Jul 04 20:07		5.93770 AU	max. Earth dist.	9798 Jan 01 07:59	16° <b>පි</b> 00'05	6.43884 AU
morning rise	9792 Jul 18 08:12	24°529'02		morning rise	9798 Jan 13 22:24	18° <b>る</b> 42'57	
S	9792 Aug 10 14:44	$0^{\circ}\Omega$		C	9798 Mar 13 03:23	0° <b>≈</b>	
	9792 Nov 15 23:06	15° <b>Ω</b>		retrograde	9798 May 15 03:28	5° <b>≈</b> 34'18	
retrograde	9792 Nov 27 02:01	15° <b>Ω</b> 12'15		opposition	9798 Jul 14 22:57	0° <b>≈</b> 37'33	0°57'40
	9792 Dec 08 03:28	15°R <b>Ω</b>		min. Earth dist.	9798 Jul 14 23:07	0° <b>≈</b> 37'30	4.48144 AU
opposition	9793 Jan 25 12:59	10° <b>Ω</b> 12'40	-0°53'05		9798 Jul 19 19:05	30°Rる	
min. Earth dist.	9793 Jan 25 05:37		3.90538 AU	direct	9798 Sep 15 01:03	25° <b>る</b> 36'03	
direct	9793 Mar 24 18:20	5° <b>Ω</b> 18′02			9798 Nov 10 18:49	0° <b>≈</b>	
	9793 Jun 14 00:41	15° <b>Ω</b>		evening set	9799 Jan 18 09:28	12° <b>≈</b> 46′32	
evening set	9793 Jul 29 16:18	25° <b>Ω</b> 28'39			9799 Jan 28 19:55	15° <b>≈</b>	
conjunction	9793 Aug 12 02:09	28° <b>Ω</b> 45'12	-0°24'22	conjunction	9799 Jan 31 11:06	15° <b>≈</b> 33'47	0°32'51
minimum elong	9793 Aug 12 02:10	28°Ω45'13		minimum elong	9799 Jan 31 11:07	15° <b>≈</b> 33'47	0°33'09
max. Earth dist.	9793 Aug 13 07:46	29° <b>Ω</b> 03'19	5.90097 AU	max. Earth dist.	9799 Jan 30 18:47	15° <b>≈</b> 25'04	6.50326 AU
	9793 Aug 17 04:30	0° <b>m</b> y		morning rise	9799 Feb 13 10:44	18° <b>≈</b> 20'01	
morning rise	9793 Aug 25 14:31	2°m/03'03			9799 Apr 15 20:44	0° <b>)</b> €	
retrograde	9794 Jan 04 15:22	22° <b>m</b> 54'14		retrograde	9799 Jun 13 19:13	4° <b>)</b> 53′20	
opposition	9794 Mar 04 23:22	17° <b>m</b> 51'26	-0°16'22	opposition	9799 Aug 13 19:06	29° <b>≈</b> 59'06	0°34'47
min. Earth dist.	9794 Mar 03 17:09	18° <b>m</b> 01'42	3.92602 AU		9799 Aug 13 16:16	30° <b>₹</b> ≈	
direct	9794 May 01 20:43	12° <b>m</b> 55'57		min. Earth dist.	9799 Aug 14 15:28	29° <b>≈</b> 52'34	4.50340 AU
asc. node	9794 Aug 03 15:43	25° Mp 11'21		direct	9799 Oct 15 11:27	24° <b>≈</b> 57'37	
	9794 Aug 24 20:29	0∘ <b>⊽</b>		_	9799 Dec 15 16:36	0° <b>∀</b>	
evening set	9794 Sep 05 21:19	2° <b>≏</b> 50′28		evening set	9800 Feb 17 13:08	12° <b>)</b> €07'21	< 1000 <b>2</b> 177
	07046 10 11 50	60 <b>0</b> 05141	0002121	max. Earth dist.	9800 Feb 28 18:12	14° <b>)</b> 31'57	6.48092 AU
conjunction	9794 Sep 19 11:59 9794 Sep 19 11:59	6° <b>Ω</b> 05'41	0°03'21 0°03'21	· · · · · · · · · ·	9800 Mar 02 10:51	14° <b>)</b> 53′52	0012110
minimum elong behind sun begin	9794 Sep 19 11:39 9794 Sep 19 03:39	6° <b>Ω</b> 05'40 6° <b>Ω</b> 00'43	0 03 21	conjunction minimum elong	9800 Mar 02 10:51	14 <b>X</b> 53 52 14° <b>X</b> 53'52	
behind sun end	9794 Sep 19 03:39 9794 Sep 19 20:19	6° <b>£</b> 10'38		behind sun begin	9800 Mar 02 10:31 9800 Mar 02 06:21	14° <b>X</b> 53'32	0 1327
max. Earth dist.	9794 Sep 21 19:25	6° <b>£</b> 38'50	5.97626 AU	behind sun end	9800 Mar 02 15:22	14° <b>)</b> (51'27	
morning rise	9794 Oct 03 04:36	9° <b>£</b> 21'36	0.97020110	morning rise	9800 Mar 15 06:35	17° <b>)</b> 39'33	
retrograde	9795 Feb 10 03:38	29° <b>£</b> 25'29		, , , , , , , , , , , , , , , , , , ,	9800 May 19 08:28	$0^{\circ}\Upsilon$	
min. Earth dist.	9795 Apr 09 02:00	24° <b>£</b> 34′20	4.04676 AU	retrograde	9800 Jul 14 04:00	4° <b>Y</b> 26'03	
opposition	9795 Apr 10 16:39	24° <b>₽</b> 21'12	0°25'35		9800 Sep 09 16:34	30° <b>₹</b> ₩	
direct	9795 Jun 08 05:19	19° <b>≙</b> 23'30		opposition	9800 Sep 13 05:20	29° <b>)</b> 32′57	0°02'45
	9795 Sep 04 01:06	0° <b>M</b> .		min. Earth dist.	9800 Sep 14 15:26	29° <b>)</b> €22'03	4.43834 AU
evening set	9795 Oct 12 23:00	8°M32'42		desc. node	9800 Oct 14 06:28	25° <b>¥</b> 59'38	
				direct	9800 Nov 14 18:48	24° <b>)</b> 32′03	
conjunction	9795 Oct 26 14:07	11°M40'53	0°28'42		9801 Jan 17 06:07	0° <b>Υ</b>	
minimum elong	9795 Oct 26 14:06		0°28'56	evening set	9801 Mar 19 22:21	12° <b>Y</b> 03′54	
max. Earth dist.	9795 Oct 29 01:55	12°ML15'19	6.13012 AU	max. Earth dist.	9801 Mar 30 11:48	14° <b>Y</b> 23'32	6.37707 AU
morning rise	9795 Nov 09 05:34	14°M48'54					
	9795 Nov 10 01:02	15°M		conjunction	9801 Apr 01 17:36	14° <b>Υ</b> 53'19	
	9796 Jan 25 22:48	0°⊀ <b>7</b> 29. <b>₹</b> 2754		minimum elong	9801 Apr 01 17:36	14° <b>Υ</b> 53'18	0°10'16
retrograde	9796 Mar 14 21:19	3° <b>∡</b> 737'54		behind sun begin	9801 Apr 01 11:15	14° <b>Υ</b> 49'49 14° <b>Υ</b> 56'48	
min. Earth dist.	9796 May 03 03:24 9796 May 12 10:11	30°RM 28°M 46'18	4.21731 AU	behind sun end morning rise	9801 Apr 01 23:57 9801 Apr 14 11:21	14°° <b>γ</b> ′56′48 17° <b>Υ</b> 42'16	
mm. Darm dist.	7170 way 12 10.11	20 11640 18	7.21/31 AU	morning rise	7001 Apr 14 11.21	1/ 14210	

	9801 Jun 15 20:40	0° <b>8</b>			9806 Dec 23 05:12	0°M₊	
retrograde	9801 Aug 15 09:36	5° <b>8</b> 12'13		retrograde	9807 Feb 16 02:41	4°M33'56	
opposition	9801 Oct 15 05:36	0° <b>8</b> 19'04			9807 Apr 12 23:21	30° <b>₹</b> Ω	
min. Earth dist.	9801 Oct 16 22:14	_	4.30133 AU	min. Earth dist.	9807 Apr 15 01:30	29° <b>£</b> 43'02	4.07072 AU
T' ·	9801 Oct 17 17:06	30°R <b>Y</b>		opposition	9807 Apr 16 16:49	29° <b>£</b> 29'42	0°30'50
direct	9801 Dec 16 02:13	25° <b>Y</b> 19′27		direct	9807 Jun 14 08:40	24° <b>£</b> 31'45	
	9802 Feb 11 08:16	0° <b>と</b> 13° <b>と</b> 33'29			9807 Aug 13 20:18	0°M	
evening set	9802 Apr 20 13:02	15° <b>8</b>		evening set	9807 Oct 19 00:58 9807 Oct 25 09:50	13°M32'43 15°M	
max. Earth dist.	9802 Apr 26 20:36 9802 May 01 00:44	_	6.21661 AU		9807 Oct 25 09.50	13 116	
max. Lattii uist.	9802 May 01 00.44	13 03/24	0.21001 AU	conjunction	9807 Nov 01 15:32	16°M39'28	0°31'30
conjunction	9802 May 03 07:55	16° <b>8</b> 29'05	-0°31'40	minimum elong	9807 Nov 01 15:31	16°M39'28	0°31'45
minimum elong	9802 May 03 07:53	16° <b>8</b> 29'04		max. Earth dist.	9807 Nov 04 01:02	17°ML12'23	6.15685 AU
morning rise	9802 May 16 02:35	19° <b>8</b> 24'51	0 3100	morning rise	9807 Nov 15 06:35	19°M46'04	0.12002110
	9802 Jul 04 21:01	0°II			9808 Jan 02 14:06	0° <b>∡</b> 7	
retrograde	9802 Sep 19 04:21	8° <b>Ⅱ</b> 03'19		retrograde	9808 Mar 20 09:27	8° <b>≯</b> 23'26	
opposition	9802 Nov 18 14:29	3° <b>Ⅱ</b> 08'53	-0°58'42	min. Earth dist.	9808 May 18 02:25	3° <b>∡</b> ³31'35	4.24425 AU
min. Earth dist.	9802 Nov 19 23:58	2° <b>Ⅱ</b> 58'00	4.12812 AU	opposition	9808 May 19 10:45	3° <b>∡</b> ¹20'44	0°58'08
	9802 Dec 14 21:26	30° <b>₹</b> 8			9808 Jun 15 23:45	30°RM	
direct	9803 Jan 18 04:39	28° <b>8</b> 11'14		direct	9808 Jul 18 09:04	28°M20'45	
	9803 Feb 21 04:53	$\Pi^{\circ}0$			9808 Aug 20 02:29	0° <b>∡</b> ¹	
evening set	9803 May 24 04:43	17° <b>Ⅱ</b> 18'43		evening set	9808 Nov 21 13:13	16° <b>渘</b> ¹29'20	
max. Earth dist.	9803 Jun 04 14:42	20° <b>Ⅱ</b> 01′28	6.04539 AU				
				conjunction	9808 Dec 05 00:07	19° <b>х²</b> 27′09	0°43'58
conjunction	9803 Jun 06 02:34	20° <b>Ⅱ</b> 22'50	-0°43'59	minimum elong	9808 Dec 05 00:07	19° <b>∡</b> ¹27'09	0°44'21
minimum elong	9803 Jun 06 02:33	20° <b>Ⅱ</b> 22'50	0°44'21	max. Earth dist.	9808 Dec 06 14:39	19° <b>∡</b> ⁴48'24	6.32766 AU
morning rise	9803 Jun 19 01:10	23° <b>Ⅱ</b> 27'45		morning rise	9808 Dec 18 09:55	22° <b>∡</b> 24'11	
	9803 Jul 17 09:59	0ංම			9809 Jan 23 18:15	0° <b>ろ</b>	
retrograde	9803 Oct 26 16:29	13°523'08		retrograde	9809 Apr 20 11:15	9° <b>る</b> 53'50	
opposition	9803 Dec 25 11:57	8°926'25		opposition	9809 Jun 19 22:58	4°る54'20	1°05'46
min. Earth dist.	9803 Dec 26 02:48		3.97425 AU	min. Earth dist.	9809 Jun 19 06:40	4°₹59'41	4.39879 AU
direct	9804 Feb 22 15:53	3°930'56		3:4	9809 Aug 11 15:51	30°R⊀	
evening set	9804 Jun 28 05:54	23° <b>©</b> 25'03		direct	9809 Aug 20 04:37	29° <b>メ</b> 53'14 0°る	
conjunction	9804 Jul 11 09:39	26° <b>©</b> 37'34	0°40'35	evening set	9809 Aug 28 17:42 9809 Dec 23 20:15	0 3 17° <b>る</b> 21'41	
minimum elong	9804 Jul 11 09:40	26°937'35		evening set	9809 DCC 23 20.13	17 02141	
max. Earth dist.	9804 Jul 11 06:17	26°935'31		conjunction	9810 Jan 06 02:00	20° <b>ට</b> 12'24	0°42'59
morning rise	9804 Jul 24 15:36	29°951'24	0.52551110	minimum elong	9810 Jan 06 02:00	20° <b>ප</b> 12'24	
	9804 Jul 25 05:47	0°N		max. Earth dist.	9810 Jan 06 10:21		6.45468 AU
	9804 Oct 03 00:40	15° <b>Ω</b>		morning rise	9810 Jan 19 06:08	23° <b>る</b> 02'07	
retrograde	9804 Dec 03 13:26	20° <b>Ω</b> 40′10		-	9810 Feb 22 05:50	0° <b>≈</b>	
opposition	9805 Feb 01 00:13	15° <b>Ω</b> 40′09	-0°48'55	retrograde	9810 May 20 06:44	9° <b>≈</b> 48'40	
min. Earth dist.	9805 Jan 31 12:11	15° <b>Ω</b> 44'11	3.89956 AU	opposition	9810 Jul 20 02:38	4° <b>≈</b> 52'21	0°55'10
	9805 Feb 06 00:06	$15^{\circ}$ R $\Omega$		min. Earth dist.	9810 Jul 20 06:39	4° <b>≈</b> 51'03	4.49095 AU
direct	9805 Mar 31 01:55	10° <b>Ω</b> 45'35			9810 Sep 10 06:39	30°Rる	
	9805 May 21 12:11	15° <b>Ω</b>		direct	9810 Sep 20 08:22	29° <b>る</b> 50'46	
	9805 Aug 01 04:14	0° <b>m</b> ∕			9810 Sep 30 10:18	0° <b>≈</b>	
evening set	9805 Aug 05 02:34	0° <b>m</b> 57'08			9811 Jan 14 03:08	15° <b>≈</b>	
	0005 4 10 10 21	40% 4400	0020145	evening set	9811 Jan 23 14:13	16° <b>≈</b> 59'29	
conjunction	9805 Aug 18 13:21	4° Mp 14'00			0011 E 1 05 15 22	1004607	0020121
minimum elong	9805 Aug 18 13:22	4° Mp 14'01		conjunction	9811 Feb 05 15:23	19°≈46'25	0°30'31
max. Earth dist.	9805 Aug 19 23:51	4° M) 35'05	5.90391 AU	minimum elong max. Earth dist.	9811 Feb 05 15:24	19°≈46'25	0°30'47 6.50574 AU
morning rise	9805 Sep 01 02:36	7° Mp 32'07			9811 Feb 04 19:38	19°≈35'51 22°≈32'19	0.30374 AU
retrograde min. Earth dist.	9806 Jan 10 23:43 9806 Mar 09 23:45	28° Mp 20'04	3.93740 AU	morning rise	9811 Feb 18 14:16 9811 Mar 27 10:14	0° <b>∺</b>	
opposition	9806 Mar 11 07:51	23° Mp 16'55		retrograde	9811 Jun 18 21:21	9° <b>)</b> €05'40	
direct	9806 May 08 06:55	18° M) 21'12	0 1015	opposition	9811 Aug 18 22:50	4° <b>H</b> 11'39	0°30'42
asc. node	9806 Jun 13 08:18	20° m/30'28		min. Earth dist.	9811 Aug 19 21:00	4° <del>)(</del> 04'33	4.49883 AU
	9806 Aug 07 10:14	0° <b>ರ</b>		Zurur dist.	9811 Sep 27 00:00	30°R≈	000 110
evening set	9806 Sep 12 06:02	8° <b>≏</b> 10'39		direct	9811 Oct 20 14:54	29°≈10'13	
<b>3</b>	·r · · · · · · · · · · · · · · · · · ·	/			9811 Nov 13 10:39	0° <b>)</b> €	
conjunction	9806 Sep 25 21:10	11° <b>≙</b> 25'08	0°07'21	evening set	9812 Feb 22 17:34	16° <b>)</b> 22′02	
minimum elong	9806 Sep 25 21:10	11° <b>≏</b> 25'08		max. Earth dist.	9812 Mar 04 19:25	18° <b>)</b> 45′20	6.46954 AU
behind sun begin	9806 Sep 25 13:32	11° <b>≙</b> 20'37					
behind sun end	9806 Sep 26 04:49	11° <b>≏</b> 29'40		conjunction	9812 Mar 06 14:48	19° <b>)</b> 08'48	0°10'10
max. Earth dist.	9806 Sep 28 08:36	12° <b>≏</b> 00'31	5.99504 AU	minimum elong	9812 Mar 06 14:49	19° <b>)</b> €08'48	0°10'15
morning rise	9806 Oct 09 13:49	14° <b>≙</b> 40′10		behind sun begin	9812 Mar 06 08:28	19° <b>)</b> €05'23	

behind sun end	9812 Mar 06 21:09	19° <b>)</b> 12'13			9817 Nov 28 07:42	0° <b>⊽</b>	
morning rise	9812 Mar 19 10:10	21° <b>)</b> 54'47		retrograde	9818 Jan 16 06:27	0 <b>==</b> 3° <b>£</b> 43'09	
morning rise	9812 Apr 28 00:59	0° <b>Υ</b>		renograde	9818 Mar 06 15:48	30°R <b>™</b>	
retrograde	9812 Jul 18 13:25	8° <b>Υ</b> 46'10		min. Earth dist.	9818 Mar 15 04:44		3.95383 AU
desc. node	9812 Aug 24 21:50	6° <b>Υ</b> 42'34		opposition	9818 Mar 16 15:01	28° m 39'39	
opposition	9812 Sep 17 13:37	3° <b>Υ</b> 53'11	-0°02'06	asc. node	9818 Apr 22 17:05	24° m/28'35	0 0102
min. Earth dist.	9812 Sep 19 02:21	3° <b>Υ</b> 41'27		direct	9818 May 13 14:48	23° <b>m</b> 43'39	
mm. Earth dist.	9812 Oct 22 12:44	30°R <b>)</b> €	1.12000110	ancer	9818 Jul 16 18:00	0ಂ <b>ರ</b>	
direct	9812 Nov 19 02:34	28° <b>)</b> 52'23		evening set	9818 Sep 17 13:28	13° <b>≏</b> 26'16	
	9812 Dec 16 16:35	0°Υ			, , , , , , , , , , , , , , , , , , ,		
evening set	9813 Mar 24 06:03	16° <b>Y</b> 29'54		conjunction	9818 Oct 01 04:34	16° <b>≏</b> 39'43	0°11'15
max. Earth dist.	9813 Apr 03 16:46	18° <b>Ƴ</b> 48'47	6.35431 AU	minimum elong	9818 Oct 01 04:33	16° <b>≏</b> 39'43	0°11'20
	1			behind sun begin	9818 Sep 30 22:30	16° <b>≏</b> 36′09	
conjunction	9813 Apr 06 01:08	19° <b>Ƴ</b> 20'07	-0°13'29	behind sun end	9818 Oct 01 10:36	16° <b>≏</b> 43'17	
minimum elong	9813 Apr 06 01:08	19° <b>Ƴ</b> 20′07		max. Earth dist.	9818 Oct 03 16:00	17° <b>≏</b> 14'54	6.01727 AU
behind sun begin	9813 Apr 05 20:39	19° <b>Ƴ</b> 17'38		morning rise	9818 Oct 14 21:21	19° <b>≙</b> 53'40	
behind sun end	9813 Apr 06 05:36	19° <b>Ƴ</b> 22'36			9818 Nov 29 16:23	0° <b>M</b> .	
morning rise	9813 Apr 18 19:01	22° <b>Υ</b> 10'00		retrograde	9819 Feb 20 21:40	9° <b>M</b> 36'11	
-	9813 May 25 20:05	$9^{\circ}$ 8		min. Earth dist.	9819 Apr 19 23:07	4° <b>M</b> 45'18	4.09627 AU
retrograde	9813 Aug 20 02:37	9° <b>8</b> 49'21		opposition	9819 Apr 21 14:23	4°M31'59	0°35'46
opposition	9813 Oct 19 21:50	4° <b>8</b> 56'03	-0°36'04		9819 Jun 03 06:45	30° <b>ŖΩ</b>	
min. Earth dist.	9813 Oct 21 13:41	4° <b>8</b> 43'14	4.27492 AU	direct	9819 Jun 19 10:21	29° <b>₽</b> 33'40	
	9813 Dec 14 14:32	30° <b>₹Ƴ</b>			9819 Jul 05 17:05	0° <b>M</b> .	
direct	9813 Dec 20 14:01	29° <b>Y</b> 56'38			9819 Oct 08 15:52	15° <b>M</b> ₊	
	9813 Dec 26 13:34	$9^{\circ}$ 8		evening set	9819 Oct 24 00:26	18°M26'16	
	9814 Apr 10 11:00	15° <b>8</b>					
evening set	9814 Apr 25 03:38	18° <b>8</b> 18'59		conjunction	9819 Nov 06 14:42	21° <b>M</b> 31'41	0°34'03
max. Earth dist.	9814 May 05 18:34	20° <b>8</b> 45'37	6.18877 AU	minimum elong	9819 Nov 06 14:41	21°M31'40	0°34'20
				max. Earth dist.	9819 Nov 08 22:39	22°M03'31	6.18350 AU
conjunction	9814 May 07 22:53	21° <b>8</b> 15'50	-0°34'07	morning rise	9819 Nov 20 04:59	24°M36'46	
minimum elong	9814 May 07 22:52	21° <b>8</b> 15'49	0°34'24		9819 Dec 14 16:55	0° <b>∡</b> ¹	
morning rise	9814 May 20 17:49	24° <b>8</b> 12'55		retrograde	9820 Mar 24 21:25	13° <b>₹</b> 03'05	
	9814 Jun 15 13:22	$\Pi^{\circ}0$		opposition	9820 May 23 23:29	8° <b>₰</b> 00'50	1°00'23
retrograde	9814 Sep 24 09:34	13° <b>Ⅱ</b> 03'23		min. Earth dist.	9820 May 22 17:29	8° <b>∡</b> 10'51	4.26957 AU
opposition	9814 Nov 23 16:34	8° <b>Ⅱ</b> 08'44	-1°01'16	direct	9820 Jul 23 02:58	3° <b>₰</b> 00'39	
min. Earth dist.	9814 Nov 25 00:39	7° <b>Ⅱ</b> 58'18	4.10115 AU	evening set	9820 Nov 26 04:18	21° <b>尽</b> 02'12	
direct	9815 Jan 23 02:02	3° <b>Ⅱ</b> 11′27					
evening set	9815 May 29 04:30	22° <b>II</b> 27'22		conjunction	9820 Dec 09 14:23	23° <b>х</b> 58'49	0°44'36
max. Earth dist.	9815 Jun 09 18:05	25° <b>Ⅱ</b> 13'10	6.02181 AU	minimum elong	9820 Dec 09 14:23	23° <b>尽</b> 58'48	0°44'59
				max. Earth dist.	9820 Dec 11 00:11	24° <b>҂</b> 17′22	6.34964 AU
conjunction	9815 Jun 11 02:57	25° <b>Ⅲ</b> 32'51	-0°44'31	morning rise	9820 Dec 22 23:30	26° <b>≯</b> 54'38	
minimum elong	9815 Jun 11 02:57	25° <b>Ⅲ</b> 32'51	0°44'55		9821 Jan 06 08:16	0°ප	
morning rise	9815 Jun 24 02:37	28° <b>∏</b> 39'15		retrograde	9821 Apr 24 16:13	14° <b>る</b> 16'34	
	9815 Jun 29 18:39	$0$ $\circ$ $\odot$		opposition	9821 Jun 24 05:25	9° <b>る</b> 17'30	1°05'15
retrograde	9815 Nov 01 03:02	18° <b>©</b> 45'01		min. Earth dist.	9821 Jun 23 15:58	9° <b>る</b> 21'55	4.41615 AU
opposition	9815 Dec 30 22:08	13° <b>5</b> 47'49	-1°06'03	direct	9821 Aug 24 14:38	4° <b>る</b> 16'16	
min. Earth dist.	9815 Dec 31 08:04	13° <b>©</b> 44'31	3.95675 AU	evening set	9821 Dec 28 04:58	21° <b>る</b> 40'46	
direct	9816 Feb 27 20:28	8° <b>9</b> 52'34					
evening set	9816 Jul 03 13:32	28°951'32		conjunction	9822 Jan 10 10:10		0°41'50
	9816 Jul 08 06:00	$0^{\circ}\Omega$		minimum elong	9822 Jan 10 10:11	24° <b>පි</b> 30'47	0°42'12
				max. Earth dist.	9822 Jan 10 15:14	24°る33'30	6.46634 AU
conjunction	9816 Jul 16 18:20	2° <b>Ω</b> 04'59		morning rise	9822 Jan 23 13:22	27° <b>る</b> 19'44	
minimum elong	9816 Jul 16 18:21	2° <b>Ω</b> 05'00		_	9822 Feb 05 05:17	0° <b>≈</b>	
max. Earth dist.	9816 Jul 16 21:41		5.91435 AU	retrograde	9822 May 24 09:28	14°≈02'52	00.55:5
morning rise	9816 Jul 30 01:19	5° <b>Ω</b> 19'46		opposition	9822 Jul 24 06:33	9°≈06'59	0°52'24
	9816 Sep 09 21:47	15° <b>Ω</b>		min. Earth dist.	9822 Jul 24 13:07	9°≈04'52	4.49635 AU
retrograde	9816 Dec 09 03:22	26° <b>Ω</b> 11'46	0044114	direct	9822 Sep 24 14:07	4°≈05'27	
opposition	9817 Feb 06 12:48	21°Ω11'10			9822 Dec 28 10:00	15° <b>≈</b>	
min. Earth dist.	9817 Feb 05 21:39	21° <b>Ω</b> 16'16	3.89909 AU	evening set	9823 Jan 27 19:56	21° <b>≈</b> 13'39	
direct	9817 Apr 05 14:10	16° <b>Ω</b> 16'30			0022 F 1 00 20 20	240 00122	0020100
	9817 Jul 14 06:51	0° m/y		conjunction	9823 Feb 09 20:22	24°≈00′23	0°28'00
evening set	9817 Aug 10 13:11	6° Mp 26′24		minimum elong	9823 Feb 09 20:23	24°≈00'24	0°28'15
	0017 4 04 00 55	00*** 4211 =	001657	max. Earth dist.	9823 Feb 08 19:26	23°≈47'03	6.50444 AU
conjunction	9817 Aug 24 00:52	9° Mp 43'15		morning rise	9823 Feb 22 18:51	26°≈46'10	
minimum elong	9817 Aug 24 00:53	9° Mp 43'16			9823 Mar 10 04:27	0° <b>∀</b>	
max. Earth dist.	9817 Aug 25 17:30	10° Mp 08'00	5.91243 AU	retrograde	9823 Jun 23 04:03	13° <b>¥</b> 20'46	0026124
morning rise	9817 Sep 06 14:46	13° <b>m</b> 01'13		opposition	9823 Aug 23 04:30	8° <b>∺</b> 27'01	U 20°24

min. Earth dist.	9823 Aug 24 06:02	8° <b>¥</b> 18'51	4.49097 AU	conjunction	9829 Aug 29 08:37	15° Mp 03'10	-0°13'10
direct	9823 Oct 24 21:35	3° <b>∺</b> 25'38	,	minimum elong	9829 Aug 29 08:38	15° <b>m</b> 03'11	0°13'18
evening set	9824 Feb 26 23:27	20° <b>)</b> 40′26		behind sun begin	9829 Aug 29 03:51	15° <b>m</b> 00'17	
max. Earth dist.	9824 Mar 08 22:41	23° <b>)</b> €02'46	6.45561 AU	behind sun end	9829 Aug 29 13:25	15° Mp 06'04	
				max. Earth dist.	9829 Aug 31 03:32	15°Mp29'13	5.92564 AU
conjunction	9824 Mar 10 20:26	23° <b>∺</b> 27'36	0°06'53	morning rise	9829 Sep 11 23:16	18° <b>m</b> 20'47	
minimum elong	9824 Mar 10 20:27	23° <b>)</b> €27'36	0°06'58		9829 Nov 03 01:29	0∘ <b>⊽</b>	
behind sun begin	9824 Mar 10 13:03	23° <b>)</b> 23′37		retrograde	9830 Jan 21 06:11	8° <b>ჲ</b> 55'03	
behind sun end	9824 Mar 11 03:51	23° <b>∺</b> 31'36		asc. node	9830 Mar 04 05:53	6° <b>亞</b> 08'36	
morning rise	9824 Mar 23 15:27	26° <b>)</b> 14′01		min. Earth dist.	9830 Mar 20 05:10	4° <b>≏</b> 03'32	3.97305 AU
	9824 Apr 10 08:59	0° <b>Υ</b>		opposition	9830 Mar 21 17:06	3° <b>ჲ</b> 51'19	0°01'54
desc. node	9824 Jul 04 10:04	12° <b>Y</b> 39′10			9830 Apr 23 12:12	30°R, Mp	
retrograde	9824 Jul 22 23:38	13°Υ11'11		direct	9830 May 18 19:06	28° m 54'59	
opposition	9824 Sep 22 00:15	8°Υ18'16			9830 Jun 13 05:13	0∘ <b>ত</b>	
min. Earth dist.	9824 Sep 23 13:08	8° <b>Υ</b> 06'28 3° <b>Υ</b> 17'42	4.40162 AU	evening set	9830 Sep 22 15:47	18° <b>≏</b> 30'15	
direct	9824 Nov 23 09:51 9825 Mar 28 16:07	$3^{\circ}$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		agnismation	0020 Oct 06 07:05	21° <b>≏</b> 42'39	0°14'54
evening set max. Earth dist.		$23^{\circ}$ <b>Y</b> 21'09	6.33156 AU	conjunction minimum elong	9830 Oct 06 07:05 9830 Oct 06 07:03	21° <b>£</b> 42'38	0°15'02
max. Earth dist.	9825 Apr 08 03:16	23 1 21 09	0.33130 AU	behind sun begin	9830 Oct 06 07:03 9830 Oct 06 04:19	21° <b>£</b> 42′38 21° <b>£</b> 41′02	0-1502
conjunction	9825 Apr 10 11:05	23° <b>Y</b> 52'21	-0°16'46	behind sun end	9830 Oct 06 04:19 9830 Oct 06 09:48	21° <b>⊆</b> 41'02 21° <b>⊆</b> 44'15	
minimum elong	9825 Apr 10 11:04	23° <b>Y</b> 52'21	0°16'53	max. Earth dist.	9830 Oct 08 19:10	22° <b>₽</b> 18'01	6.04061 AU
morning rise	9825 Apr 23 04:54	26° <b>Y</b> 43'09	0 10 23	morning rise	9830 Oct 19 23:35	24° <b>£</b> 55'23	0.01001710
morning rise	9825 May 08 03:13	0°8		morning rise	9830 Nov 11 05:25	0°M	
retrograde	9825 Aug 24 23:54	14° <b>8</b> 31'58		retrograde	9831 Feb 25 14:22	14°M26'56	
opposition	9825 Oct 24 16:35	9° <b>8</b> 38'39	-0°40'28	min. Earth dist.	9831 Apr 24 17:38	9°M35'39	4.12113 AU
min. Earth dist.	9825 Oct 26 08:41	9° <b>8</b> 25'45	4.25007 AU	opposition	9831 Apr 26 07:15	9°M22'55	0°40'13
direct	9825 Dec 25 05:40	4° <b>8</b> 39'36		direct	9831 Jun 24 08:03	4°M24'19	
	9826 Mar 23 14:05	15° <b>8</b>			9831 Sep 21 01:11	15°M	
evening set	9826 Apr 29 20:27	23° <b>8</b> 09'41		evening set	9831 Oct 28 19:15	23°M09'12	
max. Earth dist.	9826 May 10 12:47	25° <b>8</b> 38'00	6.16403 AU				
				conjunction	9831 Nov 11 09:02	26°M13'21	0°36'17
conjunction	9826 May 12 15:56	26° <b>8</b> 07'41	-0°36'24	minimum elong	9831 Nov 11 09:01	26°M13'21	0°36'35
minimum elong	9826 May 12 15:55	26° <b>8</b> 07'41	0°36'42	max. Earth dist.	9831 Nov 13 14:17	26°M43'29	6.20766 AU
morning rise	9826 May 25 11:26	29° <b>8</b> 06'03		morning rise	9831 Nov 24 22:47	29°M17'08	
_	9826 May 29 09:02	0°II		_	9831 Nov 28 03:23	0° <b>∡</b> 7	
retrograde	9826 Sep 29 14:06	18° <b>Ⅱ</b> 07'24	100010	retrograde	9832 Mar 29 03:51	17° <b>∡</b> ³33'44	4.00107 444
opposition	9826 Nov 28 20:09	13° <b>Ⅱ</b> 12'29		min. Earth dist.	9832 May 27 03:42	12° <b>₹</b> 41'21	4.29127 AU
min. Earth dist.	9826 Nov 30 00:24	13° <b>Ⅱ</b> 03'16	4.07891 AU	opposition	9832 May 28 08:05	12° <b>∡</b> ³31'53	1°02'12
direct	9827 Jan 27 23:30	8° <b>Ⅱ</b> 15'37 27° <b>Ⅱ</b> 38'09		direct	9832 Jul 27 14:36	7°×31'31	
evening set	9827 Jun 03 05:00 9827 Jun 13 01:46	27 <b>п</b> 3809		evening set	9832 Nov 30 15:54	25° <b>₹</b> 27'33	
max. Earth dist.	9827 Jun 15 01:40 9827 Jun 15 01:12		6.00433 AU	conjunction	9832 Dec 14 01:25	28° <b>∡</b> '23'11	0°44'58
max. Earth dist.	902/Juli 13 01.12	0 320 32	0.00433 AU	minimum elong	9832 Dec 14 01:25 9832 Dec 14 01:25	28° <b>×</b> 23'11	0°45'21
conjunction	9827 Jun 16 04:09	0° <b>©</b> 44'45	-0°44'45	max. Earth dist.	9832 Dec 15 06:55	28° × 39'20	6.36744 AU
minimum elong	9827 Jun 16 04:09	0°544'45		man. Bartir dist.	9832 Dec 21 10:26	0°る	0.50711110
morning rise	9827 Jun 29 04:36	3°952'20		morning rise	9832 Dec 27 09:42	1° <b>る</b> 17'58	
retrograde	9827 Nov 06 14:35	24° <b>©</b> 06'01		retrograde	9833 Apr 28 20:19	18° <b>る</b> 33'45	
opposition	9828 Jan 05 07:51	19° <b>©</b> 08'22	-1°04'33	opposition	9833 Jun 28 09:29	13° <b>る</b> 35'12	1°04'27
min. Earth dist.	9828 Jan 05 14:43	19° <b>5</b> 06'05	3.94597 AU	min. Earth dist.	9833 Jun 27 23:20	13° <b>る</b> 38'31	4.42903 AU
direct	9828 Mar 04 03:33	14° <b>©</b> 13'22		direct	9833 Aug 28 22:25	8° <b>ප</b> 33'54	
	9828 Jun 21 02:53	$0^{\circ}\Omega$		evening set	9834 Jan 01 11:33	25° <b>る</b> 55'48	
evening set	9828 Jul 08 19:52	4° <b>Ω</b> 14'30					
				conjunction	9834 Jan 14 16:05	28° <b>る</b> 45'18	0°40'30
conjunction	9828 Jul 22 01:39	7° <b>Ω</b> 28'34	-0°36'24	minimum elong	9834 Jan 14 16:05	28° <b>る</b> 45'18	0°40'52
minimum elong	9828 Jul 22 01:40	7° <b>Ω</b> 28'34		max. Earth dist.	9834 Jan 14 15:56	28° <b>る</b> 45'13	6.47343 AU
max. Earth dist.	9828 Jul 22 11:15		5.91144 AU		9834 Jan 20 11:20	0° <b>≈</b>	
morning rise	9828 Aug 04 09:36	10° <b>Ω</b> 43'56		morning rise	9834 Jan 27 18:46	1°≈33'47	
	9828 Aug 22 05:33	15° <b>Ω</b>			9834 Apr 11 08:29	15° <b>≈</b>	
	9828 Nov 12 23:46	0° Mp		retrograde	9834 May 28 12:26	18°≈14'58	
retrograde	9828 Dec 14 12:47	1°Mp36'07		annagiti	9834 Jul 15 03:12	15°R≈ 12°aa10'25	0040120
:	9829 Jan 14 22:46	30°R€ 36° <b>0</b> 35'04	0020121	opposition	9834 Jul 28 09:40	13°≈19'25	0°49'29
opposition	9829 Feb 11 21:46	26° <b>Ω</b> 35'04		min. Earth dist.	9834 Jul 28 18:59	13°≈16'24	4.49763 AU
min. Earth dist. direct	9829 Feb 11 03:06 9829 Apr 10 21:27	26°8741'22 21°Ω40'21	3.90468 AU	direct	9834 Sep 28 18:24 9834 Dec 09 10:46	8°≈17'49 15°≈	
ancei	9829 Apr 10 21:27 9829 Jun 24 10:45	0° Mp		evening set	9834 Dec 09 10:46 9835 Feb 01 00:32	15°≈ 25°≈26'32	
evening set	9829 Aug 15 20:28	11° Mp 46'42		max. Earth dist.	9835 Feb 12 21:55	23 ≈20 32 27°≈58'58	6.49994 AU
croming sec	,02, 11ug 10 20.20	בד טז∹עוו בב		man. Darm dist.	,055 1 00 12 21.55	2, ~5555	5. 17777 AU

agniunation	0925 Eab 14 00:27	28° <b>≈</b> 13'17	0°25'23	ratragrada	0940 Dag 10 10:19	60 mh 55120	
conjunction	9835 Feb 14 00:37 9835 Feb 14 00:38	28°≈13'17	0°25'36	retrograde min. Earth dist.	9840 Dec 19 19:18 9841 Feb 16 07:11	6°M 55'38	3.90780 AU
minimum elong	9835 Feb 14 00.38 9835 Feb 22 07:49	28 ≈1317 0° <b>\</b>	0 23 30	opposition	9841 Feb 17 04:56	2° my 01'28 1° my 54'06	
morning rise	9835 Feb 26 22:25	0° <b>X</b> 59'01		opposition	9841 Nar 03 16:19	1 11/3400 30°RΩ	-0 34 09
retrograde	9835 Jun 27 08:37	17° <b>₩</b> 35'40		direct	9841 Apr 16 03:35	26° <b>Ω</b> 59'14	
opposition	9835 Aug 27 09:51	17 <b>X</b> 33 40	0°22'01	unect	9841 May 29 00:42	0° Mp	
min. Earth dist.	9835 Aug 27 09:31 9835 Aug 28 12:33	12 <b>X</b> 4207 12° <b>X</b> 33'35	4.48116 AU	evening set	9841 Aug 21 02:41	עווי 0 17° אווי 17° 170	
direct	9835 Aug 28 12:55 9835 Oct 29 01:56	7° <b>¥</b> 40′50	4.46110 AU	evening set	9041 Aug 21 02.41	17 1100322	
evening set	9836 Mar 02 05:23	24° <b>H</b> 58'54		conjunction	9841 Sep 03 15:40	20° <b>m</b> 19'43	-0°09'16
max. Earth dist.	9836 Mar 13 01:43		6.44110 AU	minimum elong	9841 Sep 03 15:41	20° mg 19'43	0°09'23
max. Earth dist.	9630 Mai 13 01.43	27 / 2012	0.44110 AU	behind sun begin	9841 Sep 03 13:41 9841 Sep 03 08:42	20° m/15'31	0 0923
conjunction	9836 Mar 15 01:54	27° <b>)</b> 46′27	0°03'37	behind sun end	9841 Sep 03 08:42 9841 Sep 03 22:40	20° m) 23'56	
minimum elong	9836 Mar 15 01:53	27° <b>H</b> 46'27	0°03'40	max. Earth dist.	9841 Sep 05 14:59	20° m/23'30	5.93567 AU
behind sun begin	9836 Mar 14 17:59	27° <b>\(\)</b> 40'27	0 03 40	morning rise	9841 Sep 17 06:44	20° my 48° 21° 23° my 37'02	3.93307 AU
behind sun begin	9836 Mar 15 09:47	27° <b>H</b> 50'44		morning rise	9841 Sep 17 00:44 9841 Oct 14 15:16	0° <b>ت</b> 23 ال <b>ب</b>	
bellilla sull ella	9836 Mar 25 07:15	27 <b>γ</b> (30 44 0° <b>γ</b>		asc. node	9842 Jan 13 00:16	0 <b>=</b> 13° <b>£</b> 47'22	
morning rise	9836 Mar 27 20:44	0° <b>Υ</b> 33'19		retrograde	9842 Jan 26 08:44	13 <b>=</b> 47 22 14° <b>£</b> 05'10	
morning rise desc. node	9836 May 14 02:59	10° <b>Υ</b> 06'31		min. Earth dist.	9842 Mar 25 06:42	9° <b>£</b> 13'32	3.98868 AU
	9836 Jul 27 12:26	10 <b>γ</b> 06 31 17° <b>γ</b> 36'13			9842 Mar 26 18:46	9° <b>£</b> 13 32	0°07'49
retrograde	9836 Sep 26 11:07	17 <b>Y</b> 30 13	0011150	opposition direct		9 <b>≗</b> 01 10 4° <b>£</b> 04'40	0 0/49
opposition min. Earth dist.	•	$12^{\circ}$ <b>Y</b> $31'00$	4.38319 AU		9842 May 23 23:36	23° <b>£</b> 34'15	
	9836 Sep 28 01:29 9836 Nov 27 19:30	7° <b>Υ</b> 42'49	4.36319 AU	evening set	9842 Sep 27 18:50	23 = 34 13	
direct	9837 Apr 02 01:38	7 1 42 49 25° <b>Υ</b> 31'52		agnismation	9842 Oct 11 10:09	26° <b>£</b> 45'45	0°18'29
evening set	-		6 21047 ATT	conjunction			0°18'29 0°18'38
max. Earth dist.	9837 Apr 12 12:38	2/ 1 32/1/	6.31047 AU	minimum elong	9842 Oct 11 10:08	26° <b>Ω</b> 45'45	
. ,.	0027 4 14 20 26	28° <b>Ƴ</b> 23'43	0010154	max. Earth dist.	9842 Oct 13 22:42	27° <b>£</b> 21'13 29° <b>£</b> 57'31	6.06016 AU
conjunction	9837 Apr 14 20:36	$28^{\circ}$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		morning rise	9842 Oct 25 02:38	29° <b>±</b> 3/31 0° <b>M</b>	
minimum elong	9837 Apr 14 20:35	0° <b>8</b>	0-2003		9842 Oct 25 06:54	15°M	
marnina rias	9837 Apr 21 23:57	1° <b>8</b> 15'22		ratra arada	9843 Jan 07 17:39 9843 Mar 02 06:02	19°M19'29	
morning rise	9837 Apr 27 14:28	15° <b>8</b>		retrograde			
	9837 Jul 06 23:44			in Foodb died	9843 Apr 25 13:14	15°RM	4 14267 ATT
retrograde	9837 Aug 29 18:13	19° <b>8</b> 12'53		min. Earth dist.	9843 Apr 29 11:02	14°M28'27	4.14267 AU
	9837 Oct 24 04:07 9837 Oct 29 10:45	15°R <b>と</b> 14° <b>と</b> 19'20	0944124	opposition direct	9843 May 01 00:45 9843 Jun 29 03:57	14°M15'42 9°M16'51	0°44'26
opposition min. Earth dist.				direct			
	9837 Oct 31 00:52	9° <b>8</b> 20'32	4.22765 AU		9843 Aug 30 18:57	15°M 27°M55'25	
direct	9837 Dec 29 18:34 9838 Mar 02 16:14	15° <b>B</b>		evening set	9843 Nov 02 15:49	2/ الدى:25 0° <b>يرا</b>	
		_			9843 Nov 11 21:27	0. X.	
evening set	9838 May 04 12:07	27° <b>8</b> 57'13			0042 N 16 05 07	00.7500	0020110
T d F d	9838 May 13 07:27	0°II	C 14101 ATT	conjunction	9843 Nov 16 05:07	0° ₹ 58'26	0°38'18
max. Earth dist.	9838 May 15 07:47	0°Щ28112	6.14191 AU	minimum elong	9843 Nov 16 05:06	0° ₹ 58'26	
· · · · · · · · · · · ·	0020 M 17 07-40	00T5(115	0920124	max. Earth dist.	9843 Nov 18 06:59	1°×726'33	6.22944 AU
conjunction	9838 May 17 07:49	0° <b>I</b> 56'15		morning rise	9843 Nov 29 18:15	4° ₹ 01'01	
minimum elong	9838 May 17 07:48	0° <b>I</b> I56'14	0°38'43	retrograde	9844 Apr 02 14:36	22°×708'48	1002141
morning rise	9838 May 30 03:44	3°Ⅲ55'43 23°Ⅲ06'59		opposition	9844 Jun 01 18:54	17° <b>₹</b> 07'26	1°03'41
retrograde	9838 Oct 04 18:24		1005104	min. Earth dist.	9844 May 31 17:25	17° <b>₹</b> 15'55	4.31153 AU
opposition	9838 Dec 03 22:13	18° <b>Ⅱ</b> 11'43		direct	9844 Aug 01 06:23	12° <b>∡</b> 06'57	
min. Earth dist.	9838 Dec 05 00:48	18° <b>Ⅱ</b> 03'01	4.05871 AU	evening set	9844 Dec 05 05:31	29° <b>₹</b> 57'50	
direct	9839 Feb 01 22:07	13° <b>II</b> 15'05			9844 Dec 05 09:30	0°₹	
arramir =t	9839 May 27 16:01	0°छ		aaminti	0044 D 10 14 26	20752122	0045105
evening set	9839 Jun 08 03:49	2°9643'33	5.00700 411	conjunction	9844 Dec 18 14:26	2°る52'32	
max. Earth dist.	9839 Jun 20 04:59	5°937'30	5.98790 AU	minimum elong	9844 Dec 18 14:26	2°る52'32	0°45'29
	0020 L 21 02 47	50051115	0044127	max. Earth dist.	9844 Dec 19 17:06	3° <b>る</b> 07'05	6.38491 AU
conjunction	9839 Jun 21 03:47	5° <b>©</b> 51'15		morning rise	9844 Dec 31 21:55	5°る46'20	
minimum elong	9839 Jun 21 03:47	5°951'15	0°45'01	retrograde	9845 May 03 00:24	22°る56'01	
morning rise	9839 Jul 04 05:07	9°500'00		opposition	9845 Jul 02 15:42		1°03'17
retrograde	9839 Nov 11 23:00	29°520'59	1000100	min. Earth dist.	9845 Jul 02 07:06	18° <b>る</b> 00'46	4.44299 AU
opposition	9840 Jan 10 15:01	24°522'56		direct	9845 Sep 02 06:40	12° <b>る</b> 56'41	
min. Earth dist.	9840 Jan 10 18:05		3.93526 AU		9846 Jan 04 14:55	0° <b>≈</b>	
direct	9840 Mar 09 06:29	19° <b>©</b> 28'05		evening set	9846 Jan 05 20:03	0° <b>≈</b> 15′29	
	9840 Jun 02 19:29	0° <b>N</b>			00461 10.55	20 0	0020176
evening set	9840 Jul 14 00:37	9° <b>Ω</b> 31'49		conjunction	9846 Jan 18 23:54	3°≈04'20	0°38'56
				minimum elong	9846 Jan 18 23:55	3°≈04'21	0°39'17
conjunction	9840 Jul 27 07:13	12° <b>Ω</b> 46'30		max. Earth dist.	9846 Jan 18 20:59	3°≈02'47	6.48332 AU
minimum elong	9840 Jul 27 07:14	12° <b>Ω</b> 46'31		morning rise	9846 Feb 01 01:44	5°≈52'09	
max. Earth dist.	9840 Jul 27 20:25		5.90738 AU	_	9846 Mar 18 23:18	15° <b>≈</b>	
	9840 Aug 05 09:32	15° <b>Ω</b>		retrograde	9846 Jun 01 16:28	22° <b>≈</b> 30′24	0045
morning rise	9840 Aug 09 16:20	16° <b>Ω</b> 02'34		opposition	9846 Aug 01 14:08	17°≈35'15	0°46'16
	9840 Oct 12 04:08	0° <b>m</b> )		min. Earth dist.	9846 Aug 02 01:55	17° <b>≈</b> 31'28	4.50306 AU

