superior conj	3600 Apr 24 13:59	5° 8 23'17	-0°57'20		3601 Mar 28 23:07	0°❤	
minimum elong	3600 Apr 24 17:01	5° 8 38'43		max. Earth dist.	3601 Apr 01 08:45	6° Ƴ 07'48	1.37213 AU
asc. node	3600 Apr 30 09:12	17° 8 20'52			ī		
evening rise	3600 May 02 09:32	21° 8 30'24		superior conj	3601 Apr 07 23:30	18° Ƴ 38'48	-1°24'55
	3600 May 06 15:08	Π $^{\circ}0$		minimum elong	3601 Apr 08 03:48	18° Ƴ 59'47	1°24'18
evening max el	3600 May 20 17:58	21° Ⅱ 21'24	20°26'14		3601 Apr 13 16:54	9° 8	
retrograde	3600 May 31 17:03	26° Ⅱ 42'15		evening rise	3601 Apr 16 11:41	5° 8 34'36	
evening set	3600 Jun 02 17:15	26° Ⅲ 32′13		asc. node	3601 Apr 17 06:14	7° 8 06'59	
desc. node	3600 Jun 06 15:44	25° Ⅱ 20'25			3601 Apr 30 16:03	Π °0	
inferior conj	3600 Jun 11 21:45	22° ∏ 34′18	-1°32'49	evening max el	3601 May 03 09:26	3° Ⅱ 00'57	19°21'32
minimum elong	3600 Jun 11 17:23	22° Ⅱ 40'40	1°31'13	retrograde	3601 May 12 15:14	7° Ⅱ 30′21	
min. Earth dist.	3600 Jun 13 06:29	21° Ⅱ 46'41	0.55007 AU	evening set	3601 May 14 15:31	7° Ⅱ 18'32	
morning rise	3600 Jun 20 16:30	18° Ⅱ 22'57		inferior conj	3601 May 23 03:41	3° Ⅱ 11'11	0°24'06
direct	3600 Jun 24 12:18	17° Ⅱ 51'23		minimum elong	3601 May 23 04:41	3° Ⅱ 09'31	0°23'43
morning max el	3600 Jul 07 22:28	24° Ⅱ 22'10	23°28'12	desc. node	3601 May 24 12:46	2° Ⅱ 16'43	
	3600 Jul 13 02:09	0 \circ		min. Earth dist.	3601 May 25 21:02	1° Ⅱ 24'28	0.56027 AU
asc. node	3600 Jul 27 08:25	23° © 11'29			3601 May 28 05:31	30° ₹ 8	
	3600 Jul 30 16:44	0 \circ Ω		morning rise	3601 May 31 14:55	28° 8 26'27	
morning set	3600 Jul 31 12:23	1° Ω 43'01		direct	3601 Jun 05 09:02	27° 8 34'47	
		_			3601 Jun 13 09:26	$0^{\circ}\Pi$	
superior conj	3600 Aug 07 13:05	16° Ω 49'19	1°33'54	morning max el	3601 Jun 19 12:30	4° ∏ 45'48	25°09'30
minimum elong	3600 Aug 07 11:08	16° Ω 38'51	1°33'43		3601 Jul 07 14:06	0ං ම	
max. Earth dist.	3600 Aug 10 00:02	22° Ω 03′53	1.33498 AU	asc. node	3601 Jul 14 05:28	12° © 53'58	
	3600 Aug 13 19:48	0° m/y		morning set	3601 Jul 16 00:06	16°936'51	
evening rise	3600 Aug 15 02:39	2° m/35'21			3601 Jul 22 04:16	0 $^{\circ}$ Ω	
1 1	3600 Aug 30 12:04	0° 亞			2601 1 1 22 22 57	10 0 4011 6	1020110
desc. node	3600 Sep 02 15:03	4° Ω 45'19	27921151	superior conj	3601 Jul 22 22:57	1° Ω 42'16	1°20'18
evening max el	3600 Sep 18 03:57	23° £ 58'16 0° IL	2/*21/51	minimum elong	3601 Jul 22 20:37	1°Ω29'30 4°Ω30'54	1°19'58
	3600 Sep 26 10:40			max. Earth dist.	3601 Jul 24 05:51		1.32616 AU
retrograde	3600 Oct 01 16:38	1° ጤ 16'35 30°R 		evening rise	3601 Jul 30 02:18	16° Ω 57'04 0° m	
avaning got	3600 Oct 06 14:08 3600 Oct 08 18:20	30 K== 28° £ 35'47		desc. node	3601 Aug 05 18:13 3601 Aug 20 12:04	23° Mp 52'15	
evening set min. Earth dist.	3600 Oct 08 18:20 3600 Oct 12 12:08	25° £ 10'53	0.64296 AU	desc. Hode	3601 Aug 25 05:22	0° ⊡	
inferior conj	3600 Oct 12 12:39	23° ⊆ 10'33		evening max el	3601 Aug 31 13:16	6° £ 52'02	27°23'10
minimum elong	3600 Oct 14 21.39 3600 Oct 15 02:12	22° £ 26'27		retrograde	3601 Sep 14 08:01	0 = 32 02 14° £ 07'42	27 23 10
morning rise	3600 Oct 13 02:12 3600 Oct 21 11:16	22 ⊆ 2027 17° ⊆ 13'41	2 42 10	evening set	3601 Sep 21 12:37	14 ⊆ 07 42 11° ⊆ 38'41	
asc. node	3600 Oct 21 11:10 3600 Oct 23 07:37	16° ≏ 43'08		min. Earth dist.	3601 Sep 25 03:12	8° £ 42'48	0.62540 AU
direct	3600 Oct 24 00:29	16° ⊆ 40'36		inferior conj	3601 Sep 28 00:18	5° £ 59'11	
morning max el	3600 Oct 30 12:42		17°55'34	minimum elong	3601 Sep 28 06:00	5° £ 45'38	
	3600 Nov 06 22:55	0°M	.,	morning rise	3601 Oct 05 01:00	0° £ 52'26	
morning set	3600 Nov 16 15:36	16°M08'23		direct	3601 Oct 07 10:31	0° £ 26'31	
S	3600 Nov 24 21:45	0° ∡ ¹		asc. node	3601 Oct 10 04:40	1° ≏ 01'48	
				morning max el	3601 Oct 14 04:51	3° ჲ 53'53	17°51'01
superior conj	3600 Nov 29 19:51	8° ∡ °02'31	-0°01'36	morning set	3601 Oct 30 06:03	28° ≙ 53'17	
minimum elong	3600 Nov 29 19:41	8° ∡ 01'47	0°01'34	•	3601 Oct 30 21:02	0° M ₊	
behind sun begin	3600 Nov 29 09:32	7° ∡ °20'43					
behind sun end	3600 Nov 30 05:50	8° ∡ ¹42'47		superior conj	3601 Nov 10 12:44	18°MJ35'18	0°40'32
desc. node	3600 Nov 29 14:18	7° ∡ ¹40'03		minimum elong	3601 Nov 10 16:19	18°M50'26	0°40'02
max. Earth dist.	3600 Dec 04 20:59	16° х 07′06	1.44654 AU	desc. node	3601 Nov 16 11:21	28° ML 27° 27	
	3600 Dec 13 18:02	ರ°0			3601 Nov 17 10:07	0° ∡ 7	
evening rise	3600 Dec 15 22:49	3° る 23'30		max. Earth dist.	3601 Nov 17 12:19	0° ∡ ¹08'56	1.43428 AU
	3601 Jan 02 17:00	0° ≈		evening rise	3601 Nov 25 09:07	12° ∡ ³37′13	
evening max el	3601 Jan 12 03:52	11° ≈ 59'59	20°16'20		3601 Dec 06 20:37	0°ಕ	
asc. node	3601 Jan 19 06:54	16° ≈ 33'55		evening max el	3601 Dec 26 02:03	25° る 32'58	21°25'42
retrograde	3601 Jan 20 00:36	16° ≈ 36′54			3601 Dec 31 18:27	0° ≈	
evening set	3601 Jan 23 19:41	15°≈13'16		retrograde	3602 Jan 03 22:13	0° ≈ 47'55	
inferior conj	3601 Jan 29 05:08	9° ≈ 07'53	2°52'43	asc. node	3602 Jan 06 03:56	0°≈20'35	
minimum elong	3601 Jan 29 02:40	9° ≈ 16'14	2°52'07		3602 Jan 06 21:00	30°Rる	
min. Earth dist.	3601 Jan 29 23:21	8°≈06'08	0.67264 AU	evening set	3602 Jan 08 03:21	29°る09'01	
morning rise	3601 Feb 03 09:26	2°≈54'02		inferior conj	3602 Jan 13 11:41	22° ろ 53'28	2°17'00
direct	3601 Feb 09 03:09	0°≈20'26		minimum elong	3602 Jan 13 09:15	23° る 01'55	2°16'13
morning max el	3601 Feb 20 16:01	7°≈14'12	24°44'43	min. Earth dist.	3602 Jan 13 17:37	22°る32'59	0.67809 AU
desc. node	3601 Feb 25 13:33	12° ≈ 40′25		morning rise	3602 Jan 18 14:57	16°る41'02	
	3601 Mar 10 10:04	0°) (direct	3602 Jan 23 18:01	14°る27'27	2201702
morning set	3601 Mar 28 17:33	29°) ₹35′23		morning max el	3602 Feb 03 00:56	20° る 34'21	25-16-02

morning max el	3603 Dec 30 09:20	17° ∡ ¹40'58	20°31'39	asc. node	3604 Nov 26 19:03	3° ∡ 56′04	
	3604 Jan 09 06:49	0° る			3604 Nov 30 04:47	30°RM	
desc. node	3604 Jan 17 04:38	11° る 27'55		morning rise	3604 Dec 01 21:53	28°M36'36	
morning set	3604 Jan 28 01:09	27° る 58'29		direct	3604 Dec 05 08:18	27°M28'36	
	3604 Jan 29 08:25	0° ≈			3604 Dec 10 21:29	0° ∡ ¹	
max. Earth dist.	3604 Feb 06 08:57	12° ≈ 42'47	1.43326 AU	morning max el	3604 Dec 12 12:58	1° ∡ ³31′02	19°27'19
				greatest brilliancy	3604 Dec 25 18:59	19° ∡ 11'33	-0.7m
superior conj	3604 Feb 12 18:39	23° ≈ 12'37	-2°06'07		3605 Jan 01 21:20	0°る	
minimum elong	3604 Feb 12 16:40	23° ≈ 04'21	2°06'03	desc. node	3605 Jan 03 01:41	1° る 49'06	
	3604 Feb 16 19:22	0° ∀		morning set	3605 Jan 05 23:10	6° る 17'25	
evening rise	3604 Feb 25 01:39	14° ∺ 20′02		max. Earth dist.	3605 Jan 18 22:04	26° る 31'33	1.44606 AU
	3604 Mar 05 03:24	$0^{\circ}\mathbf{\Upsilon}$			3605 Jan 21 02:38	0° ≈	
asc. node	3604 Mar 07 21:21	4° Ƴ 19'26					
evening max el	3604 Mar 13 07:41	11° Y 14'36	18°07'28	superior conj	3605 Jan 22 16:46	2° ≈ 32'05	-1°50'16
retrograde	3604 Mar 19 19:38	14° Ƴ 37'28		minimum elong	3605 Jan 22 09:05	2° ≈ 01'22	1°49'43
evening set	3604 Mar 22 14:12	13° Ƴ 59'45		evening rise	3605 Feb 05 19:23	25° ≈ 37'37	
inferior conj	3604 Mar 28 22:32	8° Ƴ 52'38	3°29'12		3605 Feb 08 10:05	0° ∀	
minimum elong	3604 Mar 29 00:10	8° Ƴ 48'25	3°29'02	asc. node	3605 Feb 22 18:22	22°) 15′56	
min. Earth dist.	3604 Mar 31 21:21	5° Y 52'14	0.62051 AU	evening max el	3605 Feb 24 20:16	24°) €35'43	18°21'27
morning rise	3604 Apr 04 08:39	2° Y 52'35		retrograde	3605 Mar 03 07:29	28°) €05'39	
direct	3604 Apr 11 05:16	0° Y 23′59		evening set	3605 Mar 06 07:46	27°) (16′21	
desc. node	3604 Apr 14 03:50	0° Υ 48'58		inferior conj	3605 Mar 12 05:55	21°) 50′29	3°38'06
morning max el	3604 Apr 25 08:08	8° Ƴ 21'59	27°51'30	minimum elong	3605 Mar 12 05:48	21°) 50'49	3°38'05
	3604 May 11 22:54	0°8		min. Earth dist.	3605 Mar 14 14:09	19° ∺ 10′08	0.63999 AU
morning set	3604 May 28 20:42	0° Ⅱ 24'37		morning rise	3605 Mar 18 03:02	15°) 42′03	
	3604 May 28 15:51	$\Pi^{\circ}0$		direct	3605 Mar 24 23:34	12° ¥ 55′07	
max. Earth dist.	3604 Jun 03 13:18	12° Ⅲ 22'54	1.32407 AU	desc. node	3605 Apr 01 00:51	15° ¥ 19′01	
asc. node	3604 Jun 03 20:39	13° Ⅱ 02'34		morning max el	3605 Apr 07 16:51	20° ¥ 51'41	27°34'15
				C	3605 Apr 15 14:33	0° Y	
superior conj	3604 Jun 05 07:59	16° Ⅱ 14'27	0°15'26		3605 May 05 00:50	0°8	
minimum elong	3604 Jun 05 07:16	16° Ⅱ 10'33	0°15'17	morning set	3605 May 12 15:48	14° 8 20'18	
behind sun begin	3604 Jun 05 05:50	16° Ⅱ 02'45		max. Earth dist.	3605 May 17 15:19		1.33175 AU
behind sun end	3604 Jun 05 08:42	16° Ⅱ 18'21			3605 May 20 06:06	0° I I	
	3604 Jun 11 15:48	0ಂತಾ			•		
evening rise	3604 Jun 12 05:38	1° © 13'45		superior conj	3605 May 20 14:11	0° Ⅱ 43'09	-0°11'59
C	3604 Jun 27 23:46	$0^{\circ}\Omega$		minimum elong	3605 May 20 14:47	0° Ⅱ 46′21	0°11'50
evening max el	3604 Jul 07 04:49	11° Ω 13′03	24°19'51	behind sun begin	-	0° Ⅱ 26′55	
evening max el desc. node	3604 Jul 07 04:49 3604 Jul 11 03:09	11°Ω13'03 14°Ω32'00	24°19'51	_	3605 May 20 11:09 3605 May 20 18:26	0° П 26'55 1° П 05'49	
•	3604 Jul 11 03:09	14° £ 32′00	24°19'51	behind sun begin behind sun end	3605 May 20 11:09 3605 May 20 18:26	1° Ⅱ 05'49	
desc. node retrograde			24°19'51	behind sun begin behind sun end asc. node	3605 May 20 11:09 3605 May 20 18:26 3605 May 21 17:41		
desc. node	3604 Jul 11 03:09 3604 Jul 21 01:10	14° Ω 32'00 18° Ω 12'27		behind sun begin behind sun end	3605 May 20 11:09 3605 May 20 18:26	1°Ⅲ05'49 3°Ⅲ10'21	