	0046 Aug 22 17:46	150000		avanina aat	0052 Iul 10 02:22	140 0 42112	
direct	9846 Aug 22 17:46 9846 Oct 03 01:31	15°R≈ 12°≈33'46		evening set	9852 Jul 19 02:22 9852 Jul 20 07:35	14° <b>Ω</b> 42'12 15° <b>Ω</b>	
direct	9846 Nov 13 13:48	12°≈33 46 15°≈			9852 Jul 20 07:55	13-86	
evening set	9847 Feb 05 05:55	13 ≈ 29°≈41'30		conjunction	9852 Aug 01 10:12	17° <b>Ω</b> 57'48	0°31'12
evening set	9847 Feb 06 16:41	0° <b>∺</b>		minimum elong	9852 Aug 01 10:13	$17^{\circ}\Omega57^{\circ}48$	0°31'28
max. Earth dist.	9847 Feb 16 22:29		6.50057 AU	max. Earth dist.	9852 Aug 02 05:01	18°Ω09'20	5.89990 AU
man. Barur diot.	yo.,, 1 <b>c</b> o 10 <b>22</b> .2	2 /(1120	0.50057110	morning rise	9852 Aug 14 20:14	21°Ω14'41	0.09990110
conjunction	9847 Feb 18 05:15	2° <b>)</b> 27'57	0°22'40	5 5	9852 Sep 21 10:04	0° <b>m</b> )	
minimum elong	9847 Feb 18 05:16	2° <b>∺</b> 27'58	0°22'53	retrograde	9852 Dec 25 01:58	12° m 09'59	
morning rise	9847 Mar 03 02:38	5° <b>)</b> 13′29		min. Earth dist.	9853 Feb 21 10:07	7° <b>™</b> 16′00	3.90688 AU
retrograde	9847 Jul 01 14:24	21° <b>¥</b> 50′38		opposition	9853 Feb 22 09:30	7° <b>m</b> 08'05	-0°28'53
opposition	9847 Aug 31 15:20	16° <b>⊁</b> 57'13	0°17'36	direct	9853 Apr 21 07:23	2° Mp 13'03	
min. Earth dist.	9847 Sep 01 19:57	16° <b>∺</b> 48′04	4.47697 AU	evening set	9853 Aug 26 07:55	22°M 16'52	
direct	9847 Nov 02 07:45	11° <b>¥</b> 56′00					
evening set	9848 Mar 06 09:52	29° <b>¥</b> 15′25		conjunction	9853 Sep 08 21:34	25° m 33'16	
	9848 Mar 09 20:08	0° <b>Υ</b>		minimum elong	9853 Sep 08 21:35	25° m 33'17	0°05'30
max. Earth dist.	9848 Mar 17 05:20	1°° <b>y</b> ′36′30	6.43235 AU	behind sun begin	9853 Sep 08 13:31	25° m 28'26	
. ,.	0040 M 10 06 06	200002107	0000122	behind sun end	9853 Sep 09 05:39	25° Mp 38'07	5.04121 ATT
conjunction	9848 Mar 19 06:06	2° <b>Y</b> 03'07 2° <b>Y</b> 03'07	0°00'22	max. Earth dist.	9853 Sep 10 23:44		5.94131 AU
minimum elong behind sun begin	9848 Mar 19 06:05 9848 Mar 18 22:08	1° <b>Υ</b> 58'48	0°00'23	morning rise	9853 Sep 22 13:25 9853 Sep 27 09:44	28° Mp 50'37 0° <u> </u>	
behind sun begin	9848 Mar 19 14:03	2° <b>Υ</b> 07'26		asc. node	9853 Nov 24 15:44	0 <b>==</b> 12° <b>£</b> 29'47	
desc. node	9848 Mar 25 02:54	3° <b>Υ</b> 20'02		retrograde	9854 Jan 31 08:42	12 <b>=</b> 2947 19° <b>£</b> 14'02	
morning rise	9848 Apr 01 00:25	4° <b>Υ</b> 50'10		min. Earth dist.	9854 Mar 30 05:15	14° <b>£</b> 22'57	4.00027 AU
retrograde	9848 Jul 31 20:24	21° <b>Υ</b> 57'06		opposition	9854 Mar 31 19:25	14° <b>£</b> 09'58	0°13'29
opposition	9848 Sep 30 19:56	17° <b>Ƴ</b> 04'08	-0°16'36	direct	9854 May 29 00:47	9° <b>♀</b> 13'02	
min. Earth dist.	9848 Oct 02 10:28	16° <b>Ƴ</b> 51'49	4.37024 AU	evening set	9854 Oct 02 22:03	28° <b>≏</b> 38'29	
direct	9848 Dec 02 01:26	12° <b>Ƴ</b> 03'52			9854 Oct 08 18:11	0°M	
evening set	9849 Apr 06 08:35	29° <b>Ƴ</b> 56'39					
	9849 Apr 06 14:35	$9^{\circ}$ 8		conjunction	9854 Oct 16 13:23	1° <b>M</b> 49'14	0°21'50
max. Earth dist.	9849 Apr 16 18:46	2° <b>8</b> 17'11	6.29408 AU	minimum elong	9854 Oct 16 13:22	1°M49'14	0°22'00
				max. Earth dist.	9854 Oct 19 01:24	2°M24'15	6.07655 AU
conjunction	9849 Apr 19 03:15	2° <b>8</b> 49'03		morning rise	9854 Oct 30 05:48	5°M00'10	
minimum elong	9849 Apr 19 03:14	2° <b>8</b> 49'03	0°22'58		9854 Dec 15 06:39	15°M	
morning rise	9849 May 01 21:11	5° <b>8</b> 41'21		retrograde	9855 Mar 06 23:53	24°M13'35	4 1 C 1 O 2 A T I
rotro aro do	9849 Jun 14 21:38	15° <b>8</b> 23° <b>8</b> 46'16		min. Earth dist.	9855 May 04 06:39 9855 May 05 19:02	19°M22'12 19°M09'54	4.16193 AU 0°48'14
retrograde opposition	9849 Sep 03 11:04 9849 Nov 03 01:28	18° <b>8</b> 52'31	0040110	opposition	9855 Jun 11 17:25	19 11609 34 15°RM	0 48 14
min. Earth dist.	9849 Nov 04 15:57		4.20859 AU	direct	9855 Jul 04 02:48	13 KIIC 14°ML10'44	
mm. Lattii dist.	9849 Dec 07 13:53	15°R <b>X</b>	4.2003) AO	direct	9855 Jul 26 16:14	15°M	
direct	9850 Jan 03 06:54	13° <b>8</b> 53'52			9855 Oct 26 05:35	0° <b>⊼</b> ¹	
	9850 Jan 29 21:36	15° <b>8</b>		evening set	9855 Nov 07 13:04	2° <b>×</b> <sup>7</sup> 43'21	
	9850 Apr 27 16:17	0°II		Ü			
evening set	9850 May 08 23:59	2° <b>Ⅱ</b> 36′18		conjunction	9855 Nov 21 02:02	5° <b>∡</b> ¹45'18	0°40'01
max. Earth dist.	9850 May 19 21:33	5° <b>Ⅱ</b> 09'03	6.12175 AU	minimum elong	9855 Nov 21 02:01	5° <b>∡</b> ¹45′18	0°40'22
				max. Earth dist.	9855 Nov 23 03:30	6° <b>х</b> 13′02	6.24997 AU
conjunction	9850 May 21 20:08	5° <b>Ⅱ</b> 36′21		morning rise	9855 Dec 04 14:25	8° <b>≯</b> 46'40	
minimum elong	9850 May 21 20:07	5° <b>Ⅱ</b> 36′20	0°40'23	retrograde	9856 Apr 06 23:29	26° <b>≯</b> 45'38	
morning rise	9850 Jun 03 16:29	8° <b>Ⅱ</b> 36'53		min. Earth dist.	9856 Jun 05 05:34	21° <b>х</b> 52'49	4.33151 AU
retrograde	9850 Oct 09 16:52	27° <b>II</b> 57'28	1007110	opposition	9856 Jun 06 06:21	21° 🖈 44'35	1°04'42
opposition	9850 Dec 08 19:51	23° <b>I</b> 101'54		direct	9856 Aug 05 21:02	16° <b>₹</b> 43'55	
min. Earth dist.	9850 Dec 09 20:08	18° <b>Ⅱ</b> 05'30	4.03915 AU	avanina aat	9856 Nov 18 15:23 9856 Dec 09 19:59	0°る 4°る29'20	
direct	9851 Feb 06 14:25 9851 May 10 18:36	0°9		evening set	9830 Dec 09 19.39	4 02920	
evening set	9851 Jun 12 22:50	0 €9 7°9540'04		conjunction	9856 Dec 23 04:03	7° <b>る</b> 22'59	0°44'54
o ronning got	7031 Jun 12 22.30	, -10 04		minimum elong	9856 Dec 23 04:03	7° <b>る</b> 22'59	0°45'18
conjunction	9851 Jun 25 23:28	10°9548'54	-0°44'10	max. Earth dist.	9856 Dec 24 02:21	7° <b>る</b> 35'06	6.40267 AU
minimum elong	9851 Jun 25 23:28	10°9548'54		morning rise	9857 Jan 05 10:48	10°る15'45	
max. Earth dist.	9851 Jun 25 03:16	10°936'40		retrograde	9857 May 07 06:53	27° <b>ප</b> 18'59	
morning rise	9851 Jul 09 01:52	13° <b>9</b> 58'54		opposition	9857 Jul 06 22:36	22° <b>る</b> 21'17	1°01'41
	9851 Sep 23 21:09	$0^{\circ}\Omega$		min. Earth dist.	9857 Jul 06 17:21	22° <b>る</b> 22'59	4.45706 AU
retrograde	9851 Nov 17 03:49	4° <b>Ω</b> 27'55		direct	9857 Sep 06 18:33	17° <b>る</b> 19'52	
	9852 Jan 11 22:29	30° <b>₹</b> 5			9857 Dec 19 02:43	0° <b>≈</b>	
opposition	9852 Jan 15 18:22	29°529'22		evening set	9858 Jan 10 04:36	4° <b>≈</b> 35'13	
min. Earth dist.	9852 Jan 15 18:33		3.92212 AU		0050 x	<b>5</b> 0 • • • • •	0005:0-
direct	9852 Mar 14 06:43	24°934'32		conjunction	9858 Jan 23 07:48	7°≈23'28	0°37'07
	9852 May 12 03:52	$0$ $^{\circ}$ $\Omega$		minimum elong	9858 Jan 23 07:49	7° <b>≈</b> 23′28	0°37'26

P 4 P	0050 1 00 01 10	<b>5</b> 0 10156	C 4000 4 4 X X		00644 01 00 00	40 0 5 511 0	2 01117 177
max. Earth dist.	9858 Jan 23 01:13	7°≈19'56	6.49234 AU	min. Earth dist.	9864 Jan 21 02:20		3.91117 AU
morning rise	9858 Feb 05 08:55	10°≈10'39			9864 Mar 17 12:45	30° <b>₹</b> 55	
	9858 Feb 28 14:49	15° <b>≈</b>		direct	9864 Mar 19 13:44	29° <b>©</b> 59'34	
retrograde	9858 Jun 05 19:55	26° <b>≈</b> 46′19			9864 Mar 21 14:44	$0$ $^{\circ}$ $\Omega$	
opposition	9858 Aug 05 19:18	21° <b>≈</b> 51′23	0°42'44		9864 Jul 02 20:37	15° <b>Ω</b>	
min. Earth dist.	9858 Aug 06 08:55	21° <b>≈</b> 47′00	4.50641 AU	evening set	9864 Jul 24 11:31	20° <b>Ω</b> 10′04	
direct	9858 Oct 07 07:41	16° <b>≈</b> 49'52					
	9859 Jan 21 13:14	0° <b>∀</b>		conjunction	9864 Aug 06 20:15	23° <b>Ω</b> 26′18	
evening set	9859 Feb 09 11:37	3° <b>¥</b> 57'13		minimum elong	9864 Aug 06 20:16	23° <b>Ω</b> 26′19	0°28'20
max. Earth dist.	9859 Feb 21 01:29	6° <b>¥</b> 25'51	6.49784 AU	max. Earth dist.	9864 Aug 07 19:29	23° <b>Ω</b> 40'32	5.89695 AU
				morning rise	9864 Aug 20 07:31	26° <b>Ω</b> 43'52	
conjunction	9859 Feb 22 10:28	6° <b>)</b> 43′33	0°19'45		9864 Sep 02 21:35	0° <b>m</b> y	
minimum elong	9859 Feb 22 10:29	6° <b>)</b> 43′33	0°19'56	retrograde	9864 Dec 30 11:47	17° <b>m</b> 38'53	
morning rise	9859 Mar 07 07:09	9° <b>∺</b> 28'57		opposition	9865 Feb 27 19:36	12° Mp36′37	-0°23'03
retrograde	9859 Jul 05 20:54	26° <b>∺</b> 07'51		min. Earth dist.	9865 Feb 26 16:10	12° Mp 45'55	3.91270 AU
opposition	9859 Sep 04 22:16	21° <b>∺</b> 14'36	0°12'55	direct	9865 Apr 26 16:17	7° Mp41′28	
min. Earth dist.	9859 Sep 06 05:04	21° <b>)</b> 04′46	4.46817 AU	evening set	9865 Aug 31 17:53	27° <b>m</b> 42'03	
direct	9859 Nov 06 14:29	16° <b>) (</b> 13′30			9865 Sep 10 07:37	0∘ <b>⊽</b>	
desc. node	9860 Feb 01 14:15	25° <b>)</b> 45′00					
	9860 Feb 22 19:54	$0^{\circ}\mathbf{\Upsilon}$		conjunction	9865 Sep 14 08:03	0° <b>ჲ</b> 58'02	-0°01'21
evening set	9860 Mar 10 16:26	3° <b>Ƴ</b> 35'52		minimum elong	9865 Sep 14 08:02	0° <b>ჲ</b> 58'01	0°01'21
max. Earth dist.	9860 Mar 21 08:01	5° <b>Ƴ</b> 55'23	6.41787 AU	behind sun begin	9865 Sep 13 23:38	0° <b>ჲ</b> 53'00	
				behind sun end	9865 Sep 14 16:26	1° <b>ഫ</b> 03'03	
conjunction	9860 Mar 23 12:09	6° <b>Ƴ</b> 23'57	-0°03'04	max. Earth dist.	9865 Sep 16 13:05	1° <b>≏</b> 29'56	5.95533 AU
minimum elong	9860 Mar 23 12:09	6° <b>Ƴ</b> 23'57	0°03'06	morning rise	9865 Sep 28 00:16	4° <b>£</b> 14'50	
behind sun begin	9860 Mar 23 04:12	6° <b>Ƴ</b> 19'37		asc. node	9865 Oct 02 22:13	5° <b>£</b> 24'53	
behind sun end	9860 Mar 23 20:05	6° <b>Y</b> 28'17		retrograde	9866 Feb 05 11:05	24° <b>£</b> 30'02	
morning rise	9860 Apr 05 06:24	9° <b>Ƴ</b> 11'30		min. Earth dist.	9866 Apr 04 08:13	19° <b>Ω</b> 38'54	4.02076 AU
retrograde	9860 Aug 05 10:15	26° <b>Y</b> 24'39		opposition	9866 Apr 05 22:43	19° <b>Ω</b> 25'49	0°19'16
opposition	9860 Oct 05 08:11	21° <b>Y</b> 31'38	-0°21'26	direct	9866 Jun 03 07:42	14° <b>£</b> 28'34	
min. Earth dist.	9860 Oct 06 23:50	21°Υ18'55	4.35078 AU		9866 Sep 21 13:19	0°M	
direct	9860 Dec 06 11:30	16° <b>Υ</b> 31'30		evening set	9866 Oct 08 02:37	3°M46'28	
	9861 Mar 21 07:07	0°8			, , , , , , , , , , , , , , , , , , , ,		
evening set	9861 Apr 10 19:07	4° <b>8</b> 30'21		conjunction	9866 Oct 21 17:56	6°M56'02	0°25'07
max. Earth dist.	9861 Apr 21 06:16	6° <b>8</b> 52'07	6.27110 AU	minimum elong	9866 Oct 21 17:55	6°M56'01	0°25'20
max. Earth dist.	700171pi 21 00.10	0 03207	0.27110110	max. Earth dist.	9866 Oct 24 07:32	7°M31'45	6.10159 AU
conjunction	9861 Apr 23 13:59	7° <b>8</b> 23'42	-0°25'43	morning rise	9866 Nov 04 09:50	10°M05'34	0.10107110
minimum elong	9861 Apr 23 13:58	7° <b>8</b> 23'41	0°25'56	morning rise	9866 Nov 26 05:27	15°M	
morning rise	9861 May 06 07:56	10° <b>8</b> 16'58	0 23 30	retrograde	9867 Mar 11 15:16	29°M07'17	
morning risc	9861 May 27 15:44	15° <b>8</b>		min. Earth dist.	9867 May 09 00:37	24°M16'00	4.18893 AU
retrograde	9861 Sep 08 08:05	28° <b>8</b> 31'51		opposition	9867 May 10 12:40	24°M03'52	0°51'44
opposition	9861 Nov 07 21:44	23° <b>8</b> 37'57	-0°51'46	direct	9867 Jul 09 00:29	19°M04'28	0 31 44
min. Earth dist.	9861 Nov 09 11:04	23° <b>8</b> 25'54	4.18370 AU	direct	9867 Oct 08 08:19	0° <b>√</b>	
direct	9862 Jan 07 21:56	18° <b>8</b> 39'39	4.10370 AC	evening set	9867 Nov 12 09:03	7° <b>∡</b> 128'45	
direct	9862 Apr 10 06:56	0°Ⅱ		evening set	7007 NOV 12 07.03	7 × 20 +3	
evening set	9862 May 13 17:57	7° <b>П</b> 29'58		conjunction	9867 Nov 25 21:12	10° <b>∡</b> ¹29'15	0°41'30
max. Earth dist.	9862 May 24 17:35	10° <b>I</b> I04'49	6.09695 AU	minimum elong	9867 Nov 25 21:12 9867 Nov 25 21:11	10 <b>x</b> 2913 10° <b>x</b> 29'15	0°41'52
max. Latin dist.	7002 Way 24 17.55	10 11044)	0.07073710	max. Earth dist.	9867 Nov 27 18:21	10° × 54'26	6.27652 AU
conjunction	9862 May 26 14:23	10° <b>Ⅱ</b> 31'14	-0°41'31	morning rise	9867 Dec 09 08:56	13°×729'10	0.27032 AC
minimum elong	9862 May 26 14:22	10° <b>Д</b> 31'14		morning risc	9868 Mar 13 11:50	0°る	
morning rise	9862 Jun 08 11:30	13° <b>II</b> 33'10	0 41 54	retrograde	9868 Apr 11 07:26	1°る17'54	
morning risc	9862 Aug 31 00:42	0°9		renograde	9868 May 09 22:40	30°R. <b>✓</b>	
retrograde	9862 Oct 15 00:01	3°505'08		opposition	9868 Jun 10 15:54	26° <b>√</b> 17'15	1°05'20
retrograde	9862 Nov 29 14:33	30°R∏		min. Earth dist.	9868 Jun 09 18:15	26° 🖈 17 13	4.35546 AU
amnagition		28° <b>Ⅱ</b> 09'13	1906155	direct		20 <b>x</b> 24 23 21° <b>x</b> 16'23	4.33340 AU
opposition min. Earth dist.	9862 Dec 14 00:55	28° <b>I</b> I09'13	4.01662 AU	direct	9868 Aug 10 12:25 9868 Oct 31 08:50	21 x·1023	
	9862 Dec 14 22:26	28 <b>H</b> 02 09 23° <b>H</b> 13'06	4.01002 AU	avanina sat	9868 Dec 14 07:19	8° <b>る</b> 55'20	
direct	9863 Feb 11 15:23	23 <b>п</b> 1300		evening set	9808 Dec 14 07.19	8 033 20	
	9863 Apr 20 01:39				0000 D 27 14-40	1107/7/56	0044120
evening set	9863 Jun 18 01:17	12° <b>©</b> 54'48		conjunction	9868 Dec 27 14:48	11° <b>3</b> 47'56	0°44'28
	00/2 1-1 01 02 02	1.00004150	0942120	minimum elong	9868 Dec 27 14:48	11° <b>3</b> 47'57	0°44'52
conjunction	9863 Jul 01 03:02	16°504'58		max. Earth dist.	9868 Dec 28 10:17	11° <b>る</b> 58'29	6.42223 AU
minimum elong	9863 Jul 01 03:03	16°904'58		morning rise	9869 Jan 09 20:32	14° <b>る</b> 39'34	
max. Earth dist.	9863 Jun 30 12:56	15°956'24	5.95283 AU		9869 Apr 08 21:20	0°≈ 1°≈ •2€!24	
morning rise	9863 Jul 14 06:22	19° <b>©</b> 16'16		retrograde	9869 May 11 08:26	1°≈36'24	
	9863 Aug 30 12:05	0° <b>N</b>		•.•	9869 Jun 12 17:59	30°Rる	0050140
retrograde	9863 Nov 22 17:16	9° <b>£</b> 53'09	0056150	opposition	9869 Jul 11 03:00	26° <b>る</b> 39'06	0°59'49
opposition	9864 Jan 21 05:09	4° <b>Ω</b> 54'13	-U~56′59	min. Earth dist.	9869 Jul 10 23:48	26° <b>る</b> 40'09	4.47103 AU

T'	0070 0 11 01 42	210=227120		*4*	0074 D 10 00 05	2062405	1007107
direct	9869 Sep 11 01:43	21° <b>る</b> 37'39		opposition	9874 Dec 19 09:05	3°524'05	
avanina aat	9869 Dec 01 03:45 9870 Jan 14 10:36	0° <b>≈</b> 8° <b>≈</b> 49'50		min. Earth dist.	9874 Dec 20 03:46 9875 Jan 16 22:31	30°R∏	3.99457 AU
evening set	98/0 Jan 14 10:36	8***49'50		direct	9875 Feb 16 18:26	30°KⅡ 28°Ⅱ28'18	
conjunction	9870 Jan 27 13:00	11° <b>≈</b> 37'30	0°35'09	direct	9875 Mar 19 08:08	20 <b>п</b> 20 10	
minimum elong	9870 Jan 27 13:00 9870 Jan 27 13:00	11 ≈3730 11°≈37'31	0°35'28	evening set	9875 Jun 23 06:55	18° <b>©</b> 16'36	
max. Earth dist.	9870 Jan 27 01:17	11°≈3731	6.49971 AU	evening set	9875 Juli 25 00.55	10 310 30	
morning rise	9870 Feb 09 13:27	11 ≈31 13 14°≈24'10	0.49971 AU	conjunction	9875 Jul 06 09:30	21° <b>©</b> 27'56	0.042,08
morning risc	9870 Feb 12 09:07	15° <b>≈</b>		minimum elong	9875 Jul 06 09:31	21° <b>9</b> 27'56	
	9870 May 15 18:16	0° <b>¥</b>		max. Earth dist.	9875 Jul 05 23:55	21° <b>©</b> 22'05	5.93737 AU
retrograde	9870 Jun 09 23:14	0° <b>¥</b> 58'05		morning rise	9875 Jul 19 14:09	24°540'31	3.73131 AO
retrograde	9870 Jul 05 01:13	30°R≈		morning rise	9875 Aug 11 00:35	0°Ω	
opposition	9870 Aug 09 22:39	26°≈03'28	0°39'03		9875 Nov 12 19:05	15° <b>Ω</b>	
min. Earth dist.	9870 Aug 10 16:09	25°≈57'51	4.50674 AU	retrograde	9875 Nov 28 05:56	15° <b>Ω</b> 23'40	
direct	9870 Oct 11 13:50	23 <b>≈</b> 3731 21° <b>≈</b> 01'55	4.30074 AC	renograde	9875 Dec 13 17:05	15°RΩ	
direct	9871 Jan 04 03:15	0° <b>∺</b>		opposition	9876 Jan 26 17:59	10° <b>Ω</b> 24'11	-0°53'19
evening set	9871 Feb 13 15:39	8° <b>∺</b> 09'55		min. Earth dist.	9876 Jan 26 10:01	10°Ω24'11	3.90435 AU
max. Earth dist.	9871 Feb 25 00:35	10° <b>¥</b> 36'11	6.49098 AU	direct	9876 Mar 24 22:39	5° <b>Ω</b> 29'35	3.70 <del>4</del> 33 AO
max. Earth dist.	98/1 FC0 25 00.55	10 / 30 11	0.49098 AU	direct	9876 Jun 13 07:45	15° <b>Ω</b>	
conjunction	9871 Feb 26 14:01	10° <b>¥</b> 56'18	0°16'46	evening set	9876 Jul 29 22:23	25° <b>Ω</b> 40'53	
minimum elong	9871 Feb 26 14:01	10 <b>X</b> 56 18	0°16'56	evening set	9870 Jul 29 22.23	23 0640 33	
morning rise	9871 Mar 11 10:20	10 <b>X</b> 30 19 13° <b>X</b> 41′50	0 10 30	conjunction	9876 Aug 12 08:04	28° <b>Ω</b> 57'27	0°24'40
morning risc	9871 Jun 24 01:19	0° <b>Υ</b>		minimum elong	9876 Aug 12 08:05	$28^{\circ} \Omega 57'28$	0°24'54
retrograde	9871 Jul 10 03:05	0° <b>Υ</b> 23'58		max. Earth dist.	9876 Aug 13 13:09	29° <b>Ω</b> 15'15	5.89946 AU
renograde	9871 Jul 10 03:03 9871 Jul 26 04:36	0 1 23 38 30°R <b>∺</b>		max. Earth dist.	9876 Aug 16 14:17	0° m)	3.89940 AU
opposition	9871 Sep 09 04:36	25° <b>¥</b> 30'46	0°08'13	morning rise	9876 Aug 25 20:12	2°Mp15'16	
min. Earth dist.	9871 Sep 10 13:01	25° <b>H</b> 20'24	4.45453 AU	retrograde	9877 Jan 04 21:38	23°Mp07'14	
direct	9871 Nov 10 19:22	20° <del>X</del> 29'41	4.43433 AU	min. Earth dist.	9877 Mar 04 00:05	18° M) 14'29	3.92403 AU
desc. node	9871 Dec 12 02:51	20 <b>X</b> 2941 21° <b>X</b> 55'18		opposition	9877 Mar 04 00:03 9877 Mar 05 05:32	18° Mp 04'29	
desc. Hode	9871 Bec 12 02:31 9872 Feb 05 12:45	21 <b>γ</b> (33 18		direct	9877 May 02 03:59	13° My 09'03	-0 1/01
ovening set	9872 Ner 14 22:24	7° <b>Υ</b> 56'31		asc. node	9877 Aug 10 20:49	26° My 57'23	
evening set max. Earth dist.	9872 Mar 14 22:24 9872 Mar 25 13:24	10° <b>Υ</b> 16'17	6.39837 AU	asc. node	9877 Aug 10 20:49 9877 Aug 24 03:18	20 ily 37 23 0° <b>Ω</b>	
max. Earth dist.	96/2 Wai 25 15.24	10 11017	0.39637 AU	evening set	9877 Sep 06 03:25	0 <b>==</b> 3° <b>⊆</b> 04'15	
conjunction	9872 Mar 27 18:01	10° <b>Ƴ</b> 45'15	0.06123	evening set	9877 Sep 00 03.23	3 = 04 13	
minimum elong	9872 Mar 27 18:01 9872 Mar 27 18:01	10 <b>γ</b> 45 15 10° <b>γ</b> 45'15	0°06'26	conjunction	9877 Sep 19 18:04	6° <b>£</b> 19'31	0°02'50
behind sun begin	9872 Mar 27 10:31	10 <b>Y</b> 43 13	0 00 20	minimum elong	9877 Sep 19 18:04 9877 Sep 19 18:05	6° <b>£</b> 19'32	0°02'51
behind sun end	9872 Mar 28 01:32	10 <b>γ</b> 41 09 10° <b>γ</b> 49'22		behind sun begin	9877 Sep 19 18:03 9877 Sep 19 09:43	6° <b>£</b> 14'33	0 02 31
		10 γ 49 22 13° <b>γ</b> 33'29		behind sun end	-	6° <b>£</b> 24'31	
morning rise	9872 Apr 09 12:00 9872 Jul 16 15:47	0° <b>8</b>		max. Earth dist.	9877 Sep 20 02:26 9877 Sep 22 03:07	6° <b>£</b> 2431	5.97410 AU
retrograde		0° <b>8</b> 54'36			9877 Oct 03 10:26	9° <b>£</b> 35'29	3.97410 AU
retrograde	9872 Aug 10 00:21 9872 Sep 03 08:23	0 <b>3</b> 3430		morning rise retrograde	9878 Feb 10 11:07	9 <b>≗</b> 33 29 29° <b>£</b> 40'26	
opposition	9872 Sep 03 08:23 9872 Oct 09 21:23	30 κ 1 26° <b>Υ</b> 01'32	0026110	min. Earth dist.		29 <b>2</b> 40 20 24° <b>2</b> 49'32	4.04468 AU
min. Earth dist.	9872 Oct 11 13:58	26 <b>γ</b> 01 32 25° <b>γ</b> 48'32			9878 Apr 09 08:41	24° <b>£</b> 4932 24° <b>£</b> 36'12	4.04408 AU 0°24'49
	9872 Dec 10 21:43	23 1 48 32 21° <b>Υ</b> 01'38	4.32034 AU	opposition	9878 Apr 10 23:58 9878 Jun 08 11:38	24 <b>≥</b> 36 12 19° <b>♀</b> 38'40	0 24 49
direct		0° <b>8</b>		direct		0°M	
	9873 Mar 03 06:04				9878 Sep 03 01:29		
evening set	9873 Apr 15 07:13 9873 Apr 25 17:29	9° <b>8</b> 08'04 11° <b>8</b> 30'17	6.24390 AU	evening set	9878 Oct 13 05:22	8°M48'14	
max. Earth dist.	98/3 Apr 23 17.29	11 03017	0.24390 AU	agniumation	0979 Oct 26 20:14	11°M56'26	0°28'11
conjunction	9873 Apr 28 02:01	12° <b>8</b> 02'31	-0028131	conjunction minimum elong	9878 Oct 26 20:14 9878 Oct 26 20:13	11°11656'26	0°28'11 0°28'26
•	9873 Apr 28 02:00	12° <b>8</b> 02'31		max. Earth dist.	9878 Oct 20 20:13 9878 Oct 29 07:24	12°M30'31	6.12810 AU
minimum elong	=		0 2840				0.12810 AU
morning rise	9873 May 10 20:26 9873 May 11 01:37	14° <b>と</b> 57'03 15° <b>と</b>		morning rise	9878 Nov 09 11:50 9878 Nov 09 03:49	15°M04'35 15°M	
	9873 Jul 27 15:47	13 <b>O</b>			9879 Jan 24 06:57	13 ll¢ 0° <b>√</b> 7	
ratragrada	9873 Sep 13 08:40	3° <b>Ⅱ</b> 23′28		ratrograda		3° <b>х</b> ¹54'42	
retrograde	-	3°RZ3°Z8		retrograde	9879 Mar 16 04:40	3°×13442 30°₹M	
annagition	9873 Oct 31 23:28 9873 Nov 12 20:23	28° <b>8</b> 29'20	0055105	min. Earth dist.	9879 May 06 15:07	29°M03'07	4.21552 AU
opposition					9879 May 13 18:01		
min. Earth dist.	9873 Nov 14 08:02		4.15551 AU	opposition	9879 May 15 04:20	28°M51'35	0°54'51
direct	9874 Jan 12 15:59	23° <b>႘</b> 31'17 0° <b>Ⅱ</b>		direct	9879 Jul 13 21:09	23°M51'55 0°⊀	
ovening set	9874 May 18 14:35			avanina aat	9879 Sep 17 15:21		
evening set	9874 May 18 14:35	12° <b>Ⅱ</b> 30′32	6.07040 411	evening set	9879 Nov 17 02:57	12° <b>≯</b> 08'30	
max. Earth dist.	9874 May 29 19:38	15° <b>Ⅱ</b> 09′28	6.07049 AU		0070 N 20 14 27	150 707140	0942142
	0074 M 21 11 47	150 Посил	0942145	conjunction	9879 Nov 30 14:37	15° <b>₹</b> 07'43	0°42'43
conjunction	9874 May 31 11:47	15° <b>Ⅱ</b> 33'16	-U~42·45	minimum elong	9879 Nov 30 14:36	15° <b>∡</b> 07'43	0°43'06
minimum elong	•			F 4 11	0070 D 02 00 2:	1.50 701100	( 20110 : ***
	9874 May 31 11:46	15° <b>Ⅱ</b> 33'16		max. Earth dist.	9879 Dec 02 09:24	15° <b>₹</b> 31'28	6.30118 AU
morning rise	9874 May 31 11:46 9874 Jun 13 09:31	15° <b>Д</b> 33'16 18° <b>Д</b> 36'40		max. Earth dist. morning rise	9879 Dec 14 01:21	18° <b>∡</b> 06'15	6.30118 AU
morning rise	9874 May 31 11:46	15° <b>Ⅱ</b> 33'16					6.30118 AU

i. E. di di d	0000 I 14 04.42	00=52110	4 27642 ATT		0005 M 02 16.47	1.60 🗸 4012.4	0921112
min. Earth dist.	9880 Jun 14 04:43	0°る52'10	4.37642 AU	conjunction	9885 May 02 16:47	16° <b>8</b> 48'34 16° <b>8</b> 48'34	
opposition	9880 Jun 15 00:06	0° <b>궁</b> 45'47	1°05'36	minimum elong	9885 May 02 16:46	_	0-31-30
T' /	9880 Jun 20 19:28	30°₹ <b>৴</b>		morning rise	9885 May 15 11:21	19° <b>8</b> 44'17	
direct	9880 Aug 15 00:49	25° <b>₹</b> 44'51			9885 Jul 02 13:05	0°II	
	9880 Oct 08 22:51	0°る		retrograde	9885 Sep 18 12:29	8° <b>Ⅱ</b> 21'43	0050105
evening set	9880 Dec 18 18:07	13° <b>る</b> 18'41		opposition	9885 Nov 17 21:38	3° <b>Ⅱ</b> 27'26	
	0001 7 01 00 10	1.60=71.0100	00.42140	min. Earth dist.	9885 Nov 19 07:52		4.13076 AU
conjunction	9881 Jan 01 00:42	16°₹10′23	0°43'48		9885 Dec 17 10:06	30°₹ <b>8</b>	
minimum elong	9881 Jan 01 00:43	16° <b>ප</b> 10'23	0°44'12	direct	9886 Jan 17 12:53	28° <b>8</b> 29'49	
max. Earth dist.	9881 Jan 01 14:08	16° <b>る</b> 17'38	6.43797 AU		9886 Feb 17 10:02	$\Pi$ °0	
morning rise	9881 Jan 14 05:48	19° <b>る</b> 01'07		evening set	9886 May 23 13:05	17° <b>Ⅱ</b> 36'36	
	9881 Mar 11 13:35	0° <b>≈</b>		max. Earth dist.	9886 Jun 03 21:27	20° <b>Ⅱ</b> 18'19	6.04891 AU
retrograde	9881 May 15 12:45	5° <b>≈</b> 53'03					
opposition	9881 Jul 15 07:31	0°≈56'13	0°57'40	conjunction	9886 Jun 05 10:43	20° <b>Ⅱ</b> 40'31	-0°43'41
min. Earth dist.	9881 Jul 15 08:07	0°≈56'02	4.48079 AU	minimum elong	9886 Jun 05 10:43	20° <b>Ⅱ</b> 40'31	0°44'05
	9881 Jul 22 13:43	30°Ŗ₹		morning rise	9886 Jun 18 09:23	23° <b>Ⅱ</b> 45'16	
direct	9881 Sep 15 09:51	25° <b>る</b> 54'42			9886 Jul 15 11:06	$0$ $\circ$ $\odot$	
	9881 Nov 08 21:21	0° <b>≈</b>		retrograde	9886 Oct 25 20:27	13° <b>©</b> 38'34	
evening set	9882 Jan 18 16:47	13° <b>≈</b> 05′13		opposition	9886 Dec 24 17:48	8° <b>5</b> 41'54	-1°06'49
	9882 Jan 27 16:23	15° <b>≈</b>		min. Earth dist.	9886 Dec 25 07:43	8° <b>9</b> 37'18	3.97864 AU
				direct	9887 Feb 21 21:53	3°5546'23	
conjunction	9882 Jan 31 18:45	15° <b>≈</b> 52'34	0°32'59	evening set	9887 Jun 28 12:32	23° <b>©</b> 38'53	
minimum elong	9882 Jan 31 18:46	15° <b>≈</b> 52'35	0°33'17				
max. Earth dist.	9882 Jan 31 03:45	15° <b>≈</b> 44'33	6.50283 AU	conjunction	9887 Jul 11 16:04	26° <b>©</b> 51'03	-0°40'38
morning rise	9882 Feb 13 18:28	18° <b>≈</b> 38'53		minimum elong	9887 Jul 11 16:05	26°951'03	0°41'00
	9882 Apr 14 03:17	0° <b>)</b> €		max. Earth dist.	9887 Jul 11 13:14	26°549'19	5.92882 AU
retrograde	9882 Jun 14 02:22	5° <b>升</b> 12'32		morning rise	9887 Jul 24 21:36	0° <b>Ω</b> 04'28	
opposition	9882 Aug 14 03:16	0° <b>₩</b> 18'13	0°35'08	_	9887 Jul 24 14:13	$0^{\circ}\Omega$	
min. Earth dist.	9882 Aug 14 22:30	0° <b>ℋ</b> 12'04	4.50322 AU		9887 Oct 02 02:40	15° <b>Ω</b>	
	9882 Aug 16 12:08	30°R≈		retrograde	9887 Dec 03 17:56	20° <b>Ω</b> 50'43	
direct	9882 Oct 15 18:15	25°≈16'45		opposition	9888 Feb 01 04:42	15° <b>Ω</b> 50'43	-0°49'16
	9882 Dec 13 20:42	0° <b>)</b> €		min. Earth dist.	9888 Jan 31 17:52	15° <b>Ω</b> 54'21	3.90428 AU
evening set	9883 Feb 17 21:11	12° <b>)</b> €26'37			9888 Feb 07 12:19	15°R <b>Ω</b>	
max. Earth dist.	9883 Mar 01 02:49	14° <b>)</b> 51'31	6.48099 AU	direct	9888 Mar 30 09:02	10° <b>Ω</b> 56'05	
		. , , , , ,			9888 May 19 14:57	15° <b>Ω</b>	
conjunction	9883 Mar 02 19:01	15° <b>)</b> 13′12	0°13'40		9888 Jul 30 18:15	0° m	
minimum elong	9883 Mar 02 19:02	15° <b>)</b> 13'12		evening set	9888 Aug 04 06:38	1° Mp 05'36	
behind sun begin	9883 Mar 02 14:48	15° <b>)</b> 10'56	0 13 1,	evening sec	) 000 1 <b>148</b> 0 1 00.50	1 190000	
behind sun end	9883 Mar 02 23:16	15° <b>X</b> 15'29		conjunction	9888 Aug 17 17:12	4° m 22'09	-0°21'11
morning rise	9883 Mar 15 14:56	17° <b>)</b> 58'58		minimum elong	9888 Aug 17 17:13	4° <b>m</b> 22'09	
morning rise	9883 May 17 12:53	0°Υ		max. Earth dist.	9888 Aug 19 04:03	4° Mp 43'25	5.90780 AU
retrograde	9883 Jul 14 12:53	4° <b>Υ</b> 45'27		morning rise	9888 Aug 31 06:04	7° m 39'53	3.50700110
retrograde	9883 Sep 12 13:33	30° <b>₹</b>		retrograde	9889 Jan 10 02:38	28° m 26'13	
opposition	9883 Sep 13 13:18	29° <b>H</b> 52'25	0°03'21	min. Earth dist.	9889 Mar 09 03:18	~	3.93990 AU
min. Earth dist.	9883 Sep 15 10:10	29° <b>X</b> 41'14	4.43860 AU	opposition	9889 Mar 10 11:06	23° m) 23'07	
desc. node	9883 Oct 21 12:12	25° <b>)</b> (45'40	4.43000 AC	direct	9889 May 07 09:47	18° M) 27'26	-0 11 04
direct	9883 Nov 15 03:55	24° <b>)</b> 51'30		asc. node	9889 Jun 21 01:03	21° Mp 40'52	
direct	9884 Jan 15 12:06	0°Υ		asc. node	9889 Aug 06 02:47	0° <u>م</u>	
evening set	9884 Mar 19 06:53	12° <b>Υ</b> 23'33		evening set	9889 Sep 11 08:31	8° <b>≏</b> 15'53	
max. Earth dist.	9884 Mar 29 19:04	14° <b>Υ</b> 42'30	6.37757 AU	evening set	7667 Sep 11 06.51	0 -1333	
max. Earm dist.	7007 IVIAI 27 17.04	17 14430	0.51151 AU	conjunction	9889 Sep 24 23:14	11° <b>ჲ</b> 30'11	0°06'43
conjunction	9884 Apr 01 02:15	15° <b>Ƴ</b> 13'01	-0°00'45	minimum elong	9889 Sep 24 23:14 9889 Sep 24 23:13	11° <b>£</b> 30'11	0°06'45
	-	$15^{\circ}$ <b>Y</b> $13^{\circ}$ <b>1</b>	0°09'49		-		0 0043
minimum elong	9884 Apr 01 02:15	15° <b>Υ</b> 09'24	0 0949	behind sun begin	9889 Sep 24 15:26	11° <b>Ω</b> 25'34	
behind sun begin behind sun end	9884 Mar 31 19:42	15 <b>γ</b> 09 24 15° <b>γ</b> 16'36		behind sun end max. Earth dist.	9889 Sep 25 07:01	11° <b>Ω</b> 34'48	5 00551 ATT
	9884 Apr 01 08:47	13 γ 10 30 18° <b>Υ</b> '02'02			9889 Sep 27 08:16 9889 Oct 08 15:51	12° <b>£</b> 04'08 14° <b>£</b> 45'08	5.99551 AU
morning rise	9884 Apr 13 20:15			morning rise			
rotro ar- J-	9884 Jun 13 04:15	0° <b>8</b>		matera a J -	9889 Dec 21 18:00	0°M	
retrograde	9884 Aug 14 16:53	5° <b>8</b> 31'42	0020152	retrograde	9890 Feb 15 04:47	4°M39'19	
opposition	9884 Oct 14 13:16	0° <b>8</b> 38'34		i. E d U	9890 Apr 12 18:40	30°R <b>Ω</b>	4.06022 444
min. Earth dist.	9884 Oct 16 05:11		4.30231 AU	min. Earth dist.	9890 Apr 14 05:01	29° <b>£</b> 48'21	4.06923 AU
	9884 Oct 19 13:43	30°RΥ		opposition	9890 Apr 15 20:12	29° <b>Ω</b> 35'04	0°29'54
direct	9884 Dec 15 09:35	25° <b>Y</b> 38'54		direct	9890 Jun 13 11:54	24° <b>Ω</b> 37'09	
	9885 Feb 08 12:15	0°8			9890 Aug 12 09:37	0°M	
evening set	9885 Apr 19 21:41	13° <b>8</b> 52'59		evening set	9890 Oct 18 03:09	13°M38'33	
	9885 Apr 24 19:18	15° <b>8</b>			9890 Oct 24 01:45	15° <b>M</b> ₊	
max. Earth dist.	9885 Apr 30 11:03	16° <b>8</b> 17'44	6.21830 AU				
				conjunction	9890 Oct 31 17:49	16°M45'28	0°30'56

minimum elong	9890 Oct 31 17:48	16°M45'27	0°31'12	behind sun begin	9896 Apr 05 05:34	19° <b>Ƴ</b> 37'24	
max. Earth dist.	9890 Nov 03 03:37	17°M18'35	6.15367 AU	behind sun end	9896 Apr 05 15:12	19° <b>Y</b> 42'44	
morning rise	9890 Nov 14 08:44	19°M.52'11	0.13307 AC	morning rise	9896 Apr 18 04:16	22° <b>Υ</b> 29'51	
morning rise	9891 Jan 01 02:08	0° <b>√</b>		morning rise	9896 May 23 13:56	0°8	
retrograde	9891 Mar 20 15:23	8° <b>×</b> <sup>7</sup> 31'29		retrograde	9896 Aug 19 10:58	10° <b>8</b> 07'38	
min. Earth dist.	9891 May 18 07:35	3°×39'29	4.23975 AU	opposition	9896 Oct 19 05:26	5° <b>8</b> 14'25	-0°35'21
opposition	9891 May 19 15:35	3° <b>х</b> 28'46	0°57'30	min. Earth dist.	9896 Oct 20 21:48	5° <b>8</b> 01'28	4.28009 AU
opp control	9891 Jun 17 13:51	30°RM		direct	9896 Dec 19 23:20	0° <b>8</b> 15'02	
direct	9891 Jul 18 13:22	28°M28'53			9897 Apr 08 12:11	15° <b>8</b>	
	9891 Aug 18 19:47	0° <b>∡</b> 7		evening set	9897 Apr 24 11:39	18° <b>8</b> 35'42	
evening set	9891 Nov 21 16:57	16° <b>≯</b> 38'48		max. Earth dist.	9897 May 05 01:31	21° <b>8</b> 01'32	6.19539 AU
C					Ž		
conjunction	9891 Dec 05 03:54	19° <b>∡</b> ³36′54	0°43'39	conjunction	9897 May 07 06:51	21° <b>8</b> 32'17	-0°33'40
minimum elong	9891 Dec 05 03:54	19° <b>∡</b> ³36′53	0°44'03	minimum elong	9897 May 07 06:49	21° <b>8</b> 32'16	0°33'58
max. Earth dist.	9891 Dec 06 17:54	19° <b>∡</b> 57′52	6.32216 AU	morning rise	9897 May 20 01:50	24° <b>8</b> 29'06	
morning rise	9891 Dec 18 14:03	22° <b>∡</b> ³34'16			9897 Jun 13 16:27	$\Pi$ °0	
	9892 Jan 23 00:30	0° <b>ප</b>		retrograde	9897 Sep 23 13:08	13° <b>Ⅱ</b> 16′30	
retrograde	9892 Apr 19 18:01	10° <b>る</b> 06'18		opposition	9897 Nov 22 21:33	8° <b>Ⅱ</b> 21'55	-1°00'40
opposition	9892 Jun 19 05:23	5° <b>る</b> 06'40	1°05'33	min. Earth dist.	9897 Nov 24 04:41	8° <b>Ⅱ</b> 11'47	4.10885 AU
min. Earth dist.	9892 Jun 18 12:48	5° <b>る</b> 12'08	4.39295 AU	direct	9898 Jan 22 07:14	3° <b>Ⅱ</b> 24'34	
direct	9892 Aug 19 09:27	0° <b>る</b> 05'35		evening set	9898 May 28 10:09	22° <b>Ⅱ</b> 37'58	
evening set	9892 Dec 23 01:57	17° <b>る</b> 35'44		max. Earth dist.	9898 Jun 09 00:02	25° <b>Ⅱ</b> 23'37	6.02989 AU
		_				_	
conjunction	9893 Jan 05 08:04	20° <b>ろ</b> 26'46	0°42'57	conjunction	9898 Jun 10 08:27	25° <b>Ⅱ</b> 43'01	
minimum elong	9893 Jan 05 08:05	20° <b>පි</b> 26'46	0°43'20	minimum elong	9898 Jun 10 08:27	25° <b>∏</b> 43'01	0°44'41
max. Earth dist.	9893 Jan 05 18:18	20° <b>る</b> 32'17	6.44911 AU	morning rise	9898 Jun 23 07:46	28° <b>Ⅱ</b> 48'56	
morning rise	9893 Jan 18 12:17	23° <b>る</b> 16'47			9898 Jun 28 07:42	0°©	
	9893 Feb 20 04:38	0° <b>≈</b>		retrograde	9898 Oct 31 05:24	18°951'00	100515
retrograde	9893 May 19 14:50	10°≈05'20	0055110	opposition	9898 Dec 30 00:25	13°953'55	
opposition	9893 Jul 19 10:33	5°≈08'58	0°55'19	min. Earth dist.	9898 Dec 30 12:01		3.96427 AU
min. Earth dist.	9893 Jul 19 13:34	5°≈07'59	4.48610 AU	direct	9899 Feb 27 01:16	8°958'38	
direct	9893 Sep 19 14:44	0°≈07'28 15°≈		evening set	9899 Jul 03 16:02	28°954'59	
avanina aat	9894 Jan 12 00:20 9894 Jan 22 21:57	15°≈ 17°≈17'30			9899 Jul 08 02:56	$0$ ° $\Omega$	
evening set	9894 Jan 22 21.37	1/ ≈1/30		conjunction	9899 Jul 16 20:34	2° <b>Ω</b> 08'01	-0°38'47
conjunction	9894 Feb 04 23:11	20° <b>≈</b> 04'38	0°30'43	minimum elong	9899 Jul 16 20:35	2°Ω08'02	
minimum elong	9894 Feb 04 23:12	20°≈04'39	0°31'00	max. Earth dist.	9899 Jul 16 22:49	2°Ω09'23	5.92053 AU
max. Earth dist.	9894 Feb 04 03:08	19°≈53'55	6.50202 AU	morning rise	9899 Jul 30 03:11	5° <b>Ω</b> 22'20	3.72033 110
morning rise	9894 Feb 17 22:30	22°≈50'49	0.50202710	morning rise	9899 Sep 09 20:10	15° <b>Ω</b>	
morning rise	9894 Mar 25 02:34	0° <b>∀</b>		retrograde	9899 Dec 09 03:16	26° <b>Ω</b> 11'41	
retrograde	9894 Jun 18 07:49	9° <b>₩</b> 25'19		opposition	9900 Feb 06 12:58	21°Ω11'16	-0°44'49
opposition	9894 Aug 18 07:43	4° <b>)</b> €31'16	0°31'08	min. Earth dist.	9900 Feb 05 22:31	21°Ω16'08	3.90328 AU
min. Earth dist.	9894 Aug 19 06:07	4° <b>)</b> €24'06	4.49655 AU	direct	9900 Apr 05 14:32	16° <b>Ω</b> 16′39	
	9894 Oct 01 15:23	30°R≈			9900 Jul 14 08:49	0° m/y	
direct	9894 Oct 19 24:00	29° <b>≈</b> 29'49		evening set	9900 Aug 10 13:28	6° m 25'19	
	9894 Nov 07 09:53	0° <b>)</b> €			•	•	
evening set	9895 Feb 22 02:25	16° <b>)</b> 42′17		conjunction	9900 Aug 24 00:40	9° <b>m</b> 41'55	-0°17'32
max. Earth dist.	9895 Mar 05 05:44	19° <b>)</b> €06′20	6.46897 AU	minimum elong	9900 Aug 24 00:41	9° <b>m</b> 41'56	0°17'41
				max. Earth dist.	9900 Aug 25 14:05	10° <b>m</b> 04'43	5.91398 AU
conjunction	9895 Mar 06 24:00	19° <b>)</b> 29'11	0°10'32	morning rise	9900 Sep 06 14:25	12° <b>m</b> 59'43	
minimum elong	9895 Mar 07 00:00	19° <b>)</b> 29'11	0°10'38		9900 Nov 28 11:44	0∘ <b>⊽</b>	
behind sun begin	9895 Mar 06 17:49	19° <b>∺</b> 25'52		retrograde	9901 Jan 16 05:01	3° <b>≏</b> 41'39	
behind sun end	9895 Mar 07 06:11	19° <b>∺</b> 32'31			9901 Mar 06 11:41	30°R.Mp	
morning rise	9895 Mar 19 19:30	22° <b>)</b> 15′16		min. Earth dist.	9901 Mar 15 05:19	28° <b>m</b> 49'43	3.95249 AU
	9895 Apr 26 14:46	$0$ ° $\mathbf{\Upsilon}$		opposition	9901 Mar 16 15:00	28°M 38'16	-0°05'05
retrograde	9895 Jul 18 21:06	9° <b>Ƴ</b> 06'34		asc. node	9901 May 02 11:27	23° <b>m</b> 55'18	
desc. node	9895 Sep 01 05:30	6° <b>Ƴ</b> 17'17		direct	9901 May 13 14:50	23° <b>m</b> 42'19	
opposition	9895 Sep 17 22:13	4°Υ13'34			9901 Jul 16 20:31	0∘ <b>⊽</b>	
min. Earth dist.	9895 Sep 19 09:18		4.42206 AU	evening set	9901 Sep 17 13:13	13° <b>≏</b> 25'48	
	9895 Oct 27 12:33	30° <b>₹</b>					
direct	9895 Nov 19 09:58	29° <b>)</b> 12'49		conjunction	9901 Oct 01 04:20	16° <b>≏</b> 39'25	0°10'32
	9895 Dec 12 10:11	0° <b>Υ</b>		minimum elong	9901 Oct 01 04:19	16° <b>≏</b> 39'24	0°10'38
evening set	9896 Mar 23 15:13	16° <b>Y</b> 49'56		behind sun begin	9901 Sep 30 21:54	16° <b>≙</b> 35'37	
max. Earth dist.	9896 Apr 03 03:40	19° <b>Ƴ</b> 09'39	6.35766 AU	behind sun end	9901 Oct 01 10:44	16° <b>Ω</b> 43'12	
the state of the s	0006 4 07 10 75	10000 / ***	0012101	max. Earth dist.	9901 Oct 03 15:15	17° <b>Ω</b> 14'20	6.01333 AU
conjunction	9896 Apr 05 10:23	19° <b>Ƴ</b> 40'04		max. Earth dist. morning rise	9901 Oct 14 20:51	19° <b>≙</b> 53'29	6.01333 AU
conjunction minimum elong	9896 Apr 05 10:23 9896 Apr 05 10:23	19° <b>Y</b> 40'04 19° <b>Y</b> 40'04					6.01333 AU

ratragrada	9902 Feb 21 01:27	9° <b>M</b> 38'31		max. Earth dist.	9908 Apr 08 08:55	23° <b>Y</b> 32'05	6.34344 AU
retrograde min. Earth dist.	9902 Apr 20 02:16	4°M47'21	4.09014 AU	max. Earth dist.	9908 Apr 08 08.33	23 13203	0.54544 AU
opposition	9902 Apr 21 16:29	4°MJ34'24	0°34'48	conjunction	9908 Apr 10 16:36	24° <b>Ƴ</b> 03'08	-0°16'05
оррозион	9902 Jun 04 02:48	30°R <b>≏</b>	0 54 40	minimum elong	9908 Apr 10 16:35	24° <b>Υ</b> 03'07	0°16'14
direct	9902 Jun 19 12:15	29° <b>£</b> 36'13		morning rise	9908 Apr 23 10:19	26° <b>Y</b> 53′24	0 1011
ancet	9902 Jul 04 22:36	0°M		morning rise	9908 May 07 14:41	0°8	
	9902 Oct 08 09:17	15° <b>M</b> ₊		retrograde	9908 Aug 24 23:36	14° <b>8</b> 37'25	
evening set	9902 Oct 24 01:52	18°MJ31'02		opposition	9908 Oct 24 18:32	9° <b>8</b> 44'01	-0°39'25
844				min. Earth dist.	9908 Oct 26 09:47	9° <b>8</b> 31'24	4.26301 AU
conjunction	9902 Nov 06 16:09	21°M36'50	0°33'29	direct	9908 Dec 25 08:12	4° <b>8</b> 44'47	
minimum elong	9902 Nov 06 16:08	21°M36'49	0°33'47		9909 Mar 23 11:13	15° <b>8</b>	
max. Earth dist.	9902 Nov 09 00:09	22°MJ08'45	6.17569 AU	evening set	9909 Apr 29 22:11	23° <b>8</b> 10'25	
morning rise	9902 Nov 20 06:41	24°M42'22		max. Earth dist.	9909 May 10 14:04	25° <b>8</b> 38'02	6.17665 AU
-	9902 Dec 14 06:59	0° <b>∡</b> ¹					
retrograde	9903 Mar 26 02:02	13° <b>∡</b> 12'15		conjunction	9909 May 12 17:28	26° <b>8</b> 07'49	-0°35'46
min. Earth dist.	9903 May 23 21:14	8° <b>∡</b> ¹20'17	4.26109 AU	minimum elong	9909 May 12 17:27	26° <b>8</b> 07'48	0°36'05
opposition	9903 May 25 04:13	8° <b>₰</b> 09'55	0°59'49	morning rise	9909 May 25 12:44	29° <b>8</b> 05'31	
direct	9903 Jul 24 04:56	3° <b>₰</b> 09'51			9909 May 29 11:34	$\Pi^{\circ}0$	
evening set	9903 Nov 27 08:38	21° <b>҂</b> 14'07		retrograde	9909 Sep 29 11:24	18° <b>Ⅱ</b> 01'38	
				opposition	9909 Nov 28 17:34	13° <b>Ⅱ</b> 06'44	-1°02'39
conjunction	9903 Dec 10 19:00	24° <b>≯</b> 11'10	0°44'20	min. Earth dist.	9909 Nov 30 00:09	12° <b>Ⅱ</b> 56'45	4.08966 AU
minimum elong	9903 Dec 10 18:59	24° <b>≯</b> 11'10	0°44'44	direct	9910 Jan 28 00:14	8° <b>Ⅱ</b> 09'35	
max. Earth dist.	9903 Dec 12 05:38	24° <b>渘</b> ³30′14	6.34140 AU	evening set	9910 Jun 03 02:50	27° <b>Ⅱ</b> 28'44	
morning rise	9903 Dec 24 04:16	27° <b>҂</b> ¹07′26			9910 Jun 13 15:43	0ං <b>වෙ</b>	
	9904 Jan 06 12:21	0°₹		max. Earth dist.	9910 Jun 14 19:52	0°916'54	6.01198 AU
retrograde	9904 Apr 25 01:22	14° <b>る</b> 32'28					
opposition	9904 Jun 24 12:50	9° <b>る</b> 33'23	1°05'07	conjunction	9910 Jun 16 01:48	0° <b>©</b> 34'52	-0°44'30
min. Earth dist.	9904 Jun 23 23:00	9° <b>る</b> 37'55	4.40895 AU	minimum elong	9910 Jun 16 01:48	0°934'52	0°44'55
direct	9904 Aug 24 20:59	4° <b>る</b> 32'17		morning rise	9910 Jun 29 01:58	3° <b>≤</b> 41'58	
evening set	9904 Dec 28 12:01	21° <b>る</b> 58'45		retrograde	9910 Nov 06 08:11	23° <b>9</b> 52'24	
		_		opposition	9911 Jan 05 02:13	18° <b>©</b> 54'56	
conjunction	9905 Jan 10 17:21	24°₹49'03	0°41'51	min. Earth dist.	9911 Jan 05 10:38	18° <b>©</b> 52'09	3.94955 AU
minimum elong	9905 Jan 10 17:21	24° <b>る</b> 49'03	0°42'14	direct	9911 Mar 04 22:21	13° <b>©</b> 59'47	
max. Earth dist.	9905 Jan 10 23:10	24° <b>る</b> 52'11	6.46099 AU		9911 Jun 22 22:30	$0^{\circ}\Omega$	
morning rise	9905 Jan 23 20:56	27° <b>る</b> 38'21		evening set	9911 Jul 09 15:47	4° <b>Ω</b> 00'35	
	9905 Feb 04 00:47	0° <b>≈</b>			0011 1 1 22 21 11	70 <b>0</b> 1 4122	0026142
retrograde	9905 May 24 19:03	14°≈23'09	0050120	conjunction	9911 Jul 22 21:11	7° <b>Ω</b> 14'32	
opposition	9905 Jul 24 15:30	9°≈27'09	0°52'38	minimum elong	9911 Jul 22 21:12	7° <b>Ω</b> 14'33	0°37'05 5.91043 AU
min. Earth dist.	9905 Jul 24 20:49	9°≈25'25	4.49364 AU	max. Earth dist.	9911 Jul 23 02:27		5.91043 AU
direct	9905 Sep 24 21:32 9905 Dec 26 23:38	4°≈25'39 15°≈		morning rise	9911 Aug 05 04:58	10° <b>Ω</b> 29'51 15° <b>Ω</b>	
avanina aat	9905 Dec 26 23.38 9906 Jan 28 04:10	13 ≈ 21°≈34'12			9911 Aug 24 00:35 9911 Nov 16 02:05	0° mp	
evening set max. Earth dist.	9906 Jan 28 04.10 9906 Feb 09 07:30	21 ≈34 12 24°≈09'33	6.50497 AU	retrograde	9911 Nov 16 02:03 9911 Dec 15 07:51	1°Mp23'12	
max. Earth dist.	9900 Feb 09 07.30	24 ≈0933	0.30497 AU	renograde	9911 Dec 13 07:31 9912 Jan 13 12:01	1 11/23 12 30°RΩ	
conjunction	9906 Feb 10 04:56	24°≈21'02	0°28'16	opposition	9912 Feb 12 17:08	26° <b>Ω</b> 22'19	-0°40'15
minimum elong	9906 Feb 10 04:57	24°≈21'02	0°28'32	min. Earth dist.	9912 Feb 12 00:02	26°Ω28'05	3.89897 AU
morning rise	9906 Feb 23 03:25	27°≈06'49	0 20 32	direct	9912 Apr 10 17:02	21° <b>Ω</b> 27'33	3.07077 110
	9906 Mar 08 21:16	0° <b>\</b>			9912 Jun 25 06:19	0° m	
retrograde	9906 Jun 23 11:31	13° <b>)</b> (40′53		evening set	9912 Aug 15 17:22	11° <b>m</b> y 37'06	
opposition	9906 Aug 23 13:00	8° <b>)(</b> 47'04	0°26'58		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
min. Earth dist.	9906 Aug 24 12:30	8° <b>)</b> (39'33	4.49491 AU	conjunction	9912 Aug 29 05:38	14° <b>m</b> 54'03	-0°13'54
direct	9906 Oct 25 05:21	3° <b>)</b> 45'44		minimum elong	9912 Aug 29 05:39	14° m 54'03	0°14'02
evening set	9907 Feb 27 07:29	20° <b>¥</b> 58'50		behind sun begin	9912 Aug 29 01:32	14° <b>m</b> 51'34	
max. Earth dist.	9907 Mar 10 07:28	23° <b>∺</b> 21′23	6.46278 AU	behind sun end	9912 Aug 29 09:46	14° m 56'33	
				max. Earth dist.	9912 Aug 30 23:57	15° <b>m</b> 19'48	5.91608 AU
conjunction	9907 Mar 12 04:23	23° <b>)</b> 45′44	0°07'24	morning rise	9912 Sep 11 20:03	18° <b>m</b> 12'04	
minimum elong	9907 Mar 12 04:23	23° <b>)</b> √45'44		-	9912 Nov 03 11:57	0∘ <b>⊽</b>	
behind sun begin	9907 Mar 11 21:07	23° <b>)</b> √41'49		retrograde	9913 Jan 21 08:31	8° <b>≏</b> 51'18	
behind sun end	9907 Mar 12 11:39	23° <b>)</b> 49′39		asc. node	9913 Mar 15 02:40	4° <b>≏</b> 41'12	
morning rise	9907 Mar 24 23:33	26° <b>)</b> 31′54		min. Earth dist.	9913 Mar 20 06:26	3° <b>ჲ</b> 59'23	3.96068 AU
	9907 Apr 10 07:23	$0$ ° $\mathbf{\gamma}$		opposition	9913 Mar 21 16:49	3° <b>≏</b> 47'42	0°00'43
desc. node	9907 Jul 15 07:03	13° <b>Y</b> 18'40			9913 Apr 22 18:18	30°R Mp	
retrograde	9907 Jul 24 06:20	13° <b>Y</b> 26'10		direct	9913 May 18 18:07	28° <b>m</b> 51'29	
opposition	9907 Sep 23 06:27	8° <b>Y</b> 33'10	-0°06'11		9913 Jun 13 19:12	0∘ <b>ত</b>	
min. Earth dist.	9907 Sep 24 19:26	8° <b>Y</b> 21'21	4.41153 AU	evening set	9913 Sep 22 16:44	18° <b>≏</b> 31'47	
direct	9907 Nov 24 18:13	3° <b>Ƴ</b> 32′30					
evening set	9908 Mar 28 21:36	21° <b>Υ</b> 12'33		conjunction	9913 Oct 06 08:05	21° <b>≏</b> 44'53	0°14'09