desc. node retrograde evening set	3604 Jul 11 03:09 3604 Jul 21 01:10 3604 Jul 25 20:33 3604 Jul 31 15:37	14° Ω 32'00 18° Ω 12'27 17° Ω 20'52	0.56622 AU	behind sun begin behind sun end asc. node evening rise	3605 May 20 11:09 3605 May 20 18:26 3605 May 21 17:41 3605 May 27 17:14	1°Д05'49 3°Д10'21 15°Д59'38	22°43'01
desc. node retrograde evening set min. Earth dist.	3604 Jul 11 03:09 3604 Jul 21 01:10 3604 Jul 25 20:33 3604 Jul 31 15:37 3604 Aug 03 06:50	14° \Omega 32'00 18° \Omega 12'27 17° \Omega 20'52 14° \Omega 26'13	0.56622 AU -5°03'03	behind sun begin behind sun end asc. node	3605 May 20 11:09 3605 May 20 18:26 3605 May 21 17:41 3605 May 27 17:14 3605 Jun 03 17:03	1°∏05'49 3°∏10'21 15°∏59'38 0°©	22°43'01
desc. node retrograde evening set min. Earth dist. inferior conj	3604 Jul 11 03:09 3604 Jul 21 01:10 3604 Jul 25 20:33 3604 Jul 31 15:37	14° \mathcal{O} 32'00 18° \mathcal{O} 12'27 17° \mathcal{O} 20'52 14° \mathcal{O} 26'13 12° \mathcal{O} 46'45	0.56622 AU -5°03'03	behind sun begin behind sun end asc. node evening rise evening max el	3605 May 20 11:09 3605 May 20 18:26 3605 May 21 17:41 3605 May 27 17:14 3605 Jun 03 17:03 3605 Jun 18 18:29	1°∏05'49 3°∏10'21 15°∏59'38 0°© 21°©37'57	22°43'01
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong	3604 Jul 11 03:09 3604 Jul 21 01:10 3604 Jul 25 20:33 3604 Jul 31 15:37 3604 Aug 03 06:50 3604 Aug 03 03:53	14° N 32'00 18° N 12'27 17° N 20'52 14° N 26'13 12° N 46'45 12° N 51'25 8° N 45'17	0.56622 AU -5°03'03	behind sun begin behind sun end asc. node evening rise evening max el desc. node	3605 May 20 11:09 3605 May 20 18:26 3605 May 21 17:41 3605 May 27 17:14 3605 Jun 03 17:03 3605 Jun 18 18:29 3605 Jun 28 00:08	1°П05'49 3°П10'21 15°П59'38 0°© 21°©37'57 27°©36'25	22°43'01
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3604 Jul 11 03:09 3604 Jul 21 01:10 3604 Jul 25 20:33 3604 Jul 31 15:37 3604 Aug 03 06:50 3604 Aug 03 03:53 3604 Aug 11 13:50 3604 Aug 14 06:11	14° N 32'00 18° N 12'27 17° N 20'52 14° N 26'13 12° N 46'45 12° N 51'25	0.56622 AU -5°03'03 5°02'50	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde	3605 May 20 11:09 3605 May 20 18:26 3605 May 21 17:41 3605 May 27 17:14 3605 Jun 03 17:03 3605 Jun 18 18:29 3605 Jun 28 00:08 3605 Jul 02 00:02	1° \$\mathbb{\pi}\$05'49 3° \$\mathbb{\pi}\$10'21 15° \$\mathbb{\pi}\$59'38 0° \$\mathbb{\pi}\$ 21° \$\mathbb{\pi}\$37'57 27° \$\mathbb{\pi}\$36'25 28° \$\mathbb{\pi}\$13'01 27° \$\mathbb{\pi}\$49'12	22°43'01 0.55313 AU
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	3604 Jul 11 03:09 3604 Jul 21 01:10 3604 Jul 25 20:33 3604 Jul 31 15:37 3604 Aug 03 06:50 3604 Aug 03 03:53 3604 Aug 11 13:50	14° N 32'00 18° N 12'27 17° N 20'52 14° N 26'13 12° N 46'45 12° N 51'25 8° N 45'17 8° N 26'04	0.56622 AU -5°03'03 5°02'50	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set	3605 May 20 11:09 3605 May 20 18:26 3605 May 21 17:41 3605 May 27 17:14 3605 Jun 03 17:03 3605 Jun 18 18:29 3605 Jun 28 00:08 3605 Jul 02 00:02 3605 Jul 05 07:06	1° \$\mathbb{\pi}\$05'49 3° \$\mathbb{\pi}\$10'21 15° \$\mathbb{\pi}\$59'38 0° \$\mathbb{\pi}\$ 21° \$\mathbb{\pi}\$37'57 27° \$\mathbb{\pi}\$36'25 28° \$\mathbb{\pi}\$13'01 27° \$\mathbb{\pi}\$49'12	0.55313 AU
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	3604 Jul 11 03:09 3604 Jul 21 01:10 3604 Jul 25 20:33 3604 Jul 31 15:37 3604 Aug 03 06:50 3604 Aug 03 03:53 3604 Aug 11 13:50 3604 Aug 14 06:11 3604 Aug 23 20:46	14° N 32'00 18° N 12'27 17° N 20'52 14° N 26'13 12° N 46'45 12° N 51'25 8° N 45'17 8° N 26'04 12° N 54'27	0.56622 AU -5°03'03 5°02'50	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist.	3605 May 20 11:09 3605 May 20 18:26 3605 May 21 17:41 3605 May 27 17:14 3605 Jun 03 17:03 3605 Jun 18 18:29 3605 Jun 28 00:08 3605 Jul 02 00:02 3605 Jul 05 07:06 3605 Jul 13 02:38	1° M 05'49 3° M 10'21 15° M 59'38 0° © 21° © 37'57 27° © 36'25 28° © 13'01 27° © 49'12 24° © 23'02	0.55313 AU -4°15'42
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	3604 Jul 11 03:09 3604 Jul 21 01:10 3604 Jul 25 20:33 3604 Jul 31 15:37 3604 Aug 03 06:50 3604 Aug 03 03:53 3604 Aug 11 13:50 3604 Aug 14 06:11 3604 Aug 23 20:46 3604 Aug 30 19:51	14°\Omega32'00 18°\Omega12'27 17°\Omega26'13 12°\Omega46'45 12°\Omega51'25 8°\Omega45'17 8°\Omega26'04 12°\Omega54'27 21°\Omega35'39	0.56622 AU -5°03'03 5°02'50	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj	3605 May 20 11:09 3605 May 20 18:26 3605 May 21 17:41 3605 May 27 17:14 3605 Jun 03 17:03 3605 Jun 18 18:29 3605 Jun 28 00:08 3605 Jul 02 00:02 3605 Jul 05 07:06 3605 Jul 13 02:38 3605 Jul 14 10:59	1° II 05'49 3° II 10'21 15° II 59'38 0° © 21° © 37'57 27° © 36'25 28° © 13'01 27° © 49'12 24° © 23'02 23° © 36'43	0.55313 AU -4°15'42