	0012 0-4 06 00:04	210 0 44/52	0014117	JJ.	0010 M 24 12-22	1100056121	
minimum elong	9913 Oct 06 08:04	21° <b>Ω</b> 44'53	0°14'17	desc. node	9919 May 24 13:33	11° <b>Υ</b> 56'21 17° <b>Υ</b> 50'09	
behind sun begin	9913 Oct 06 04:19	21° <b>Ω</b> 42'40		retrograde	9919 Jul 28 16:07	1/°γ′50′09 12° <b>Υ</b> ′57′12	0011104
behind sun end	9913 Oct 06 11:50	21° <b>£</b> 47'05	( 02((( AII	opposition	9919 Sep 27 16:37	$12^{\circ}$ <b>\gamma</b> 5/12 $12^{\circ}$ <b>\gamma</b> 45'13	
max. Earth dist.	9913 Oct 08 20:22	22° <b>Ω</b> 20'28	6.02666 AU	min. Earth dist.	9919 Sep 29 06:11	7° <b>Υ</b> 56'44	4.39526 AU
morning rise	9913 Oct 20 00:51	24° <b>£</b> 58′23 0° <b>M</b>		direct	9919 Nov 29 01:10	25° <b>Υ</b> 41'52	
	9913 Nov 10 23:27			evening set	9920 Apr 02 06:33	28° <b>Y</b> 01'26	( 22200 AII
retrograde min. Earth dist.	9914 Feb 25 19:39 9914 Apr 24 21:06	14°M35'52 9°M45'03	4.10720 AU	max. Earth dist.	9920 Apr 12 16:39	28"   01'20	6.32288 AU
	=	9°M31'49	4.10720 AU 0°39'18	agniumation	0020 Apr 15 01:19	28° <b>Ƴ</b> 33'10	0°10'14
opposition direct	9914 Apr 26 12:12 9914 Jun 24 09:53	4°M33'20	0 39 18	conjunction minimum elong	9920 Apr 15 01:18	28° <b>Y</b> 33'10	
direct	9914 Juli 24 09.33 9914 Sep 20 06:37	4 11633 20 15°M		minimum eiong	9920 Apr 15 01:17 9920 Apr 21 12:15	0° <b>8</b>	0 1924
avanina aat	9914 Sep 20 00:37 9914 Oct 29 00:45	23°M22'51		morning rise	•	1° <b>8</b> 24'17	
evening set	9914 Oct 29 00.43	23 11622 31		morning rise	9920 Apr 27 19:08 9920 Jul 06 11:03	15° <b>8</b>	
conjunction	9914 Nov 11 14:42	26°M27'38	0°35'44	retrograde	9920 Aug 29 20:02	19° <b>8</b> 17'13	
minimum elong	9914 Nov 11 14:42 9914 Nov 11 14:41	26°M27'38	0°36'04	renograde	9920 Aug 29 20:02 9920 Oct 24 19:03	15°R <b>X</b>	
max. Earth dist.	9914 Nov 13 20:38	26°M58'16	6.19504 AU	opposition	9920 Oct 24 19:03 9920 Oct 29 12:09	13 KO 14° <b>6</b> 23'42	0043133
morning rise	9914 Nov 25 04:43	20 IIL38 10 29°IL32'05	0.19304 AU	min. Earth dist.	9920 Oct 29 12:09 9920 Oct 31 03:53	14° <b>8</b> 10'53	
morning rise	9914 Nov 27 06:27	29 11 <b>6</b> 32 03		direct	9920 Dec 29 22:45	9° <b>8</b> 24'42	4.23923 AU
retrograde	9914 Nov 27 06.27 9915 Mar 30 15:06	0 x. 17° <b>₹</b> 53'17		direct	9920 Dec 29 22.43 9921 Mar 02 11:16	15° <b>8</b>	
•		17 <b>x</b> · 33 17 12° <b>x</b> 751'17	1°01'40	avaning sat	9921 May 04 13:23	27° <b>8</b> 57'45	
opposition min. Earth dist.	9915 May 29 17:24 9915 May 28 12:41	12 <b>x</b> · 31 17 13° <b>x</b> 00'52	4.28080 AU	evening set	9921 May 13 08:18	27 <b>Ο</b> 3743 0° <b>Π</b>	
	9915 Jul 28 23:11	7° <b>×</b> 50'59	4.28080 AU	may Earth dist	9921 May 15 07:08		6 15170 ATT
direct		7 <b>x</b> · 30 39 25° <b>x</b> d9'47		max. Earth dist.	9921 May 13 07.08	0 щ2/13	6.15170 AU
evening set	9915 Dec 02 00:49	23 <b>x</b> ·4947		conjunction	0021 May 17, 00:06	0° <b>П</b> 56'21	0027140
conjunction	0015 Dag 15 10-26	28° <b>∡</b> ¹45'50	0°44'41	minimum elong	9921 May 17 09:06	0° <b>П</b> 56'20	
•	9915 Dec 15 10:36	28° <b>x</b> 45'50	0°45'05	C	9921 May 17 09:05 9921 May 30 04:48	0 H3620 3°H55'19	0 38 08
minimum elong max. Earth dist.	9915 Dec 15 10:36	28 × 43 30 29° × 03'35	6.35988 AU	morning rise	9921 May 30 04.48 9921 Oct 04 14:31	3 <b>П</b> 33 19 23° <b>П</b> 02'34	
max. Earth dist.	9915 Dec 16 19:00	29° <b>X</b> '03'33	0.33988 AU	retrograde opposition		23° <b>П</b> 02′34 18° <b>П</b> 07′25	1904!24
marning rise	9915 Dec 21 02:00 9915 Dec 28 19:07	0 3 1° <b>る</b> 41'01		min. Earth dist.	9921 Dec 03 19:40 9921 Dec 04 23:29	18 <b>П</b> 0723 17° <b>П</b> 58'20	
morning rise		18° <b>る</b> 59'01				17 <b>П</b> 38 20 13° <b>П</b> 10'37	4.00309 AU
retrograde	9916 Apr 29 06:48 9916 Jun 28 20:45	18° <b>ろ</b> 3901 14° <b>ろ</b> 00'17	1°04'15	direct	9922 Feb 01 20:05	0°9	
opposition				avanina aat	9922 May 28 00:59	2° <b>©</b> 37'25	
min. Earth dist. direct	9916 Jun 28 08:19	14°る04'21 8°る59'04	4.42476 AU	evening set	9922 Jun 08 02:39 9922 Jun 20 00:01	5° <b>©</b> 29'00	5.99120 AU
	9916 Aug 29 07:22	8 03904 26° <b>る</b> 21'34		max. Earth dist.	9922 Juli 20 00.01	3 902900	3.99120 AU
evening set	9917 Jan 01 22:02	20 021 34		agnismation	0022 Jun 21 02:19	5° <b>©</b> 44'51	0944126
agniumation				conjunction	9922 Jun 21 02:18	3 2944 31	-0 44 20
	0017 Ion 15 02:41	200至11100	0040120	minimum alana	0022 Jun 21 02:19	50644151	0044!50
conjunction	9917 Jan 15 02:41	29°る11'08	0°40'28	minimum elong	9922 Jun 21 02:18	5°944'51	0°44'50
minimum elong	9917 Jan 15 02:41	29° <b>ප</b> 11'08	0°40'50	morning rise	9922 Jul 04 03:30	8°\$53'21	0°44'50
	9917 Jan 15 02:41 9917 Jan 15 05:19	29°පි11'08 29°පි12'33		morning rise retrograde	9922 Jul 04 03:30 9922 Nov 11 19:40	8°\$53'21 29°\$13'16	
minimum elong max. Earth dist.	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42	29°ප11'08 29°ප12'33 0°≈	0°40'50	morning rise retrograde opposition	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32	8°\$53'21 29°\$13'16 24°\$15'21	-1°02'39
minimum elong	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25	29°る11'08 29°る12'33 0°≈ 1°≈59'40	0°40'50	morning rise retrograde opposition min. Earth dist.	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42	
minimum elong max. Earth dist. morning rise	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29	29°♂11'08 29°♂12'33 0°≈ 1°≈59'40 15°≈	0°40'50	morning rise retrograde opposition	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21	-1°02'39
minimum elong max. Earth dist.	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56	29° <b>ठ</b> 11'08 29° <b>ठ</b> 12'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43	0°40'50	morning rise retrograde opposition min. Earth dist. direct	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47	8°©53'21 29°©13'16 24°©15'21 24°©13'42 19°©20'21 0°N	-1°02'39
minimum elong max. Earth dist. morning rise retrograde	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58	29°♂11'08 29°♂12'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43	0°40'50 6.47283 AU	morning rise retrograde opposition min. Earth dist.	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21	-1°02'39
minimum elong max. Earth dist. morning rise retrograde opposition	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59	29°♂11'08 29°♂12'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43 15°R≈ 13°≈45'05	0°40'50 6.47283 AU 0°49'36	morning rise retrograde opposition min. Earth dist. direct evening set	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47 9923 Jul 14 22:55	8°553'21 29°513'16 24°515'21 24°513'42 19°520'21 0°N 9°N25'36	-1°02'39 3.93415 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10	29°♂11'08 29°♂12'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43 15°R≈ 13°≈45'05 13°≈42'27	0°40'50 6.47283 AU	morning rise retrograde opposition min. Earth dist. direct evening set conjunction	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47 9923 Jul 14 22:55 9923 Jul 28 05:34	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$A 9°\$\alpha 25'36	-1°02'39 3.93415 AU -0°34'13
minimum elong max. Earth dist. morning rise retrograde opposition	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06	29°♂11'08 29°♂12'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43 15°R≈ 13°≈45'05 13°≈42'27 8°≈43'36	0°40'50 6.47283 AU 0°49'36	morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47 9923 Jul 14 22:55 9923 Jul 28 05:34 9923 Jul 28 05:35	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$1 9°\$125'36 12°\$140'31 12°\$140'32	-1°02'39 3.93415 AU -0°34'13 0°34'33
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06 9917 Dec 07 08:05	29°♂11'08 29°♂12'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43 15°R≈ 13°≈45'05 13°≈42'27 8°≈43'36	0°40'50 6.47283 AU 0°49'36	morning rise retrograde opposition min. Earth dist. direct evening set conjunction	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47 9923 Jul 14 22:55 9923 Jul 28 05:34 9923 Jul 28 05:35 9923 Jul 28 17:41	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$1 9°\$125'36 12°\$140'31 12°\$140'32 12°\$147'57	-1°02'39 3.93415 AU -0°34'13
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06 9917 Dec 07 08:05 9918 Feb 01 10:34	29°\( \overline{\overline{\sigma}}\) 11'08 29°\( \overline{\overline{\sigma}}\) 12'33 0°\( \infty\) 15°\( \infty\) 18°\( \infty\) 40'43 15°\( \infty\) 13°\( \infty\) 45'05 13°\( \infty\) 42'27 8°\( \infty\) 43'36 15°\( \infty\) 25°\( \infty\) 50'48	0°40'50 6.47283 AU 0°49'36 4.50043 AU	morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47 9923 Jul 14 22:55 9923 Jul 28 05:34 9923 Jul 28 05:35 9923 Jul 28 17:41 9923 Aug 06 17:17	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$\Omega\$ 9°\$\Omega\$25'36 12°\$\Omega\$40'31 12°\$\Omega\$40'32 12°\$\Omega\$47'57 15°\$\Omega\$	-1°02'39 3.93415 AU -0°34'13 0°34'33
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06 9917 Dec 07 08:05	29°♂11'08 29°♂12'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43 15°R≈ 13°≈45'05 13°≈42'27 8°≈43'36	0°40'50 6.47283 AU 0°49'36	morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47 9923 Jul 14 22:55 9923 Jul 28 05:34 9923 Jul 28 05:35 9923 Jul 28 17:41 9923 Aug 06 17:17 9923 Aug 10 14:21	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$\Omega\$ 9°\$\Omega\$25'36  12°\$\Omega\$40'32 12°\$\Omega\$47'57 15°\$\Omega\$15'\Omega\$6'44	-1°02'39 3.93415 AU -0°34'13 0°34'33
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06 9917 Dec 07 08:05 9918 Feb 01 10:34 9918 Feb 13 08:21	29°511'08 29°512'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43 15°R≈ 13°≈45'05 13°≈42'27 8°≈43'36 15°≈ 25°≈50'48 28°≈23'17	0°40'50 6.47283 AU 0°49'36 4.50043 AU 6.50590 AU	morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47 9923 Jul 14 22:55 9923 Jul 28 05:34 9923 Jul 28 05:35 9923 Jul 28 17:41 9923 Aug 06 17:17 9923 Aug 10 14:21 9923 Oct 13 11:51	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$\Omega\$ 9°\$\Omega\$25'36  12°\$\Omega\$40'32 12°\$\Omega\$47'57 15°\$\Omega\$ 15°\$\Omega\$6'44 0°\$\Omega\$	-1°02'39 3.93415 AU -0°34'13 0°34'33
minimum elong max. Earth dist.  morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06 9917 Dec 07 08:05 9918 Feb 01 10:34 9918 Feb 13 08:21	29°♂11'08 29°♂12'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43 15°R≈ 13°≈45'05 13°≈42'27 8°≈43'36 15°≈ 25°≈50'48 28°≈23'17	0°40'50 6.47283 AU 0°49'36 4.50043 AU 6.50590 AU 0°25'37	morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47 9923 Jul 14 22:55 9923 Jul 28 05:34 9923 Jul 28 05:35 9923 Jul 28 17:41 9923 Aug 06 17:17 9923 Aug 10 14:21 9923 Oct 13 11:51 9923 Dec 20 20:34	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$\Omega\$ 9°\$\Omega\$25'36  12°\$\Omega\$40'32 12°\$\Omega\$47'57 15°\$\Omega\$ 15°\$\Omega\$56'44 0°\$\Omega\$6"\$52'41	-1°02'39 3.93415 AU -0°34'13 0°34'33 5.90224 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06 9917 Dec 07 08:05 9918 Feb 01 10:34 9918 Feb 14 10:36 9918 Feb 14 10:36	29°511'08 29°512'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43 15°R≈ 13°≈45'05 13°≈42'27 8°≈43'36 15°≈ 25°≈50'48 28°≈23'17 28°≈37'20 28°≈37'20	0°40'50 6.47283 AU 0°49'36 4.50043 AU 6.50590 AU	morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jul 04 06:47 9923 Jul 14 22:55 9923 Jul 28 05:34 9923 Jul 28 05:35 9923 Jul 28 17:41 9923 Aug 06 17:17 9923 Aug 10 14:21 9923 Oct 13 11:51 9923 Dec 20 20:34 9924 Feb 17 08:20	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$\Omega\$ 9°\$\Omega\$25'36  12°\$\Omega\$40'32 12°\$\Omega\$47'57 15°\$\Omega\$ 15°\$\Omega\$56'44 0°\$\Omega\$6"\$\Omega\$52'41 1°\$\Omega\$58'05	-1°02'39 3.93415 AU -0°34'13 0°34'33 5.90224 AU 3.89921 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06 9917 Dec 07 08:05 9918 Feb 01 10:34 9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 20 21:09	29°\( \frac{1}{3}\) 10'\( \text{29} \) \( \frac{1}{3}\) 12'\( \text{29} \) 3'\( \text{20} \) 15\( \text{20} \) 15\( \text{20} \) 15\( \text{20} \) 15\( \text{20} \) 13\( \text{20} \) 42'\( \text{27} \) 8\( \text{20} \) 43'\( \text{26} \) 15\( \text{20} \) 28\( \text{20} \) 37'\( \text{20} \) 28\( \text{20} \) 37'\( \text{20} \) 0\( \text{20} \) \( \text{20} \)	0°40'50 6.47283 AU 0°49'36 4.50043 AU 6.50590 AU 0°25'37	morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jul 04 06:47 9923 Jul 14 22:55 9923 Jul 28 05:34 9923 Jul 28 05:35 9923 Jul 28 17:41 9923 Aug 06 17:17 9923 Aug 10 14:21 9923 Oct 13 11:51 9923 Dec 20 20:34 9924 Feb 17 08:20 9924 Feb 18 04:10	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$\Omega\$ 9°\$\Omega\$25'36  12°\$\Omega\$40'31 12°\$\Omega\$40'32 12°\$\Omega\$47'57 15°\$\Omega\$ 15°\$\Omega\$56'44 0°\$\Omega\$ 6°\$\Omega\$52'41 1°\$\Omega\$58'05 1°\$\Omega\$51'22	-1°02'39 3.93415 AU -0°34'13 0°34'33 5.90224 AU 3.89921 AU
minimum elong max. Earth dist.  morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong  morning rise	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06 9917 Dec 07 08:05 9918 Feb 01 10:34 9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 20 21:09 9918 Feb 27 08:37	29°311'08 29°312'33 0°\$ 1°\$59'40 15°\$ 18°\$40'43 15°\$\$ 13°\$45'05 13°\$42'27 8°\$43'36 15°\$ 25°\$50'48 28°\$23'17  28°\$37'20 28°\$37'20 0°\$\$ 1°\$£22'54	0°40'50 6.47283 AU 0°49'36 4.50043 AU 6.50590 AU 0°25'37	morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jul 04 06:47 9923 Jul 14 22:55  9923 Jul 28 05:34 9923 Jul 28 05:35 9923 Jul 28 17:41 9923 Aug 06 17:17 9923 Aug 10 14:21 9923 Oct 13 11:51 9923 Dec 20 20:34 9924 Feb 17 08:20 9924 Feb 18 04:10 9924 Mar 03 06:24	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$\Omega\$ 9°\$\Omega\$25'36  12°\$\Omega\$40'31 12°\$\Omega\$40'32 12°\$\Omega\$47'57 15°\$\Omega\$ 6°\$\Omega\$52'41 1°\$\Omega\$58'05 1°\$\Omega\$58'05	-1°02'39 3.93415 AU -0°34'13 0°34'33 5.90224 AU 3.89921 AU
minimum elong max. Earth dist.  morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong  morning rise retrograde	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06 9917 Dec 07 08:05 9918 Feb 01 10:34 9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 20 21:09 9918 Feb 27 08:37 9918 Jun 27 17:59	29°\$\forall'08 29°\$\forall'2'33 0°\$\inc 10\inc 59'40 15°\$\inc 18\inc 40'43 15\inc R\inc 13\inc 42'27 8\inc 43'36 15\inc 25\inc 50'48 28\inc 43'720 28\inc 37'20 0\inc \to 10\to 22'54 17\inc \to 57'23	0°40'50 6.47283 AU 0°49'36 4.50043 AU 6.50590 AU 0°25'37 0°25'51	morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47 9923 Jul 14 22:55  9923 Jul 28 05:34 9923 Jul 28 05:35 9923 Jul 28 17:41 9923 Aug 06 17:17 9923 Aug 10 14:21 9923 Oct 13 11:51 9923 Dec 20 20:34 9924 Feb 17 08:20 9924 Feb 18 04:10 9924 Mar 03 06:24 9924 Apr 16 02:25	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$\Omega\$ 9°\$\Omega\$25'36  12°\$\Omega\$40'31 12°\$\Omega\$40'32 12°\$\Omega\$47'57 15°\$\Omega\$ 15°\$\Omega\$52'41 1°\$\Omega\$58'05 1°\$\Omega\$51'22 30°\$\Omega\$0	-1°02'39 3.93415 AU -0°34'13 0°34'33 5.90224 AU 3.89921 AU
minimum elong max. Earth dist.  morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong  morning rise retrograde opposition	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06 9917 Dec 07 08:05 9918 Feb 01 10:34 9918 Feb 13 08:21  9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 20 21:09 9918 Feb 27 08:37 9918 Jun 27 17:59 9918 Aug 27 19:04	29°511'08 29°512'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43 15°R≈ 13°≈45'05 13°≈42'27 8°≈43'36 15°≈ 25°≈50'48 28°≈23'17 28°≈37'20 0° H 1° H 22'54 17° H 57'23 13° H 03'44	0°40'50 6.47283 AU 0°49'36 4.50043 AU 6.50590 AU 0°25'37 0°25'51	morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47 9923 Jul 14 22:55  9923 Jul 28 05:34 9923 Jul 28 05:35 9923 Jul 28 05:35 9923 Jul 28 17:41 9923 Aug 06 17:17 9923 Aug 10 14:21 9923 Oct 13 11:51 9923 Dec 20 20:34 9924 Feb 17 08:20 9924 Feb 18 04:10 9924 Mar 03 06:24 9924 Apr 16 02:25 9924 May 29 06:27	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$\Omega\$ 9°\$\Omega\$25'36  12°\$\Omega\$40'31 12°\$\Omega\$40'32 12°\$\Omega\$47'57 15°\$\Omega\$ 15°\$\Omega\$52'41 1°\$\Omega\$52'41 1°\$\Omega\$58'05 1°\$\Omega\$51'22 30°\$\Omega\$0	-1°02'39 3.93415 AU -0°34'13 0°34'33 5.90224 AU 3.89921 AU
minimum elong max. Earth dist.  morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong  morning rise retrograde opposition min. Earth dist.	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06 9917 Dec 07 08:05 9918 Feb 01 10:34 9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 27 08:37 9918 Jun 27 17:59 9918 Aug 27 19:04 9918 Aug 28 21:02	29°511'08 29°512'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43 15°R≈ 13°≈45'05 13°≈42'27 8°≈43'36 15°≈ 25°≈50'48 28°≈23'17 28°≈37'20 0°% 1°%22'54 17°%57'23 13°%03'44 12°%55'25	0°40'50 6.47283 AU 0°49'36 4.50043 AU 6.50590 AU 0°25'37 0°25'51	morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47 9923 Jul 14 22:55  9923 Jul 28 05:34 9923 Jul 28 05:35 9923 Jul 28 17:41 9923 Aug 06 17:17 9923 Aug 10 14:21 9923 Oct 13 11:51 9923 Dec 20 20:34 9924 Feb 17 08:20 9924 Feb 18 04:10 9924 Mar 03 06:24 9924 Apr 16 02:25	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$\Omega\$ 9°\$\Omega\$25'36  12°\$\Omega\$40'31 12°\$\Omega\$40'32 12°\$\Omega\$47'57 15°\$\Omega\$ 15°\$\Omega\$52'41 1°\$\Omega\$58'05 1°\$\Omega\$51'22 30°\$\Omega\$0	-1°02'39 3.93415 AU -0°34'13 0°34'33 5.90224 AU 3.89921 AU
minimum elong max. Earth dist.  morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong  morning rise retrograde opposition min. Earth dist. direct	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06 9917 Dec 07 08:05 9918 Feb 01 10:34 9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 20 21:09 9918 Feb 27 08:37 9918 Jun 27 17:59 9918 Aug 27 19:04 9918 Aug 28 21:02 9918 Oct 29 11:49	29°511'08 29°512'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43 15°R≈ 13°≈42'27 8°≈43'36 15°≈ 25°≈50'48 28°≈23'17 28°≈37'20 0°H 1°H22'54 17°H57'23 13°H03'44 12°H55'25 8°H02'25	0°40'50 6.47283 AU 0°49'36 4.50043 AU 6.50590 AU 0°25'37 0°25'51	morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47 9923 Jul 14 22:55  9923 Jul 28 05:34 9923 Jul 28 05:35 9923 Jul 28 05:35 9923 Jul 28 17:41 9923 Aug 06 17:17 9923 Aug 10 14:21 9923 Oct 13 11:51 9923 Dec 20 20:34 9924 Feb 17 08:20 9924 Feb 18 04:10 9924 Mar 03 06:24 9924 Apr 16 02:25 9924 May 29 06:27 9924 Aug 21 03:44	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$\Omega\$ 9°\$\Omega\$25'36  12°\$\Omega\$40'32 12°\$\Omega\$40'32 12°\$\Omega\$47'57 15°\$\Omega\$15'805 1°\$\Omega\$52'41 1°\$\Omega\$58'05 1°\$\Omega\$56'34 0°\$\Omega\$17°\$\Omega\$04'47	-1°02'39 3.93415 AU -0°34'13 0°34'33 5.90224 AU 3.89921 AU -0°35'00
minimum elong max. Earth dist.  morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong  morning rise retrograde opposition min. Earth dist. direct evening set	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06 9917 Dec 07 08:05 9918 Feb 01 10:34 9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 20 21:09 9918 Feb 27 08:37 9918 Jun 27 17:59 9918 Aug 27 19:04 9918 Aug 28 21:02 9918 Oct 29 11:49 9919 Mar 03 13:19	29°511'08 29°512'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43 15°R≈ 13°≈45'05 13°≈42'27 8°≈43'36 15°≈ 25°≈50'48 28°≈23'17 28°≈37'20 28°≈37'20 0° H 1° H 22'54 17° H 57'23 13° H 03'44 12° H 55'25 8° H 02'25 25° H 17'30	0°40'50 6.47283 AU 0°49'36 4.50043 AU 6.50590 AU 0°25'37 0°25'51	morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47 9923 Jul 14 22:55  9923 Jul 28 05:34 9923 Jul 28 05:35 9923 Jul 28 05:35 9923 Jul 28 17:41 9923 Aug 06 17:17 9923 Aug 10 14:21 9923 Oct 13 11:51 9923 Dec 20 20:34 9924 Feb 17 08:20 9924 Feb 18 04:10 9924 Mar 03 06:24 9924 Apr 16 02:25 9924 May 29 06:27 9924 Aug 21 03:44	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$\Omega\$ 9°\$\Omega\$25'36  12°\$\Omega\$40'31 12°\$\Omega\$47'57 15°\$\Omega\$15'80 15°\$\Omega\$56'44 0°\$\Omega\$6'52'41 1°\$\Omega\$58'05 1°\$\Omega\$51'22 30°\$\Omega\$0 26°\$\Omega\$56'34 0°\$\Omega\$1'39	-1°02'39 3.93415 AU -0°34'13 0°34'33 5.90224 AU -0°35'00
minimum elong max. Earth dist.  morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong  morning rise retrograde opposition min. Earth dist. direct	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06 9917 Dec 07 08:05 9918 Feb 01 10:34 9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 20 21:09 9918 Feb 27 08:37 9918 Jun 27 17:59 9918 Aug 27 19:04 9918 Aug 28 21:02 9918 Oct 29 11:49	29°511'08 29°512'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43 15°R≈ 13°≈42'27 8°≈43'36 15°≈ 25°≈50'48 28°≈23'17 28°≈37'20 0°H 1°H22'54 17°H57'23 13°H03'44 12°H55'25 8°H02'25	0°40'50 6.47283 AU 0°49'36 4.50043 AU 6.50590 AU 0°25'37 0°25'51	morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47 9923 Jul 14 22:55  9923 Jul 28 05:34 9923 Jul 28 05:35 9923 Jul 28 05:35 9923 Jul 28 17:41 9923 Aug 06 17:17 9923 Aug 10 14:21 9923 Oct 13 11:51 9923 Dec 20 20:34 9924 Feb 17 08:20 9924 Feb 18 04:10 9924 Mar 03 06:24 9924 Apr 16 02:25 9924 May 29 06:27 9924 Aug 21 03:44  9924 Sep 03 16:37 9924 Sep 03 16:37	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$\Omega\$ 9°\$\Omega\$25'36  12°\$\Omega\$40'32 12°\$\Omega\$47'57 15°\$\Omega\$ 15°\$\Omega\$56'44 0°\$\Omega\$6'\$\Omega\$52'41 1°\$\Omega\$58'05 1°\$\Omega\$56'34 0°\$\Omega\$1'22 30°\$\Omega\$1'70\$\Omega\$1'39 20°\$\Omega\$21'40	-1°02'39 3.93415 AU -0°34'13 0°34'33 5.90224 AU -0°35'00
minimum elong max. Earth dist.  morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong  morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06 9917 Dec 07 08:05 9918 Feb 01 10:34 9918 Feb 13 08:21  9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 20 21:09 9918 Feb 27 08:37 9918 Jun 27 17:59 9918 Aug 27 19:04 9918 Aug 28 21:02 9918 Oct 29 11:49 9919 Mar 03 13:19 9919 Mar 14 11:42	29°511'08 29°512'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43 15°R≈ 13°≈45'05 13°≈42'27 8°≈43'36 15°≈ 25°≈50'48 28°≈23'17 28°≈37'20 28°≈37'20 0° \tau 1°\tau2'54 17°\tau57'23 13°\tau63'44 12°\tau55'25 8°\tau60'25 25°\tau17'30 27°\tau39'30	0°40'50 6.47283 AU 0°49'36 4.50043 AU 6.50590 AU 0°25'37 0°25'51 0°22'33 4.48979 AU 6.45183 AU	morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong behind sun begin	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47 9923 Jul 14 22:55  9923 Jul 28 05:34 9923 Jul 28 05:35 9923 Jul 28 17:41 9923 Aug 06 17:17 9923 Aug 10 14:21 9923 Oct 13 11:51 9923 Dec 20 20:34 9924 Feb 17 08:20 9924 Feb 18 04:10 9924 Mar 03 06:24 9924 Apr 16 02:25 9924 May 29 06:27 9924 Aug 21 03:44  9924 Sep 03 16:37 9924 Sep 03 16:37 9924 Sep 03 09:55	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$\alpha\$ 9°\$\alpha 25'36  12°\$\alpha 40'32 12°\$\alpha 40'32 12°\$\alpha 47'57 15°\$\alpha\$ 6°\$\mu 52'41 1°\$\mu 58'05 1°\$\mu 51'22 30°\$\alpha\$ 26°\$\alpha 56'34 0°\$\mu\$ 17°\$\mu 04'47  20°\$\mu 21'39 20°\$\mu 21'40 20°\$\mu 17'36	-1°02'39 3.93415 AU -0°34'13 0°34'33 5.90224 AU -0°35'00
minimum elong max. Earth dist.  morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong  morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06 9917 Dec 07 08:05 9918 Feb 01 10:34 9918 Feb 13 08:21  9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 20 21:09 9918 Feb 27 08:37 9918 Jun 27 17:59 9918 Aug 27 19:04 9918 Aug 28 21:02 9918 Oct 29 11:49 9919 Mar 03 13:19 9919 Mar 16 09:59	29°511'08 29°512'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43 15°R≈ 13°≈45'05 13°≈42'27 8°≈43'36 15°≈ 25°≈50'48 28°≈23'17 28°≈37'20 0°Ж 1°₩22'54 17°₩57'23 13°₩03'44 12°₩55'25 8°₩02'25 25°₩17'30 27°₩39'30	0°49'36 4.50043 AU 6.50590 AU 0°25'37 0°25'51 0°22'33 4.48979 AU 6.45183 AU 0°04'07	morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong behind sun begin behind sun end	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47 9923 Jul 14 22:55  9923 Jul 28 05:34 9923 Jul 28 05:35 9923 Jul 28 17:41 9923 Aug 06 17:17 9923 Aug 10 14:21 9923 Oct 13 11:51 9923 Dec 20 20:34 9924 Feb 17 08:20 9924 Feb 18 04:10 9924 Mar 03 06:24 9924 Apr 16 02:25 9924 May 29 06:27 9924 Aug 21 03:44  9924 Sep 03 16:37 9924 Sep 03 16:38 9924 Sep 03 09:55 9924 Sep 03 23:21	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$\alpha\$ 9°\$\alpha 25'36  12°\$\alpha 40'32 12°\$\alpha 40'32 12°\$\alpha 40'57 15°\$\alpha\$ 15°\$\alpha 55'44 0°\$\text{m}\$ 6°\$\text{m}\$52'41 1°\$\text{m}\$58'05 1°\$\text{m}\$51'22 30°\$\alpha\$ 26°\$\alpha 56'34 0°\$\text{m}\$ 17°\$\text{m}\$04'47  20°\$\text{m}\$21'40 20°\$\text{m}\$21'40 20°\$\text{m}\$25'43	-1°02'39 3.93415 AU -0°34'13 0°34'33 5.90224 AU -0°35'00 -0°09'56 0°10'02
minimum elong max. Earth dist.  morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong  morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction min. Earth dist. direct evening set max. Earth dist.	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06 9917 Dec 07 08:05 9918 Feb 01 10:34 9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 20 21:09 9918 Feb 27 08:37 9918 Jun 27 17:59 9918 Aug 27 19:04 9918 Aug 28 21:02 9918 Oct 29 11:49 9919 Mar 03 13:19 9919 Mar 16 09:59 9919 Mar 16 09:59	29°511'08 29°512'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43 15°R≈ 13°≈45'05 13°≈42'27 8°≈43'36 15°≈ 25°≈50'48 28°≈23'17 28°≈37'20 0°Ж 1°Ж22'54 17°Ж57'23 13°Ж03'44 12°Ж55'25 8°Ж02'25 25°Ж17'30 27°Ж39'30 28°Ж04'39 28°Ж04'39	0°40'50 6.47283 AU 0°49'36 4.50043 AU 6.50590 AU 0°25'37 0°25'51 0°22'33 4.48979 AU 6.45183 AU	morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist.	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47 9923 Jul 14 22:55  9923 Jul 28 05:34 9923 Jul 28 05:35 9923 Jul 28 17:41 9923 Aug 06 17:17 9923 Aug 10 14:21 9923 Oct 13 11:51 9923 Dec 20 20:34 9924 Feb 17 08:20 9924 Feb 18 04:10 9924 Mar 03 06:24 9924 Apr 16 02:25 9924 May 29 06:27 9924 Aug 21 03:44  9924 Sep 03 16:37 9924 Sep 03 16:38 9924 Sep 03 23:21 9924 Sep 05 14:39	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$\alpha\$ 9°\$\alpha25'36  12°\$\alpha40'32 12°\$\alpha40'32 12°\$\alpha40'57 15°\$\alpha\$ 15°\$\alpha56'44 0°\$\mathred{m}\$ 6°\$\mathred{m}\$52'41 1°\$\mathred{m}\$58'05 1°\$\mathred{m}\$51'22 30°\$\alpha\$ 26°\$\alpha56'34 0°\$\mathred{m}\$ 17°\$\mathred{m}\$04'47  20°\$\mathred{m}\$21'40 20°\$\mathred{m}\$21'40 20°\$\mathred{m}\$25'43 20°\$\mathred{m}\$49'34	-1°02'39 3.93415 AU -0°34'13 0°34'33 5.90224 AU -0°35'00
minimum elong max. Earth dist.  morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong  morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong behind sun begin	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06 9917 Dec 07 08:05 9918 Feb 01 10:34 9918 Feb 13 08:21  9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 20 21:09 9918 Feb 27 08:37 9918 Jun 27 17:59 9918 Aug 27 19:04 9918 Aug 28 21:02 9918 Oct 29 11:49 9919 Mar 03 13:19 9919 Mar 16 09:59 9919 Mar 16 09:59 9919 Mar 16 09:59 9919 Mar 16 02:07	29°511'08 29°512'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43 15°R≈ 13°≈42'27 8°≈43'36 15°≈ 25°≈50'48 28°≈23'17  28°≈37'20 0°Ж 1°Ж22'54 17°Ж57'23 13°Ж03'44 12°Ж55'25 8°Ж02'25 25°Ж17'30 27°Ж39'30 28°Ж04'39 28°Ж04'39 28°Ж04'39 28°Ж04'39	0°49'36 4.50043 AU 6.50590 AU 0°25'37 0°25'51 0°22'33 4.48979 AU 6.45183 AU 0°04'07	morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong behind sun begin behind sun end	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47 9923 Jul 14 22:55  9923 Jul 28 05:34 9923 Jul 28 05:35 9923 Jul 28 17:41 9923 Aug 06 17:17 9923 Aug 10 14:21 9923 Oct 13 11:51 9923 Dec 20 20:34 9924 Feb 17 08:20 9924 Feb 18 04:10 9924 Mar 03 06:24 9924 Apr 16 02:25 9924 May 29 06:27 9924 Aug 21 03:44  9924 Sep 03 16:37 9924 Sep 03 16:38 9924 Sep 03 23:21 9924 Sep 05 14:39 9924 Sep 17 07:51	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$\alpha\$ 9°\$\alpha25'36  12°\$\alpha40'32 12°\$\alpha40'32 12°\$\alpha47'57 15°\$\alpha\$ 15°\$\alpha56'44 0°\$\mathred{m}\$ 6°\$\mathred{m}\$52'41 1°\$\mathred{m}\$58'05 1°\$\mathred{m}\$51'22 30°\$\alpha\$ 26°\$\alpha56'34 0°\$\mathred{m}\$ 17°\$\mathred{m}\$04'47  20°\$\mathred{m}\$21'40 20°\$\mathred{m}\$25'43 20°\$\mathred{m}\$25'43 20°\$\mathred{m}\$49'34 23°\$\mathred{m}\$39'34	-1°02'39 3.93415 AU -0°34'13 0°34'33 5.90224 AU -0°35'00 -0°09'56 0°10'02
minimum elong max. Earth dist.  morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong  morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction min. Earth dist. direct evening set max. Earth dist.	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06 9917 Dec 07 08:05 9918 Feb 01 10:34 9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 20 21:09 9918 Feb 27 08:37 9918 Jun 27 17:59 9918 Aug 27 19:04 9918 Aug 28 21:02 9918 Oct 29 11:49 9919 Mar 03 13:19 9919 Mar 16 09:59 9919 Mar 16 09:59 9919 Mar 16 02:07 9919 Mar 16 02:07	29°511'08 29°512'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43 15°R≈ 13°≈42'27 8°≈43'36 15°≈ 25°≈50'48 28°≈23'17 28°≈37'20 0°H 1°H22'54 17°H57'23 13°H03'44 12°H55'25 8°H02'25 25°H17'30 27°H39'30 28°H04'39 28°H04'39 28°H04'39 28°H04'39 28°H06'54	0°49'36 4.50043 AU 6.50590 AU 0°25'37 0°25'51 0°22'33 4.48979 AU 6.45183 AU 0°04'07	morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47 9923 Jul 14 22:55  9923 Jul 28 05:34 9923 Jul 28 05:35 9923 Jul 28 17:41 9923 Aug 06 17:17 9923 Aug 10 14:21 9923 Oct 13 11:51 9923 Dec 20 20:34 9924 Feb 17 08:20 9924 Feb 18 04:10 9924 Mar 03 06:24 9924 Apr 16 02:25 9924 May 29 06:27 9924 Aug 21 03:44  9924 Sep 03 16:37 9924 Sep 03 16:38 9924 Sep 03 09:55 9924 Sep 03 23:21 9924 Sep 05 14:39 9924 Sep 17 07:51 9924 Oct 14 09:59	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$\alpha\$ 9°\$\alpha25'36  12°\$\alpha40'31 12°\$\alpha40'32 12°\$\alpha47'57 15°\$\alpha\$ 15°\$\alpha56'44 0°\$\mathred{m}\$ 6°\$\mathred{m}\$52'41 1°\$\mathred{m}\$58'05 1°\$\mathred{m}\$51'22 30°\$\alpha\$ 26°\$\alpha56'34 0°\$\mathred{m}\$ 17°\$\mathred{m}\$04'47  20°\$\mathred{m}\$21'40 20°\$\mathred{m}\$17'36 20°\$\mathred{m}\$25'43 20°\$\mathred{m}\$49'34 23°\$\mathred{m}\$39'34 0°\$\mathred{\sigma}\$	-1°02'39 3.93415 AU -0°34'13 0°34'33 5.90224 AU -0°35'00 -0°09'56 0°10'02
minimum elong max. Earth dist.  morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong  morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong behind sun begin	9917 Jan 15 02:41 9917 Jan 15 05:19 9917 Jan 18 21:42 9917 Jan 28 05:25 9917 Apr 08 13:29 9917 May 28 23:56 9917 Jul 19 01:58 9917 Jul 28 20:59 9917 Jul 29 05:10 9917 Sep 29 06:06 9917 Dec 07 08:05 9918 Feb 01 10:34 9918 Feb 13 08:21  9918 Feb 14 10:36 9918 Feb 14 10:36 9918 Feb 20 21:09 9918 Feb 27 08:37 9918 Jun 27 17:59 9918 Aug 27 19:04 9918 Aug 28 21:02 9918 Oct 29 11:49 9919 Mar 03 13:19 9919 Mar 16 09:59 9919 Mar 16 09:59 9919 Mar 16 09:59 9919 Mar 16 02:07	29°511'08 29°512'33 0°≈ 1°≈59'40 15°≈ 18°≈40'43 15°R≈ 13°≈42'27 8°≈43'36 15°≈ 25°≈50'48 28°≈23'17  28°≈37'20 0°Ж 1°Ж22'54 17°Ж57'23 13°Ж03'44 12°Ж55'25 8°Ж02'25 25°Ж17'30 27°Ж39'30 28°Ж04'39 28°Ж04'39 28°Ж04'39 28°Ж04'39	0°49'36 4.50043 AU 6.50590 AU 0°25'37 0°25'51 0°22'33 4.48979 AU 6.45183 AU 0°04'07	morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong behind sun begin behind sun end max. Earth dist.	9922 Jul 04 03:30 9922 Nov 11 19:40 9923 Jan 10 11:32 9923 Jan 10 16:31 9923 Mar 10 04:19 9923 Jun 04 06:47 9923 Jul 14 22:55  9923 Jul 28 05:34 9923 Jul 28 05:35 9923 Jul 28 17:41 9923 Aug 06 17:17 9923 Aug 10 14:21 9923 Oct 13 11:51 9923 Dec 20 20:34 9924 Feb 17 08:20 9924 Feb 18 04:10 9924 Mar 03 06:24 9924 Apr 16 02:25 9924 May 29 06:27 9924 Aug 21 03:44  9924 Sep 03 16:37 9924 Sep 03 16:38 9924 Sep 03 23:21 9924 Sep 05 14:39 9924 Sep 17 07:51	8°\$53'21 29°\$13'16 24°\$15'21 24°\$13'42 19°\$20'21 0°\$\alpha\$ 9°\$\alpha25'36  12°\$\alpha40'32 12°\$\alpha40'32 12°\$\alpha47'57 15°\$\alpha\$ 15°\$\alpha56'44 0°\$\mathred{m}\$ 6°\$\mathred{m}\$52'41 1°\$\mathred{m}\$58'05 1°\$\mathred{m}\$51'22 30°\$\alpha\$ 26°\$\alpha56'34 0°\$\mathred{m}\$ 17°\$\mathred{m}\$04'47  20°\$\mathred{m}\$21'40 20°\$\mathred{m}\$25'43 20°\$\mathred{m}\$25'43 20°\$\mathred{m}\$49'34 23°\$\mathred{m}\$39'34	-1°02'39 3.93415 AU -0°34'13 0°34'33 5.90224 AU -0°35'00 -0°09'56 0°10'02

min. Earth dist.	9925 Mar 25 09:23	9° <b>£</b> 21'28	3.97688 AU	conjunction	9931 Mar 20 14:22	2° <b>Y</b> 21'11 0°00'48
opposition	9925 Mar 26 22:32	9° <b>⊆</b> 2128	0°06'48	minimum elong	9931 Mar 20 14:22	2° <b>Υ</b> 21'11 0°00'48
direct	9925 May 24 00:56	4° <b>£</b> 12'19	0 00 40	behind sun begin	9931 Mar 20 06:23	2°Υ16'51
evening set	9925 Sep 27 23:45	23° <b>Ω</b> 46'15		behind sun end	9931 Mar 20 22:20	2° <b>Υ</b> 25'31
evening sec	7723 Sep 27 23.13	23 - 10 13		morning rise	9931 Apr 02 08:58	5° <b>Υ</b> 08'09
conjunction	9925 Oct 11 15:06	26° <b>£</b> 58'18	0°17'50	desc. node	9931 Apr 02 16:05	5° <b>Υ</b> 12'01
minimum elong	9925 Oct 11 15:05	26° <b>£</b> 58'18	0°17'59	retrograde	9931 Aug 02 04:19	22° <b>Υ</b> 13'44
max. Earth dist.	9925 Oct 14 03:39	27° <b>£</b> 33'52	6.04888 AU	opposition	9931 Oct 02 03:03	17° <b>Υ</b> 20'45 -0°15'54
man. Darm dist.	9925 Oct 24 13:25	0°M	0.01000110	min. Earth dist.	9931 Oct 03 18:10	17° <b>Υ</b> 08'14 4.37387 AU
morning rise	9925 Oct 25 07:43	0°ML10'39		direct	9931 Dec 03 09:26	12° <b>Y</b> '20'21
. 8	9926 Jan 06 05:14	15° <b>M</b> ₊			9932 Apr 05 18:01	0°8
retrograde	9926 Mar 02 15:27	19° <b>M</b> 37'01		evening set	9932 Apr 06 16:04	0° <b>8</b> 12'18
	9926 Apr 28 01:17	15°RM		max. Earth dist.	9932 Apr 17 02:43	2° <b>8</b> 32'56 6.29728 AU
min. Earth dist.	9926 Apr 29 19:13	14°M45'51	4.13290 AU		r	•
opposition	9926 May 01 09:02	14°MJ33'03	0°43'37	conjunction	9932 Apr 19 11:00	3° <b>8</b> 04'39 -0°22'17
direct	9926 Jun 29 11:52	9° <b>M</b> 34'13		minimum elong	9932 Apr 19 10:59	3° <b>8</b> 04'38 0°22'28
	9926 Aug 29 05:48	15° <b>M</b> ₊		morning rise	9932 May 02 04:50	5° <b>8</b> 56'49
evening set	9926 Nov 02 23:35	28°M15'20		Ü	9932 Jun 13 21:59	15° <b>8</b>
Ü	9926 Nov 10 17:36	0° <b>∡</b> 7		retrograde	9932 Sep 03 16:12	24° <b>8</b> 00'24
				opposition	9932 Nov 03 07:15	19° <b>8</b> 06'44 -0°47'26
conjunction	9926 Nov 16 13:08	1° <b>√</b> 18'44	0°37'49	min. Earth dist.	9932 Nov 04 22:01	18° <b>8</b> 54'14 4.21129 AU
minimum elong	9926 Nov 16 13:07	1° <b>≯</b> 18'43	0°38'10		9932 Dec 10 22:54	15° <b>₹</b> 8
max. Earth dist.	9926 Nov 18 18:25	1° <b>∡</b> ¹48'47	6.22195 AU	direct	9933 Jan 03 12:27	14° <b>8</b> 08'04
morning rise	9926 Nov 30 02:21	4° <b>҂</b> 21'39			9933 Jan 27 02:19	15° <b>8</b>
retrograde	9927 Apr 03 23:53	22° <b>҂</b> 31'44			9933 Apr 26 22:47	0°II
min. Earth dist.	9927 Jun 02 01:36	17° <b>∡</b> ³39'19	4.30661 AU	evening set	9933 May 09 07:04	2° <b>Ⅱ</b> 50′06
opposition	9927 Jun 03 05:18	17° <b>∡</b> ³30'05	1°03'09	max. Earth dist.	9933 May 20 02:55	5° <b>Ⅱ</b> 21'49 6.12366 AU
direct	9927 Aug 02 14:53	12° <b>∡</b> ¹29'36			•	
	9927 Dec 04 23:59	0°ರ		conjunction	9933 May 22 03:05	5° <b>I</b> I50′03 -0°39′36
evening set	9927 Dec 06 14:56	0° <b>る</b> 21'06		minimum elong	9933 May 22 03:04	5°II50'03 0°39'58
Ü				morning rise	9933 Jun 03 23:32	8° <b>Ⅲ</b> 50′32
conjunction	9927 Dec 19 23:49	3° <b>る</b> 15'53	0°44'49	retrograde	9933 Oct 09 22:20	28° <b>Ⅱ</b> 10′14
minimum elong	9927 Dec 19 23:49	3° <b>ප</b> 15'52	0°45'13	opposition	9933 Dec 09 01:00	23° <b>Ⅱ</b> 14'45 -1°05'43
max. Earth dist.	9927 Dec 21 03:10	3° <b>ප</b> 30'48	6.38251 AU	min. Earth dist.	9933 Dec 10 02:04	23° <b>Ⅱ</b> 06'32 4.04002 AU
morning rise	9928 Jan 02 07:32	6° <b>る</b> 09'48		direct	9934 Feb 06 21:02	18° <b>Ⅱ</b> 18'16
retrograde	9928 May 03 11:50	23° <b>る</b> 19'56			9934 May 10 01:12	0ಂತ
opposition	9928 Jul 03 02:33	18° <b>る</b> 21'37	1°03'04	evening set	9934 Jun 13 05:28	7° <b>©</b> 53'09
min. Earth dist.	9928 Jul 02 17:56	18° <b>る</b> 24'26	4.44266 AU	max. Earth dist.	9934 Jun 25 10:21	10°950'00 5.97062 AU
direct	9928 Sep 02 18:38	13° <b>පි</b> 20'15				
	9929 Jan 03 05:07	0° <b>≈</b>		conjunction	9934 Jun 26 06:12	11°502'01 -0°44'00
evening set	9929 Jan 06 05:26	0° <b>≈</b> 38′22		minimum elong	9934 Jun 26 06:12	11°502'01 0°44'25
				morning rise	9934 Jul 09 08:20	14°9511'56
conjunction	9929 Jan 19 09:26	3° <b>≈</b> 27'12	0°38'54	-	9934 Sep 22 17:35	$0^{\circ}\Omega$
minimum elong	9929 Jan 19 09:26	3° <b>≈</b> 27'13	0°39'16	retrograde	9934 Nov 17 10:33	4° <b>Ω</b> 40'48
max. Earth dist.	9929 Jan 19 07:49	3° <b>≈</b> 26′20	6.48462 AU		9935 Jan 13 19:11	30° <b></b> ₹©
morning rise	9929 Feb 01 11:23	6° <b>≈</b> 15′00		opposition	9935 Jan 15 23:49	29°5642'28 -1°00'08
	9929 Mar 17 06:28	15° <b>≈</b>		min. Earth dist.	9935 Jan 16 01:09	29°5642'01 3.92122 AU
retrograde	9929 Jun 02 01:13	22° <b>≈</b> 52'40		direct	9935 Mar 15 12:24	24°9547'42
opposition	9929 Aug 02 00:04	17° <b>≈</b> 57'18	0°46'24		9935 May 12 02:23	$0^{\circ}\Omega$
min. Earth dist.	9929 Aug 02 10:34	17° <b>≈</b> 53'55	4.50559 AU	evening set	9935 Jul 20 09:06	14° <b>Ω</b> 56'10
	9929 Aug 26 14:34	15°R <b>≈</b>			9935 Jul 20 15:24	15° <b>Ω</b>
direct	9929 Oct 03 10:34	12° <b>≈</b> 55'44				
	9929 Nov 10 14:14	15° <b>≈</b>		conjunction	9935 Aug 02 16:37	18° <b>Ω</b> 11'44 -0°31'23
evening set	9930 Feb 05 14:42	0° <b>∺</b> 02'18		minimum elong	9935 Aug 02 16:39	18° <b>Ω</b> 11'45 0°31'40
	9930 Feb 05 10:23	0° <b>ℋ</b>		max. Earth dist.	9935 Aug 03 09:39	18° <b>Ω</b> 22'11 5.89818 AU
max. Earth dist.	9930 Feb 17 08:57	2° <b>升</b> 32'59	6.50398 AU	morning rise	9935 Aug 16 02:40	21° <b>Ω</b> 28'41
					9935 Sep 21 14:11	0° <b>m</b>
conjunction	9930 Feb 18 14:14	2° <b>)</b> 48′40	0°22'53	retrograde	9935 Dec 26 07:33	12° <b>m</b> 24'44
minimum elong	9930 Feb 18 14:15	2° <b>)</b> 48'41	0°23'06	opposition	9936 Feb 23 15:57	$7^{\circ}$ <b>m</b> 22'57 $-0^{\circ}$ 29'23
morning rise	9930 Mar 03 11:37	5° <b>)</b> 34′05		min. Earth dist.	9936 Feb 22 15:42	7° Mp 31'10 3.90469 AU
retrograde	9930 Jul 01 22:35	22° <b>ℋ</b> 10′06		direct	9936 Apr 21 12:58	2° <b>m</b> 28'01
opposition	9930 Aug 31 23:54	17° <b>∺</b> 16′38	0°18'04	evening set	9936 Aug 26 14:52	22° <b>m</b> 32'47
min. Earth dist.	9930 Sep 02 04:34	17° <b>∺</b> 07'28	4.48083 AU			
direct	9930 Nov 02 16:43	12° <b>升</b> 15′22		conjunction	9936 Sep 09 04:23	25° Mp 49'15 -0°05'52
evening set	9931 Mar 07 18:11	29° <b>∺</b> 33'37		minimum elong	9936 Sep 09 04:22	25° <b>m</b> 49'15 0°05'56
	9931 Mar 09 18:57	$0^{\circ}\mathbf{\Upsilon}$		behind sun begin	9936 Sep 08 20:24	25° <b>m</b> 44'27
max. Earth dist.	9931 Mar 18 12:04	1° <b>Y</b> 53'45	6.43624 AU	behind sun end	9936 Sep 09 12:21	25° <b>m</b> 54'03

max. Earth dist.	9936 Sep 11 05:56	26° Mp 19'12	5.93890 AU	desc. node	9943 Feb 08 16:35	27° <b>¥</b> 23'48	
morning rise	9936 Sep 22 20:02	29° Mp 06'39			9943 Feb 21 13:07	$0$ ° $\Upsilon$	
	9936 Sep 26 13:23	0∘ <b>⊽</b>		evening set	9943 Mar 12 01:16	3° <b>Y</b> 56'29	
asc. node	9936 Dec 01 11:04	13° <b>≙</b> 54'16		max. Earth dist.	9943 Mar 22 18:25	6° <b>Ƴ</b> 16'46	6.41842 AU
retrograde	9937 Jan 31 16:54	19° <b>₽</b> 31'21					
min. Earth dist.	9937 Mar 30 13:48	14° <b>≙</b> 40′03	3.99775 AU	conjunction	9943 Mar 24 21:16	6° <b>Ƴ</b> 44'38	-0°02'39
opposition	9937 Apr 01 03:19	14° <b>≙</b> 27'17	0°12'46	minimum elong	9943 Mar 24 21:17	6° <b>Ƴ</b> 44'38	0°02'41
direct	9937 May 29 09:23	9° <b>₽</b> 30'27		behind sun begin	9943 Mar 24 13:19	6° <b>Ƴ</b> 40'18	
evening set	9937 Oct 03 05:13	28° <b>≏</b> 56'31		behind sun end	9943 Mar 25 05:14	6° <b>Ƴ</b> 48'58	
S	9937 Oct 07 18:18	0°M		morning rise	9943 Apr 06 15:32	9° <b>Ƴ</b> 32'11	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0 110		retrograde	9943 Aug 06 18:26	26° <b>Y</b> 44'58	
conjunction	9937 Oct 16 20:36	2°M07'23	0°21'20	opposition	9943 Oct 06 16:21	21° <b>Υ</b> 52'00	0°20'46
·							4.35153 AU
minimum elong	9937 Oct 16 20:35	2°M07'23	0°21'31	min. Earth dist.	9943 Oct 08 08:25		4.35153 AU
max. Earth dist.	9937 Oct 19 10:44	2°M43'39	6.07422 AU	direct	9943 Dec 07 20:10	16° <b>Y</b> 51'52	
morning rise	9937 Oct 30 12:50	5°M18'23			9944 Mar 20 01:45	0°8	
	9937 Dec 14 00:01	15°M		evening set	9944 Apr 11 04:21	4° <b>8</b> 50'46	
retrograde	9938 Mar 07 08:06	24°M32'56		max. Earth dist.	9944 Apr 21 13:59	7° <b>8</b> 11'42	6.27208 AU
min. Earth dist.	9938 May 04 14:23	19°M41'53	4.16001 AU				
opposition	9938 May 06 03:53	19°M29'14	0°47'33	conjunction	9944 Apr 23 23:09	7° <b>8</b> 44'05	-0°25'16
11	9938 Jun 17 02:26	15°RM		minimum elong	9944 Apr 23 23:08	7° <b>8</b> 44'05	0°25'29
direct	9938 Jul 04 10:23	14°M30'12		morning rise	9944 May 06 17:21	10° <b>8</b> 37'24	0 20 29
direct	9938 Jul 21 22:32	15°M		morning rise	9944 May 26 11:20	15°B	
					•		
	9938 Oct 25 01:13	0° <b>∡</b> 7		retrograde	9944 Sep 08 16:07	28° <b>8</b> 51'38	
evening set	9938 Nov 07 20:42	3° <b>≯</b> 03'00		opposition	9944 Nov 08 05:35	23° <b>8</b> 57'46	
				min. Earth dist.	9944 Nov 09 18:46	_	4.18508 AU
conjunction	9938 Nov 21 09:29	6° <b>₰</b> 04'59	0°39'37	direct	9945 Jan 08 06:34	18° <b>8</b> 59'24	
minimum elong	9938 Nov 21 09:28	6° <b>₰</b> 04'59	0°39'58		9945 Apr 09 02:11	$\Pi$ $^{\circ}0$	
max. Earth dist.	9938 Nov 23 10:17	6° <b>∡</b> 32′22	6.24844 AU	evening set	9945 May 14 03:00	7° <b>Ⅱ</b> 49'32	
morning rise	9938 Dec 04 22:06	9° <b>₰</b> 06'29		max. Earth dist.	9945 May 25 03:57	10° <b>Ⅲ</b> 25′03	6.09903 AU
retrograde	9939 Apr 08 08:55	27° <b>∡</b> ¹06'17			•		
opposition	9939 Jun 07 15:43	22° <b>₹</b> 05'07	1°04'15	conjunction	9945 May 26 23:37	10° <b>Ⅱ</b> 50'47	-0°41'11
min. Earth dist.	9939 Jun 06 15:13	22° 🖈 13'15	4.33040 AU	minimum elong	9945 May 26 23:37	10° <b>Д</b> 50'17	
direct		17°×704'27	4.55040 AC	Č	9945 Jun 08 20:32	13° <b>П</b> 52'34	0 41 33
direct	9939 Aug 07 06:55			morning rise		13 <b>п</b> 3234	
	9939 Nov 18 07:26	0°る			9945 Aug 29 01:16		
evening set	9939 Dec 11 03:46	4° <b>る</b> 49'47		retrograde	9945 Oct 15 08:06	3°523'07	
					9945 Dec 02 08:28	30°RⅡ	
conjunction	9939 Dec 24 12:07	7° <b>る</b> 43'33	0°44'41	opposition	9945 Dec 14 08:04	28° <b>Ⅱ</b> 27'20	-1°06'33
minimum elong	9939 Dec 24 12:07	7° <b>る</b> 43'33	0°45'06	min. Earth dist.	9945 Dec 15 06:15	28° <b>Ⅱ</b> 20′03	4.01957 AU
max. Earth dist.	9939 Dec 25 12:31	7° <b>る</b> 56'48	6.40199 AU	direct	9946 Feb 11 23:18	23° <b>Ⅲ</b> 31'13	
morning rise	9940 Jan 06 18:51	10° <b>る</b> 36'22			9946 Apr 18 18:37	$0$ $\circ$ $\odot$	
retrograde	9940 May 07 14:41	27°る40'02		evening set	9946 Jun 18 09:38	13° <b>©</b> 11'57	
opposition	9940 Jul 07 07:51	22° <b>る</b> 42'13	1°01'34				
min. Earth dist.	9940 Jul 07 01:16	22° <b>る</b> 44'22	4.45674 AU	conjunction	9946 Jul 01 11:03	16° <b>©</b> 21'50	-0°43'15
direct	9940 Sep 07 02:38	17° <b>る</b> 40'51		minimum elong	9946 Jul 01 11:04	16° <b>©</b> 21'50	
direct	9940 Dec 17 17:32	0°≈		max. Earth dist.	9946 Jun 30 19:26	16° <b>©</b> 12'21	5.95639 AU
avanina aat		0 <b>~</b> 4° <b>≈</b> 55'59			7740 Juli 30 17.20		3.73037 AU
evening set	9941 Jan 10 12:49	4 🐃 33 39			0046 Jul 14 14:21	1000522154	
				morning rise	9946 Jul 14 14:21	19° <b>©</b> 32'54	
	0041 I 22 16 02	7044117	0027100	-	9946 Aug 29 12:38	$0^{\circ}\Omega$	
conjunction	9941 Jan 23 16:02	7°≈44'15	0°37'09	retrograde	9946 Aug 29 12:38 9946 Nov 22 21:23	0° <b>Ω</b> 10° <b>Ω</b> 07'39	
minimum elong	9941 Jan 23 16:03	7° <b>≈</b> 44'16	0°37'29	retrograde opposition	9946 Aug 29 12:38 9946 Nov 22 21:23 9947 Jan 21 11:09	0° <b>Ω</b> 10° <b>Ω</b> 07'39 5° <b>Ω</b> 08'45	
minimum elong max. Earth dist.		7°≈44'16 7°≈40'34		retrograde	9946 Aug 29 12:38 9946 Nov 22 21:23	0°N 10°N07'39 5°N08'45 5°N09'58	-0°57'07 3.91511 AU
minimum elong	9941 Jan 23 16:03	7° <b>≈</b> 44'16	0°37'29	retrograde opposition	9946 Aug 29 12:38 9946 Nov 22 21:23 9947 Jan 21 11:09	0° <b>Ω</b> 10° <b>Ω</b> 07'39 5° <b>Ω</b> 08'45	
minimum elong max. Earth dist.	9941 Jan 23 16:03 9941 Jan 23 09:09	7°≈44'16 7°≈40'34	0°37'29	retrograde opposition min. Earth dist.	9946 Aug 29 12:38 9946 Nov 22 21:23 9947 Jan 21 11:09 9947 Jan 21 07:30	0°N 10°N07'39 5°N08'45 5°N09'58	
minimum elong max. Earth dist.	9941 Jan 23 16:03 9941 Jan 23 09:09 9941 Feb 05 17:22	7°≈44'16 7°≈40'34 10°≈31'31	0°37'29	retrograde opposition min. Earth dist.	9946 Aug 29 12:38 9946 Nov 22 21:23 9947 Jan 21 11:09 9947 Jan 21 07:30 9947 Mar 20 19:58	0°N 10°N07'39 5°N08'45 5°N09'58 0°N14'03	
minimum elong max. Earth dist. morning rise retrograde	9941 Jan 23 16:03 9941 Jan 23 09:09 9941 Feb 05 17:22 9941 Feb 27 05:47 9941 Jun 06 05:45	7°≈44'16 7°≈40'34 10°≈31'31 15°≈	0°37'29	retrograde opposition min. Earth dist. direct	9946 Aug 29 12:38 9946 Nov 22 21:23 9947 Jan 21 11:09 9947 Jan 21 07:30 9947 Mar 20 19:58 9947 Jul 03 04:21	0°N 10°N07'39 5°N08'45 5°N09'58 0°N14'03 15°N	
minimum elong max. Earth dist. morning rise retrograde opposition	9941 Jan 23 16:03 9941 Jan 23 09:09 9941 Feb 05 17:22 9941 Feb 27 05:47 9941 Jun 06 05:45 9941 Aug 06 04:27	$7^{\circ} \approx 44'16$ $7^{\circ} \approx 40'34$ $10^{\circ} \approx 31'31$ $15^{\circ} \approx$ $27^{\circ} \approx 07'20$ $22^{\circ} \approx 12'20$	0°37'29 6.49235 AU 0°42'57	retrograde opposition min. Earth dist. direct evening set	9946 Aug 29 12:38 9946 Nov 22 21:23 9947 Jan 21 11:09 9947 Jan 21 07:30 9947 Mar 20 19:58 9947 Jul 03 04:21 9947 Jul 25 17:46	0° N 10° N07'39 5° N08'45 5° N09'58 0° N14'03 15° N 20° N22'56	3.91511 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	9941 Jan 23 16:03 9941 Jan 23 09:09 9941 Feb 05 17:22 9941 Feb 27 05:47 9941 Jun 06 05:45 9941 Aug 06 04:27 9941 Aug 06 18:45	$7^{\circ} \approx 44'16$ $7^{\circ} \approx 40'34$ $10^{\circ} \approx 31'31$ $15^{\circ} \approx$ $27^{\circ} \approx 07'20$ $22^{\circ} \approx 12'20$ $22^{\circ} \approx 07'44$	0°37'29 6.49235 AU	retrograde opposition min. Earth dist. direct evening set conjunction	9946 Aug 29 12:38 9946 Nov 22 21:23 9947 Jan 21 11:09 9947 Jan 21 07:30 9947 Mar 20 19:58 9947 Jul 03 04:21 9947 Jul 25 17:46	0° N 10° N 07'39 5° N 08'45 5° N 09'58 0° N 14'03 15° N 20° N 22'56 23° N 38'49	3.91511 AU -0°28'21
minimum elong max. Earth dist. morning rise retrograde opposition	9941 Jan 23 16:03 9941 Jan 23 09:09 9941 Feb 05 17:22 9941 Feb 27 05:47 9941 Jun 06 05:45 9941 Aug 06 04:27 9941 Aug 06 18:45 9941 Oct 07 17:47	$7^{\circ} \approx 44'16$ $7^{\circ} \approx 40'34$ $10^{\circ} \approx 31'31$ $15^{\circ} \approx$ $27^{\circ} \approx 07'20$ $22^{\circ} \approx 12'20$ $22^{\circ} \approx 07'44$ $17^{\circ} \approx 10'47$	0°37'29 6.49235 AU 0°42'57	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	9946 Aug 29 12:38 9946 Nov 22 21:23 9947 Jan 21 11:09 9947 Jan 21 07:30 9947 Mar 20 19:58 9947 Jul 03 04:21 9947 Jul 25 17:46 9947 Aug 08 02:15 9947 Aug 08 02:16	0° N 10° N07'39 5° N08'45 5° N09'58 0° N14'03 15° N 20° N22'56 23° N38'49 23° N38'50	3.91511 AU -0°28'21 0°28'37
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	9941 Jan 23 16:03 9941 Jan 23 09:09 9941 Feb 05 17:22 9941 Feb 27 05:47 9941 Jun 06 05:45 9941 Aug 06 04:27 9941 Aug 06 18:45 9941 Oct 07 17:47 9942 Jan 20 04:39	7°≈44'16 7°≈40'34 10°≈31'31 15°≈ 27°≈07'20 22°≈12'20 22°≈07'44 17°≈10'47 0°;	0°37'29 6.49235 AU 0°42'57	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	9946 Aug 29 12:38 9946 Nov 22 21:23 9947 Jan 21 11:09 9947 Jan 21 07:30 9947 Mar 20 19:58 9947 Jul 03 04:21 9947 Jul 25 17:46 9947 Aug 08 02:15 9947 Aug 08 02:16 9947 Aug 09 01:27	0° N 10° N07'39 5° N08'45 5° N09'58 0° N14'03 15° N 20° N22'56 23° N38'49 23° N38'50 23° N53'01	3.91511 AU -0°28'21
minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct  evening set	9941 Jan 23 16:03 9941 Jan 23 09:09 9941 Feb 05 17:22 9941 Feb 27 05:47 9941 Jun 06 05:45 9941 Aug 06 04:27 9941 Aug 06 18:45 9941 Oct 07 17:47 9942 Jan 20 04:39 9942 Feb 09 20:03	7°≈44'16 7°≈40'34 10°≈31'31 15°≈ 27°≈07'20 22°≈12'20 22°≈07'44 17°≈10'47 0° ₩ 4°₩17'56	0°37'29 6.49235 AU 0°42'57 4.50661 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	9946 Aug 29 12:38 9946 Nov 22 21:23 9947 Jan 21 11:09 9947 Jan 21 07:30 9947 Mar 20 19:58 9947 Jul 03 04:21 9947 Jul 25 17:46 9947 Aug 08 02:15 9947 Aug 08 02:16 9947 Aug 09 01:27 9947 Aug 21 13:05	0° N 10° N07'39 5° N08'45 5° N09'58 0° N14'03 15° N 20° N22'56 23° N38'49 23° N38'50 23° N53'01 26° N56'00	3.91511 AU -0°28'21 0°28'37
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	9941 Jan 23 16:03 9941 Jan 23 09:09 9941 Feb 05 17:22 9941 Feb 27 05:47 9941 Jun 06 05:45 9941 Aug 06 04:27 9941 Aug 06 18:45 9941 Oct 07 17:47 9942 Jan 20 04:39	7°≈44'16 7°≈40'34 10°≈31'31 15°≈ 27°≈07'20 22°≈12'20 22°≈07'44 17°≈10'47 0° ₩ 4°₩17'56	0°37'29 6.49235 AU 0°42'57	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	9946 Aug 29 12:38 9946 Nov 22 21:23 9947 Jan 21 11:09 9947 Jan 21 07:30 9947 Mar 20 19:58 9947 Jul 03 04:21 9947 Jul 25 17:46 9947 Aug 08 02:15 9947 Aug 08 02:16 9947 Aug 09 01:27 9947 Aug 21 13:05 9947 Sep 03 07:02	0°A 10°N07'39 5°N08'45 5°N09'58 0°N14'03 15°N 20°N22'56 23°N38'49 23°N38'50 23°N53'01 26°N56'00 0°M	3.91511 AU -0°28'21 0°28'37
minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist.	9941 Jan 23 16:03 9941 Jan 23 09:09 9941 Feb 05 17:22 9941 Feb 27 05:47 9941 Jun 06 05:45 9941 Aug 06 04:27 9941 Aug 06 18:45 9941 Oct 07 17:47 9942 Jan 20 04:39 9942 Feb 09 20:03 9942 Feb 21 09:31	7°≈44'16 7°≈40'34 10°≈31'31 15°≈ 27°≈07'20 22°≈12'20 22°≈07'44 17°≈10'47 0° € 4° € 17'56 6° € 46'19	0°37'29 6.49235 AU 0°42'57 4.50661 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	9946 Aug 29 12:38 9946 Nov 22 21:23 9947 Jan 21 11:09 9947 Jan 21 07:30 9947 Mar 20 19:58 9947 Jul 03 04:21 9947 Jul 25 17:46 9947 Aug 08 02:15 9947 Aug 08 02:16 9947 Aug 09 01:27 9947 Aug 21 13:05 9947 Sep 03 07:02 9947 Dec 31 16:24	0°A 10°N07'39 5°N08'45 5°N09'58 0°N14'03 15°N 20°N22'56 23°N38'49 23°N38'50 23°N53'01 26°N56'00 0°M 17°M49'16	3.91511 AU -0°28'21 0°28'37 5.90086 AU
minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist. conjunction	9941 Jan 23 16:03 9941 Jan 23 09:09 9941 Feb 05 17:22 9941 Feb 27 05:47 9941 Jun 06 05:45 9941 Aug 06 04:27 9941 Aug 06 18:45 9941 Oct 07 17:47 9942 Jan 20 04:39 9942 Feb 09 20:03	7°≈44'16 7°≈40'34 10°≈31'31 15°≈ 27°≈07'20 22°≈12'20 22°≈07'44 17°≈10'47 0° \text{\text{\text{\$4\$}}} \text{\text{\$4\$}} \text{\text{\$4\$}} \text{\$17'56} 6° \text{\text{\$4\$}} \text{\$4\$} \text{\$17'56} 7° \text{\text{\$4\$}} \text{\$04'20}	0°37'29 6.49235 AU 0°42'57 4.50661 AU 6.49814 AU 0°20'00	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	9946 Aug 29 12:38 9946 Nov 22 21:23 9947 Jan 21 11:09 9947 Jan 21 07:30 9947 Mar 20 19:58 9947 Jul 03 04:21 9947 Jul 25 17:46 9947 Aug 08 02:15 9947 Aug 08 02:16 9947 Aug 09 01:27 9947 Aug 21 13:05 9947 Sep 03 07:02	0° N 10° N07'39 5° N08'45 5° N09'58 0° N14'03 15° N 20° N22'56 23° N38'49 23° N38'50 23° N56'00 0° M 17° M49'16 12° M55'53	3.91511 AU -0°28'21 0°28'37 5.90086 AU 3.91577 AU
minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist.	9941 Jan 23 16:03 9941 Jan 23 09:09 9941 Feb 05 17:22 9941 Feb 27 05:47 9941 Jun 06 05:45 9941 Aug 06 04:27 9941 Aug 06 18:45 9941 Oct 07 17:47 9942 Jan 20 04:39 9942 Feb 09 20:03 9942 Feb 21 09:31	7°≈44'16 7°≈40'34 10°≈31'31 15°≈ 27°≈07'20 22°≈12'20 22°≈07'44 17°≈10'47 0°	0°37'29 6.49235 AU 0°42'57 4.50661 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	9946 Aug 29 12:38 9946 Nov 22 21:23 9947 Jan 21 11:09 9947 Jan 21 07:30 9947 Mar 20 19:58 9947 Jul 03 04:21 9947 Jul 25 17:46 9947 Aug 08 02:15 9947 Aug 08 02:16 9947 Aug 09 01:27 9947 Aug 21 13:05 9947 Sep 03 07:02 9947 Dec 31 16:24 9948 Feb 27 22:24 9948 Feb 29 00:38	0°A 10°N07'39 5°N08'45 5°N09'58 0°N14'03 15°N 20°N22'56 23°N38'49 23°N38'50 23°N53'01 26°N56'00 0°M 17°M49'16	3.91511 AU -0°28'21 0°28'37 5.90086 AU 3.91577 AU
minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist. conjunction	9941 Jan 23 16:03 9941 Jan 23 09:09 9941 Feb 05 17:22 9941 Feb 27 05:47 9941 Jun 06 05:45 9941 Aug 06 04:27 9941 Aug 06 18:45 9941 Oct 07 17:47 9942 Jan 20 04:39 9942 Feb 09 20:03 9942 Feb 21 09:31 9942 Feb 22 19:05	7°≈44'16 7°≈40'34 10°≈31'31 15°≈ 27°≈07'20 22°≈12'20 22°≈07'44 17°≈10'47 0° \text{\text{\text{\$4\$}}} \text{\text{\$4\$}} \text{\text{\$4\$}} \text{\$17'56} 6° \text{\text{\$4\$}} \text{\$4\$} \text{\$17'56} 7° \text{\text{\$4\$}} \text{\$04'20}	0°37'29 6.49235 AU 0°42'57 4.50661 AU 6.49814 AU 0°20'00	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	9946 Aug 29 12:38 9946 Nov 22 21:23 9947 Jan 21 11:09 9947 Jan 21 07:30 9947 Mar 20 19:58 9947 Jul 03 04:21 9947 Jul 25 17:46 9947 Aug 08 02:15 9947 Aug 08 02:16 9947 Aug 09 01:27 9947 Aug 21 13:05 9947 Sep 03 07:02 9947 Dec 31 16:24 9948 Feb 27 22:24	0° N 10° N07'39 5° N08'45 5° N09'58 0° N14'03 15° N 20° N22'56 23° N38'49 23° N38'50 23° N56'00 0° M 17° M49'16 12° M55'53	3.91511 AU -0°28'21 0°28'37 5.90086 AU 3.91577 AU
minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong	9941 Jan 23 16:03 9941 Jan 23 09:09 9941 Feb 05 17:22 9941 Feb 27 05:47 9941 Jun 06 05:45 9941 Aug 06 04:27 9941 Aug 06 18:45 9941 Oct 07 17:47 9942 Jan 20 04:39 9942 Feb 09 20:03 9942 Feb 21 09:31 9942 Feb 22 19:05 9942 Feb 22 19:06	7°≈44'16 7°≈40'34 10°≈31'31 15°≈ 27°≈07'20 22°≈12'20 22°≈07'44 17°≈10'47 0°	0°37'29 6.49235 AU 0°42'57 4.50661 AU 6.49814 AU 0°20'00	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	9946 Aug 29 12:38 9946 Nov 22 21:23 9947 Jan 21 11:09 9947 Jan 21 07:30 9947 Mar 20 19:58 9947 Jul 03 04:21 9947 Jul 25 17:46 9947 Aug 08 02:15 9947 Aug 08 02:16 9947 Aug 09 01:27 9947 Aug 21 13:05 9947 Sep 03 07:02 9947 Dec 31 16:24 9948 Feb 27 22:24 9948 Feb 29 00:38	0° N 10° N07'39 5° N08'45 5° N09'58 0° N14'03 15° N 20° N22'56 23° N38'50 23° N53'01 26° N56'00 0° M 17° M49'16 12° M55'53 12° M46'59	3.91511 AU -0°28'21 0°28'37 5.90086 AU 3.91577 AU
minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise	9941 Jan 23 16:03 9941 Jan 23 09:09 9941 Feb 05 17:22 9941 Feb 27 05:47 9941 Jun 06 05:45 9941 Aug 06 04:27 9941 Aug 06 18:45 9941 Oct 07 17:47 9942 Jan 20 04:39 9942 Feb 09 20:03 9942 Feb 21 09:31 9942 Feb 22 19:05 9942 Feb 22 19:06 9942 Mar 07 16:02	7°≈44'16 7°≈40'34 10°≈31'31 15°≈ 27°≈07'20 22°≈12'20 22°≈07'44 17°≈10'47 0°	0°37'29 6.49235 AU 0°42'57 4.50661 AU 6.49814 AU 0°20'00	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	9946 Aug 29 12:38 9946 Nov 22 21:23 9947 Jan 21 11:09 9947 Jan 21 07:30 9947 Mar 20 19:58 9947 Jul 03 04:21 9947 Jul 25 17:46 9947 Aug 08 02:15 9947 Aug 09 01:27 9947 Aug 21 13:05 9947 Aug 21 13:05 9947 Dec 31 16:24 9948 Feb 27 22:24 9948 Feb 29 00:38 9948 Apr 26 23:16	0° N 10° N07'39 5° N08'45 5° N09'58 0° N14'03 15° N 20° N22'56 23° N38'50 23° N53'01 26° N56'00 0° M 17° M49'16 12° M55'53 12° M46'59 7° M51'47	3.91511 AU -0°28'21 0°28'37 5.90086 AU 3.91577 AU
minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise retrograde	9941 Jan 23 16:03 9941 Jan 23 09:09 9941 Feb 05 17:22 9941 Feb 27 05:47 9941 Jun 06 05:45 9941 Aug 06 04:27 9941 Aug 06 18:45 9941 Oct 07 17:47 9942 Jan 20 04:39 9942 Feb 09 20:03 9942 Feb 21 09:31 9942 Feb 22 19:05 9942 Feb 22 19:06 9942 Mar 07 16:02 9942 Sep 05 06:47	7°≈44'16 7°≈40'34 10°≈31'31 15°≈ 27°≈07'20 22°≈12'20 22°≈07'44 17°≈10'47 0°	0°37'29 6.49235 AU 0°42'57 4.50661 AU 6.49814 AU 0°20'00 0°20'12	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	9946 Aug 29 12:38 9946 Nov 22 21:23 9947 Jan 21 11:09 9947 Jan 21 07:30 9947 Mar 20 19:58 9947 Jul 03 04:21 9947 Jul 25 17:46 9947 Aug 08 02:15 9947 Aug 09 01:27 9947 Aug 21 13:05 9947 Aug 21 13:05 9947 Dec 31 16:24 9948 Feb 27 22:24 9948 Feb 29 00:38 9948 Aug 31 22:11	0° N 10° N07'39 5° N08'45 5° N09'58 0° N14'03 15° N 20° N22'56 23° N38'50 23° N53'01 26° N56'00 0° M 17° M49'16 12° M55'53 12° M46'59 7° M51'47 27° M51'03	3.91511 AU -0°28'21 0°28'37 5.90086 AU 3.91577 AU
minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition	9941 Jan 23 16:03 9941 Jan 23 09:09 9941 Feb 05 17:22 9941 Feb 27 05:47 9941 Jun 06 05:45 9941 Aug 06 04:27 9941 Aug 06 18:45 9941 Oct 07 17:47 9942 Jan 20 04:39 9942 Feb 09 20:03 9942 Feb 21 09:31 9942 Feb 22 19:06 9942 Mar 07 16:02 9942 Jul 06 05:15	7°≈44'16 7°≈40'34 10°≈31'31 15°≈ 27°≈07'20 22°≈12'20 22°≈07'44 17°≈10'47 0°	0°37'29 6.49235 AU 0°42'57 4.50661 AU 6.49814 AU 0°20'00 0°20'12	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	9946 Aug 29 12:38 9946 Nov 22 21:23 9947 Jan 21 11:09 9947 Jan 21 07:30 9947 Mar 20 19:58 9947 Jul 03 04:21 9947 Jul 25 17:46 9947 Aug 08 02:15 9947 Aug 09 01:27 9947 Aug 21 13:05 9947 Aug 21 13:05 9947 Dec 31 16:24 9948 Feb 27 22:24 9948 Feb 29 00:38 9948 Aug 31 22:11	0° N 10° N07'39 5° N08'45 5° N09'58 0° N14'03 15° N 20° N22'56 23° N38'50 23° N53'01 26° N56'00 0° M 17° M49'16 12° M55'53 12° M46'59 7° M51'47 27° M51'03	3.91511 AU -0°28'21 0°28'37 5.90086 AU 3.91577 AU -0°23'43

minimum elong	9948 Sep 14 12:11	1° <b>£</b> 06'50	0°01'55	minimum elong	9954 Feb 26 23:31	11° <b>){</b> 18′25	0°17'15
behind sun begin	9948 Sep 14 03:48	1° <b>⊆</b> 00'30	0 01 33	morning rise	9954 Mar 11 20:02	14° <b>)</b> (10'25	0 17 15
behind sun end	9948 Sep 14 20:35	1° <b>£</b> 11'51		morning rise	9954 Jun 18 00:11	0°Υ	
max. Earth dist.	9948 Sep 16 17:44		5.95708 AU	retrograde	9954 Jul 10 13:43	0° <b>Υ</b> 46'38	
morning rise	9948 Sep 28 04:05	4° <b>£</b> 23'25		8	9954 Aug 02 01:20	30°R <b>)</b> €	
asc. node	9948 Oct 11 05:30	7° <b>£</b> 28'12		opposition	9954 Sep 09 14:12	25° <b>)</b> 53'29	0°08'45
retrograde	9949 Feb 05 15:29	24° <b>£</b> 38'15		min. Earth dist.	9954 Sep 10 22:54		4.45457 AU
min. Earth dist.	9949 Apr 04 12:47	19° <b>£</b> 47'11	4.02096 AU	direct	9954 Nov 11 05:57	20° <b>)</b> 52'27	
opposition	9949 Apr 06 03:18	19° <b>£</b> 34'06	0°18'22	desc. node	9954 Dec 19 03:47	22° <b>)</b> 56'41	
direct	9949 Jun 03 11:32	14° <b>£</b> 36'57	0 10 22	dose. Hode	9955 Feb 03 22:06	0°Υ	
	9949 Sep 21 02:18	0°M		evening set	9955 Mar 16 08:24	8° <b>Υ</b> 19'20	
evening set	9949 Oct 08 06:18	3°M54'44		max. Earth dist.	9955 Mar 26 22:57	10° <b>Ƴ</b> 38'51	6.40009 AU
C							
conjunction	9949 Oct 21 21:18	7° <b>M</b> 04'17	0°24'32	conjunction	9955 Mar 29 04:07	11° <b>Y</b> 08'06	-0°05'58
minimum elong	9949 Oct 21 21:17	7° <b>M</b> 04'16	0°24'46	minimum elong	9955 Mar 29 04:06	11° <b>Ƴ</b> 08'05	0°06'01
max. Earth dist.	9949 Oct 24 08:58	7° <b>M</b> 38'54	6.09996 AU	behind sun begin	9955 Mar 28 20:30	11° <b>Ƴ</b> 03'56	
morning rise	9949 Nov 04 13:18	10°M13'55		behind sun end	9955 Mar 29 11:41	11° <b>Y</b> 12'14	
	9949 Nov 25 17:20	15° <b>™</b>		morning rise	9955 Apr 10 22:18	13° <b>Ƴ</b> 56'19	
retrograde	9950 Mar 11 20:12	29°M16'59			9955 Jul 13 10:36	0°8	
min. Earth dist.	9950 May 09 06:26	24°M25'34	4.18581 AU	retrograde	9955 Aug 11 08:27	1° <b>8</b> 16'32	
opposition	9950 May 10 18:08	24°M13'32	0°51'01		9955 Sep 09 08:23	30° <b>₹Ƴ</b>	
direct	9950 Jul 09 05:33	19° <b>M</b> 14'11		opposition	9955 Oct 11 06:09	26° <b>Y</b> 23′29	
	9950 Oct 07 16:07	0°⊀		min. Earth dist.	9955 Oct 12 21:35	26° <b>Y</b> 10′51	4.33004 AU
evening set	9950 Nov 12 13:15	7° <b>∡</b> ³39′27		direct	9955 Dec 12 06:28	21° <b>Y</b> 23'34	
					9956 Mar 01 18:14	$0^{\circ}S$	
conjunction	9950 Nov 26 01:39	10° <b>≯</b> 40′13		evening set	9956 Apr 15 16:35	9° <b>8</b> 29'00	
minimum elong	9950 Nov 26 01:38	10° <b>≯</b> 40′12	0°41'29	max. Earth dist.	9956 Apr 26 04:51	11° <b>8</b> 52'07	6.24905 AU
max. Earth dist.	9950 Nov 28 00:08	11° <b>₰</b> 06'09	6.27232 AU				
morning rise	9950 Dec 09 13:21	13° <b>∡</b> ′40′21		conjunction	9956 Apr 28 11:32	12° <b>8</b> 23'17	
	9951 Mar 12 08:41	0°రె		minimum elong	9956 Apr 28 11:31	12° <b>8</b> 23'16	0°28'19
retrograde	9951 Apr 12 14:37	1° <b>る</b> 31'10			9956 May 09 22:46	15° <b>8</b>	
	9951 May 13 16:18	30°Ŗ <b>⋌</b> 7		morning rise	9956 May 11 05:45	15° <b>8</b> 17'34	
opposition	9951 Jun 11 22:46	26° <b>₹</b> 30'32	1°04'59		9956 Jul 25 16:53	0°Щ	
min. Earth dist.	9951 Jun 11 00:32	26° <b>₹</b> 37'54	4.35061 AU	retrograde	9956 Sep 13 15:53	3° <b>∏</b> 41'35	
direct	9951 Aug 11 18:01	21° <b>∡</b> 29'47			9956 Nov 03 16:59	30° <b>₹</b> 8	
	9951 Oct 31 07:50	0° <b>ろ</b>		opposition	9956 Nov 13 03:26	28° <b>8</b> 47'33	
evening set	9951 Dec 15 13:30	9° <b>ට</b> 10'14		min. Earth dist.	9956 Nov 14 15:41	28° <b>8</b> 35'50	4.16210 AU
				direct	9957 Jan 13 00:41	23° <b>8</b> 49'31	
conjunction	9951 Dec 28 20:59	12°る03'06			9957 Mar 19 08:54	0°II	
minimum elong	9951 Dec 28 21:00		0°44'46	evening set	9957 May 18 22:12	12° <b>∏</b> 46'34	6 07702 AII
max. Earth dist.	9951 Dec 29 15:26	12°る13'05	6.41708 AU	max. Earth dist.	9957 May 30 01:19	15°Щ24'10	6.07782 AU
morning rise	9952 Jan 11 03:07	14° <b>る</b> 55'03			005534 21 10 00	1.50 \$\frac{1}{2} \cdot 1.015.5	0040105
. 1	9952 Apr 06 08:03	0° <b>≈</b>		conjunction	9957 May 31 19:08	15° <b>Ⅱ</b> 48'55	
retrograde	9952 May 11 18:04	1°≈53'57		minimum elong	9957 May 31 19:08	15° <b>Ⅱ</b> 48'55	0°42′48
***	9952 Jun 16 02:02	30°Rる	0050151	morning rise	9957 Jun 13 16:53	18° <b>Ⅱ</b> 51'58	
opposition	9952 Jul 11 11:20	26° <b>ろ</b> 56'36			9957 Aug 03 11:24	0.ಪ	
min. Earth dist.	9952 Jul 11 08:28	26°る57'33 21°る55'10	4.46610 AU	retrograde	9957 Oct 20 13:52	8°\$32'08 3°\$35'57	1006140
direct	9952 Sep 11 09:39 9952 Nov 29 18:22	0°≈		opposition min. Earth dist.	9957 Dec 19 13:18 9957 Dec 20 07:31		4.00204 AU
ovening set	9953 Jan 14 18:26	0 ∞ 9°≈08'50		mm. Earth dist.	9958 Jan 19 06:54	30°R∏	4.00204 AU
evening set	1733 Jall 14 18.20	> <b>~</b> 00 30		direct	9958 Jan 19 06:54 9958 Feb 16 23:24	30°KⅢ 28°Ⅱ40'05	
conjunction	9953 Jan 27 21:12	11° <b>≈</b> 56'47	0°35'16	uncci	9958 Feb 16 23:24 9958 Mar 17 12:34	28°Щ40'03 0° <b>©</b>	
minimum elong	9953 Jan 27 21:13		0°35'35	evening set	9958 Jun 23 11:41	18° <b>©</b> 25'52	
max. Earth dist.	9953 Jan 27 11:17		6.49549 AU	evening set	9938 Juli 23 11.41	16 323 32	
max. Earth dist.	9953 Jan 27 11:17 9953 Feb 09 21:46	11°≈31'29 14°≈43'42	0.42347 AU	conjunction	9958 Jul 06 14:04	21° <b>©</b> 36'44	-0°42'08
morning risc	9953 Feb 11 04:30	14 ∞43 42 15°≈		minimum elong	9958 Jul 06 14:04	21°936'44	
	9953 May 11 20:51	0° <b>∀</b>		max. Earth dist.	9958 Jul 06 04:27		5.94426 AU
retrograde	9953 Jun 10 07:50	1° <b>)</b> 19'04		morning rise	9958 Jul 19 18:13	21° <b>©</b> 30'33	5.7 ITZU AU
renograde	9953 Jul 10 07:30 9953 Jul 09 18:49	30°R≈		morning 1130	9958 Aug 10 15:04	0°Ω	
opposition	9953 Aug 10 07:54	26°≈24'25	0°39'22		9958 Nov 11 05:12	15° <b>Ω</b>	
min. Earth dist.	9953 Aug 10 07:54 9953 Aug 10 23:49	26°≈19'18	4.50368 AU	retrograde	9958 Nov 28 08:01	15° <b>Ω</b> 28'50	
direct	9953 Oct 11 21:09	20 <b>≈</b> 1918 21° <b>≈</b> 22'57	1.50500 AU	1011051440	9958 Dec 15 08:49	15°RΩ	
	9954 Jan 02 12:59	0° <b>H</b>		opposition	9959 Jan 26 20:00	10° <b>Ω</b> 29'29	-0°53'38
evening set	9954 Feb 14 01:00	8° <b>)</b> 31′52		min. Earth dist.	9959 Jan 26 13:56	10° <b>£</b> (2)′2)	3.90972 AU
max. Earth dist.	9954 Feb 25 11:12		6.48940 AU	direct	9959 Mar 26 03:26	5° <b>Ω</b> 34'51	
		. , , , , , , , ,			9959 Jun 14 02:00	15° <b>Ω</b>	
conjunction	9954 Feb 26 23:30	11° <b>)</b> 18'24	0°17'05	evening set	9959 Jul 31 00:20	25° <b>Ω</b> 44'17	
3				<i>S</i>			

conjunction	9959 Aug 13 09:45	29° <b>Ω</b> 00'32	0°25'06	conjunction	9965 Feb 01 03:44	16° <b>≈</b> 14'19	0°33'09
minimum elong	9959 Aug 13 09:47	29° <b>Ω</b> 00'32		minimum elong	9965 Feb 01 03:45	16°≈14'19	0°33'28
max. Earth dist.	9959 Aug 14 14:09	29° <b>Ω</b> 17'54	5.90274 AU	max. Earth dist.	9965 Jan 31 13:19	16°≈06'36	6.50074 AU
max. Earm dist.	9959 Aug 17 11:01	0° m	3.90274 AU	morning rise	9965 Feb 14 03:49	10 ≈00 30 19°≈00'49	0.30074 AU
morning rise	9959 Aug 26 21:32	2° m) 18'03		morning risc	9965 Apr 12 04:36	0° <b>)</b> €	
retrograde	9960 Jan 05 22:36	23° Mp 08'54		retrograde	9965 Jun 14 13:25	5° <b>)</b> 34'55	
min. Earth dist.	9960 Mar 04 01:43	18° Mp 16'06	3.92488 AU	opposition	9965 Aug 14 13:16	0° <b>)</b> 40′32	0°35'33
opposition	9960 Mar 05 06:37	18° Mp 06'18		min. Earth dist.	9965 Aug 15 08:00	0° <b>)</b> 34'31	4.50421 AU
direct	9960 May 02 04:25	13° Mp 10'55	0 17 33	mm. Dartii dist.	9965 Aug 19 19:55	30°R≈	1.50 121 110
asc. node	9960 Aug 20 10:40	29° m 09'43		direct	9965 Oct 16 04:42	25°≈39'06	
asc. node	9960 Aug 24 01:09	0° <b>⊽</b>		uncer	9965 Dec 11 16:42	0° <b>∀</b>	
evening set	9960 Sep 06 04:21	ა <u>~</u> 06'05		evening set	9966 Feb 18 06:24	12° <b>)</b> 48'10	
e venning see	3300 Sep 00 01.21	3 <b>—</b> 00 03		max. Earth dist.	9966 Mar 01 14:31	15° <b>)</b> 14'13	6.48533 AU
conjunction	9960 Sep 19 18:38	6° <b>£</b> 21'18	0°02'09	man. Darm uist.	),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10 /(1.15	0.10033110
minimum elong	9960 Sep 19 18:38	6° <b>£</b> 21'18	0°02'10	conjunction	9966 Mar 03 04:30	15° <b>)</b> 34'40	0°14'04
behind sun begin	9960 Sep 19 10:15	6° <b>£</b> 16'18	0 02 10	minimum elong	9966 Mar 03 04:31	15° <b>)</b> (34'40	0°14'11
behind sun end	9960 Sep 20 03:01	6° <b>£</b> 26'18		behind sun begin	9966 Mar 03 00:38	15° <b>)</b> €32'36	0 1.11
max. Earth dist.	9960 Sep 22 00:45	6° <b>£</b> 53'43	5.97224 AU	behind sun end	9966 Mar 03 08:23	15° <b>)</b> 36'45	
morning rise	9960 Oct 03 11:00	9° <b>£</b> 37'19	3.57221110	morning rise	9966 Mar 16 00:27	18° <b>¥</b> 20′18	
retrograde	9961 Feb 10 12:25	29° <b>≏</b> 43'47		morning rise	9966 May 15 17:03	0°Υ	
min. Earth dist.	9961 Apr 09 11:20	24° <b>£</b> 52'46	4.04034 AU	retrograde	9966 Jul 14 19:23	5°Υ04'55	
opposition	9961 Apr 11 02:11	24° <b>£</b> 39'34	0°23'49	opposition	9966 Sep 13 21:33	0° <b>Υ</b> 11'47	0°04'05
direct	9961 Jun 08 13:38	19° <b>£</b> 42'03	0 23 19	min. Earth dist.	9966 Sep 15 06:25	0° <b>Υ</b> 01'18	4.44624 AU
ancet	9961 Sep 02 18:51	0°M		mm. Dartii dist.	9966 Sep 15 10:29	30° <b>₹</b>	1.11021710
evening set	9961 Oct 13 06:59	8°M53'17		desc. node	9966 Oct 30 12:56	25° <b>)</b> 33'55	
e venning see	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0 11003 17		direct	9966 Nov 15 11:42	25° <b>)</b> 10'53	
conjunction	9961 Oct 26 22:00	12° <b>M</b> 01'47	0°27'34	uncer	9967 Jan 13 19:23	0°Υ	
minimum elong	9961 Oct 26 21:59	12°ML01'46	0°27'50	evening set	9967 Mar 20 14:40	12° <b>Υ</b> 40'09	
max. Earth dist.	9961 Oct 29 09:31	12°MJ36'08	6.12187 AU	max. Earth dist.	9967 Mar 31 04:44	14° <b>Υ</b> 59'47	6.38804 AU
man. Darut dige.	9961 Nov 08 19:38	15°M	0.12107110	man. Darm uist.	)))))))	1. (6) .,	0.5000 . 110
morning rise	9961 Nov 09 13:29	15°ML10'12		conjunction	9967 Apr 02 10:00	15° <b>Y</b> 29'11	-0°09'09
morning rise	9962 Jan 23 12:20	0°×7		minimum elong	9967 Apr 02 09:59	15° <b>Υ</b> 29'11	0°09'13
retrograde	9962 Mar 16 10:55	4° <b>₹</b> 103'24		behind sun begin	9967 Apr 02 03:15	15°Υ25'29	0 07 15
retrograde	9962 May 07 22:13	30°RML		behind sun end	9967 Apr 02 16:44	15° <b>Y</b> '32'53	
min. Earth dist.	9962 May 13 23:00	29°M11'44	4.20802 AU	morning rise	9967 Apr 15 03:54	18° <b>Υ</b> 17'46	
opposition	9962 May 15 09:06	29°ML00'17	0°54'10	morning rise	9967 Jun 13 02:03	0°8	
direct	9962 Jul 14 01:04	24°ML00'43	0 2110	retrograde	9967 Aug 15 21:35	5° <b>8</b> 43'17	
direct	9962 Sep 16 20:06	0°×7		opposition	9967 Oct 15 18:14	0° <b>8</b> 50'09	-0°29'54
evening set	9962 Nov 17 07:06	12° <b>×</b> 19'41		min. Earth dist.	9967 Oct 17 10:42		4.31477 AU
evening set	7702 110V 17 07.00	12 7 17 41		mm. Lattii dist.	9967 Oct 22 07:18	30°RY	4.514// 110
conjunction	9962 Nov 30 18:49	15° <b>√</b> 19'19	0°42'22	direct	9967 Dec 16 17:17	25°Υ50'24	
minimum elong	9962 Nov 30 18:48	15° <b>х</b> 19'18	0°42'45	uncer	9968 Feb 08 13:09	0°8	
max. Earth dist.	9962 Dec 02 13:22	15° <b>×</b> <sup>7</sup> 42'57	6.29303 AU	evening set	9968 Apr 20 01:58	14° <b>8</b> 00'06	
morning rise	9962 Dec 14 05:58	18° <b>х</b> 12'37	0.27303710	evening set	9968 Apr 24 11:23	15°8	
morning 1130	9963 Feb 10 18:27	0°පි		max. Earth dist.	9968 Apr 30 13:31		6.23161 AU
retrograde	9963 Apr 16 21:52	°පි01'10		max. Bartii dist.	770071pr 50 15.51	10 023 20	0.23101710
min. Earth dist.	9963 Jun 15 11:24	1°る07'34	4.36853 AU	conjunction	9968 May 02 20:51	16° <b>8</b> 55'04	-0°30'34
opposition	9963 Jun 16 07:24	1°る0'58	1°05'19	minimum elong	9968 May 02 20:50	16° <b>8</b> 55'03	
эррозион	9963 Jun 24 01:19	1 000 38 30°R 🗷	1 00 17	morning rise	9968 May 15 15:22	19° <b>8</b> 50'10	3 33 32
direct	9963 Aug 16 06:11	26° <b>₹</b> 100'04		morning rise	9968 Jul 02 08:54	0°II	
	9963 Oct 08 08:14	20 × 00 04 0°る		retrograde	9968 Sep 18 10:16	8° <b>П</b> 22'10	
evening set	9963 Dec 20 00:59	13° <b>る</b> 36'12		opposition	9968 Nov 17 21:39	3° <b>П</b> 27'51	-0°57'13
e venning see	))03 BCC 20 00.3)	13 030 12		min. Earth dist.	9968 Nov 19 07:42		4.14363 AU
conjunction	9964 Jan 02 07:59	16° <b>පි</b> 28'16	0°43'44	mm. Dartii dist.	9968 Dec 17 12:16	30°R₩	1.1 1505 710
minimum elong	9964 Jan 02 07:59	16° <b>පි</b> 28'17		direct	9969 Jan 17 14:08	28° <b>8</b> 30'01	
max. Earth dist.	9964 Jan 02 23:51		6.43130 AU	uncer	9969 Feb 17 12:25	0°II	
morning rise	9964 Jan 15 13:11	19° <b>る</b> 19'21	0.13130110	evening set	9969 May 23 13:06	17° <b>∏</b> 32'31	
	9964 Mar 09 22:23	0°≈		max. Earth dist.	9969 Jun 03 20:24	20° <b>Ⅱ</b> 13'09	6.05994 AU
retrograde	9964 May 15 22:22	6°≈13'30					,,
opposition	9964 Jul 15 16:49	1°≈16'38	0°57'46	conjunction	9969 Jun 05 10:34	20° <b>∏</b> 35'51	-0°43'17
min. Earth dist.	9964 Jul 15 15:53	1°≈16'56	4.47605 AU	minimum elong	9969 Jun 05 10:34	20° <b>I</b> 35'50	
Zartii dist.	9964 Jul 25 15:40	1 ≈1030 30°Rる	, 505 710	morning rise	9969 Jun 18 08:48	23° <b>II</b> 39'56	J .J 11
direct	9964 Sep 15 17:33	<sup>30</sup> දිර 26° <b>ප</b> 15'15		morning rise	9969 Jul 15 21:49	0°99	
	9964 Nov 06 16:36	20 <b>℃</b> 13 13		retrograde	9969 Oct 25 16:43	13° <b>©</b> 28'41	
evening set	9965 Jan 19 01:46	0 <b>~</b> 13° <b>≈</b> 26'49		opposition	9969 Dec 24 13:44	8°932'09	-1°06'32
2.0	9965 Jan 26 08:45	15° <b>≈</b>		min. Earth dist.	9969 Dec 25 06:36		3.98628 AU
	//00 Juli 20 00.73	15 700		direct	9970 Feb 21 20:35	3°936'27	5.70020 AU
						3021	

evening set	9970 Jun 28 09:14	23°526'56		evening set	9975 Dec 24 12:36	18° <b>පි</b> 02'37	
conjunction	9970 Jul 11 12:31	26° <b>©</b> 38'48	-0°40'45	conjunction	9976 Jan 06 18:48	20°る53'52	0°42'49
minimum elong	9970 Jul 11 12:32	26° <b>©</b> 38'49	0°41'08	minimum elong	9976 Jan 06 18:49	20° <b>る</b> 53'52	0°43'13
max. Earth dist.	9970 Jul 11 06:17	26°935'00	5.93218 AU	max. Earth dist.	9976 Jan 07 06:37	21°る00'14	6.44497 AU
morning rise	9970 Jul 24 17:46	29° <b>9</b> 51'56	3.93210710	morning rise	9976 Jan 19 23:21	23° <b>る</b> 44'08	0.11197710
morning rise	9970 Jul 25 07:04	0°Ω		morning rise	9976 Feb 19 06:57	0°≈	
	9970 Oct 03 05:22	15° <b>Ω</b>		retrograde	9976 May 20 03:02	10° <b>≈</b> 33'39	
retrograde	9970 Dec 03 13:03	20° <b>Ω</b> 37'15		opposition	9976 Jul 19 22:39	5°≈37'06	0°55'18
opposition	9971 Jan 31 23:38	$15^{\circ}\Omega 37'30$	0°40'54	min. Earth dist.	9976 Jul 20 00:09	5°≈36'37	4.48548 AU
min. Earth dist.	9971 Jan 31 14:17		3.90290 AU	direct	9976 Sep 20 01:38	0°≈35'36	4.46546 AU
mm. Earm dist.	9971 Feb 05 15:42	15°RΩ	3.90290 AU	direct	9977 Jan 10 05:55	0 ≈33 30 15°≈	
direct	9971 Mar 31 03:26	10°Ω42'53		evening set	9977 Jan 23 08:56	15 <b>≈</b> 17° <b>≈</b> 45'07	
direct		10 <b>0.4</b> 2 33		evening set	9977 Jan 25 08.50	17 ~4307	
	9971 May 21 20:47	0° mp		aaniumatian	9977 Feb 05 10:25	20° <b>≈</b> 32'12	0°30'49
avanina aat	9971 Aug 01 09:47	0° Mp 54'03		conjunction			0°31'07
evening set	9971 Aug 05 02:57	0 11/3403		minimum elong max. Earth dist.	9977 Feb 05 10:26	20°≈32'13	
	0071 4 10 12 12	40 m- 10147	0021140		9977 Feb 04 17:59	20°≈23'25	6.50504 AU
conjunction	9971 Aug 18 13:12	4° <b>m</b> 10'47		morning rise	9977 Feb 18 09:38	23°≈18'15	
minimum elong	9971 Aug 18 13:14	4° Mp 10'48	0°22'02		9977 Mar 23 05:00	0° <b>)</b> (5112€	
max. Earth dist.	9971 Aug 19 20:04	4° m/29'39	5.90178 AU	retrograde	9977 Jun 18 17:17	9° <b>)</b> €51'26	0001100
morning rise	9971 Sep 01 02:03	7° <b>m</b> 28'48		opposition	9977 Aug 18 18:36	4° <b>)</b> €57'17	
retrograde	9972 Jan 11 00:37	28° Mp 18'50		min. Earth dist.	9977 Aug 19 15:05	4° <b>) (</b> 50′44	4.50289 AU
min. Earth dist.	9972 Mar 09 02:14		3.92985 AU		9977 Oct 13 16:33	30°R <b>≈</b>	
opposition	9972 Mar 10 09:01	23° Mp 15'53	-0°12'14	direct	9977 Oct 20 10:28	29° <b>≈</b> 55'54	
direct	9972 May 07 06:44	18° <b>™</b> 20'16			9977 Oct 27 04:59	0° <b>∀</b>	
asc. node	9972 Jul 02 01:06	23° Mp 13'53		evening set	9978 Feb 22 12:11	17° <b>∺</b> 05'51	
	9972 Aug 06 09:44	0∘ <b>ত</b>		max. Earth dist.	9978 Mar 05 15:53	19° <b>∺</b> 29'51	6.47813 AU
evening set	9972 Sep 11 07:42	8° <b>≏</b> 13'19					
				conjunction	9978 Mar 07 09:38	19° <b>¥</b> 52'24	0°10'54
conjunction	9972 Sep 24 22:38	11° <b>≏</b> 28'18	0°05'56	minimum elong	9978 Mar 07 09:38	19° <b>¥</b> 52'24	0°11'01
minimum elong	9972 Sep 24 22:38	11° <b>≏</b> 28'18	0°05'59	behind sun begin	9978 Mar 07 03:37	19° <b>)</b> 49'10	
behind sun begin	9972 Sep 24 14:40	11° <b>≏</b> 23'34		behind sun end	9978 Mar 07 15:38	19° <b>¥</b> 55'37	
behind sun end	9972 Sep 25 06:37	11° <b>≏</b> 33'02		morning rise	9978 Mar 20 05:16	22° <b>升</b> 38′09	
max. Earth dist.	9972 Sep 27 07:46	12° <b>≙</b> 02'25	5.98279 AU		9978 Apr 25 02:34	$0$ ° $\Upsilon$	
morning rise	9972 Oct 08 15:11	14° <b>≏</b> 43'53		retrograde	9978 Jul 19 05:25	9° <b>Ƴ</b> 26'08	
	9972 Dec 21 11:53	0° <b>M</b>		desc. node	9978 Sep 09 17:42	5° <b>Ƴ</b> 37'45	
retrograde	9973 Feb 15 10:37	4°M44'03		opposition	9978 Sep 18 06:12	4° <b>Ƴ</b> 33'05	-0°00'45
	9973 Apr 13 12:03	30° <b>Ŗ</b> Ω		min. Earth dist.	9978 Sep 19 17:35	4° <b>Y</b> 21'47	4.43331 AU
min. Earth dist.	9973 Apr 14 08:46	29° <b>£</b> 52'59	4.05516 AU		9978 Nov 02 06:56	30°Ŗ <b>ℋ</b>	
opposition	9973 Apr 15 23:23	29° <b>ჲ</b> 39'53	0°28'52	direct	9978 Nov 19 20:08	29° <b>)</b> 32′14	
direct	9973 Jun 13 13:42	24° <b>≏</b> 42'07			9978 Dec 07 09:22	$0^{\circ}$ Y	
	9973 Aug 11 20:14	$0^{\circ}$ M,		evening set	9979 Mar 24 22:06	17° <b>Ƴ</b> 05'31	
evening set	9973 Oct 18 07:02	13°M48'37		max. Earth dist.	9979 Apr 04 10:26	19° <b>Ƴ</b> 24'46	6.37016 AU
	9973 Oct 23 11:35	15°M					
				conjunction	9979 Apr 06 17:18	19° <b>Ƴ</b> 55′09	-0°12'25
conjunction	9973 Oct 31 21:49	16°M56'15	0°30'19	minimum elong	9979 Apr 06 17:17	19° <b>Ƴ</b> 55'09	0°12'31
minimum elong	9973 Oct 31 21:48	16°M56'14	0°30'36	behind sun begin	9979 Apr 06 12:05	19° <b>Ƴ</b> 52'17	
max. Earth dist.	9973 Nov 03 08:33	17° <b>M</b> 29'59	6.13952 AU	behind sun end	9979 Apr 06 22:30	19° <b>Ƴ</b> 58'02	
morning rise	9973 Nov 14 13:07	20°M03'45		morning rise	9979 Apr 19 11:04	22° <b>Ƴ</b> 44'24	
	9973 Dec 31 01:56	0° <b>∡</b> ¹			9979 May 23 17:59	0°8	
retrograde	9974 Mar 20 23:39	8° <b>҂</b> ¹48'32		retrograde	9979 Aug 20 12:23	10° <b>8</b> 17'29	
opposition	9974 May 19 23:33	3° <b>∡</b> ¹45'42	0°56'50	opposition	9979 Oct 20 08:57	5° <b>8</b> 24'14	-0°34'22
min. Earth dist.	9974 May 18 13:49	3° <b>∡</b> 757′01	4.22692 AU	min. Earth dist.	9979 Oct 22 00:40	5° <b>8</b> 11'29	4.29300 AU
	9974 Jun 20 23:58	30°RM₊		direct	9979 Dec 21 03:17	0° <b>8</b> 24'41	
direct	9974 Jul 18 18:16	28°M45'53			9980 Apr 08 04:27	15° <b>8</b>	
	9974 Aug 15 20:41	0° <b>∡</b> ¹		evening set	9980 Apr 24 14:56	18° <b>8</b> 41'08	
evening set	9974 Nov 22 00:57	16° <b>₹</b> 59'37		max. Earth dist.	9980 May 05 04:22	21° <b>8</b> 06'18	6.20758 AU
conjunction	9974 Dec 05 12:11	19° <b>∡</b> ′58′15	0°43'17	conjunction	9980 May 07 09:57	21° <b>8</b> 37'08	-0°33'02
minimum elong	9974 Dec 05 12:10	19° <b>∡</b> 758′15	0°43'42	minimum elong	9980 May 07 09:56	21° <b>8</b> 37'07	0°33'20
max. Earth dist.	9974 Dec 07 04:17	20° <b>∡</b> ¹20′27	6.31175 AU	morning rise	9980 May 20 04:43	24° <b>8</b> 33'20	
morning rise	9974 Dec 18 22:31	22° <b>∡</b> 56′09			9980 Jun 13 13:10	$\Pi^{\circ}0$	
	9975 Jan 21 10:41	ರ°0		retrograde	9980 Sep 23 12:40	13° <b>Ⅱ</b> 15'55	
retrograde	9975 Apr 21 06:56	10° <b>る</b> 31'35		opposition	9980 Nov 22 20:53	8° <b>Ⅱ</b> 21′21	-0°59'50
opposition	9975 Jun 20 16:37	5° <b>る</b> 31'49	1°05'14	min. Earth dist.	9980 Nov 24 06:24	8° <b>Ⅱ</b> 10′27	4.11903 AU
min. Earth dist.	9975 Jun 19 23:00	5° <b>る</b> 37'38	4.38546 AU	direct	9981 Jan 22 09:35	3°Ⅱ23'47	
direct	9975 Aug 20 19:45	0° <b>る</b> 30'49		evening set	9981 May 28 09:53	22° <b>Ⅱ</b> 34′03	