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	3604 Jul 11 03:09 3604 Jul 21 01:10 3604 Jul 25 20:33 3604 Jul 31 15:37 3604 Aug 03 06:50 3604 Aug 03 03:53 3604 Aug 11 13:50 3604 Aug 14 06:11 3604 Aug 23 20:46 3604 Aug 30 19:51 3604 Sep 04 18:19	14° N 32'00 18° N 12'27 17° N 20'52 14° N 26'13 12° N 46'45 12° N 51'25 8° N 45'17 8° N 26'04 12° N 54'27 21° N 35'39 0° M	0.56622 AU -5°03'03 5°02'50	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong	3605 May 20 11:09 3605 May 20 18:26 3605 May 21 17:41 3605 May 27 17:14 3605 Jun 03 17:03 3605 Jun 18 18:29 3605 Jun 28 00:08 3605 Jul 02 00:02 3605 Jul 05 07:06 3605 Jul 13 02:38 3605 Jul 14 10:59 3605 Jul 14 03:07	1° II 05'49 3° II 10'21 15° II 59'38 0° 55 21° 537'57 27° 536'25 28° 513'01 27° 549'12 24° 523'02 23° 536'43 23° 548'00	0.55313 AU -4°15'42
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	3604 Jul 11 03:09 3604 Jul 21 01:10 3604 Jul 25 20:33 3604 Jul 31 15:37 3604 Aug 03 06:50 3604 Aug 03 03:53 3604 Aug 11 13:50 3604 Aug 14 06:11 3604 Aug 23 20:46 3604 Aug 30 19:51 3604 Sep 04 18:19 3604 Sep 10 09:16	14° N 32'00 18° N 12'27 17° N 20'52 14° N 26'13 12° N 46'45 12° N 51'25 8° N 45'17 8° N 26'04 12° N 54'27 21° N 35'39 0° M	0.56622 AU -5°03'03 5°02'50	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3605 May 20 11:09 3605 May 20 18:26 3605 May 21 17:41 3605 May 27 17:14 3605 Jun 03 17:03 3605 Jun 18 18:29 3605 Jun 28 00:08 3605 Jul 02 00:02 3605 Jul 05 07:06 3605 Jul 13 02:38 3605 Jul 14 10:59 3605 Jul 14 03:07 3605 Jul 23 01:20 3605 Jul 26 00:38	1°II05'49 3°II10'21 15°II59'38 0°5 21°537'57 27°536'25 28°513'01 27°549'12 24°523'02 23°536'43 23°548'00 19°545'36 19°525'10	0.55313 AU -4°15'42
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	3604 Jul 11 03:09 3604 Jul 21 01:10 3604 Jul 25 20:33 3604 Jul 31 15:37 3604 Aug 03 06:50 3604 Aug 03 03:53 3604 Aug 11 13:50 3604 Aug 14 06:11 3604 Aug 23 20:46 3604 Aug 30 19:51 3604 Sep 04 18:19 3604 Sep 10 09:16	14° N 32'00 18° N 12'27 17° N 20'52 14° N 26'13 12° N 46'45 12° N 51'25 8° N 45'17 8° N 26'04 12° N 54'27 21° N 35'39 0° M 10° M 56'05	0.56622 AU -5°03'03 5°02'50 19°36'45	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	3605 May 20 11:09 3605 May 20 18:26 3605 May 21 17:41 3605 May 27 17:14 3605 Jun 03 17:03 3605 Jun 18 18:29 3605 Jun 28 00:08 3605 Jul 02 00:02 3605 Jul 05 07:06 3605 Jul 13 02:38 3605 Jul 14 10:59 3605 Jul 14 03:07 3605 Jul 23 01:20 3605 Jul 26 00:38 3605 Aug 06 05:50	1°II05'49 3°II10'21 15°II59'38 0°5 21°537'57 27°536'25 28°513'01 27°549'12 24°523'02 23°536'43 23°548'00 19°545'36 19°525'10 24°537'50	0.55313 AU -4°15'42 4°13'58
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desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3604 Jul 11 03:09 3604 Jul 21 01:10 3604 Jul 25 20:33 3604 Jul 31 15:37 3604 Aug 03 06:50 3604 Aug 03 03:53 3604 Aug 11 13:50 3604 Aug 14 06:11 3604 Aug 23 20:46 3604 Aug 30 19:51 3604 Sep 04 18:19 3604 Sep 18 07:56 3604 Sep 18 09:12 3604 Sep 18 09:12 3604 Sep 19 21:52 3604 Sep 24 09:33 3604 Sep 28 03:43 3604 Oct 06 19:02 3604 Oct 07 02:28 3604 Nov 02 21:14 3604 Nov 14 21:45	14° \$\alpha 32'00 18° \$\alpha 12'27 17° \$\alpha 20'52 14° \$\alpha 26'13 12° \$\alpha 46'45 12° \$\alpha 51'17 8° \$\alpha 26'04 12° \$\alpha 54'27 21° \$\alpha 35'39 0° \$\mathred{m}\$ 10° \$\mathred{m} 56'05 26° \$\mathred{m} 54'10 27° \$\mathred{m} 00'21 0° \$\mathred{m}\$ 8° \$\mathred{m} 32'08 15° \$\mathred{m} 21'59 0° \$\mathred{m}\$ 0° \$\mathred{m} 29'53 0° \$\nalpha\$ 6° \$\nalpha 26'59 13° \$\nalpha 23'14	0.56622 AU -5°03'03 5°02'50 19°36'45 1°42'27 1°42'25 1.37587 AU	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	3605 May 20 11:09 3605 May 20 18:26 3605 May 21 17:41 3605 May 27 17:14 3605 Jun 03 17:03 3605 Jun 18 18:29 3605 Jun 28 00:08 3605 Jul 02 00:02 3605 Jul 05 07:06 3605 Jul 14 10:59 3605 Jul 14 03:07 3605 Jul 23 01:20 3605 Jul 26 00:38 3605 Jul 27 16:53 3605 Aug 17 16:53 3605 Aug 27 19:06 3605 Sep 02 03:11 3605 Sep 02 02:51 3605 Sep 10 20:17 3605 Sep 11 18:54	1° M05'49 3° M10'21 15° M59'38 0° 9 21° 937'57 27° 936'25 28° 913'01 27° 949'12 24° 923'02 23° 936'43 23° 948'00 19° 945'36 19° 925'10 24° 937'50 0° N 10° N11'23 25° N37'40 0° M 11° M05'34 11° M05'34 11° M03'53 20° M22'36 28° M14'50	0.55313 AU -4°15'42 4°13'58 20°54'16 1°44'23 1°44'23
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	3604 Jul 11 03:09 3604 Jul 21 01:10 3604 Jul 25 20:33 3604 Jul 31 15:37 3604 Aug 03 06:50 3604 Aug 03 03:53 3604 Aug 11 13:50 3604 Aug 14 06:11 3604 Aug 23 20:46 3604 Aug 30 19:51 3604 Sep 04 18:19 3604 Sep 10 09:16 3604 Sep 18 07:56 3604 Sep 18 09:12 3604 Sep 19 21:52 3604 Sep 24 09:33 3604 Sep 28 03:43 3604 Oct 06 19:02 3604 Oct 07 02:28 3604 Nov 02 21:14 3604 Nov 14 21:45 3604 Nov 20 17:50	14° \$\alpha 32'00 18° \$\alpha 12'27 17° \$\alpha 20'52 14° \$\alpha 26'13 12° \$\alpha 46'45 12° \$\alpha 51'25 8° \$\alpha 45'17 8° \$\alpha 26'04 12° \$\alpha 54'27 21° \$\alpha 35'39 0° \$\mathred{m}\$ 10° \$\mathred{m}\$ 56'05 26° \$\mathred{m}\$ 56'05 26° \$\mathred{m}\$ 54'10 27° \$\mathred{m}\$ 00'21 0° \$\mathred{m}\$ 8° \$\mathred{m}\$ 32'08 15° \$\mathred{m}\$ 21'59 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 26'59 13° \$\mathred{m}\$ 23'14 10° \$\mathred{m}\$ 57'00	0.56622 AU -5°03'03 5°02'50 19°36'45 1°42'27 1°42'25 1.37587 AU 25°18'43	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	3605 May 20 11:09 3605 May 20 18:26 3605 May 21 17:41 3605 May 27 17:14 3605 Jun 03 17:03 3605 Jun 18 18:29 3605 Jun 28 00:08 3605 Jul 02 00:02 3605 Jul 05 07:06 3605 Jul 14 10:59 3605 Jul 14 03:07 3605 Jul 23 01:20 3605 Jul 24 00:38 3605 Jul 25 00:38 3605 Jul 16:50 3605 Jul 17 16:53 3605 Aug 17 16:53 3605 Aug 27 19:06 3605 Sep 02 02:51 3605 Sep 02 02:51 3605 Sep 10 20:17 3605 Sep 11 18:54 3605 Sep 23 23:29	1° M05'49 3° M10'21 15° M59'38 0° © 21° ©37'57 27° ©36'25 28° ©13'01 27° ©49'12 24° ©23'02 23° ©36'43 23° ©48'00 19° ©45'36 19° ©25'10 24° ©37'50 0° R 10° R11'23 25° R37'40 0° m 11° M05'34 11° M05'34 11° M03'53 20° M22'36 28° M14'50 0° Ω 20° Ω49'24	0.55313 AU -4°15'42 4°13'58 20°54'16 1°44'23 1°44'23
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	3604 Jul 11 03:09 3604 Jul 21 01:10 3604 Jul 25 20:33 3604 Jul 31 15:37 3604 Aug 03 06:50 3604 Aug 03 03:53 3604 Aug 11 13:50 3604 Aug 14 06:11 3604 Aug 23 20:46 3604 Aug 30 19:51 3604 Sep 04 18:19 3604 Sep 10 09:16 3604 Sep 18 07:56 3604 Sep 18 09:12 3604 Sep 19 21:52 3604 Sep 24 09:33 3604 Sep 28 03:43 3604 Oct 06 19:02 3604 Oct 07 02:28 3604 Oct 07 02:28 3604 Nov 02 21:14 3604 Nov 14 21:45 3604 Nov 25 04:29 3604 Nov 26 07:29	14° \$\alpha 32'00 18° \$\alpha 12'27 17° \$\alpha 20'52 14° \$\alpha 26'13 12° \$\alpha 46'45 12° \$\alpha 51'25 8° \$\alpha 45'17 8° \$\alpha 26'04 12° \$\alpha 54'27 21° \$\alpha 35'39 0° \$\mathred{m}\$ 10° \$\mathred{m}\$ 56'05 26° \$\mathred{m}\$ 54'10 27° \$\mathred{m}\$ 00'21 0° \$\mathred{m}\$ 8° \$\mathred{m}\$ 32'08 15° \$\mathred{m}\$ 21'59 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 26'59 13° \$\mathred{m}\$ 23'14 10° \$\mathred{m}\$ 57'00 6° \$\mathred{m}\$ 01'02	0.56622 AU -5°03'03 5°02'50 19°36'45 1°42'27 1°42'25 1.37587 AU 25°18'43	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	3605 May 20 11:09 3605 May 20 18:26 3605 May 21 17:41 3605 May 27 17:14 3605 Jun 03 17:03 3605 Jun 18 18:29 3605 Jun 28 00:08 3605 Jul 02 00:02 3605 Jul 05 07:06 3605 Jul 14 10:59 3605 Jul 14 03:07 3605 Jul 23 01:20 3605 Jul 26 00:38 3605 Jul 27 10:50 3605 Aug 17 16:53 3605 Aug 17 16:53 3605 Aug 27 19:06 3605 Sep 02 02:51 3605 Sep 10 20:17 3605 Sep 10 20:17 3605 Sep 23 23:29 3605 Sep 30 01:35	1° M05'49 3° M10'21 15° M59'38 0° © 21° © 37'57 27° © 36'25 28° © 13'01 27° © 49'12 24° © 23'02 23° © 36'43 23° © 48'00 19° © 25'10 24° © 37'50 0° N 10° N11'23 25° N37'40 0° M 11° M05'34 11° M03'53 20° M22'36 28° M14'50 0° Ω 20° Ω 49'24 0° M	0.55313 AU -4°15'42 4°13'58 20°54'16 1°44'23 1°44'23 1.35716 AU
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	3604 Jul 11 03:09 3604 Jul 21 01:10 3604 Jul 25 20:33 3604 Jul 31 15:37 3604 Aug 03 06:50 3604 Aug 03 03:53 3604 Aug 11 13:50 3604 Aug 14 06:11 3604 Aug 23 20:46 3604 Aug 30 19:51 3604 Sep 04 18:19 3604 Sep 10 09:16 3604 Sep 18 07:56 3604 Sep 18 09:12 3604 Sep 18 09:12 3604 Sep 19 21:52 3604 Sep 24 09:33 3604 Sep 28 03:43 3604 Oct 06 19:02 3604 Oct 07 02:28 3604 Oct 07 02:28 3604 Nov 02 21:14 3604 Nov 14 21:45 3604 Nov 25 04:29	14° \$\alpha 32'00 18° \$\alpha 12'27 17° \$\alpha 20'52 14° \$\alpha 26'13 12° \$\alpha 46'45 12° \$\alpha 51'25 8° \$\alpha 45'17 8° \$\alpha 26'04 12° \$\alpha 54'27 21° \$\alpha 35'39 0° \$\mathred{m}\$ 10° \$\mathred{m}\$ 56'05 26° \$\mathred{m}\$ 54'10 27° \$\mathred{m}\$ 00'21 0° \$\mathred{m}\$ 8° \$\mathred{m}\$ 32'08 15° \$\mathred{m}\$ 22'159 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 22'53 0° \$\star* \frac{\sigma}{2} 23'14 10° \$\star* 57'00 6° \$\star* 01'02 4° \$\star* 33'29	0.56622 AU -5°03'03 5°02'50 19°36'45 1°42'27 1°42'25 1.37587 AU 25°18'43 0.67257 AU -0°09'55	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	3605 May 20 11:09 3605 May 20 18:26 3605 May 21 17:41 3605 May 27 17:14 3605 Jun 03 17:03 3605 Jun 18 18:29 3605 Jun 28 00:08 3605 Jul 02 00:02 3605 Jul 05 07:06 3605 Jul 14 10:59 3605 Jul 14 03:07 3605 Jul 23 01:20 3605 Jul 24 00:38 3605 Jul 25 00:38 3605 Jul 16:50 3605 Jul 17 16:53 3605 Aug 17 16:53 3605 Aug 27 19:06 3605 Sep 02 02:51 3605 Sep 02 02:51 3605 Sep 10 20:17 3605 Sep 11 18:54 3605 Sep 23 23:29	1° M05'49 3° M10'21 15° M59'38 0° © 21° © 37'57 27° © 36'25 28° © 13'01 27° © 49'12 24° © 23'02 23° © 36'43 23° © 48'00 19° © 25'10 24° © 37'50 0° N 10° N11'23 25° N37'40 0° M 11° M05'34 11° M03'53 20° M22'36 28° M14'50 0° Ω 20° Ω 49'24 0° M	0.55313 AU -4°15'42 4°13'58 20°54'16 1°44'23 1°44'23