		_				_	
max. Earth dist.	9981 Jun 08 20:31	25° <b>∐</b> 17′29	6.03701 AU	minimum elong	9986 Dec 10 04:18	24° <b>₹</b> 33'55	0°44'24
				max. Earth dist.	9986 Dec 11 17:37	24° <b>≯</b> 54′28	6.33642 AU
conjunction	9981 Jun 10 08:03	25° <b>Ⅱ</b> 38'41	-0°43'55	morning rise	9986 Dec 23 13:47	27° <b>∡</b> ³30′27	
minimum elong	9981 Jun 10 08:02	25° <b>Ⅱ</b> 38'41	0°44'21		9987 Jan 04 02:25	0°ප	
morning rise	9981 Jun 23 07:11	28° <b>Ⅲ</b> 44'11		retrograde	9987 Apr 25 11:06	14° <b>る</b> 56'46	
	9981 Jun 28 15:18	$0$ $\circ$ $\odot$		opposition	9987 Jun 24 23:50	9° <b>る</b> 57'25	1°04'47
retrograde	9981 Oct 31 00:52	18°9643'16		min. Earth dist.	9987 Jun 24 08:04	10° <b>පි</b> 02'36	4.40653 AU
opposition	9981 Dec 29 20:52	13°9546'20	-1°05'47	direct	9987 Aug 25 06:12	4° <b>ප</b> 56'15	
min. Earth dist.	9981 Dec 30 09:48	13° <b>5</b> 42'03	3.96748 AU	evening set	9987 Dec 28 21:56	22° <b>る</b> 22'41	
direct	9982 Feb 26 22:03	8°950'53					
evening set	9982 Jul 03 14:10	28° <b>©</b> 47'03		conjunction	9988 Jan 11 03:24	25° <b>ට</b> 13'01	0°41'44
evening set	9982 Jul 08 14:03	0°Ω		minimum elong	9988 Jan 11 03:24	25° <b>ප</b> 13'01	0°42'08
	9982 Jul 08 14.03	0 86		Č			
	0000 1 1 16 10 00	20 000100	0000150	max. Earth dist.	9988 Jan 11 10:59	25°₹17'06	6.46095 AU
conjunction	9982 Jul 16 18:23	2° <b>Ω</b> 00'00		morning rise	9988 Jan 24 07:02	28° <b>る</b> 02'20	
minimum elong	9982 Jul 16 18:24	2° <b>Ω</b> 00'01	0°39'20		9988 Feb 02 13:16	0° <b>≈</b>	
max. Earth dist.	9982 Jul 16 16:45	1° <b>Ω</b> 59'00	5.91939 AU	retrograde	9988 May 24 06:00	14° <b>≈</b> 46'53	
morning rise	9982 Jul 30 00:50	5° <b>Ω</b> 14'17		opposition	9988 Jul 24 02:15	9° <b>≈</b> 50'45	0°52'38
	9982 Sep 10 08:13	15° <b>Ω</b>		min. Earth dist.	9988 Jul 24 07:11	9° <b>≈</b> 49'09	4.49535 AU
retrograde	9982 Dec 09 00:37	26° <b>Ω</b> 04'44		direct	9988 Sep 24 08:50	4° <b>≈</b> 49'14	
opposition	9983 Feb 06 10:28	21° <b>Ω</b> 04′28	-0°45'30		9988 Dec 24 09:25	15° <b>≈</b>	
min. Earth dist.	9983 Feb 05 21:41	21° <b>Ω</b> 08'46	3.89769 AU	evening set	9989 Jan 27 13:41	21°≈56'45	
direct	9983 Apr 05 12:28	16° <b>Ω</b> 09'47		Č			
	9983 Jul 14 16:02	0° m)		conjunction	9989 Feb 09 14:26	24° <b>≈</b> 43'29	0°28'24
evening set	9983 Aug 10 12:41	6° Mp 21'37		minimum elong	9989 Feb 09 14:27	24°≈43'29	0°28'40
evening set	7703 Aug 10 12.41	0 11/2137		max. Earth dist.	9989 Feb 08 16:27	24°≈31'44	6.50790 AU
	0002 4 24 00 02	00 <b>m</b> -20140	0010100				0.30790 AU
conjunction	9983 Aug 24 00:02	9° mp 38'40		morning rise	9989 Feb 22 13:11	27°≈29'14	
minimum elong	9983 Aug 24 00:03	9° <b>m</b> 38'40			9989 Mar 06 11:58	0° <b>∀</b>	
max. Earth dist.	9983 Aug 25 13:14	10° Mp 01'22	5.90495 AU	retrograde	9989 Jun 22 21:29	14° <b>米</b> 02′19	
morning rise	9983 Sep 06 13:34	12° <b>m</b> 56'52		opposition	9989 Aug 22 22:27	9° <b>∺</b> 08′23	0°27'19
	9983 Nov 28 10:39	0∘ <b>ত</b>		min. Earth dist.	9989 Aug 23 21:51	9° <b>₩</b> 00'53	4.49862 AU
retrograde	9984 Jan 16 09:18	3° <b>≙</b> 43'23		direct	9989 Oct 24 14:54	4° <b>)</b> €06'58	
	9984 Mar 05 18:57	30°R, Mp		evening set	9990 Feb 26 16:09	21° <b>¥</b> 18'52	
min. Earth dist.	9984 Mar 14 08:18	28° <b>m</b> 51'09	3.94118 AU	max. Earth dist.	9990 Mar 09 17:35	23° <b>)</b> 41′58	6.46693 AU
opposition	9984 Mar 15 16:45	28° m/40'08	-0°06'07				
asc. node	9984 May 11 03:47	23° m/ 44'31		conjunction	9990 Mar 11 13:21	24° <b>)</b> €05'40	0°07'45
direct	9984 May 12 15:56	23° m/ 44'17		minimum elong	9990 Mar 11 13:21	24° <b>)</b> 05'40	0°07'49
	9984 Jul 15 14:33	0∘ <u>ಹ</u>		behind sun begin	9990 Mar 11 06:10	24° <b>)</b> (01'48	0 07 .5
ovening set	9984 Sep 16 16:18	0 <b>—</b> 13° <b>Ω</b> 32'22		behind sun end	9990 Mar 11 20:32	24° <b>)</b> (01'40'	
evening set	9904 Sep 10 10.16	13 = 32 22				24 \(\tag{0932}\)	
	00046 20 07.26	160 0 46126	0000151	morning rise	9990 Mar 24 08:28	20° <b>π</b> 31'42 0° <b>Υ</b>	
conjunction	9984 Sep 30 07:26	16° <b>≏</b> 46'36			9990 Apr 08 02:53		
minimum elong	9984 Sep 30 07:25	16° <b>≏</b> 46'35	0°09'57	desc. node	9990 Jul 21 10:42	13° <b>Y</b> 44′08	
behind sun begin	9984 Sep 30 00:41	16° <b>≏</b> 42'36		retrograde	9990 Jul 23 13:04	13° <b>Y</b> 44'33	
behind sun end	9984 Sep 30 14:10	16° <b>≏</b> 50'34		opposition	9990 Sep 22 14:04	8° <b>Y</b> 51'34	-0°05'33
max. Earth dist.	9984 Oct 02 18:33	17° <b>≏</b> 21'43	6.00107 AU	min. Earth dist.	9990 Sep 24 02:34	8° <b>Ƴ</b> 39'55	4.41579 AU
morning rise	9984 Oct 14 00:13	20° <b>₽</b> 01'21		direct	9990 Nov 24 01:02	3° <b>Y</b> 50′52	
	9984 Nov 27 22:47	0° <b>M</b> .		evening set	9991 Mar 29 05:39	21° <b>Y</b> 29'53	
retrograde	9985 Feb 20 07:53	9° <b>M</b> 51′27		max. Earth dist.	9991 Apr 08 16:04	23° <b>Ƴ</b> 48'49	6.34742 AU
min. Earth dist.	9985 Apr 19 07:08	5° <b>M</b> ₊00'46	4.07846 AU				
opposition	9985 Apr 20 22:57	4°M47'16	0°33'54	conjunction	9991 Apr 11 00:36	24° <b>Y</b> 20'20	-0°15'36
11	9985 Jun 08 08:26	30° <b>Ŗ</b> Ω		minimum elong	9991 Apr 11 00:35	24° <b>Y</b> 20′19	0°15'45
direct	9985 Jun 18 16:07	29° <b>₽</b> 49'10		behind sun begin	9991 Apr 10 22:44	24° <b>Υ</b> 19'17	
direct	9985 Jun 29 01:22	0°M		behind sun end	9991 Apr 11 02:27	24° <b>Υ</b> 21'21	
	9985 Oct 06 10:57	15°M		morning rise	9991 Apr 23 18:29	27° <b>Υ</b> 10'29	
avanina aat				morning risc	-		
evening set	9985 Oct 23 08:42	18° <b>M</b> ₊47'40		. 1	9991 May 06 15:30	0° <b>8</b>	
				retrograde	9991 Aug 25 07:30	14° <b>8</b> 53'04	
conjunction	9985 Nov 05 23:06	21°M53'56		opposition	9991 Oct 25 00:52	9° <b>8</b> 59'44	
minimum elong	9985 Nov 05 23:05	21°M53'56	0°33'14	min. Earth dist.	9991 Oct 26 17:29	9° <b>8</b> 46'40	4.26632 AU
max. Earth dist.	9985 Nov 08 08:00	22°M26'28	6.16576 AU	direct	9991 Dec 25 16:00	5° <b>8</b> 00'24	
morning rise	9985 Nov 19 13:47	24°M59'59			9992 Mar 21 11:53	15° <b>8</b>	
	9985 Dec 12 03:51	0° <b>∡</b> ¹		evening set	9992 Apr 29 05:16	23° <b>8</b> 25'26	
retrograde	9986 Mar 25 13:27	13° <b>∡</b> ³33′20		max. Earth dist.	9992 May 09 20:11	25° <b>8</b> 52'22	6.17915 AU
min. Earth dist.	9986 May 23 06:55	8° <b>∡</b> ¹41'17	4.25346 AU				
opposition	•	8° <b>∡</b> ³30'48	0°59'12	conjunction	9992 May 12 00:43	26° <b>8</b> 22'46	-0°35'18
11	9986 May 24 14:14	0 7.3040					
direct	9986 May 24 14:14 9986 Jul 23 14:48		0 0 0 12	•	•	26° <b>8</b> 22'45	0°35'38
	9986 Jul 23 14:48	3° <b>∡</b> ³30'44	0 09 12	minimum elong	9992 May 12 00:42	26° <b>と</b> 22'45 29° <b>と</b> 20'22	0°35'38
direct evening set	•		0 0 / 12	•	9992 May 12 00:42 9992 May 24 19:57	29° <b>8</b> 20'22	0°35'38
	9986 Jul 23 14:48	3° <b>∡</b> ³30'44		minimum elong	9992 May 12 00:42		0°35'38

opposition	9992 Nov 27 22:45	13° <b>Ⅱ</b> 20'34	-1°02'05	min. Earth dist.	9998 May 27 20:54	130 🗷 22:52	4.27949 AU
min. Earth dist.	9992 Nov 27 22:43 9992 Nov 29 05:25		4.09128 AU	opposition	9998 May 29 03:05	13° × 22 32	1°01'09
direct	9993 Jan 27 04:36	8° <b>Ⅲ</b> 23'23	4.07120 AU	direct	9998 Jul 28 07:18	8°×12'34	1 01 07
evening set	9993 Jun 02 09:43	27° <b>II</b> 42'38		evening set	9998 Dec 01 09:12	26°×711'14	
e venning see	9993 Jun 11 23:24	0°95		evening sec	))))0 <b>Dec</b> 01 0).12	20 % 1111	
max. Earth dist.	9993 Jun 14 01:11	0°929'54	6.01254 AU	conjunction	9998 Dec 14 18:55	29° <b>×</b> 707'18	0°44'25
				minimum elong	9998 Dec 14 18:54	29° <b>∡</b> 07'18	0°44'50
conjunction	9993 Jun 15 08:33	0°9548'44	-0°44'15	max. Earth dist.	9998 Dec 16 02:58	29° <b>∡</b> ¹24'53	6.35917 AU
minimum elong	9993 Jun 15 08:33	0°9548'43	0°44'40		9998 Dec 18 19:03	ರ°0	
morning rise	9993 Jun 28 08:40	3° <b>9</b> 55'47		morning rise	9998 Dec 28 03:37	2° <b>る</b> 02'35	
retrograde	9993 Nov 05 13:53	24°505'52		retrograde	9999 Apr 29 17:23	19° <b>ට</b> 20'58	
opposition	9994 Jan 04 07:22	19° <b>5</b> 08'32	-1°04'28	opposition	9999 Jun 29 06:38	14° <b>ට</b> 22'05	1°04'01
min. Earth dist.	9994 Jan 04 16:40	19° <b>©</b> 05'27	3.94888 AU	min. Earth dist.	9999 Jun 28 18:44	14° <b>පි</b> 26'00	4.42454 AU
direct	9994 Mar 04 04:57	14° <b>©</b> 13'19		direct	9999 Aug 29 18:18	9° <b>ට</b> 20'50	
	9994 Jun 21 05:00	$0^{\circ}\Omega$		evening set	10000 Jan 02 06:34	26° <b>ප්</b> 42'59	
evening set	9994 Jul 08 22:27	4° <b>Ω</b> 14'58					
				conjunction	10000 Jan 15 11:23	29° <b>る</b> 32'36	0°40'25
conjunction	9994 Jul 22 03:53	7° <b>Ω</b> 28'59	-0°36'48	minimum elong	10000 Jan 15 11:24	29° <b>る</b> 32'36	0°40'48
minimum elong	9994 Jul 22 03:54	7° <b>Ω</b> 29'00	0°37'10	max. Earth dist.	10000 Jan 15 14:53	29° <b>る</b> 34'28	6.47294 AU
max. Earth dist.	9994 Jul 22 09:43	7° <b>£</b> 32′33	5.90882 AU		10000 Jan 17 14:28	0° <b>≈</b>	
morning rise	9994 Aug 04 11:22	10° <b>Ω</b> 44'17		morning rise	10000 Jan 28 14:15	2° <b>≈</b> 21'10	
	9994 Aug 22 06:12	15° <b>Ω</b>			10000 Apr 05 08:40	15° <b>≈</b>	
	9994 Nov 12 17:46	0° <b>m</b>		retrograde	10000 May 28 08:19	19° <b>≈</b> 02'16	
retrograde	9994 Dec 14 15:19	1° <b>m</b> 38'18			10000 Jul 21 07:40	15° <b>R</b> ≈	
	9995 Jan 15 10:08	30° <b>ŖΩ</b>		opposition	10000 Jul 28 06:24	14° <b>≈</b> 06′27	0°49'42
opposition	9995 Feb 11 23:28	26° <b>Ω</b> 37'33		min. Earth dist.	10000 Jul 28 13:34	14° <b>≈</b> 04'08	4.50089 AU
min. Earth dist.	9995 Feb 11 07:16		3.89667 AU	direct	10000 Sep 28 14:27	9° <b>≈</b> 04'54	
direct	9995 Apr 10 23:07	21° <b>Ω</b> 42'53			10000 Dec 04 12:18	15° <b>≈</b>	
	9995 Jun 24 05:23	0° <b>m</b> )		evening set	10001 Jan 31 19:15	26° <b>≈</b> 11'46	
evening set	9995 Aug 16 00:29	11° <b>m</b> 53'30					
				conjunction	10001 Feb 13 19:28	28°≈58'18	0°25'48
conjunction	9995 Aug 29 12:28	15° mp 10'31		minimum elong	10001 Feb 13 19:29	28°≈58'19	0°26'03
minimum elong	9995 Aug 29 12:29	15° <b>m</b> 10'31	0°14'24	max. Earth dist.	10001 Feb 12 18:23	28°≈44'53	6.50666 AU
behind sun begin	9995 Aug 29 08:44	15° Mp 08'15			10001 Feb 18 14:46	0° <b>)</b>	
behind sun end	9995 Aug 29 16:14	15° Mp 12'47	5.01224 ATT	morning rise	10001 Feb 26 17:33	1° <b>)</b> 43'53	
max. Earth dist.	9995 Aug 31 05:46 9995 Sep 12 02:55	15° Mp 35'39 18° Mp 28'39	5.91324 AU	retrograde	10001 Jun 27 02:55 10001 Aug 27 04:00	18° <b>升</b> 18'07 13° <b>升</b> 24'24	0°22'57
morning rise		0° <b>⊽</b>		opposition	0	13° <del>X</del> 16'03	
ratra ara da	9995 Nov 02 08:12 9996 Jan 21 15:30	ರಿ. <b>ಪ</b> 0ರಿ,08		min. Earth dist. direct	10001 Aug 28 06:08 10001 Oct 28 20:56	8° <b>¥</b> 23′03	4.49069 AU
retrograde min. Earth dist.	9996 Mar 19 13:03	9 <b>≗</b> 0908 4° <b>₽</b> 17'38	3.95773 AU	evening set	10001 Oct 28 20:36 10002 Mar 02 22:15	8 <del>K</del> 23 03 25° <del>X</del> 37'52	
asc. node	9996 Mar 20 11:39	4° <b>2</b> 09'57	3.93773 AU	max. Earth dist.	10002 Mar 13 19:09	27° <b>H</b> 59'04	6.45271 AU
opposition	9996 Mar 21 00:32	4° <b>£</b> 05'34	0°00'03	max. Lartii dist.	10002 Wai 13 17.07	21 1(3)04	0.432/1 AC
оррозиюн	9996 Apr 25 19:54	<b>4 —</b> 03 3 <b>4</b>	0 00 03	conjunction	10002 Mar 15 18:56	28° <b>∺</b> 25'01	0°04'29
direct	9996 May 18 00:48	29° My 09'25		minimum elong	10002 Mar 15 18:56	28° <b>H</b> 25'01	0°04'32
uncet	9996 Jun 09 08:48	0₀ <u>ರ</u>		behind sun begin	10002 Mar 15 11:07	28° <b>H</b> 20'48	0 0132
evening set	9996 Sep 22 00:25	18° <b>♀</b> 50'40		behind sun end	10002 Mar 16 02:46	28° <b>)</b> 29'15	
	r ===				10002 Mar 23 01:51	0°Υ	
conjunction	9996 Oct 05 15:38	22° <b>♀</b> 03'50	0°13'41	morning rise	10002 Mar 28 13:57	1° <b>Υ</b> 11'31	
minimum elong	9996 Oct 05 15:37	22° <b>≙</b> 03'49	0°13'49	desc. node	10002 May 30 13:02	13° <b>Υ</b> 19'12	
behind sun begin	9996 Oct 05 11:23	22° <b>ഫ</b> 01'20		retrograde	10002 Jul 28 01:34	18° <b>Ƴ</b> 10′12	
behind sun end	9996 Oct 05 19:52	22° <b>≏</b> 06'19		opposition	10002 Sep 27 01:01	13° <b>Ƴ</b> 17'12	-0°10'27
max. Earth dist.	9996 Oct 08 03:32	22° <b>₽</b> 39'14	6.02389 AU	min. Earth dist.	10002 Sep 28 15:03	13° <b>Y</b> '05'02	4.39605 AU
morning rise	9996 Oct 19 08:18	25° <b>≏</b> 17'25		direct	10002 Nov 28 10:05	8° <b>Y</b> 16'36	
	9996 Nov 08 20:21	0°M₊		evening set	10003 Apr 02 15:39	26° <b>Y</b> 01'46	
retrograde	9997 Feb 25 05:20	14°ML56'11		max. Earth dist.	10003 Apr 13 02:36	28° <b>Y</b> 21'44	6.32364 AU
min. Earth dist.	9997 Apr 24 06:47	10°ML05'07	4.10474 AU				
opposition	9997 Apr 25 21:19	9° <b>M</b> 52′04	0°38'37	conjunction	10003 Apr 15 10:41	28° <b>Y</b> 53'08	
direct	9997 Jun 23 19:28	4°M53'38		minimum elong	10003 Apr 15 10:40	28° <b>Y</b> 53′08	0°18'58
	9997 Sep 17 22:02	15°M₊			10003 Apr 20 10:01	0°8	
evening set	9997 Oct 28 08:44	23°M43'30		morning rise	10003 Apr 28 04:28	1° <b>8</b> 44'14	
					10003 Jul 04 15:30	15° <b>8</b>	
conjunction	9997 Nov 10 22:46	26°M48'23	0°35'19	retrograde	10003 Aug 30 03:19	19° <b>8</b> 36'37	
minimum elong	9997 Nov 10 22:44	26°M48'22	0°35'39		10003 Oct 27 15:41	15°R <b>8</b>	
max. Earth dist.	9997 Nov 13 06:53	27°M20'15	6.19308 AU	opposition	10003 Oct 29 20:02	14° <b>8</b> 43'10	
morning rise	9997 Nov 24 12:42	29°M52'53		min. Earth dist.	10003 Oct 31 11:38	14° <b>8</b> 30'25	4.24021 AU
	9997 Nov 25 01:20	0° <b>⋌</b> ¹		direct	10003 Dec 30 06:11	9° <b>8</b> 44'10	
retrograde	9998 Mar 29 23:23	18° <b>∡</b> 14'55			10004 Feb 28 19:54	15° <b>8</b>	

evening set	10004 May 03 22:46 10004 May 11 08:02	28° <b>႘</b> 17'19 0° <b>Ⅱ</b>		conjunction minimum elong	10009 Nov 15 17:43 10009 Nov 15 17:42	1° <b>х</b> 30′57 1° <b>х</b> 30′57	0°37'22 0°37'43
max. Earth dist.	10004 May 14 15:40	0° <b>Ⅱ</b> 46′20	6.15293 AU	max. Earth dist.	10009 Nov 17 21:25	2° <b>∡</b> ¹00'08	6.21898 AU
		_		morning rise	10009 Nov 29 07:09	4° <b>∡</b> ³34'05	
conjunction	10004 May 16 18:22	1°Ⅲ15'51 1°Ⅲ15'51		retrograde	10010 Apr 03 07:28	22° <b>х</b> 45'59 17° <b>х</b> 53'19	4 20269 ATT
minimum elong morning rise	10004 May 16 18:21 10004 May 29 14:11	1°Щ13′31 4°Щ14′49	0-3/45	min. Earth dist.	10010 Jun 01 09:24 10010 Jun 02 12:25	17° <b>x</b> '33'19	4.30268 AU 1°02'41
retrograde	10004 May 29 14.11 10004 Oct 03 22:37	23° <b>I</b> [21'16		direct	10010 Juli 02 12:23	17 <b>x</b> 44 18	1 0241
opposition	10004 Dec 03 03:19	18° <b>I</b> I26'11	-1°03'56	ancer	10010 Pag 01 21:31	0°ਰ	
min. Earth dist.	10004 Dec 04 07:26	18° <b>Ⅱ</b> 17'00	4.06729 AU	evening set	10010 Dec 05 20:51	0° <b>る</b> 36'36	
direct	10005 Feb 01 05:15	13° <b>Ⅲ</b> 29′20		Č			
	10005 May 26 02:19	0ಂತಾ		conjunction	10010 Dec 19 06:04	3° <b>る</b> 31'40	0°44'36
evening set	10005 Jun 07 11:32	2° <b>©</b> 55'52		minimum elong	10010 Dec 19 06:04	3° <b>る</b> 31'40	0°45'01
max. Earth dist.	10005 Jun 19 10:03	5° <b>5</b> 48'01	5.99340 AU	max. Earth dist.	10010 Dec 20 11:11	3° <b>ප</b> 47'34	6.37806 AU
				morning rise	10011 Jan 01 13:50	6° <b>る</b> 25'51	
conjunction	10005 Jun 20 11:17	6°903'13		retrograde	10011 May 03 19:21	23° <b>る</b> 37'56	1002150
minimum elong	10005 Jun 20 11:17	6°903'13	0°44'40	opposition	10011 Jul 03 10:45	18°る39'36 18°る42'50	1°02'58
morning rise retrograde	10005 Jul 03 12:13 10005 Nov 11 03:15	9° <b>©</b> 11'32 29° <b>©</b> 29'58		min. Earth dist. direct	10011 Jul 03 00:53 10011 Sep 03 00:58	18° <b>ろ</b> 42′30	4.43814 AU
opposition	10005 Nov 11 03:13	24° <b>©</b> 32'11	-1°02'37	direct	10011 Sep 03 00:38 10012 Jan 02 00:09	0°≈	
min. Earth dist.	10006 Jan 10 00:05	24°930'21	3.93700 AU	evening set	10012 Jan 06 13:16	0°≈57'51	
direct	10006 Mar 09 11:55	19° <b>©</b> 37'14		, and the second			
	10006 Jun 02 07:55	$0^{\circ}\Omega$		conjunction	10012 Jan 19 17:20	3° <b>≈</b> 46'55	0°38'57
evening set	10006 Jul 14 06:39	9° <b>Ω</b> 41'27		minimum elong	10012 Jan 19 17:21	3° <b>≈</b> 46'55	0°39'19
				max. Earth dist.	10012 Jan 19 15:26	3° <b>≈</b> 45'53	6.48044 AU
conjunction	10006 Jul 27 12:52	12° <b>Ω</b> 56′03		morning rise	10012 Feb 01 19:36	6° <b>≈</b> 34'59	
minimum elong	10006 Jul 27 12:54	12° <b>Ω</b> 56'03	0°34'42		10012 Mar 14 17:23	15° <b>≈</b>	
max. Earth dist.	10006 Jul 27 23:25	13° <b>Ω</b> 02'30	5.90533 AU	retrograde	10012 Jun 01 12:03	23°≈14'13	0046127
marning rise	10006 Aug 04 23:24 10006 Aug 09 21:33	15° <b>Ω</b> 16° <b>Ω</b> 12'01		opposition min. Earth dist.	10012 Aug 01 09:36	18°≈18'51 18°≈15'20	0°46'37 4.50208 AU
morning rise	10006 Aug 09 21.33 10006 Oct 11 10:48	0°m)		min. Earth dist.	10012 Aug 01 20:30 10012 Aug 29 14:33	18 ≈13 20 15°R≈	4.30208 AU
retrograde	10006 Dec 20 00:41	7° Mp 06'17		direct	10012 Aug 27 14:33 10012 Oct 02 20:21	13°≈17'20	
opposition	10007 Feb 17 10:12	2° m) 05'02	-0°35'29		10012 Nov 06 07:47	15° <b>≈</b>	
min. Earth dist.	10007 Feb 16 13:33		3.90218 AU		10013 Feb 03 00:55	0° <b>∀</b>	
	10007 Mar 05 09:20	30°R <b>Ω</b>		evening set	10013 Feb 04 23:51	0° <b>)</b> 24′54	
direct	10007 Apr 16 08:32	27° <b>Ω</b> 10′15					
	10007 May 27 20:13	0° <b>m</b> )		conjunction	10013 Feb 17 23:37	3° <b>¥</b> 11′28	0°23'08
evening set	10007 Aug 21 09:33	17° <b>m</b> ) 17'12		minimum elong	10013 Feb 17 23:38	3° <b>¥</b> 11′29	0°23'21
	10007.0 02 22 11	200m 22140	0010122	max. Earth dist.	10013 Feb 16 18:35		6.50148 AU
conjunction minimum elong	10007 Sep 03 22:11 10007 Sep 03 22:12	20° m 33'49 20° m 33'49		morning rise	10013 Mar 02 21:17 10013 Jul 01 08:29	5° <b>¥</b> 57'06 22° <b>¥</b> 33'55	
behind sun begin	10007 Sep 03 22:12 10007 Sep 03 15:42	20° m) 29'54	0 10 30	retrograde opposition	10013 Jul 01 08:29 10013 Aug 31 09:48	17° <b>)</b> 40'22	0°18'32
behind sun end	10007 Sep 03 13:42 10007 Sep 04 04:42	20° m) 37'45		min. Earth dist.	10013 Aug 31 03:48 10013 Sep 01 13:17	17° <b>X</b> 31'34	4.47970 AU
max. Earth dist.	10007 Sep 05 19:27	-	5.92710 AU	direct	10013 Nov 02 01:27	12° <b>)</b> € 39'08	,
morning rise	10007 Sep 17 13:04	23° m 51'28		evening set	10014 Mar 07 04:17	29° <b>)</b> 57'44	
	10007 Oct 13 18:19	0∘ <b>⊽</b>			10014 Mar 07 08:28	$0^{\circ}$ $\Upsilon$	
retrograde	10008 Jan 26 18:25	14° <b>≏</b> 23'53		max. Earth dist.	10014 Mar 18 00:37	2° <b>Y</b> 19'09	6.43672 AU
asc. node	10008 Jan 30 09:51	14° <b>≙</b> 22'31					
min. Earth dist.	10008 Mar 24 16:15	9° <b>₽</b> 32'16	3.97808 AU	conjunction	10014 Mar 20 00:46	2° <b>Y</b> 45'24	0°01'11
opposition	10008 Mar 26 04:08	9° <b>£</b> 20'03	0°05'58	minimum elong	10014 Mar 20 00:45 10014 Mar 19 16:46	2° <b>Y</b> 45'24 2° <b>Y</b> 41'04	0°01'11
direct evening set	10008 May 23 08:02 10008 Sep 27 04:18	4° <b>£</b> 23'35 23° <b>£</b> 56'59		behind sun begin behind sun end	10014 Mar 19 16:46 10014 Mar 20 08:44	2° <b>Υ</b> 41'04 2° <b>Υ</b> 49'44	
evening set	10008 Sep 27 04.18	23 = 30 39		morning rise	10014 Mai 20 08:44 10014 Apr 01 19:21	5°Υ32'23	
conjunction	10008 Oct 10 19:36	27° <b>٩</b> 09'01	0°17'15	desc. node	10014 Apr 08 17:33	7° <b>Υ</b> '02'01	
minimum elong	10008 Oct 10 19:35	27° <b>♀</b> 09'00	0°17'25	retrograde	10014 Aug 01 13:48	22° <b>Y</b> '37'30	
max. Earth dist.	10008 Oct 13 09:05	27° <b>≏</b> 45'08	6.04862 AU	opposition	10014 Oct 01 12:33	17° <b>Ƴ</b> 44'34	-0°15'16
	10008 Oct 22 23:25	$0^{\circ}$ M		min. Earth dist.	10014 Oct 03 03:26	17° <b>Ƴ</b> 32'08	4.37607 AU
morning rise	10008 Oct 24 12:00	0°M21'18		direct	10014 Dec 02 19:30	12° <b>Y</b> 44'14	
	10009 Jan 04 05:21	15°M,			10015 Apr 04 10:26	0°8	
retrograde	40000 X	100m 40ワイ		evening set	10015 Apr 07 02:16	0° <b>8</b> 35'31	
	10009 Mar 01 20:49	19°M48'24		E 4 11 1	10015 4 15 12 05		( 2010( 177
min Earth dist	10009 Apr 28 17:01	15°RML	4 12126 ATT	max. Earth dist.	10015 Apr 17 12:02	2° <b>8</b> 55'36	6.30106 AU
min. Earth dist.	10009 Apr 28 17:01 10009 Apr 29 00:36	15°RM 14°M57'27	4.13126 AU 0°42'50		•	2° <b>8</b> 55'36	
opposition	10009 Apr 28 17:01 10009 Apr 29 00:36 10009 Apr 30 14:56	15°RM 14°M57'27 14°M44'29	4.13126 AU 0°42'50	conjunction	10015 Apr 19 21:05	2°\begin{align*} 2°\begin{align*} 55'36 3°\begin{align*} 27'43	-0°21'50
	10009 Apr 28 17:01 10009 Apr 29 00:36	15°RM 14°M57'27			•	2° <b>8</b> 55'36	-0°21'50
opposition	10009 Apr 28 17:01 10009 Apr 29 00:36 10009 Apr 30 14:56 10009 Jun 28 16:24	15°RM 14°M57'27 14°M44'29 9°M45'49		conjunction minimum elong	10015 Apr 19 21:05 10015 Apr 19 21:04	2°\delta55'36 3°\delta27'43 3°\delta27'43	-0°21'50
opposition direct	10009 Apr 28 17:01 10009 Apr 29 00:36 10009 Apr 30 14:56 10009 Jun 28 16:24 10009 Aug 27 05:44	15°RM 14°M57'27 14°M44'29 9°M45'49 15°M		conjunction minimum elong	10015 Apr 19 21:05 10015 Apr 19 21:04 10015 May 02 15:07	2°\d55'36 3°\d27'43 3°\d27'43 6°\d519'47	-0°21'50