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong transit middle	3604 Jul 11 03:09 3604 Jul 21 01:10 3604 Jul 25 20:33 3604 Jul 31 15:37 3604 Aug 03 06:50 3604 Aug 03 03:53 3604 Aug 11 13:50 3604 Aug 14 06:11 3604 Aug 23 20:46 3604 Aug 30 19:51 3604 Sep 04 18:19 3604 Sep 10 09:16 3604 Sep 18 07:56 3604 Sep 18 09:12 3604 Sep 19 21:52 3604 Sep 24 09:33 3604 Sep 24 09:33 3604 Sep 28 03:43 3604 Oct 06 19:02 3604 Oct 07 02:28 3604 Oct 07 02:28 3604 Nov 02 21:14 3604 Nov 14 21:45 3604 Nov 25 04:29 3604 Nov 26 07:29 3604 Nov 26 07:44	14° \$\alpha 32'00 18° \$\alpha 12'27 17° \$\alpha 20'52 14° \$\alpha 26'13 12° \$\alpha 46'45 12° \$\alpha 51'25 8° \$\alpha 45'17 8° \$\alpha 26'04 12° \$\alpha 54'27 21° \$\alpha 35'39 0° \$\mathred{m}\$ 10° \$\mathred{m}\$ 56'05 26° \$\mathred{m}\$ 54'10 27° \$\mathred{m}\$ 00'21 0° \$\mathred{m}\$ 8° \$\mathred{m}\$ 32'08 15° \$\mathred{m}\$ 21'59 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 29'53 0° \$\nalpha\$ 6° \$\nalpha 26'59 13° \$\nalpha 23'14 10° \$\nalpha 57'00 6° \$\nalpha 01'02 4° \$\nalpha 33'29 4° \$\nalpha 32'40	0.56622 AU -5°03'03 5°02'50 19°36'45 1°42'27 1°42'25 1.37587 AU 25°18'43 0.67257 AU -0°09'55 0°09'50	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	3605 May 20 11:09 3605 May 20 18:26 3605 May 21 17:41 3605 May 27 17:14 3605 Jun 03 17:03 3605 Jun 18 18:29 3605 Jun 28 00:08 3605 Jul 02 00:02 3605 Jul 05 07:06 3605 Jul 14 10:59 3605 Jul 14 03:07 3605 Jul 23 01:20 3605 Jul 23 01:20 3605 Jul 26 00:38 3605 Aug 10 05:50 3605 Aug 10 10:22 3605 Aug 17 16:53 3605 Aug 27 19:06 3605 Sep 02 02:51 3605 Sep 02 02:51 3605 Sep 10 20:17 3605 Sep 11 18:54 3605 Sep 23 23:29 3605 Sep 30 01:35 3605 Oct 16 09:35	1° M05'49 3° M10'21 15° M59'38 0° © 21° © 37'57 27° © 36'25 28° © 13'01 27° © 49'12 24° © 23'02 23° © 36'43 23° © 48'00 19° © 45'36 19° © 25'10 24° © 37'50 0° N 10° N11'23 25° N37'40 0° M 11° M03'53 11° M03'53 20° M22'36 28° M14'50 0° Ω 20° Ω 49'24 0° M 20° M07'49	0.55313 AU -4°15'42 4°13'58 20°54'16 1°44'23 1°44'23 1.35716 AU
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3604 Jul 11 03:09 3604 Jul 21 01:10 3604 Jul 25 20:33 3604 Jul 31 15:37 3604 Aug 03 06:50 3604 Aug 03 03:53 3604 Aug 11 13:50 3604 Aug 14 06:11 3604 Aug 23 20:46 3604 Aug 30 19:51 3604 Sep 04 18:19 3604 Sep 10 09:16 3604 Sep 18 07:56 3604 Sep 18 09:12 3604 Sep 18 09:12 3604 Sep 19 21:52 3604 Sep 24 09:33 3604 Sep 24 09:33 3604 Sep 28 03:43 3604 Oct 06 19:02 3604 Oct 07 02:28 3604 Oct 07 02:28 3604 Oct 27 23:33 3604 Nov 02 21:14 3604 Nov 14 21:45 3604 Nov 25 04:29 3604 Nov 26 07:44 3604 Nov 26 07:44	14° \$\alpha 32'00 18° \$\alpha 12'27 17° \$\alpha 20'52 14° \$\alpha 26'13 12° \$\alpha 46'45 12° \$\alpha 51'25 8° \$\alpha 45'17 8° \$\alpha 26'04 12° \$\alpha 54'27 21° \$\alpha 35'39 0° \$\mathred{m}\$ 10° \$\mathred{m}\$ 56'05 26° \$\mathred{m}\$ 54'10 27° \$\mathred{m}\$ 00'21 0° \$\mathred{m}\$ 8° \$\mathred{m}\$ 32'08 15° \$\mathred{m}\$ 22'59 0° \$\mathred{m}\$ 0° \$\mathred{m}\$ 29'53 0° \$\nalpha\$ 6° \$\nalpha 26'59 13° \$\nalpha 23'14 10° \$\nalpha 57'00 6° \$\nalpha 01'02 4° \$\nalpha 33'29 4° \$\nalpha 32'40 4° \$\nalpha 32'40	0.56622 AU -5°03'03 5°02'50 19°36'45 1°42'27 1°42'25 1.37587 AU 25°18'43 0.67257 AU -0°09'55 0°09'50	behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	3605 May 20 11:09 3605 May 20 18:26 3605 May 21 17:41 3605 May 27 17:14 3605 Jun 03 17:03 3605 Jun 18 18:29 3605 Jun 28 00:08 3605 Jul 02 00:02 3605 Jul 05 07:06 3605 Jul 14 10:59 3605 Jul 14 03:07 3605 Jul 23 01:20 3605 Jul 24 00:38 3605 Jul 25 00:38 3605 Jul 16 00:38 3605 Aug 17 16:53 3605 Aug 17 16:53 3605 Aug 27 19:06 3605 Sep 02 02:51 3605 Sep 02 02:51 3605 Sep 10 20:17 3605 Sep 11 18:54 3605 Sep 23 23:29 3605 Sep 30 01:35 3605 Oct 16 09:35 3605 Oct 29 04:40	1° M05'49 3° M10'21 15° M59'38 0° © 21° ©37'57 27° ©36'25 28° ©13'01 27° ©49'12 24° ©23'02 23° ©36'43 23° ©48'00 19° ©45'36 19° ©25'10 24° ©37'50 0° N 10° N11'23 25° N37'40 0° M 11° M05'34 11° M05'34 11° M03'53 20° M22'36 28° M14'50 0° Ω 20° Ω49'24 0° M 20° M07'49 27° M19'50	0.55313 AU -4°15'42 4°13'58 20°54'16 1°44'23 1°44'23 1.35716 AU

evening max el	3609 Aug 05 17:48	11° m) 22'57	26°27'40	retrograde	3610 Aug 01 11:04	29° Ω 33'41	
retrograde	3609 Aug 19 17:04	18° m 33'37		evening set	3610 Aug 07 01:50	28° Ω 21′10	
evening set	3609 Aug 26 08:49	16° Mp 42'58		min. Earth dist.	3610 Aug 11 23:28	25° Ω 38'18	0.57647 AU
min. Earth dist.	3609 Aug 30 07:14	14° m 07'33	0.59662 AU	inferior conj	3610 Aug 15 00:33	23° Ω 34'10	-5°08'21
inferior conj	3609 Sep 02 13:56	11° m 33'30	-4°48'25	minimum elong	3610 Aug 15 01:02	23° Ω 33'21	5°08'21
minimum elong	3609 Sep 02 18:32	11° m 24'25	4°47'45	morning rise	3610 Aug 23 02:37	19° Ω 21′01	
morning rise	3609 Sep 10 06:22	6° Mp 58′00		direct	3610 Aug 25 15:47	19° Ω 01'42	
direct	3609 Sep 12 15:52	6° Mp 37′29		morning max el	3610 Sep 03 11:03	23° Ω 10'49	19°01'37
morning max el	3609 Sep 20 08:30	10°M)21'46	18°17'44	asc. node	3610 Sep 08 01:21	28° Ω 33'46	
asc. node	3609 Sep 21 04:19	11° TD 11'46			3610 Sep 09 01:30	O° m y	
	3609 Oct 03 06:13	0∘ ⊽		morning set	3610 Sep 20 04:28	19° m 55'57	
morning set	3609 Oct 06 06:29	5° ≏ 41'01			3610 Sep 25 06:39	0∘ ರ	
superior conj	3609 Oct 15 13:07	23° ≏ 06'18	1°21'51	superior conj	3610 Sep 28 12:40	6° £ 19'20	1°37'40
minimum elong	3609 Oct 15 16:55	23° ₽ 23'37	1°21'28	minimum elong	3610 Sep 28 14:56	6° ₽ 30'12	1°37'31
	3609 Oct 19 09:14	0° M		max. Earth dist.	3610 Oct 05 07:24	18° ≏ 56'37	1.38770 AU
max. Earth dist.	3609 Oct 23 02:44	6° M 28'43	1.40844 AU	evening rise	3610 Oct 09 03:34	25° ≏ 42'38	
evening rise	3609 Oct 27 19:31	14°M20'30			3610 Oct 11 16:00	0° M	
desc. node	3609 Oct 28 10:51	15° ML $23'$ 07		desc. node	3610 Oct 15 07:51	6°M02'16	
	3609 Nov 06 18:11	0° ∡ ¹			3610 Oct 31 09:36	0°⊀	
	3609 Nov 28 22:37	8°0		evening max el	3610 Nov 13 15:04	15° ₹ 55'28	24°36'18
evening max el	3609 Dec 01 02:05	2° る 15'31	23°17'18	retrograde	3610 Nov 25 02:34	22° ҂ 37′05	
retrograde	3609 Dec 11 12:13	8° පි 25'51		evening set	3610 Nov 30 14:34	20° ≯ 19'20	
evening set	3609 Dec 16 10:35	6° る 23'49		min. Earth dist.	3610 Dec 05 05:41	15° ∡ 03'17	0.67605 AU
asc. node	3609 Dec 18 03:32	4° る 43'46		asc. node	3610 Dec 05 00:34	15° ≯ 20′12	
inferior conj	3609 Dec 21 19:58	29° ∡ ′59'41	1°13'40	inferior conj	3610 Dec 06 02:20	13° ≯ 54'28	0°22'00
minimum elong	3609 Dec 21 18:21	0° る 05'14	1°13'02	minimum elong	3610 Dec 06 01:48	13° ₹ 56'16	0°21'46
min. Earth dist.	3609 Dec 21 10:00	0°る33'57	0.67932 AU	morning rise	3610 Dec 11 13:07	7° ₹ 52'55	
	3609 Dec 21 19:53	30°Ŗ ⋌		direct	3610 Dec 15 06:22	6° ₹ 33'32	
morning rise	3609 Dec 27 02:03	23° 🗷 52'07		morning max el	3610 Dec 22 20:53	10° ₹ 53'04	20°02'26
direct	3609 Dec 31 08:19	22° x ⁷ 11'10	21014152	1 1-	3611 Jan 06 08:02	0°중 7° 중 25'31	
morning max el	3610 Jan 08 21:58 3610 Jan 11 12:49	27°♂09'56 0°る	21°14'52	desc. node morning set	3611 Jan 11 07:05 3611 Jan 18 17:13	18° る 46'19	
desc. node	3610 Jan 24 10:03	0 8 17° る 14'02		morning set	3611 Jan 25 21:59	0°≈	
desc. Hode	3610 Feb 01 23:57	0°≈		max. Earth dist.	3611 Jan 29 14:17	0 ∞ 5°≈50'18	1.43948 AU
morning set	3610 Feb 08 20:53	10°≈38'26		max. Lartii dist.	3011 Juli 25 14.17	3 70.30 10	1.43740710
max. Earth dist.	3610 Feb 16 04:50	22° ≈ 24'58	1.42323 AU	superior conj	3611 Feb 04 01:14	14° ≈ 39'04	-2°01'49
	3610 Feb 20 18:18	0° ∀		minimum elong	3611 Feb 03 20:39	14°≈20'23	
		* / .			3611 Feb 13 06:02	0° ∀	,
superior conj	3610 Feb 23 12:35	4°) 41′58	-2°06'45	evening rise	3611 Feb 17 02:28	6°) 35'38	
minimum elong	3610 Feb 23 13:41	4°) 46'38		asc. node	3611 Mar 02 23:52	29° ∺ 23'29	
evening rise	3610 Mar 06 20:43	24°) 47′09			3611 Mar 03 10:30	$0^{\circ}\Upsilon$	
	3610 Mar 09 18:00	0 ° Υ		evening max el	3611 Mar 07 00:14	4° Υ 15'22	18°11'14
asc. node	3610 Mar 16 02:51	11° Y 03'13		retrograde	3611 Mar 13 10:35	7° Ƴ 39'21	
evening max el	3610 Mar 23 11:36	21° Y ′01'08	18°08'00	evening set	3611 Mar 16 07:42	6° Ƴ 56'39	
retrograde	3610 Mar 30 04:13	24° Y 25'35		inferior conj	3611 Mar 22 11:14	1° Ƴ 41'24	3°35'19
evening set	3610 Apr 01 19:31	23° Y ′54'07		minimum elong	3611 Mar 22 12:07	1° Y 39'03	3°35'17
inferior conj	3610 Apr 08 11:27		3°14'13		3611 Mar 24 00:44	30° ₹	
minimum elong	3610 Apr 08 14:06		3°13'46	min. Earth dist.	3611 Mar 25 04:09	28°) (47'32	0.62918 AU
min. Earth dist.	3610 Apr 11 17:08	15° Y ′55'47	0.60825 AU	morning rise	3611 Mar 28 15:25	25°) ₹37'23	
morning rise	3610 Apr 15 06:40	13° Y ′06'55		direct	3611 Apr 04 13:08	22°) 59'20	
direct	3610 Apr 21 23:34	10° ℃ 54'13		desc. node	3611 Apr 09 06:15	24°) €03'42	
desc. node	3610 Apr 22 09:14	10° ℃ 54'41	27044120		3611 Apr 17 12:47	0° Υ	27040120
morning max el	3610 May 06 05:40	18° Ƴ 49'17	27°44'39	morning max el	3611 Apr 18 12:10	0° Y 57'09 0° と	27°48'29
	3610 May 15 16:02 3610 Jun 02 22:12	0°¤ 8°0		marning sat	3611 May 09 19:11	23° 8 44'43	