	10015 N 02 15-22	100 4 27155	0946147		10021 I 10 12.50	1.50p. <b>m</b>	
opposition	10015 Nov 03 15:33	19° <b>8</b> 27'55		1' 4	10021 Jun 18 13:50	15°RM	
min. Earth dist.	10015 Nov 05 05:54 10015 Dec 16 19:56	19°615'32	4.21649 AU	direct	10021 Jul 03 14:12 10021 Jul 18 17:01	14°M37'32 15°M	
direct	10015 Dec 16 19.36 10016 Jan 03 22:01	13 KO 14° <b>8</b> 29'10			10021 Jul 18 17:01 10021 Oct 23 12:09	13 IIL 0° <b>√</b>	
direct	10016 Jan 22 00:04	15° <b>8</b>		evening set	10021 Oct 23 12:09 10021 Nov 07 00:14	3° <b>∡</b> 12′26	
	10016 Jan 22 00:04 10016 Apr 24 20:52	0°Ⅱ		evening set	10021 1107 07 00.14	3 🛪 12 20	
evening set	10016 Apr 24 20:32	3° <b>Ⅱ</b> 09'27		conjunction	10021 Nov 20 13:19	6° <b>∡</b> 14'49	0°39'10
max. Earth dist.	10016 May 19 12:55		6.13000 AU	minimum elong	10021 Nov 20 13:19	6° <b>×</b> 14'49	0°39'33
max. Earth dist.	10010 Way 17 12.55	3 114141	0.13000710	max. Earth dist.	10021 Nov 20 15:16	6°×7'43'05	6.24103 AU
conjunction	10016 May 21 11:51	6° <b>Ⅱ</b> 09'08	-0°39'13	morning rise	10021 Nov 22 13:57 10021 Dec 04 01:55	9° <b>х</b> 16'41	0.24103710
minimum elong	10016 May 21 11:50	6° <b>∏</b> 09'08		retrograde	10022 Apr 07 16:28	27°×719'39	
morning rise	10016 Jun 03 08:02	9° <b>Ⅱ</b> 09'16	0 37 30	opposition	10022 Jun 06 22:36	22°×718'27	1°03'51
retrograde	10016 Oct 09 04:22	28° <b>I</b> I25'52		min. Earth dist.	10022 Jun 05 21:19	22°×726'50	4.32266 AU
opposition	10016 Dec 08 06:59	23° <b>II</b> 30'29	-1°05'16	direct	10022 Aug 06 12:10	17° <b>×</b> 717'54	
min. Earth dist.	10016 Dec 09 08:44	23° <b>I</b> I22'03	4.04712 AU		10022 Nov 16 07:58	0°ප	
direct	10017 Feb 06 04:21	18° <b>Ⅲ</b> 33'57		evening set	10022 Dec 10 10:09	5° <b>そ</b> 05'32	
	10017 May 08 05:50	0° <b>©</b>		C			
evening set	10017 Jun 12 11:58	8°506'18		conjunction	10022 Dec 23 18:33	7° <b>る</b> 59'40	0°44'31
-				minimum elong	10022 Dec 23 18:33	7° <b>る</b> 59'40	0°44'57
conjunction	10017 Jun 25 12:18	11° <b>©</b> 14'41	-0°43'53	max. Earth dist.	10022 Dec 24 18:26	8° <b>る</b> 12'40	6.39456 AU
minimum elong	10017 Jun 25 12:18	11°9514'41	0°44'18	morning rise	10023 Jan 06 01:44	10° <b>る</b> 52'56	
max. Earth dist.	10017 Jun 24 14:17	11° <b>©</b> 01'22	5.97762 AU	retrograde	10023 May 08 01:11	27° <b>る</b> 59'19	
morning rise	10017 Jul 08 14:20	14° <b>5</b> 524'11		opposition	10023 Jul 07 16:59	23° <b>る</b> 01'26	1°01'32
	10017 Sep 20 20:44	$0^{\circ}\Omega$		min. Earth dist.	10023 Jul 07 10:18	23° <b>る</b> 03'37	4.45042 AU
retrograde	10017 Nov 16 11:40	4° <b>Ω</b> 49'39		direct	10023 Sep 07 11:00	18° <b>る</b> 00'07	
	10018 Jan 14 01:12	30° <b>₹</b> 5			10023 Dec 16 08:42	0° <b>≈</b>	
opposition	10018 Jan 15 03:07	29° <b>9</b> 51'21	-1°00'13	evening set	10024 Jan 10 21:28	5° <b>≈</b> 16'59	
min. Earth dist.	10018 Jan 15 04:20	29° <b>©</b> 50'57	3.92737 AU				
direct	10018 Mar 14 16:27	24° <b>©</b> 56'29		conjunction	10024 Jan 24 01:03	8° <b>≈</b> 05'33	0°37'14
	10018 May 10 11:06	$0^{\circ}\Omega$		minimum elong	10024 Jan 24 01:04	8° <b>≈</b> 05'34	0°37'35
evening set	10018 Jul 19 12:40	15° <b>Ω</b> 02'46		max. Earth dist.	10024 Jan 23 20:55	8° <b>≈</b> 03'21	6.48799 AU
	10018 Jul 19 08:07	15° <b>Ω</b>		morning rise	10024 Feb 06 02:29	10° <b>≈</b> 53'04	
					10024 Feb 25 20:01	15° <b>≈</b>	
conjunction	10018 Aug 01 19:56	18° <b>Ω</b> 17'58		retrograde	10024 Jun 05 15:08	27° <b>≈</b> 30′13	
minimum elong	10018 Aug 01 19:57	18° <b>Ω</b> 17'59		opposition	10024 Aug 05 14:40	22° <b>≈</b> 35'11	0°43'14
max. Earth dist.	10018 Aug 02 12:26	18° <b>Ω</b> 28'05	5.90290 AU	min. Earth dist.	10024 Aug 06 02:45	22° <b>≈</b> 31'18	4.50489 AU
morning rise	10018 Aug 15 05:28	21° <b>Ω</b> 34'28		direct	10024 Oct 07 02:08	17° <b>≈</b> 33'47	
	10018 Sep 20 07:24	0° m/y			10025 Jan 17 16:28	0° <b>)</b> {	
retrograde	10018 Dec 25 09:50	12° m) 28'41	0020107	evening set	10025 Feb 09 05:59	4° <b>)</b> (41′08	C 400CE ATT
opposition	10019 Feb 22 18:05	7° Mp 26'57		max. Earth dist.	10025 Feb 20 21:34	/* 大10/3/	6.49965 AU
min. Earth dist.	10019 Feb 21 19:38	•	3.90723 AU		10025 F. 1 22 05 05	70 1/ 07/20	0020110
direct	10019 Apr 21 17:07	2° Mp 31'58		conjunction	10025 Feb 22 05:05	7° <b>)</b> €27'32	0°20'19
evening set	10019 Aug 26 16:29	22° m 35'52		minimum elong morning rise	10025 Feb 22 05:06 10025 Mar 07 02:12	7° <b>¥</b> 27'32 10° <b>¥</b> 13'02	0°20'31
conjunction	10019 Sep 09 05:50	25° m 52'14	0.06,30	retrograde	10025 Mai 07 02.12 10025 Jul 05 15:33	26° <b>H</b> 51'05	
minimum elong	10019 Sep 09 05:50			opposition	10025 Sep 04 16:37	20 <b>X</b> 51 05 21° <b>X</b> 57'45	0°14'01
behind sun begin	10019 Sep 09 03:50	25° m 47'30	0 00 33	min. Earth dist.	10025 Sep 04 10.37 10025 Sep 05 22:28	21° <b>)</b> (3743	4.47341 AU
behind sun end	10019 Sep 08 21:39 10019 Sep 09 13:41	25° m 56'57		direct	10025 Sep 05 22:28 10025 Nov 06 09:38	16° <b>X</b> 56'39	4.47541 AU
max. Earth dist.	10019 Sep	26° m) 22'01	5.93899 AU	desc. node	10026 Feb 16 09:28	29° <b>\</b> 25'11	
morning rise	10019 Sep 22 21:13	29° m 09'30	0.90099 110	dose. node	10026 Feb 19 05:22	0°Υ	
morning not	10019 Sep 26 09:43	0∘ <b>⊽</b>		evening set	10026 Mar 11 10:28	4° <b>Υ</b> 17'11	
asc. node	10019 Dec 10 16:34	15° <b>≏</b> 24'29		max. Earth dist.	10026 Mar 22 03:59	6° <b>Ƴ</b> 37'28	6.42643 AU
retrograde	10020 Jan 31 19:16	19° <b>≏</b> 34'45					
min. Earth dist.	10020 Mar 29 16:20	14° <b>≏</b> 43'28	3.99548 AU	conjunction	10026 Mar 24 06:30	7° <b>Y</b> °05'05	-0°02'09
opposition	10020 Mar 31 05:45	14° <b>≏</b> 30'45	0°11'47	minimum elong	10026 Mar 24 06:29	7° <b>Υ′</b> 05'04	0°02'10
direct	10020 May 28 10:31	9° <b>م</b> 33'59		behind sun begin	10026 Mar 23 22:30	7° <b>Υ′</b> 00'44	
evening set	10020 Oct 02 07:10	29° <b>ჲ</b> 01'00		behind sun end	10026 Mar 24 14:28	7° <b>Υ′</b> 09'24	
-	10020 Oct 06 12:28	$0^{\circ}$ M		morning rise	10026 Apr 06 00:52	9° <b>Y</b> ′52'21	
				retrograde	10026 Aug 05 23:59	27° <b>Y</b> ′02'00	
conjunction	10020 Oct 15 22:17	2°M12'00	0°20'42	opposition	10026 Oct 05 23:24	22° <b>Y</b> ′08'59	-0°19'54
minimum elong	10020 Oct 15 22:16	2°M11'59	0°20'53	min. Earth dist.	10026 Oct 07 14:01	21° <b>Y</b> ′56'38	4.36234 AU
max. Earth dist.	10020 Oct 18 10:10	2°M46'59	6.06960 AU	direct	10026 Dec 07 03:58	17° <b>Ƴ</b> 08'49	
morning rise	10020 Oct 29 14:40	5°M23'13			10027 Mar 19 05:38	$0^{\circ}$ 8	
	10020 Dec 12 14:28	15° <b>™</b>		evening set	10027 Apr 11 10:50	5° <b>8</b> 03'59	
retrograde	10021 Mar 06 12:17	24°M40'18		max. Earth dist.	10027 Apr 21 22:20	7° <b>8</b> 25'31	6.28490 AU
min. Earth dist.	10021 May 03 19:11	19° <b>M</b> 49'03	4.15365 AU				
opposition	10021 May 05 08:14	19°M36'32	0°46'46	conjunction	10027 Apr 24 05:39	7° <b>8</b> 56'47	-0°24'39

minimum elong morning rise	10027 Apr 24 05:38 10027 May 06 23:32 10027 May 25 20:38	7° <b>と</b> 56'46 10° <b>と</b> 49'29 15° <b>と</b>	0°24'52	min. Earth dist. opposition direct	10033 May 08 12:00 10033 May 10 00:08 10033 Jul 08 09:54	24°M37'53 24°M25'43 19°M26'29	4.17171 AU 0°50'13
retrograde	10027 Sep 08 17:48	28° <b>8</b> 58'32	0050111		10033 Oct 05 15:44	0° <b>√</b> 7	
opposition min. Earth dist.	10027 Nov 08 08:16 10027 Nov 09 22:21	24° <b>8</b> 04'45 23° <b>8</b> 52'27		evening set	10033 Nov 11 19:34	7° <b>∡</b> 756'14	
direct	10027 Nov 09 22:21 10028 Jan 08 11:56	19° <b>8</b> 06'18	4.17004 AO	conjunction	10033 Nov 25 08:06	10° <b>∡</b> 757'37	0°40'39
	10028 Apr 07 21:28	0°II		minimum elong	10033 Nov 25 08:05	10° <b>∡</b> 757'37	0°41'03
evening set	10028 May 13 05:19	7° <b>Ⅱ</b> 51'41		max. Earth dist.	10033 Nov 27 07:27	11° <b>∡</b> 124′07	6.25946 AU
max. Earth dist.	10028 May 24 03:12	10° <b>Ⅱ</b> 25′00	6.11221 AU	morning rise	10033 Dec 08 20:16 10034 Mar 08 01:11	13°♂58'28 0°る	
conjunction	10028 May 26 01:35	10° <b>∏</b> 52'14	-0°40'40	retrograde	10034 Mar 08 01:11 10034 Apr 12 01:15	1°る53'43	
minimum elong	10028 May 26 01:34	10° <b>Ⅲ</b> 52'13		readgrade	10034 May 16 21:56	30°R. <b>₹</b>	
morning rise	10028 Jun 07 22:24	13° <b>Ⅱ</b> 53'22		min. Earth dist.	10034 Jun 10 09:07	27° <b>∡</b> °00'43	4.34003 AU
_	10028 Aug 28 10:56	0°€		opposition	10034 Jun 11 08:45	26° <b>₹</b> 52'52	1°04'33
retrograde	10028 Oct 14 03:41	3°€18'25		direct	10034 Aug 11 01:53	21° <b>メ</b> *52'07 0°る	
opposition	10028 Nov 30 15:03 10028 Dec 13 05:42	30°ŖⅡ 28°Ⅱ22'42	-1°06'00	evening set	10034 Oct 28 12:48 10034 Dec 14 23:14	0°る 9° <b>る</b> 35'17	
min. Earth dist.	10028 Dec 14 04:32		4.03064 AU	evening set	10054 Dec 14 25.14	) 033 17	
direct	10029 Feb 10 22:36	23° <b>II</b> 26'22		conjunction	10034 Dec 28 07:08	12° <b>る</b> 28'34	0°44'08
	10029 Apr 18 07:08	$0$ $\circ$ $\odot$		minimum elong	10034 Dec 28 07:08	12° <b>る</b> 28'35	0°44'33
evening set	10029 Jun 17 07:39	13° <b>©</b> 03'42		max. Earth dist.	10034 Dec 29 04:56	12°る40'25 15°る20'53	6.40966 AU
conjunction	10029 Jun 30 08:53	16° <b>©</b> 13'05	-0°43'11	morning rise	10035 Jan 10 13:21 10035 Apr 02 13:30	15° <b>6</b> 20′53	
minimum elong	10029 Jun 30 08:53	16°513'06		retrograde	10035 May 12 06:09	2° <b>≈</b> 21'47	
max. Earth dist.	10029 Jun 29 15:37	16° <b>©</b> 02'37	5.96414 AU	-	10035 Jun 20 23:03	30°R₹	
morning rise	10029 Jul 13 11:40	19° <b>5</b> 23'36		opposition	10035 Jul 11 23:15	27° <b>る</b> 24'18	0°59'43
	10029 Aug 29 06:00	0° <b>Ω</b> 9° <b>Ω</b> 55'27		min. Earth dist.	10035 Jul 11 18:28	27°る25'51 22°る22'55	4.46209 AU
retrograde opposition	10029 Nov 21 17:03 10030 Jan 20 06:11	4° <b>Ω</b> 56'47	-0°57'28	direct	10035 Sep 11 20:18 10035 Nov 27 13:55	0° <b>≈</b>	
min. Earth dist.	10030 Jan 20 05:44	4° <b>Ω</b> 56'55		evening set	10036 Jan 15 05:52	9° <b>≈</b> 37'03	
direct	10030 Mar 19 17:16	0° <b>Ω</b> 02'00		-			
_	10030 Jul 02 21:31	15° <b>Ω</b>		conjunction	10036 Jan 28 08:37	12° <b>≈</b> 25'02	0°35'17
evening set	10030 Jul 24 13:41	20° <b>Ω</b> 10'41		minimum elong max. Earth dist.	10036 Jan 28 08:38 10036 Jan 27 23:36	12°≈25'03 12°≈20'13	0°35'37 6.49512 AU
conjunction	10030 Aug 06 21:56	23° <b>Ω</b> 26'33	-0°28'51	max. Earm dist.	10036 Jan 27 23.36 10036 Feb 09 10:52	12 <b>≈</b> 20 13 15° <b>≈</b>	0.49312 AU
minimum elong	10030 Aug 06 21:57	23° <b>Ω</b> 26'34		morning rise	10036 Feb 10 09:31	15°≈12'02	
max. Earth dist.	10030 Aug 07 18:22	23° <b>Ω</b> 39'04	5.89914 AU		10036 May 06 08:25	0° <b>∀</b>	
morning rise	10030 Aug 20 08:33	26° <b>Ω</b> 43'44		retrograde	10036 Jun 09 20:23	1° <b>)</b> 47′03	
retrograde	10030 Sep 02 22:53 10030 Dec 30 13:28	0° Mp 17° Mp 38′40		opposition	10036 Jul 14 07:41 10036 Aug 09 19:51	30°R≈ 26°≈52'14	0°39'34
opposition	10030 Dec 30 13.28 10031 Feb 27 20:50	17 11/38 40 12° 11/36'39	-0°24'47	min. Earth dist.	10036 Aug 10 11:10	26°≈47'19	4.50684 AU
min. Earth dist.	10031 Feb 26 19:41	12° Mp 45'10		direct	10036 Oct 11 09:53	21°≈50'44	
direct	10031 Apr 26 17:58	7° Mp 41'33			10036 Dec 30 12:03	0° <b>∀</b>	
evening set	10031 Aug 31 19:43	27° m/44'13		evening set	10037 Feb 13 11:41	8° <b>¥</b> 57'59	
	10031 Sep 10 05:19	0∘ <b>⊽</b>		max. Earth dist.	10037 Feb 25 00:28	11° <b>∺</b> 26′07	6.49591 AU
conjunction	10031 Sep 14 09:33	1° <b>≏</b> 00'28	-0°02'42	conjunction	10037 Feb 26 10:24	11° <b>¥</b> 44′20	0°17'20
minimum elong	10031 Sep 14 09:33	1° <b>≏</b> 00'28	0°02'43	minimum elong	10037 Feb 26 10:24	11° <b>)</b> 44′20	0°17'30
behind sun begin	10031 Sep 14 01:11	0° <b>£</b> 55'27		morning rise	10037 Mar 11 06:54	14° <b>¥</b> 29'45	
behind sun end	10031 Sep 14 17:55	1° <b>Ω</b> 05'29	5.04601.411		10037 Jun 12 05:06	0° <b>Υ</b>	
max. Earth dist. morning rise	10031 Sep 16 11:43 10031 Sep 28 01:36	1° <b>£</b> 30'43 4° <b>£</b> 17'37	5.94681 AU	retrograde	10037 Jul 09 21:07 10037 Aug 06 14:25	1° <b>Ƴ</b> 09'46 30°℞ <b>ℋ</b>	
asc. node	10031 Oct 22 12:01	9° <b>£</b> 59'46		opposition	10037 Aug 00 14:23 10037 Sep 08 23:44	26° <b>¥</b> 16′28	0°09'19
retrograde	10032 Feb 05 16:20	24° <b>Ω</b> 37'44		min. Earth dist.	10037 Sep 10 06:25	26° <b>∺</b> 06'40	4.46404 AU
min. Earth dist.	10032 Apr 03 13:56	19° <b>≏</b> 46'35	4.00794 AU	direct	10037 Nov 10 15:14	21° <b>)</b> 15′24	
opposition	10032 Apr 05 03:54	19° <b>£</b> 33'39	0°17'14	desc. node	10037 Dec 26 04:39	24° <b>)</b> €11'04	
direct	10032 Jun 02 10:50 10032 Sep 19 20:55	14° <b>£</b> 36'35 0° <b>™</b>		evening set	10038 Feb 01 09:44 10038 Mar 15 17:01	0° <b>Υ</b> 8° <b>Υ</b> 38'54	
evening set	10032 Sep 19 20.33 10032 Oct 07 07:54	3°M59'31		max. Earth dist.	10038 Mar 26 09:02	8 1 38 34 10° <b>Υ</b> 58'50	6.41183 AU
<i>5</i>							
conjunction	10032 Oct 20 23:16	7° <b>M</b> 09'50	0°23'50	conjunction	10038 Mar 28 12:41	11° <b>Y</b> ′27'10	
minimum elong	10032 Oct 20 23:14	7°M09'50	0°24'05	minimum elong	10038 Mar 28 12:40	11° <b>Y</b> 27'10	0°05'31
max. Earth dist. morning rise	10032 Oct 23 12:02 10032 Nov 03 15:19	7°M45'13 10°M20'12	6.08573 AU	behind sun begin behind sun end	10038 Mar 28 05:00 10038 Mar 28 20:21	11° <b>Y</b> 22'58 11° <b>Y</b> 31'21	
morning rise	10032 Nov 03 15:19 10032 Nov 24 06:11	15°M		morning rise	10038 Mai 28 20:21 10038 Apr 10 06:47	14° <b>Υ</b> 14'54	
retrograde	10033 Mar 11 04:29	29°M29'11		-	10038 Jul 09 23:08	0°8	

retrograde	10038 Aug 10 13:50	1° <b>8</b> 30'41		morning rise	10043 Oct 03 11:38	9° <b>≙</b> 38'37	
renograde	10038 Sep 11 05:44	30°RY		retrograde	10044 Feb 10 19:01	29° <b>£</b> 50'34	
opposition	10038 Oct 10 11:51	26° <b>Y</b> ′37′38	-0°24'36	min. Earth dist.	10044 Apr 08 15:48	24° <b>£</b> 59'30	4.02790 AU
min. Earth dist.	10038 Oct 12 04:05	26° <b>Y</b> °24'45	4.34314 AU	opposition	10044 Apr 10 06:19	24° <b>≏</b> 46'25	0°22'49
direct	10038 Dec 11 14:58	21° <b>Y</b> '37'36		direct	10044 Jun 07 16:25	19° <b>≏</b> 49'04	
	10039 Feb 28 22:43	0°8			10044 Sep 01 04:14	0° <b>M</b>	
evening set	10039 Apr 15 21:39	9° <b>8</b> 38'36		evening set	10044 Oct 12 11:51	9° <b>M</b> 04'45	
max. Earth dist.	10039 Apr 26 07:50	12° <b>8</b> 00'09	6.26242 AU	C			
	1	_		conjunction	10044 Oct 26 02:53	12°M13'50	0°26'57
conjunction	10039 Apr 28 16:25	12° <b>8</b> 32'16	-0°27'26	minimum elong	10044 Oct 26 02:52	12°ML13'50	0°27'14
minimum elong	10039 Apr 28 16:24	12° <b>8</b> 32'16	0°27'42	max. Earth dist.	10044 Oct 28 15:22	12°M48'50	6.10991 AU
Č	10039 May 09 12:42	15° <b>8</b>			10044 Nov 07 02:45	15° <b>M</b> ₊	
morning rise	10039 May 11 10:36	15° <b>8</b> 25'58		morning rise	10044 Nov 08 18:42	15°M22'56	
Ü	10039 Jul 25 06:38	0°II		C	10045 Jan 20 23:38	0° <b>∡</b> ¹	
retrograde	10039 Sep 13 14:49	3° <b>Ⅱ</b> 44'42		retrograde	10045 Mar 15 19:00	4° <b>≯</b> 20'41	
C	10039 Nov 04 03:50	30°R <b>∀</b>		C	10045 May 09 10:27	30°RML	
opposition	10039 Nov 13 04:23	28° <b>8</b> 50'38	-0°53'31	min. Earth dist.	10045 May 13 05:29	29°M29'29	4.19779 AU
min. Earth dist.	10039 Nov 14 16:34	28° <b>8</b> 38'55	4.17465 AU	opposition	10045 May 14 17:22	29°M17'25	0°53'27
direct	10040 Jan 13 02:46	23° <b>8</b> 52'22		direct	10045 Jul 13 06:54	24°M17'55	
	10040 Mar 18 07:31	0°II			10045 Sep 14 07:09	0° <b>∡</b> ¹	
evening set	10040 May 17 23:09	12° <b>Ⅱ</b> 45'20		evening set	10045 Nov 16 15:05	12° <b>∡</b> ³39'40	
max. Earth dist.	10040 May 29 01:26		6.08840 AU	<i>8</i>			
				conjunction	10045 Nov 30 03:01	15° <b>∡</b> 39'42	0°41'57
conjunction	10040 May 30 20:00	15° <b>Ⅱ</b> 47'08	-0°41'57	minimum elong	10045 Nov 30 03:00	15° <b>₹</b> 39'41	0°42'21
minimum elong	10040 May 30 19:59	15° <b>Ⅱ</b> 47'08		max. Earth dist.	10045 Dec 01 23:40	16° <b>₹</b> '04'34	6.28538 AU
morning rise	10040 Jun 12 17:21	18° <b>Ⅱ</b> 49'34		morning rise	10045 Dec 13 14:14	18° <b>∡</b> ³39′04	
	10040 Aug 02 20:14	0°9			10046 Feb 07 22:45	0°ਰ	
retrograde	10040 Oct 19 11:25	8°925'26		retrograde	10046 Apr 16 09:46	6° <b>ට</b> 24'20	
opposition	10040 Dec 18 10:28	3°529'21	-1°06'23	opposition	10046 Jun 15 18:03		1°04'55
min. Earth dist.	10040 Dec 19 07:35	3°522'24	4.00933 AU	min. Earth dist.	10046 Jun 14 21:12	1° <b>ට</b> 30'51	4.36359 AU
	10041 Jan 16 23:09	30°R <b>Ⅱ</b>			10046 Jun 26 11:39	30°R <b>✓</b>	
direct	10041 Feb 15 23:13	28° <b>Ⅲ</b> 33'16		direct	10046 Aug 15 16:26	26° <b>₹</b> ¹23'05	
	10041 Mar 17 17:29	0ಂತಾ			10046 Oct 04 21:40	0°ප	
evening set	10041 Jun 22 09:44	18°9517'08		evening set	10046 Dec 19 10:34	13° <b>ප</b> 59'57	
<i>Ş</i>				<i>Q</i>			
conjunction	10041 Jul 05 11:52	21° <b>©</b> 27'45	-0°42'08	conjunction	10047 Jan 01 17:36	16° <b>ප</b> 52'08	0°43'32
minimum elong	10041 Jul 05 11:53	21° <b>©</b> 27'45	0°42'33	minimum elong	10047 Jan 01 17:36	16° <b>ප</b> 52'09	0°43'57
max. Earth dist.	10041 Jul 04 22:34	21° <b>©</b> 19'39	5.94741 AU	max. Earth dist.	10047 Jan 02 10:39	17° <b>ට</b> 01'22	6.42901 AU
morning rise	10041 Jul 18 15:50	24°939'34		morning rise	10047 Jan 14 23:06	19° <b>ට</b> 43'23	
C	10041 Aug 10 05:01	$0^{\circ}\Omega$		C	10047 Mar 07 22:57	0° <b>≈</b>	
	10041 Nov 13 10:44	15° <b>Ω</b>		retrograde	10047 May 16 08:55	6° <b>≈</b> 37'59	
retrograde	10041 Nov 27 03:57	15° <b>Ω</b> 18'35		opposition	10047 Jul 16 03:37	1° <b>≈</b> 40'54	0°57'40
Ü	10041 Dec 10 20:36	15°RΩ		min. Earth dist.	10047 Jul 16 01:43	1° <b>≈</b> 41'31	4.47606 AU
opposition	10042 Jan 25 16:02	10° <b>Ω</b> 19′27	-0°54'05		10047 Jul 29 08:44	30°Ŗる	
min. Earth dist.	10042 Jan 25 11:17		3.90833 AU	direct	10047 Sep 16 03:24	26° <b>පි</b> 39'26	
direct	10042 Mar 24 22:57	5° <b>Ω</b> 24'46			10047 Nov 04 01:06	0° <b>≈</b>	
	10042 Jun 13 17:43	15° <b>Ω</b>		evening set	10048 Jan 19 11:20	13° <b>≈</b> 50′24	
evening set	10042 Jul 29 22:11	25° <b>Ω</b> 35'54		C	10048 Jan 24 22:17	15° <b>≈</b>	
C							
conjunction	10042 4 12 07 20	200 0 52120					
minimum elong	10042 Aug 12 07:20	28 <b>3 (</b> 32 20	-0°25'36	conjunction	10048 Feb 01 13:33	16° <b>≈</b> 37'52	0°33'12
	•	28° <b>Ω</b> 52'21		conjunction minimum elong	10048 Feb 01 13:33 10048 Feb 01 13:34	16°≈37'52 16°≈37'52	
max. Earth dist.	10042 Aug 12 07:21	28° <b>Ω</b> 52'21				16° <b>≈</b> 37'52	
	•	28° <b>Ω</b> 52'21	0°25'53	minimum elong	10048 Feb 01 13:34	16° <b>≈</b> 37'52	0°33'32
max. Earth dist.	10042 Aug 12 07:21 10042 Aug 13 07:59 10042 Aug 16 21:48	28° <b>Ω</b> 52'21 29° <b>Ω</b> 07'26 0° <b>m</b>	0°25'53	minimum elong max. Earth dist.	10048 Feb 01 13:34 10048 Feb 01 01:42 10048 Feb 14 13:33	16°≈37'52 16°≈31'32 19°≈24'17	0°33'32
max. Earth dist.	10042 Aug 12 07:21 10042 Aug 13 07:59	28° <b>Ω</b> 52'21 29° <b>Ω</b> 07'26	0°25'53	minimum elong max. Earth dist.	10048 Feb 01 13:34 10048 Feb 01 01:42	16°≈37'52 16°≈31'32	0°33'32
max. Earth dist.	10042 Aug 12 07:21 10042 Aug 13 07:59 10042 Aug 16 21:48 10042 Aug 25 19:02	28° N 52'21 29° N 07'26 0° M 2° M 10'05 23° M 04'24	0°25'53	minimum elong max. Earth dist. morning rise	10048 Feb 01 13:34 10048 Feb 01 01:42 10048 Feb 14 13:33 10048 Apr 09 05:18	16°≈37'52 16°≈31'32 19°≈24'17 0°¥	0°33'32 6.50272 AU
max. Earth dist. morning rise retrograde	10042 Aug 12 07:21 10042 Aug 13 07:59 10042 Aug 16 21:48 10042 Aug 25 19:02 10043 Jan 04 22:00	28° N 52'21 29° N 07'26 0° M 2° M 10'05 23° M 04'24	0°25'53 5.89697 AU 3.91542 AU	minimum elong max. Earth dist. morning rise	10048 Feb 01 13:34 10048 Feb 01 01:42 10048 Feb 14 13:33 10048 Apr 09 05:18 10048 Jun 13 22:01	16°≈37'52 16°≈31'32 19°≈24'17 0° <del>\</del> 5°\£57'36	0°33'32 6.50272 AU
max. Earth dist.  morning rise retrograde min. Earth dist.	10042 Aug 12 07:21 10042 Aug 13 07:59 10042 Aug 16 21:48 10042 Aug 25 19:02 10043 Jan 04 22:00 10043 Mar 04 01:57 10043 Mar 05 05:44	28° \$\mathcal{\Omega} 52'21 \\ 29° \$\mathcal{\Omega} 07'26 \\ 0° \$\mathcal{\Omega} 10'05 \\ 23° \$\mathcal{\Omega} 04'24 \\ 18° \$\mathcal{\Omega} 11'22 \\ 18° \$\mathcal{\Omega} 01'56 \end{array}	0°25'53 5.89697 AU 3.91542 AU	minimum elong max. Earth dist. morning rise retrograde opposition	10048 Feb 01 13:34 10048 Feb 01 01:42 10048 Feb 14 13:33 10048 Apr 09 05:18 10048 Jun 13 22:01 10048 Aug 13 22:59 10048 Aug 14 16:36	16°≈37'52 16°≈31'32 19°≈24'17 0° ₩ 5° ₩ 57'36 1° ₩ 03'07	0°33'32 6.50272 AU 0°35'47
max. Earth dist.  morning rise retrograde min. Earth dist. opposition	10042 Aug 12 07:21 10042 Aug 13 07:59 10042 Aug 16 21:48 10042 Aug 25 19:02 10043 Jan 04 22:00 10043 Mar 04 01:57	28° <b>\Omega</b> 52'21 29° <b>\Omega</b> 07'26 0° <b>m</b> 2° <b>m</b> 10'05 23° <b>m</b> 04'24 18° <b>m</b> 11'22	0°25'53 5.89697 AU 3.91542 AU	minimum elong max. Earth dist. morning rise retrograde opposition	10048 Feb 01 13:34 10048 Feb 01 01:42 10048 Feb 14 13:33 10048 Apr 09 05:18 10048 Jun 13 22:01 10048 Aug 13 22:59	16°≈37'52 16°≈31'32 19°≈24'17 0°₩ 5°₩57'36 1°₩03'07 0°₩57'28	0°33'32 6.50272 AU 0°35'47
max. Earth dist.  morning rise retrograde min. Earth dist. opposition	10042 Aug 12 07:21 10042 Aug 13 07:59 10042 Aug 16 21:48 10042 Aug 25 19:02 10043 Jan 04 22:00 10043 Mar 04 01:57 10043 Mar 05 05:44 10043 May 02 02:58	28° \$\alpha 52'21\ 29° \$\alpha 07'26\ 0° \$\mathref{m}\ 2° \$\mathref{m} 10'05\ 23° \$\mathref{m} 04'24\ 18° \$\mathref{m} 11'22\ 18° \$\mathref{m} 01'56\ 13° \$\mathref{m} 06'37\ \end{array}	0°25'53 5.89697 AU 3.91542 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	10048 Feb 01 13:34 10048 Feb 01 01:42 10048 Feb 14 13:33 10048 Apr 09 05:18 10048 Jun 13 22:01 10048 Aug 13 22:59 10048 Aug 14 16:36 10048 Aug 22 05:16	16°≈37'52 16°≈31'32 19°≈24'17 0°₩ 5°₩57'36 1°₩03'07 0°₩57'28 30°R≈	0°33'32 6.50272 AU 0°35'47
max. Earth dist.  morning rise retrograde min. Earth dist. opposition direct	10042 Aug 12 07:21 10042 Aug 13 07:59 10042 Aug 16 21:48 10042 Aug 25 19:02 10043 Jan 04 22:00 10043 Mar 04 01:57 10043 Mar 05 05:44 10043 May 02 02:58 10043 Aug 24 02:33	28° \$\alpha 52'21\ 29° \$\alpha 07'26\ 0° m\ 2° m\ 10'05\ 23° m\ 04'24\ 18° m\ 01'56\ 13° m\ 06'37\ 0° \$\overline{\Omega}\$	0°25'53 5.89697 AU 3.91542 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	10048 Feb 01 13:34 10048 Feb 01 01:42 10048 Feb 14 13:33 10048 Apr 09 05:18 10048 Jun 13 22:01 10048 Aug 13 22:59 10048 Aug 14 16:36 10048 Aug 22 05:16 10048 Oct 15 13:52	16°≈37'52 16°≈31'32 19°≈24'17 0°₩ 5°₩57'36 1°₩03'07 0°₩57'28 30°R≈ 26°≈01'41	0°33'32 6.50272 AU 0°35'47
max. Earth dist.  morning rise retrograde min. Earth dist. opposition direct asc. node	10042 Aug 12 07:21 10042 Aug 13 07:59 10042 Aug 16 21:48 10042 Aug 25 19:02 10043 Jan 04 22:00 10043 Mar 04 01:57 10043 Mar 05 05:44 10043 May 02 02:58 10043 Aug 24 02:33 10043 Aug 30 15:22	28° \$\alpha 52'21 29° \$\alpha 07'26 0° my 2° my 10'05 23° my 04'24 18° my 11'22 18° my 01'56 13° my 06'37 0° \$\oldsymbol{\Omega}\$ 1° \$\oldsymbol{\Omega} 32'25	0°25'53 5.89697 AU 3.91542 AU	minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist.  direct	10048 Feb 01 13:34 10048 Feb 01 01:42 10048 Feb 14 13:33 10048 Apr 09 05:18 10048 Jun 13 22:01 10048 Aug 13 22:59 10048 Aug 14 16:36 10048 Aug 22 05:16 10048 Oct 15 13:52 10048 Dec 08 10:13	16°≈37'52 16°≈31'32 19°≈24'17 0° ₩ 5° ₩ 57'36 1° ₩ 03'07 0° ₩ 57'28 30° R≈ 26°≈01'41 0° ₩ 13° ₩ 09'28	0°33'32 6.50272 AU 0°35'47
max. Earth dist.  morning rise retrograde min. Earth dist. opposition direct asc. node	10042 Aug 12 07:21 10042 Aug 13 07:59 10042 Aug 16 21:48 10042 Aug 25 19:02 10043 Jan 04 22:00 10043 Mar 04 01:57 10043 Mar 05 05:44 10043 May 02 02:58 10043 Aug 24 02:33 10043 Aug 30 15:22	28° \$\alpha 52'21 29° \$\alpha 07'26 0° my 2° my 10'05 23° my 04'24 18° my 11'22 18° my 01'56 13° my 06'37 0° \$\oldsymbol{\Omega}\$ 1° \$\oldsymbol{\Omega} 32'25	0°25'53 5.89697 AU 3.91542 AU	minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist.  direct evening set	10048 Feb 01 13:34 10048 Feb 01 01:42 10048 Feb 14 13:33 10048 Apr 09 05:18 10048 Jun 13 22:01 10048 Aug 13 22:59 10048 Aug 14 16:36 10048 Aug 22 05:16 10048 Oct 15 13:52 10048 Dec 08 10:13 10049 Feb 17 15:22	16°≈37'52 16°≈31'32 19°≈24'17 0° ₩ 5° ₩ 57'36 1° ₩ 03'07 0° ₩ 57'28 30° R≈ 26°≈01'41 0° ₩ 13° ₩ 09'28	0°33'32 6.50272 AU 0°35'47 4.50758 AU
max. Earth dist.  morning rise retrograde min. Earth dist. opposition direct asc. node evening set	10042 Aug 12 07:21 10042 Aug 13 07:59 10042 Aug 16 21:48 10042 Aug 25 19:02 10043 Jan 04 22:00 10043 Mar 04 01:57 10043 Mar 05 05:44 10043 May 02 02:58 10043 Aug 24 02:33 10043 Aug 30 15:22 10043 Sep 06 04:50	28° \$\alpha 52'21 29° \$\alpha 07'26 0° m 2° m 10'05 23° m 04'24 18° m 11'22 18° m 01'56 13° m 06'37 0° \overline{\Omega} 1° \overline{\Omega} 32'25 3° \overline{\Omega} 06'09	0°25'53 5.89697 AU 3.91542 AU -0°18'55	minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist.  direct evening set	10048 Feb 01 13:34 10048 Feb 01 01:42 10048 Feb 14 13:33 10048 Apr 09 05:18 10048 Jun 13 22:01 10048 Aug 13 22:59 10048 Aug 14 16:36 10048 Aug 22 05:16 10048 Oct 15 13:52 10048 Dec 08 10:13 10049 Feb 17 15:22	16°≈37'52 16°≈31'32 19°≈24'17 0° ₩ 5° ₩ 57'36 1° ₩ 03'07 0° ₩ 57'28 30° R≈ 26°≈01'41 0° ₩ 13° ₩ 09'28	0°33'32 6.50272 AU 0°35'47 4.50758 AU
max. Earth dist.  morning rise retrograde min. Earth dist. opposition direct asc. node evening set conjunction	10042 Aug 12 07:21 10042 Aug 13 07:59 10042 Aug 16 21:48 10042 Aug 25 19:02 10043 Jan 04 22:00 10043 Mar 04 01:57 10043 Mar 05 05:44 10043 May 02 02:58 10043 Aug 24 02:33 10043 Aug 30 15:22 10043 Sep 06 04:50	28° \$\alpha 52'21 29° \$\alpha 07'26 0° m 2° m 10'05 23° m 04'24 18° m 11'22 18° m 01'56 13° m 06'37 0° \overline{1} 1° \overline{1} 32'25 3° \overline{1} 06'09 6° \overline{1} 22'01	0°25'53 5.89697 AU 3.91542 AU -0°18'55	minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist.  direct  evening set max. Earth dist.	10048 Feb 01 13:34 10048 Feb 01 01:42 10048 Feb 14 13:33 10048 Apr 09 05:18 10048 Jun 13 22:01 10048 Aug 13 22:59 10048 Aug 14 16:36 10048 Oct 15 13:52 10048 Dec 08 10:13 10049 Feb 17 15:22 10049 Feb 28 22:46	16°≈37'52 16°≈31'32 19°≈24'17 0° ₩ 5° ₩57'36 1° ₩03'07 0° ₩57'28 30° R≈ 26°≈01'41 0° ₩ 13° ₩09'28 15° ₩35'02	0°33'32 6.50272 AU 0°35'47 4.50758 AU 6.48956 AU
max. Earth dist.  morning rise retrograde min. Earth dist. opposition direct asc. node evening set conjunction minimum elong	10042 Aug 12 07:21 10042 Aug 13 07:59 10042 Aug 16 21:48 10042 Aug 25 19:02 10043 Jan 04 22:00 10043 Mar 04 01:57 10043 Mar 05 05:44 10043 May 02 02:58 10043 Aug 24 02:33 10043 Aug 30 15:22 10043 Sep 06 04:50 10043 Sep 19 19:21 10043 Sep 19 19:22	28° \$\alpha 52'21 29° \$\alpha 07'26 0° m 2° m 10'05 23° m 04'24 18° m 11'22 18° m 01'56 13° m 06'37 0° \overline{\Omega} 1° \overline{\Omega} 32'25 3° \overline{\Omega} 06'09 6° \overline{\Omega} 22'01 6° \overline{\Omega} 22'01	0°25'53 5.89697 AU 3.91542 AU -0°18'55	minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist.  direct  evening set max. Earth dist.  conjunction	10048 Feb 01 13:34 10048 Feb 01 01:42 10048 Feb 14 13:33 10048 Apr 09 05:18 10048 Jun 13 22:01 10048 Aug 13 22:59 10048 Aug 14 16:36 10048 Aug 22 05:16 10048 Oct 15 13:52 10049 Dec 08 10:13 10049 Feb 17 15:22 10049 Mar 02 13:24	16°≈37'52 16°≈31'32 19°≈24'17 0° ₩ 5° ₩57'36 1° ₩03'07 0° ₩57'28 30° R≈ 26°≈01'41 0° ₩ 13° ₩09'28 15° ₩35'02	0°33'32 6.50272 AU 0°35'47 4.50758 AU 6.48956 AU 0°14'21
max. Earth dist.  morning rise retrograde min. Earth dist. opposition direct asc. node evening set conjunction minimum elong behind sun begin	10042 Aug 12 07:21 10042 Aug 13 07:59 10042 Aug 16 21:48 10042 Aug 25 19:02 10043 Jan 04 22:00 10043 Mar 04 01:57 10043 Mar 05 05:44 10043 May 02 02:58 10043 Aug 24 02:33 10043 Aug 30 15:22 10043 Sep 19 19:21 10043 Sep 19 19:21 10043 Sep 19 19:22 10043 Sep 19 10:58	28° \$\lambda 52'21 29° \$\lambda 07'26 0° \$\lambda\$ 2° \$\lambda 10'05 23° \$\lambda 04'24 18° \$\lambda 11'22 18° \$\lambda 06'37 0° \$\lambda\$ 1° \$\lambda 32'25 3° \$\lambda 06'09  6° \$\lambda 22'01 6° \$\lambda 22'01 6° \$\lambda 17'00 6° \$\lambda 27'03	0°25'53 5.89697 AU 3.91542 AU -0°18'55	minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist.  direct  evening set max. Earth dist.  conjunction minimum elong	10048 Feb 01 13:34 10048 Feb 01 01:42 10048 Feb 14 13:33 10048 Apr 09 05:18 10048 Jun 13 22:01 10048 Aug 13 22:59 10048 Aug 14 16:36 10048 Aug 22 05:16 10048 Oct 15 13:52 10049 Dec 08 10:13 10049 Feb 17 15:22 10049 Feb 28 22:46 10049 Mar 02 13:24 10049 Mar 02 13:24	16°≈37'52 16°≈31'32 19°≈24'17 0° ₩ 5° ₩ 57'36 1° ₩ 03'07 0° ₩ 57'28 30° R≈ 26°≈01'41 0° ₩ 13° ₩ 09'28 15° ₩ 35'02 15° ₩ 55'49 15° ₩ 55'49	0°33'32 6.50272 AU 0°35'47 4.50758 AU 6.48956 AU 0°14'21

morning rise	10049 Mar 15 09:35	18° <b>∺</b> 41′20		minimum elong	10054 Aug 17 19:41	4° Mp 25′31	0°22'19
	10049 May 12 22:26	$0^{\circ}$ Y		max. Earth dist.	10054 Aug 19 03:35	4° Mp 45′02	5.89875 AU
retrograde	10049 Jul 14 04:38	5° <b>Y</b> 24'33		morning rise	10054 Aug 31 08:10	7° <b>™</b> 43'33	
opposition	10049 Sep 13 05:44	0° <b>Ƴ</b> 31'24	0°04'39	retrograde	10055 Jan 10 08:52	28° m 34'54	
min. Earth dist.	10049 Sep 14 15:29	0° <b>Y</b> 20′37	4.45080 AU	min. Earth dist.	10055 Mar 09 09:56	23°m42'16	3.92649 AU
	10049 Sep 17 08:10	30°R <b>)</b> €		opposition	10055 Mar 10 16:06	23° m/32'01	
desc. node	10049 Nov 05 14:27	25° <b>)</b> 38'12		direct			0 12 30
					10055 May 07 14:04	18° Mp 36'29	
direct	10049 Nov 14 21:13	25° <b>)</b> € 30′23		asc. node	10055 Jul 08 11:43	24° Tp 32'10	
	10050 Jan 10 23:43	$0^{\circ}\mathbf{Y}$			10055 Aug 05 09:36	0∘ <b>⊽</b>	
evening set	10050 Mar 19 22:34	12° <b>Y</b> 58′22		evening set	10055 Sep 11 15:01	8° <b>₾</b> 30'38	
max. Earth dist.	10050 Mar 30 12:11	15° <b>Ƴ</b> 17'35	6.39254 AU				
				conjunction	10055 Sep 25 05:44	11° <b>≏</b> 45'43	0°05'29
conjunction	10050 Apr 01 18:06	15° <b>Ƴ</b> 47'17	-0°08'42	minimum elong	10055 Sep 25 05:43	11° <b>≏</b> 45'43	0°05'32
minimum elong	10050 Apr 01 18:06	15° <b>℃</b> 47'17		behind sun begin	10055 Sep 24 21:39	11° <b>Ω</b> 40'55	0 00 02
	•	15° <b>Υ</b> 4717	0 00 40	Č	•		
behind sun begin	10050 Apr 01 11:11			behind sun end	10055 Sep 25 13:46	11° <b>≏</b> 50'30	
behind sun end	10050 Apr 02 01:00	15° <b>Y</b> 51′04		max. Earth dist.	10055 Sep 27 14:42	12° <b>≏</b> 19'46	5.97930 AU
morning rise	10050 Apr 14 12:03	18° <b>Ƴ</b> 35'44		morning rise	10055 Oct 08 22:19	15° <b>≏</b> 01'28	
	10050 Jun 10 16:27	0° <b>႘</b>			10055 Dec 19 20:24	$0^{\circ}$ M $_{\circ}$	
retrograde	10050 Aug 15 02:49	5° <b>8</b> 59'34		retrograde	10056 Feb 15 18:00	5°M03'01	
opposition	10050 Oct 15 00:27	1° <b>8</b> 06'27	-0°29'09	min. Earth dist.	10056 Apr 13 16:00	0° <b>M</b> ₊12'18	4.05199 AU
min. Earth dist.	10050 Oct 16 16:23	0° <b>8</b> 53'39		opposition	10056 Apr 15 07:49	29° <b>£</b> 58'47	0°28'10
iiiii. Latui uist.		_	4.51692 AU	оррозний	•		0 28 10
	10050 Oct 23 17:27	30° <b>₹</b> Υ			10056 Apr 15 04:14	30° <b>₹</b> Ω	
direct	10050 Dec 15 22:44	26° <b>Y</b> 06′38		direct	10056 Jun 12 20:58	25° <b>ჲ</b> 01'03	
	10051 Feb 05 23:12	$9^{\circ}$ 8			10056 Aug 09 04:40	0°M₊	
evening set	10051 Apr 20 09:03	14° <b>8</b> 15'23		evening set	10056 Oct 17 14:59	14° <b>M</b> 08'15	
	10051 Apr 23 15:43	15° <b>8</b>			10056 Oct 21 09:18	15° <b>M</b> ₊	
max. Earth dist.	10051 Apr 30 20:42	_	6.23509 AU				
max. Latin dist.	10031 Apr 30 20.42	10 03037	0.23307 AU	aaniumatian	10056 Oat 21 05:42	17°M15'58	0°29'52
	1005134 02 02 50	170 110110	000005	conjunction	10056 Oct 31 05:43		
conjunction	10051 May 03 03:58	17° <b>8</b> 10'13		minimum elong	10056 Oct 31 05:42	17° <b>M</b> 15'57	0°30'09
minimum elong	10051 May 03 03:57	17° <b>8</b> 10'13	0°30'22	max. Earth dist.	10056 Nov 02 16:29	17° <b>M</b> 49'46	6.13697 AU
morning rise	10051 May 15 22:25	20° <b>8</b> 05'09		morning rise	10056 Nov 13 20:56	20°M23'33	
	10051 Jul 01 09:19	$\Pi^{\circ}0$			10056 Dec 28 15:57	0° <b>∡</b> ¹	
retrograde	10051 Sep 18 16:58	8° <b>Ⅱ</b> 35'43		retrograde	10057 Mar 20 10:08	9° <b>∡</b> 109'24	
opposition	10051 Nov 18 02:46	3° <b>Ⅱ</b> 41'30	-0°56'33	min. Earth dist.	10057 May 17 23:54	4° <b>х</b> 17'38	4.22501 AU
* *			4.14607 AU			4°×17'36'4°×7'06'26	
min. Earth dist.	10051 Nov 19 14:35		4.1460/ AU	opposition	10057 May 19 09:16		0°56'16
	10051 Dec 20 06:42	30° <b>₹</b> 8			10057 Jun 24 16:37	30°RM	
direct	10052 Jan 17 20:52	28° <b>8</b> 43'34		direct	10057 Jul 18 04:31	29° <b>™</b> 06'39	
	10052 Feb 15 06:58	$\Pi^{\circ}0$			10057 Aug 10 20:54	0° <b>∡</b> ¹	
evening set	10052 May 22 19:29	17° <b>Ⅱ</b> 45'46		evening set	10057 Nov 21 09:09	17° <b>∡</b> 20′22	
max. Earth dist.	10052 Jun 03 00:52	20° <b>∏</b> 25′13	6.06120 AU	Ü			
man. Bartin dibt.	100020411 05 00.02	20 220 10	0.00120110	conjunction	10057 Dec 04 20:27	20° <b>尽</b> 19'04	0°42'58
	10052 1 04 16 57	200T 40102	0042157	,			
conjunction	10052 Jun 04 16:57	20° <b>∏</b> 49'02		minimum elong	10057 Dec 04 20:26	20° <b>√</b> 19'04	0°43'24
minimum elong	10052 Jun 04 16:57	20° <b>∏</b> 49'02	0°43'22	max. Earth dist.	10057 Dec 06 14:08	20° <b>∡</b> ⁴42'09	6.31051 AU
morning rise	10052 Jun 17 15:12	23° <b>Ⅱ</b> 53'03		morning rise	10057 Dec 18 06:52	23° <b>∡</b> 17′03	
	10052 Jul 14 04:39	$0$ $\circ$ $\odot$			10058 Jan 19 00:54	0° <b>る</b>	
retrograde	10052 Oct 24 20:20	13° <b>5</b> 540'59		retrograde	10058 Apr 20 15:10	10°る53'00	
opposition	10052 Dec 23 18:09	8° <b>©</b> 44'34	-1°06'15	min. Earth dist.	10058 Jun 19 07:28	5° <b>る</b> 59'17	4.38496 AU
min. Earth dist.	10052 Dec 24 11:00	8° <b>©</b> 39'01	3.98636 AU	opposition	10058 Jun 20 02:25	5° <b>る</b> 53'03	1°04'54
direct	10052 Bec 24 11:00 10053 Feb 21 00:22	3°948'50	2.70000110	direct	10058 Aug 20 03:58	0°る52'02	
					-		
evening set	10053 Jun 27 15:32	23° <b>©</b> 39'55		evening set	10058 Dec 23 21:08	18° <b>る</b> 23'30	
conjunction	10053 Jul 10 18:37	26°\$51'46	-0°40'44	conjunction	10059 Jan 06 03:26	21° <b>る</b> 14'46	0°42'42
minimum elong	10053 Jul 10 18:37	26°951'47	0°41'07	minimum elong	10059 Jan 06 03:27	21° <b>る</b> 14'46	0°43'07
max. Earth dist.	10053 Jul 10 10:50	26°5947'02	5.93106 AU	max. Earth dist.	10059 Jan 06 16:04	21° <b>ප්</b> 21'35	6.44519 AU
morning rise	10053 Jul 23 23:45	0°Ω04'54	1	morning rise	10059 Jan 19 08:02	24°る05'03	
morning Hac	10053 Jul 23 25:40	0°Ω		11101111115 1130	10059 Jan 19 08:02 10059 Feb 16 21:18	24 <b>3</b> 03 03 03 03 03 03 03 03 03 03 03 03 03 0	
	10053 Oct 01 03:45	15° <b>Ω</b>		retrograde	10059 May 20 13:02	10° <b>≈</b> 54'34	
retrograde	10053 Dec 02 18:17	20° <b>Ω</b> 50'37		opposition	10059 Jul 20 08:13	5° <b>≈</b> 57'55	0°55'18
opposition	10054 Jan 31 04:57	15° <b>Ω</b> 50'57	-0°50'09	min. Earth dist.	10059 Jul 20 09:48	5° <b>≈</b> 57'24	4.48619 AU
min. Earth dist.	10054 Jan 30 20:18	15° <b>Ω</b> 53'51	3.90058 AU	direct	10059 Sep 20 11:47	0°≈56'25	
	10054 Feb 06 13:24	15°RΩ			10060 Jan 08 22:57	15° <b>≈</b>	
direct	10054 Mar 30 09:47	10°Ω56'17		evening set	10060 Jan 23 17:35	18°≈05'25	
311001	10054 May 19 15:04	10 <b>%</b> 230 17		o , oming sor	10000 Juli 23 17.33	10 ~00 25	
	-				100(0 F 1 07 10 01	20052120	0920156
	10054 Jul 30 16:11	0° <b>m</b> )		conjunction	10060 Feb 05 19:04	20°≈52'30	0°30'56
evening set	10054 Aug 04 09:24	1°Mp 08'40		minimum elong	10060 Feb 05 19:05	20° <b>≈</b> 52'31	0°31'15
				max. Earth dist.	10060 Feb 05 01:43	20° <b>≈</b> 43'14	6.50602 AU
conjunction	10054 Aug 17 19:40	4° <b>m</b> 25'30	-0°22'06	morning rise	10060 Feb 18 18:35	23° <b>≈</b> 38'36	

	100/03/ 20 20 01	001/			1006671 07 04 40	210 02 415	2 00005 111
_	10060 Mar 20 20:01	0° <b>∀</b>		min. Earth dist.	10066 Feb 05 04:49	21° <b>Ω</b> 24'17	3.90005 AU
retrograde	10060 Jun 18 02:59	10° <b>)</b> 11'31		direct	10066 Apr 04 19:21	16° <b>Ω</b> 25'34	
opposition	10060 Aug 18 03:37	5° <b>∺</b> 17'15	0°31'47		10066 Jul 12 20:32	0° <b>™</b>	
min. Earth dist.	10060 Aug 19 00:07	5° <b>)</b> 10′41	4.50407 AU	evening set	10066 Aug 09 19:26	6° Mp 36′24	
direct	10060 Oct 19 19:16	0° <b>∺</b> 15'46					
evening set	10061 Feb 21 20:37	17° <b>¥</b> 25'19		conjunction	10066 Aug 23 06:20	9° <b>m</b> 53'11	-0°18'30
max. Earth dist.	10061 Mar 05 01:52	19° <b>¥</b> 50′01	6.47942 AU	minimum elong	10066 Aug 23 06:20	9° m 53'11	0°18'40
				max. Earth dist.	10066 Aug 24 18:05	10° <b>m</b> 15'00	5.90712 AU
conjunction	10061 Mar 06 18:24	20° <b>)</b> 11′53	0°11'13	morning rise	10066 Sep 05 19:45	13° <b>m</b> ) 11'11	
minimum elong	10061 Mar 06 18:24	20° <b>)</b> 11′54	0°11'20		10066 Nov 26 02:40	0∘ <b>⊽</b>	
behind sun begin	10061 Mar 06 12:34	20° <del>X</del> 08'45	0 11 20	retrograde	10067 Jan 15 13:48	° <b>–</b> 3° <b>≏</b> 56'46	
				renograde			
behind sun end	10061 Mar 07 00:15	20° <b>)</b> 15′02		•.•	10067 Mar 07 17:51	30°R, Mp	0006151
morning rise	10061 Mar 19 14:02	22° <b>)</b> 57′38		opposition	10067 Mar 15 22:48	28° <b>m</b> 53'34	
	10061 Apr 22 19:06	$0^{\circ}$ $\Upsilon$		min. Earth dist.	10067 Mar 14 13:35	29° <b>m</b> 04'51	3.94284 AU
retrograde	10061 Jul 18 12:55	9° <b>Ƴ</b> 45'10		direct	10067 May 12 21:43	23° <b>m</b> 57'46	
desc. node	10061 Sep 15 13:12	5° <b>Ƴ</b> 07'47		asc. node	10067 May 18 14:37	24° <b>m</b> 01'09	
opposition	10061 Sep 17 14:21	4° <b>Ƴ</b> 52'06	-0°00'11		10067 Jul 14 14:20	0∘ <b>ত</b>	
min. Earth dist.	10061 Sep 19 01:13	4° <b>Ƴ</b> 40'58	4.43464 AU	evening set	10067 Sep 16 21:32	13° <b>≏</b> 45'05	
	10061 Nov 09 07:34	30° <b>₹</b>			•		
direct	10061 Nov 19 03:15	29° <b>)</b> 51'14		conjunction	10067 Sep 30 12:28	16° <b>≙</b> 59'10	0°09'18
	10061 Nov 29 00:18	0°Υ		minimum elong	10067 Sep 30 12:28	16° <b>Ω</b> 59'10	0°09'24
evening set	10061 Nov 25 00:10 10062 Mar 24 06:53	17° <b>Y</b> ′24'22		behind sun begin	10067 Sep 30 12:20 10067 Sep 30 05:30	16° <b>⊆</b> 55'03	0 0)24
•			6 27125 ATT	C	1		
max. Earth dist.	10062 Apr 03 18:30	19 74312	6.37135 AU	behind sun end	10067 Sep 30 19:25	17° <b>2</b> 03'17	
				max. Earth dist.	10067 Oct 02 22:40	17° <b>≏</b> 33'46	6.00181 AU
conjunction	10062 Apr 06 02:05	20° <b>Y</b> 14′00		morning rise	10067 Oct 14 05:01	20° <b>≏</b> 13'48	
minimum elong	10062 Apr 06 02:04	20° <b>Ƴ</b> 14'00	0°12'05		10067 Nov 27 02:54	0°M	
behind sun begin	10062 Apr 05 20:36	20° <b>Y</b> 10′59		retrograde	10068 Feb 20 14:44	10°ML04'13	
behind sun end	10062 Apr 06 07:32	20° <b>Ƴ</b> 17′01		min. Earth dist.	10068 Apr 18 14:34	5° <b>M</b> 13′08	4.07793 AU
morning rise	10062 Apr 18 20:04	23° <b>Y</b> 03'16		opposition	10068 Apr 20 05:10	5° <b>M</b> ₀00'02	0°33'05
	10062 May 21 13:24	$9^{\circ}$ 8		direct	10068 Jun 17 23:04	0°ML02'00	
retrograde	10062 Aug 19 21:48	10° <b>8</b> 35'50			10068 Oct 04 16:35	15° <b>™</b>	
opposition	10062 Oct 19 16:38	5° <b>8</b> 42'39	-0°33'42	evening set	10068 Oct 22 13:29	19°M00'33	
min. Earth dist.	10062 Oct 21 09:32	5° <b>8</b> 29'31	4.29394 AU	evening sec	10000 000 22 15.25	19 110 00 00	
direct	10062 Dec 20 12:09	0° <b>8</b> 43'02	4.2/3/4/10	conjunction	10068 Nov 05 03:55	22°M06'55	0°32'26
unect		15° <b>8</b>		•			0°32'45
	10063 Apr 07 03:21	_		minimum elong	10068 Nov 05 03:54	22°M06'54	
evening set	10063 Apr 24 23:42	18° <b>8</b> 59'39		max. Earth dist.	10068 Nov 07 13:58	22°M40'06	6.16391 AU
max. Earth dist.	10063 May 05 12:37	21° <b>8</b> 24'29	6.20839 AU	morning rise	10068 Nov 18 18:32	25° <b>™</b> 13'02	
					10068 Dec 10 08:07	0° <b>∡</b>	
conjunction	10063 May 07 18:54	21° <b>8</b> 55'41	-0°32'36	retrograde	10069 Mar 24 19:14	13° <b>∡</b> ¹47'43	
minimum elong	10063 May 07 18:53	21° <b>8</b> 55'41	0°32'55	opposition	10069 May 23 21:05	8° <b>∡</b> ¹45'11	0°58'37
morning rise	10063 May 20 13:41	24° <b>8</b> 51'53		min. Earth dist.	10069 May 22 12:49	8° <b>∡</b> ′55'59	4.25062 AU
	10063 Jun 12 12:01	$\Pi^{\circ}$		direct	10069 Jul 22 19:39	3° <b>∡</b> ¹45'15	
retrograde	10063 Sep 23 19:16	13° <b>Ⅱ</b> 33'54		evening set	10069 Nov 25 23:25	21° <b>х</b> 51'55	
opposition	10063 Nov 23 04:10	8° <b>Ⅱ</b> 39'29	-0°59'17	Ü			
min. Earth dist.	10063 Nov 24 13:10	8° <b>Ⅱ</b> 28'45	4.12002 AU	conjunction	10069 Dec 09 09:57	24° <b>√</b> 49'24	0°43'42
direct	10064 Jan 22 15:50	3° <b>I</b> I41'57	2002110	minimum elong	10069 Dec 09 09:56	24° <b>×</b> 749'24	0°44'07
evening set	10064 May 27 18:43	22° <b>I</b> 52'22		max. Earth dist.	10069 Dec 10 22:21	25°×709'28	6.33283 AU
max. Earth dist.	10064 Jun 08 04:58		6.03829 AU	morning rise	10069 Dec 22 19:39	27° <b>x</b> 46'10	0.33263 AU
max. Earm dist.	10004 Juli 08 04.38	23 113333	0.03829 AU	morning rise			
	100647 00 16 15	250W56155	00.4040		10070 Jan 02 02:42	0°る	
conjunction	10064 Jun 09 16:45	25° <b>Ⅱ</b> 56'57		retrograde	10070 Apr 24 20:28	15°る14'17	1004:24
minimum elong	10064 Jun 09 16:44	25° <b>Ⅱ</b> 56'57	0°44'06	opposition	10070 Jun 24 07:55	10° <b>る</b> 14'53	1°04'34
morning rise	10064 Jun 22 15:51	29° <b>Ⅱ</b> 02'23		min. Earth dist.	10070 Jun 23 16:53	10° <b>る</b> 19'49	4.40254 AU
	10064 Jun 26 17:12	$0$ $\circ$		direct	10070 Aug 24 14:28	5° <b>る</b> 13'47	
retrograde	10064 Oct 30 08:19	19° <b>©</b> 00'40		evening set	10070 Dec 28 04:58	22° <b>る</b> 41'19	
opposition	10064 Dec 29 03:59	14° <b>©</b> 03'50	-1°05'36				
min. Earth dist.	10064 Dec 29 17:23	13° <b>©</b> 59'25	3.96908 AU	conjunction	10071 Jan 10 10:43	25° <b>る</b> 31'55	0°41'41
direct	10065 Feb 26 06:53	9° <b>©</b> 08'23		minimum elong	10071 Jan 10 10:43	25° <b>る</b> 31'55	0°42'06
evening set	10065 Jul 02 22:15	29°504'13		max. Earth dist.	10071 Jan 10 19:17	25° <b>පි</b> 36'31	6.45688 AU
	10065 Jul 06 18:00	0°Ω		morning rise	10071 Jan 23 14:35	28° <b>ට</b> 21'29	
	10000 741 00 10.00	~ OL			10071 Jan 23 14:33	28 <b>⊙</b> 21 29	
conjunction	10065 Jul 16 02:26	2° <b>Ω</b> 17'02	0.30,00		10071 Jan 31 08:11 10071 May 15 15:03	0 ∞ 15°≈	
					•		
minimum elong	10065 Jul 16 02:27	2° <b>Ω</b> 17'02		retrograde	10071 May 24 14:32	15°≈07'38	
max. Earth dist.	10065 Jul 16 01:57	2° <b>Ω</b> 16'44	5.92142 AU		10071 Jun 02 13:45	15°R≈	0050:::
morning rise	10065 Jul 29 08:32	5° <b>Ω</b> 31'06		opposition	10071 Jul 24 11:12	10°≈11'23	0°52'46
	10065 Sep 08 08:49	15° <b>Ω</b>		min. Earth dist.	10071 Jul 24 14:57	10° <b>≈</b> 10′10	4.49164 AU
retrograde	10065 Dec 08 07:47	26° <b>Ω</b> 20′18		direct	10071 Sep 24 15:58	5° <b>≈</b> 09'54	
opposition	10066 Feb 05 17:05	21° <b>Q</b> 20'10	-0°45'49		10071 Dec 22 20:45	15° <b>≈</b>	

evening set	10072 Jan 27 22:19	22°≈18'28		minimum elong max. Earth dist.	10077 Jul 21 08:15 10077 Jul 21 11:31	7° <b>Ω</b> 37'06 7° <b>Ω</b> 39'05	0°37'19 5.91445 AU
conjunction	10072 Feb 09 23:19	25° <b>≈</b> 05'23	0°28'35	morning rise	10077 Aug 03 15:33	10° <b>Ω</b> 51'59	
minimum elong	10072 Feb 09 23:20	25° <b>≈</b> 05'23	0°28'51	Č	10077 Aug 20 21:40	15° <b>Ω</b>	
max. Earth dist.	10072 Feb 09 02:50	24° <b>≈</b> 54'25	6.50502 AU		10077 Nov 10 22:35	0° <b>m</b>	
morning rise	10072 Feb 22 22:11	27° <b>≈</b> 51'19		retrograde	10077 Dec 13 15:44	1° m/43'25	
-	10072 Mar 04 02:31	0° <b>)</b>			10078 Jan 15 08:55	$30^{\circ}$ R $\Omega$	
retrograde	10072 Jun 22 07:40	14° <b>¥</b> 25′20		min. Earth dist.	10078 Feb 10 09:38	26° <b>Ω</b> 48'16	3.90063 AU
opposition	10072 Aug 22 08:11	9° <b>)</b> 31′22	0°27'43	opposition	10078 Feb 11 01:57	26° <b>Ω</b> 42'45	-0°41'08
min. Earth dist.	10072 Aug 23 07:17	9° <b>)</b> 23′59	4.49680 AU	direct	10078 Apr 10 02:08	21° <b>Ω</b> 48′03	
direct	10072 Oct 24 00:19	4° <b>)</b> 30′01			10078 Jun 22 23:14	0° <b>™</b>	
evening set	10073 Feb 26 01:55	21° <b>¥</b> 42′21		evening set	10078 Aug 15 02:49	11° <b>m</b> 57'18	
max. Earth dist.	10073 Mar 09 02:47	24° <b>∺</b> 05'13	6.46639 AU				
				conjunction	10078 Aug 28 14:34	15° <b>To</b> 14'04	-0°14'46
conjunction	10073 Mar 10 23:10	24° <b>∺</b> 29'15	0°08'05	minimum elong	10078 Aug 28 14:35	15° <b>m</b> 14'05	0°14'55
minimum elong	10073 Mar 10 23:11	24° <b>∺</b> 29'15	0°08'10	behind sun begin	10078 Aug 28 11:30	15° Mp 12'12	
behind sun begin	10073 Mar 10 16:06	24° <b>∺</b> 25′26		behind sun end	10078 Aug 28 17:40	15° <b>m</b> 15'57	
behind sun end	10073 Mar 11 06:16	24° <b>)</b> 33′04		max. Earth dist.	10078 Aug 30 06:42	15° <b>m</b> 38'30	5.91520 AU
morning rise	10073 Mar 23 18:40	27° <b>₩</b> 15'24		morning rise	10078 Sep 11 04:36	18° <b>m</b> 31'57	
	10073 Apr 05 15:45	$0$ ° $\Upsilon$			10078 Nov 01 03:31	0∘ <b>ত</b>	
retrograde	10073 Jul 22 23:48	14° <b>Y</b> 08'13		retrograde	10079 Jan 20 18:09	9° <b>₽</b> 12'12	
desc. node	10073 Jul 27 07:38	14° <b>Ƴ</b> 06′27		min. Earth dist.	10079 Mar 19 17:08	4° <b>≏</b> 20'11	3.95728 AU
opposition	10073 Sep 21 23:45	9° <b>Y</b> 15'11	-0°04'58	opposition	10079 Mar 21 02:58	4° <b>≏</b> 08'41	-0°00'53
min. Earth dist.	10073 Sep 23 12:01	9° <b>Ƴ</b> 03'35	4.41668 AU	asc. node	10079 Mar 29 08:41	3° <b>ഫ</b> 02'03	
direct	10073 Nov 23 10:57	4° <b>Υ</b> 14'26			10079 Apr 26 15:18	30°R, Mp	
evening set	10074 Mar 28 15:40	21° <b>Y</b> ′53'09		direct	10079 May 18 04:33	29° <b>m</b> 12'34	
max. Earth dist.	10074 Apr 08 03:54	24° <b>Y</b> 12'58	6.34986 AU		10079 Jun 08 17:49	0∘ <b>ত</b>	
				evening set	10079 Sep 22 02:08	18° <b>≏</b> 54'05	
conjunction	10074 Apr 10 10:55	24° <b>Ƴ</b> 43'36	-0°15'10				
minimum elong	10074 Apr 10 10:54	24° <b>Y</b> 43'35	0°15'19	conjunction	10079 Oct 05 17:19	22° <b>≏</b> 07'21	0°13'02
behind sun begin	10074 Apr 10 08:16	24° <b>Y</b> '42'08		minimum elong	10079 Oct 05 17:19	22° <b>ჲ</b> 07'20	0°13'10
behind sun end	10074 Apr 10 13:32	24° <b>Y</b> 45'03		behind sun begin	10079 Oct 05 12:29	22° <b>ഫ</b> 04'30	
morning rise	10074 Apr 23 04:44	27° <b>Y</b> 33'39		behind sun end	10079 Oct 05 22:08	22° <b>≏</b> 10'11	
	10074 May 04 07:19	0°8		max. Earth dist.	10079 Oct 08 05:34	22° <b>≏</b> 42'59	6.02109 AU
	10074 Aug 12 00:38	15° <b>8</b>		morning rise	10079 Oct 19 09:51	25° <b>≏</b> 21'02	
retrograde	10074 Aug 24 15:06	15° <b>8</b> 14'54			10079 Nov 08 15:06	$0^{\circ}$ M	
	10074 Sep 06 05:30	15° <b>₹8</b>			10080 Feb 21 08:15	15° <b>™</b>	
opposition	10074 Oct 24 09:31	10° <b>8</b> 21'35		retrograde	10080 Feb 25 08:44	15°M01'37	
min. Earth dist.	10074 Oct 26 01:24	_	4.27038 AU		10080 Feb 29 09:02	15°RM	
direct	10074 Dec 25 00:33	5° <b>8</b> 22'16		min. Earth dist.	10080 Apr 23 09:59	10°M10'43	4.10000 AU
	10075 Mar 20 02:40	15° <b>8</b>		opposition	10080 Apr 25 00:55	9°M57'33	0°37'43
evening set	10075 Apr 29 14:42	23° <b>8</b> 45'56		direct	10080 Jun 22 21:22	4°M59'14	
max. Earth dist.	10075 May 10 05:14	26° <b>8</b> 12'31	6.18451 AU		10080 Sep 16 11:55	15°M	
. ,.	10075 14 12 00 50	200 42100	002.4152	evening set	10080 Oct 27 11:49	23°M50'49	
conjunction	10075 May 12 09:58	26° <b>8</b> 43'00			1000037 10 01 11	2 60 <b>W</b> 5 5150	002445
minimum elong	10075 May 12 09:57	26° <b>8</b> 42'59	0°35'13	conjunction	10080 Nov 10 01:44	26°M55'59	0°34'47
morning rise	10075 May 25 05:14	29° <b>8</b> 40'22		minimum elong	10080 Nov 10 01:43	26°M55'58	0°35'09
retrogrado	10075 May 26 15:24 10075 Sep 28 22:37	0° <b>Ц</b> 18° <b>Ц</b> 32'46		max. Earth dist. morning rise	10080 Nov 12 08:08 10080 Nov 23 15:56	27°M26'55 0° ₹ 00'51	6.18671 AU
retrograde	-	18 <b>Д</b> 3246 13° <b>Д</b> 37'59	1901/22	morning rise		0° <b>x</b> <sup>7</sup>	
opposition min. Earth dist.	10075 Nov 28 05:42 10075 Nov 29 12:41		-1°01′32 4.09754 AU	retrograde	10080 Nov 23 14:24 10081 Mar 29 06:15	0°×' 18°×725'55	
direct	10076 Jan 27 13:52	8° <b>Ⅱ</b> 40'42	4.09734 AU	min. Earth dist.	10081 May 27 03:33	13° <b>×</b> 23'33'37	4.27218 AU
evening set	10076 Jun 01 17:03	27° <b>∏</b> 57'42		opposition	10081 May 27 03:33 10081 May 28 09:07	13° <b>×</b> 33'37'	1°00'37
evening set	10076 Jun 10 05:58	0°95		direct	10081 Way 28 09:07	8°×23'34	1 0037
max. Earth dist.	10076 Jun 13 09:05	0°545'00	6.01926 AU	evening set	10081 Jul 27 12:47 10081 Nov 30 14:22	26° × 23' 34' 33	
max. Darui Uist.	10070 Jun 13 09.03	U <b>3</b> 7300	0.01720 AU	ovening set	10001 1107 50 14.22	20 7 27 33	
conjunction	10076 Jun 14 15:52	1°503'27	-0°44'01	conjunction	10081 Dec 14 00:28	29° <b>∡</b> ¹21'04	0°44'10
minimum elong	10076 Jun 14 15:52	1°503'27		minimum elong	10081 Dec 14 00:28	29° <b>x</b> 21'04 29° <b>x</b> 21'04	0°44'35
morning rise	10076 Jun 27 15:40	4°500327	0 7721	max. Earth dist.	10081 Dec 14 00:28 10081 Dec 15 10:37	29° <b>x</b> *21'04 29° <b>x</b> *39'49	6.35162 AU
retrograde	10076 Nov 04 18:14	24°9516'46		max. Darm dist.	10081 Dec 15 10:37 10081 Dec 16 23:23	0°る	5.55102 AU
opposition	10070 Nov 04 18.14 10077 Jan 03 11:46	19°9519'32	-1°04'21	morning rise	10081 Dec 10 23:23 10081 Dec 27 09:17	0 0 2° <b>る</b> 16'44	
min. Earth dist.	10077 Jan 03 11:40	19°5516'10	3.95550 AU	retrograde	10081 Bec 27 03:17 10082 Apr 29 01:14	19°る38'06	
direct	10077 Mar 03 10:23	14°524'17	3.73330 AU	opposition	10082 Apr 29 01:14 10082 Jun 28 14:50	19 <b>3</b> 3800	1°03'52
ancet	10077 Jun 19 18:33	14 <b>3</b> 24 17 0° <b>Ω</b>		min. Earth dist.	10082 Jun 28 01:22	14 <b>3</b> 3911 14° <b>る</b> 43'36	4.41747 AU
evening set	10077 Jul 19 18:33	4° <b>Ω</b> 23'32		direct	10082 Juli 28 01:22 10082 Aug 29 00:08	9° <b>る</b> 38'05	, 7, AU
2. J.	2007, 341 00 03.17	. 002332		evening set	10082 Aug 25 00:08 10083 Jan 01 14:34	27°る02'22	
conjunction	10077 Jul 21 08:14	7° <b>Ω</b> 37'05	-0°36'56	3.0	10000 Juli 01 14.JT	_,,	
2011/11/11/11	-00,, yar 21 00.1T	, 005703	3 30 30				

:	10002 I 14 10-20	29° <b>る</b> 52'17	0°40'25	minimum elong	10000 I 10 10.20	50650143	0944127
conjunction	10083 Jan 14 19:30			U	10088 Jun 19 10:29	5°958'42	0 44 27
minimum elong	10083 Jan 14 19:31	29°る52'18	0°40'49	morning rise	10088 Jul 02 11:13	9°506'22	
max. Earth dist.	10083 Jan 14 23:13	29° <b>る</b> 54'17	6.46711 AU	retrograde	10088 Nov 09 20:40	29° <b>©</b> 20'07	
	10083 Jan 15 09:52	0° <b>≈</b>		opposition	10089 Jan 08 13:58	24° <b>©</b> 22'27	
morning rise	10083 Jan 27 22:44	2° <b>≈</b> 41'13		min. Earth dist.	10089 Jan 08 20:46	24° <b>©</b> 20'11	3.94457 AU
	10083 Apr 03 06:24	15° <b>≈</b>		direct	10089 Mar 08 08:45	19° <b>©</b> 27'19	
retrograde	10083 May 28 19:49	19° <b>≈</b> 24'20			10089 Jun 02 01:33	$0^{\circ}\Omega$	
	10083 Jul 24 14:45	15° <b>R</b> ≈		evening set	10089 Jul 13 02:45	9° <b>Ω</b> 29'32	
opposition	10083 Jul 28 16:21	14° <b>≈</b> 28'33	0°49'53				
min. Earth dist.	10083 Jul 28 23:26	14° <b>≈</b> 26′16	4.49693 AU	conjunction	10089 Jul 26 08:46	12° <b>Ω</b> 43'51	-0°34'41
direct	10083 Sep 29 00:24	9° <b>≈</b> 27'08		minimum elong	10089 Jul 26 08:47	12° <b>Ω</b> 43'51	0°35'03
	10083 Dec 02 12:02	15° <b>≈</b>		max. Earth dist.	10089 Jul 26 17:16	12° <b>Ω</b> 49'03	5.90845 AU
evening set	10084 Feb 01 04:57	26°≈35'04		max. Earth dist.	10089 Aug 04 15:17	15° <b>Ω</b>	3.70043710
•			C 50525 ATT		=		
max. Earth dist.	10084 Feb 13 05:40	29° <b>≈</b> 09'04	6.50525 AU	morning rise	10089 Aug 08 16:55	15° <b>Ω</b> 59'28	
					10089 Oct 11 10:23	0° <b>m</b>	
conjunction	10084 Feb 14 05:24	29° <b>≈</b> 21'46	0°26'01	retrograde	10089 Dec 18 20:50	6° <b>™</b> 53'11	
minimum elong	10084 Feb 14 05:25	29° <b>≈</b> 21'47	0°26'16	min. Earth dist.	10090 Feb 15 11:27	1° <b>™</b> 58'06	3.90024 AU
	10084 Feb 17 04:52	0° <b>∀</b>		opposition	10090 Feb 16 05:06	1° <b>m</b> 52′09	-0°36'23
morning rise	10084 Feb 27 03:42	2° <b>)</b> €07'30			10090 Mar 02 10:12	$30^{\circ}$ R $\Omega$	
retrograde	10084 Jun 26 12:49	18° <b>)</b> 42′04		direct	10090 Apr 15 05:04	26° <b>Ω</b> 57'20	
opposition	10084 Aug 26 14:15	13° <b>)</b> 48′20	0°23'25		10090 May 28 06:23	0° <b>m</b> )	
min. Earth dist.	10084 Aug 27 14:26	13° <b>¥</b> 40′35	4.49241 AU	evening set	10090 Aug 20 05:18	17° <b>m</b> ) 05'59	
direct	10084 Oct 28 05:58	8° <b>)</b> 47'06	4.4)241 AU	evening set	10070 Aug 20 03.16	17 1100337	
					10000 C 02 17 50	200 m- 22152	0011100
evening set	10085 Mar 02 08:05	26° <b>)</b> €01'08		conjunction	10090 Sep 02 17:50	20° m 22'52	
max. Earth dist.	10085 Mar 13 08:23	28° <b>∺</b> 23'59	6.45784 AU	minimum elong	10090 Sep 02 17:51	20° m 22'53	0°11'15
				behind sun begin	10090 Sep 02 11:43	20° <b>m</b> 19'10	
conjunction	10085 Mar 15 04:59	28° <b>)</b> 48′12	0°04'54	behind sun end	10090 Sep 02 23:58	20° Mp 26'35	
minimum elong	10085 Mar 15 04:59	28° <b>)</b> 48′11	0°04'57	max. Earth dist.	10090 Sep 04 13:24	20° Mp 49'20	5.92044 AU
behind sun begin	10085 Mar 14 21:13	28° <b>) (</b> 44′00		morning rise	10090 Sep 16 08:36	23° Mp 40'49	
behind sun end	10085 Mar 15 12:44	28° <b>¥</b> 52'23			10090 Oct 13 07:27	0∘ <b>ত</b>	
	10085 Mar 20 17:17	$0^{\circ}\Upsilon$		retrograde	10091 Jan 25 17:26	14° <b>≙</b> 17'05	
morning rise	10085 Mar 27 23:55	1° <b>Υ</b> '34'30		asc. node	10091 Feb 09 13:08	13° <b>Ω</b> 54'54	
desc. node	10085 Jun 06 19:05	14° <b>Y</b> '49'09		min. Earth dist.	10091 Mar 24 14:34	9° <b>£</b> 25'31	3.96768 AU
		14 γ 49 09 18° <b>Υ</b> 31'07					
retrograde	10085 Jul 27 09:30			opposition	10091 Mar 26 02:09	9° <b>Ω</b> 13'25	0°04'46
opposition	10085 Sep 26 09:32	13° <b>Y</b> ′38′10		direct	10091 May 23 03:26	4° <b>≙</b> 17'03	
min. Earth dist.	10085 Sep 27 22:44	13° <b>Y</b> ′26′17	4.40450 AU	evening set	10091 Sep 27 03:22	23° <b>≏</b> 54'55	
direct	10085 Nov 27 19:45	8° <b>Y</b> 37'40					
evening set	10086 Apr 01 23:50	26° <b>Y</b> 19'55		conjunction	10091 Oct 10 18:37	27° <b>≏</b> 07'35	0°16'29
max. Earth dist.	10086 Apr 12 10:18	28° <b>Y</b> 39'18	6.33482 AU	minimum elong	10091 Oct 10 18:36	27° <b>♀</b> 07'34	0°16'39
				max. Earth dist.	10091 Oct 13 05:48	27° <b>≏</b> 42'27	6.03552 AU
conjunction	10086 Apr 14 18:40	29° <b>Y</b> 10'48	-0°18'12		10091 Oct 23 00:04	o°M₊	
minimum elong	10086 Apr 14 18:39	29° <b>Υ</b> 10'48	0°18'24	morning rise	10091 Oct 24 11:20	0°M20'36	
minimum ciong	10086 Apr 18 10:43	0°8	0 1024	morning rise	10092 Jan 03 22:12	15°M	
morning rise	•	2° <b>8</b> 01'27		ratra ara da		19°M53'34	
morning rise	10086 Apr 27 12:33			retrograde	10092 Mar 01 00:46		4 11 COO ATT
	10086 Jul 02 08:25	15° <b>8</b>		min. Earth dist.	10092 Apr 28 03:59	15°M02'30	4.11689 AU
retrograde	10086 Aug 29 06:58	19° <b>8</b> 49'23			10092 Apr 28 11:21	15°RM	
	10086 Oct 28 12:06	15° <b>₹8</b>		opposition	10092 Apr 29 18:04	14°M49'36	0°41'53
opposition	10086 Oct 29 00:49	14° <b>8</b> 55'54	-0°41'58	direct	10092 Jun 27 18:10	9° <b>™</b> 50'58	
min. Earth dist.	10086 Oct 30 16:06	14° <b>8</b> 43'15	4.25333 AU		10092 Aug 25 15:34	15°M	
direct	10086 Dec 29 13:12	9° <b>8</b> 56'49		evening set	10092 Nov 01 07:58	28° <b>™</b> 37'30	
	10087 Feb 26 20:55	15° <b>8</b>			10092 Nov 07 10:05	0° <b>∡</b> ¹	
evening set	10087 May 04 03:01	28° <b>8</b> 25'25					
	10087 May 10 22:56	0°II		conjunction	10092 Nov 14 21:47	1° <b>х</b> 41'46	0°36'49
max. Earth dist.	10087 May 14 20:30	0° <b>П</b> 54'14	6.16687 AU	minimum elong	10092 Nov 14 21:46	1° <b>х</b> 41'46	0°37'11
max. Earm dist.	10067 May 14 20.50	0 1134 14	0.10087 AU	_			
	1000534 16 22 25	10 <b>T</b> 22110	000 (151	max. Earth dist.	10092 Nov 17 03:52	2°×12'25	6.20482 AU
conjunction	10087 May 16 22:35	1° <b>Ⅱ</b> 23'18		morning rise	10092 Nov 28 11:19	4° <b>∡</b> ¹45'36	
minimum elong	10087 May 16 22:34	1° <b>Ⅲ</b> 23'18	0°37'13	retrograde	10093 Apr 02 16:30	23° <b>₹</b> 02'41	
morning rise	10087 May 29 18:00	4° <b>Ⅱ</b> 21'31		opposition	10093 Jun 01 20:17	18° <b>∡</b> 00'53	1°02'08
retrograde	10087 Oct 03 21:07	23° <b>Ⅲ</b> 22′04		min. Earth dist.	10093 May 31 15:47	18° <b>≯</b> 10′23	4.28989 AU
opposition	10087 Dec 03 03:03	18° <b>Ⅲ</b> 27′05	-1°03'13	direct	10093 Aug 01 03:43	13° <b>∡</b> ¹00'33	
min. Earth dist.	10087 Dec 04 08:28	18° <b>Ⅱ</b> 17'30	4.08073 AU		10093 Nov 30 20:02	5°0	
direct	10088 Feb 01 07:19	13° <b>Ⅲ</b> 30′07		evening set	10093 Dec 05 04:50	0° <b>る</b> 56'49	
	10088 May 25 07:38	0°50		<i>5</i>			
evening set	10088 Jun 06 11:12	2° <b>9</b> 52'03		conjunction	10093 Dec 18 14:09	3° <b>る</b> 52'24	0°44'19
•	10088 Jun 18 05:34		6.00465 AU	·	10093 Dec 18 14:09 10093 Dec 18 14:09	3°る52'24	0°44'45
max. Earth dist.	10000 Juli 18 U3:34	5° <b>©</b> 41'19	0.00403 AU	minimum elong			
	10000 * 10 10 1	#0 <b>~</b>	0044101	max. Earth dist.	10093 Dec 19 19:55	4°る08'41	6.36758 AU
conjunction	10088 Jun 19 10:28	5° <b>©</b> 58'42	-0~44′01	morning rise	10093 Dec 31 22:24	6° <b>る</b> 47'08	

retrograde	10094 May 03 07:27	24° <b>る</b> 02'25		direct	10100 Feb 06 04:03	18° <b>Ⅲ</b> 29'19	
opposition	10094 Jul 02 21:41	19° <b>පි</b> 03'51	1°02'45		10100 May 08 17:09	$0$ $\circ$ $\odot$	
min. Earth dist.	10094 Jul 02 11:01	19° <b>る</b> 07'21	4.43060 AU	evening set	10100 Jun 12 10:23	7° <b>9</b> 58'26	
direct	10094 Sep 02 11:11	14° <b>る</b> 02'34		max. Earth dist.	10100 Jun 24 11:07	10°952'12	5.98505 AU
	10094 Dec 30 09:49	0° <b>≈</b> ≈					
evening set	10095 Jan 05 23:42	1° <b>≈</b> 23'39		conjunction	10100 Jun 25 10:35	11° <b>©</b> 06'22	-0°43'43
Č				minimum elong	10100 Jun 25 10:36	11° <b>©</b> 06'22	0°44'09
conjunction	10095 Jan 19 04:09	4°≈12'59	0°38'53	morning rise	10100 Jul 08 12:08	14° <b>©</b> 15'21	
minimum elong	10095 Jan 19 04:10	4°≈12'59	0°39'16		10100 Sep 21 21:04	0°N	
max. Earth dist.	10095 Jan 19 05:49	4°≈13'52	6.47644 AU	retrograde	10100 Nov 16 07:56	4° <b>Ω</b> 37'58	
morning rise	10095 Feb 01 06:30	7°≈01'15	0.47044710	retrograde	10100 Nov 10 07:30	30°Rூ	
morning risc	10095 Mar 12 18:34	7 <b>≈</b> 01 13		opposition	10101 Jan 14 22:27	29° <b>©</b> 39'54	1000'23
ratragrada	10095 Jun 01 22:30	23° <b>≈</b> 41'15		min. Earth dist.	10101 Jan 14 22:27		3.93045 AU
retrograde			0946142				3.93043 AU
opposition	10095 Aug 01 21:18	18° <b>≈</b> 45'42	0°46'42	direct	10101 Mar 14 13:47	24°9544'56	
min. Earth dist.	10095 Aug 02 05:42	18° <b>≈</b> 43'00	4.50171 AU	. ,	10101 May 11 11:57	0°N	
	10095 Sep 04 01:49	15°R≈		evening set	10101 Jul 19 09:16	14° <b>Ω</b> 51'09	
direct	10095 Oct 03 06:38	13° <b>≈</b> 44'15			10101 Jul 19 23:47	15° <b>Ω</b>	
	10095 Nov 01 18:37	15° <b>≈</b>				_	
	10096 Feb 01 10:09	0° <b>∀</b>		conjunction	10101 Aug 01 16:16	18° <b>Ω</b> 06′19	
evening set	10096 Feb 05 10:57	0° <b>∺</b> 51'12		minimum elong	10101 Aug 01 16:18	18° <b>Ω</b> 06′20	0°32'21
max. Earth dist.	10096 Feb 17 07:41	3° <b>)</b> €23'11	6.50486 AU	max. Earth dist.	10101 Aug 02 05:30	18° <b>Ω</b> 14'26	5.90125 AU
				morning rise	10101 Aug 15 01:38	21° <b>Ω</b> 22'49	
conjunction	10096 Feb 18 10:43	3° <b>∺</b> 37'39	0°23'18		10101 Sep 20 23:55	0° <b>m</b> )	
minimum elong	10096 Feb 18 10:44	3° <b>¥</b> 37'40	0°23'32	retrograde	10101 Dec 25 06:56	12° <b>m</b> 18'32	
morning rise	10096 Mar 02 08:29	6° <b>)</b> €23'11					
retrograde	10096 Jun 30 19:09	22° <b>升</b> 58′26					
opposition	10096 Aug 30 20:28	18° <b>¥</b> 04'48	0°18'57				
min. Earth dist.	10096 Aug 31 23:35	17° <b>¥</b> 56′09	4.48645 AU				
direct	10096 Nov 01 13:57	13° <b>¥</b> 03'35					
	10097 Mar 05 01:37	$0^{\circ}$ Y					
evening set	10097 Mar 06 13:53	0° <b>Ƴ</b> 19'32					
max. Earth dist.	10097 Mar 17 10:27		6.44640 AU				
conjunction	10097 Mar 19 10:20	3° <b>Y</b> 06'50	0°01'37				
minimum elong	10097 Mar 19 10:20	3° <b>Υ</b> 06'50	0°01'37				
behind sun begin	10097 Mar 19 10:20 10097 Mar 19 02:21	3° <b>Υ</b> '02'30	0 0137				
behind sun end	10097 Mar 19 18:19	3° <b>Υ</b> 11'09					
morning rise	10097 Mai 19 18:19 10097 Apr 01 05:02	5° <b>Υ</b> 53'27					
Č	-	8° <b>Υ</b> '57'37					
desc. node	10097 Apr 15 13:33 10097 Jul 31 19:21	8 1 3 / 3 / 22° <b>Υ</b> 54'54					
retrograde			0014120				
opposition	10097 Sep 30 19:48	18° <b>℃</b> 01'52					
min. Earth dist.	10097 Oct 02 09:26		4.38806 AU				
direct	10097 Dec 02 03:38	13° <b>Y</b> ′01′27					
	10098 Apr 02 16:57	0° <b>8</b>					
evening set	10098 Apr 06 08:46	0° <b>8</b> 48'40					
max. Earth dist.	10098 Apr 16 20:05	3° <b>8</b> 09'08	6.31450 AU				
	10000 1 17 77	201.2	0001:: :				
conjunction	10098 Apr 19 03:38	3° <b>8</b> 40'19					
minimum elong	10098 Apr 19 03:37	3° <b>8</b> 40'18	0°21'27				
morning rise	10098 May 01 21:22	6° <b>8</b> 31'45					
	10098 Jun 10 18:58	15° <b>8</b>					
retrograde	10098 Sep 03 01:50	24° <b>8</b> 28'18					
opposition	10098 Nov 02 18:15	19° <b>8</b> 34'42					
min. Earth dist.	10098 Nov 04 09:37	19° <b>8</b> 22'02	4.23031 AU				
	10098 Dec 18 02:15	15° <b>₹</b> 8					
direct	10099 Jan 03 03:19	14° <b>8</b> 35'52					
	10099 Jan 19 03:28	15° <b>∀</b>					
	10099 Apr 24 18:31	$\Pi$ $^{\circ}$ 0					
evening set	10099 May 08 18:12	3° <b>Ⅱ</b> 11'32					
max. Earth dist.	10099 May 19 12:11		6.14292 AU				
	•						
conjunction	10099 May 21 13:57	6° <b>Ⅱ</b> 10'32	-0°38'40				
minimum elong	10099 May 21 13:56	6° <b>Ⅱ</b> 10'32					
morning rise	10099 Jun 03 10:03	9° <b>Ⅱ</b> 10′02	<del></del>				
retrograde	10099 Oct 09 00:28	28° <b>Ⅲ</b> 21′23					
opposition	10099 Dec 08 04:56	23° <b>II</b> 26'03	-1°04'37				
opposition	10099 Dec 08 04.30		-1 04 3 /				

min. Earth dist.

10099 Dec 09 07:23 23°**Ц**17'24 4.05780 AU