morning set	3610 Jun 02 22:12 3610 Jun 07 17:14	0°Щ 9°Щ33'45		morning set	3611 May 22 16:58 3611 May 25 18:09	0°II	
asc. node	3610 Jun 12 02:08	18° Ⅱ 48'45		max. Earth dist.	3611 May 28 02:08	4° ∏ 55'32	1.32681 AU
max. Earth dist.	3610 Jun 13 19:40	22° II 34'27	1.32165 AU	asc. node	3611 May 29 23:10	4 П 55 32 8° П 57'16	1.52001 AU
ava ani :	2610 I 14 22 57	250H00121	0020111	avmoni :	2611 M 20 00 20	00 П 47/22	0004105
superior conj	3610 Jun 14 23:57	25° Ⅱ 09'21	0°30'11	superior conj	3611 May 30 08:29	9° ∏ 47'32	0°04'05
minimum elong	3610 Jun 14 22:38 3610 Jun 17 04:52	25°∏02'06 0° ©	0°29'54	minimum elong	3611 May 30 08:17	9° Ⅱ 46'29 9° Ⅱ 18'59	0°04'03
evening rise	3610 Jun 1/ 04:52 3610 Jun 21 20:06	0°ഇ 10° ഇ 03'16		behind sun begin behind sun end	3611 May 30 03:12 3611 May 30 13:22	9°Щ18′39 10°Щ14′01	
evening 1150	3610 Jul 02 01:14	0°Ω		evening rise	3611 Jun 06 07:57	24° I I52'36	
evening max el	3610 Jul 18 11:42	22° Ω 28'41	25°12'20	5,011111g 1190	3611 Jun 08 18:45	0°99	
desc. node	3610 Jul 19 08:32	23°Ω17'15			3611 Jun 27 04:25	$0^{\circ}\Omega$	
		- 55-7-15					

	2611 1 20 01 02	20 000150	22020152	1 1	2612 1 22 02 22	100642121	
evening max el	3611 Jun 30 01:03	3° Ω 00′50	23°38'53	desc. node	3612 Jun 22 02:32	19°5542'21	
desc. node	3611 Jul 06 05:32	7° Ω 45'26		retrograde	3612 Jun 23 10:38	19° 5 346'29	
retrograde	3611 Jul 13 16:37	9° Ω 51'31		evening set	3612 Jun 26 05:19	19° © 29'16	
evening set	3611 Jul 17 20:22	9° Ω 13'37		min. Earth dist.	3612 Jul 04 21:45	15° © 46'00	0.54998 AU
min. Earth dist.	3611 Jul 24 11:07	6° Ω 07'16	0.55984 AU	inferior conj	3612 Jul 05 13:20	15° © 24'08	-3°40'22
inferior conj	3611 Jul 26 15:03	4° Ω 49'28	-4°49'16	minimum elong	3612 Jul 05 04:55	15° © 35'57	3°38'04
minimum elong	3611 Jul 26 09:36	4° Ω 57'41	4°48'31	morning rise	3612 Jul 14 06:13	11° © 32'56	
morning rise	3611 Aug 04 01:20	0° Ω 53'59		direct	3612 Jul 17 09:39	11° © 11'02	
direct	3611 Aug 06 20:36	0° Ω 34'21		morning max el	3612 Jul 29 06:57	16° © 44'15	21°32'56
morning max el	3611 Aug 17 02:51	5° Ω 20′02	20°07'11		3612 Aug 08 13:28	$0 ^{\circ} \Omega$	
asc. node	3611 Aug 25 22:23	16° Ω 46'31		asc. node	3612 Aug 11 19:26	5° Ω 37'19	
	3611 Sep 02 03:20	0° m/		morning set	3612 Aug 18 17:58	19° Ω 17'17	
morning set	3611 Sep 04 09:07	4° m/30'38		C	3612 Aug 23 20:14	0° m)	
8	T	4					
superior conj	3611 Sep 12 02:00	20° m 13'38	1°44'12	superior conj	3612 Aug 26 00:57	4° m 36'16	1°43'04
minimum elong	3611 Sep 12 02:32	20° m 16'23	1°44'11	minimum elong	3612 Aug 26 00:04	4° mp 31'42	1°43'01
minimum clong	3611 Sep 12 02:32	ე∘ <u>ი</u>	1 4411	max. Earth dist.	3612 Aug 30 01:04	12° m) 48'57	1.35023 AU
Footh dist	•		1 26764 ATT		=	-•	1.33023 AU
max. Earth dist.	3611 Sep 17 13:14	0° £ 56'25	1.36764 AU	evening rise	3612 Sep 03 09:02	21° Mp 18'32	
evening rise	3611 Sep 21 09:29	8° Ω 05'47			3612 Sep 08 01:48	0° ⊽	
desc. node	3611 Oct 02 04:53	26° £ 30'57		desc. node	3612 Sep 18 01:55	16° Ω 42'47	
	3611 Oct 04 10:05	0°M₊			3612 Sep 27 06:32	0°M₊	
evening max el	3611 Oct 27 03:26	29°M37'53	25°47'49	evening max el	3612 Oct 08 15:51	13° ™ 16′02	26°44'30
	3611 Oct 27 12:36	0° ∡ ¹		retrograde	3612 Oct 21 16:43	20° ™ 31′22	
retrograde	3611 Nov 08 12:13	6° ₰ 41'17		evening set	3612 Oct 28 07:35	17° M 51'00	
evening set	3611 Nov 14 14:15	4° ∡ ¹09'51		min. Earth dist.	3612 Nov 01 08:16	13° M 46'06	0.65905 AU
	3611 Nov 18 11:54	30°RM₊		inferior conj	3612 Nov 03 03:41	11° M .38'15	-1°33'55
min. Earth dist.	3611 Nov 18 21:53	29°M28'58	0.66934 AU	minimum elong	3612 Nov 03 06:16	11°ML30'37	1°32'51
inferior conj	3611 Nov 20 05:35	27°M48'45	-0°34'19	asc. node	3612 Nov 07 18:37	6° ™ 53'33	
minimum elong	3611 Nov 20 06:29	27° M 45'54	0°33'56	morning rise	3612 Nov 09 05:42	5° ™ 56'38	
asc. node	3611 Nov 21 21:34	25°M45'05		direct	3612 Nov 12 02:28	5°M11'03	
morning rise	3611 Nov 25 23:04	21°M55'46		morning max el	3612 Nov 18 16:18	8°M45'26	18°22'45
direct	3611 Nov 29 25:04 3611 Nov 29 05:03	20°M55'07		morning max ci	3612 Dec 03 12:48	0° √	10 22 43
			10004122				
morning max el	3611 Dec 06 03:36	24°M46'38	19°04'33	morning set	3612 Dec 08 04:52	7° ⋌ ³31'29	
	3611 Dec 10 14:22	0° ⊀ ⁷		desc. node	3612 Dec 15 01:12	18° ₹ 30'03	
morning set	3611 Dec 28 21:47	27° ₹ 27'45			3612 Dec 22 07:36	0°る	
desc. node	3611 Dec 29 04:08	27° ∡ ′52′29				_	
	3611 Dec 30 12:51	0°ಕ		superior conj	3612 Dec 23 16:05	2° る 07'37	
max. Earth dist.	3612 Jan 12 06:10	19° る 54'22	1.44958 AU	minimum elong	3612 Dec 23 09:03		0°55'35
				max. Earth dist.	3612 Dec 25 01:07	4° る 17'18	1.45238 AU
superior conj	3612 Jan 14 13:55	23° る 34'17	-1°37'35	evening rise	3613 Jan 08 19:17	27° る 25'49	
minimum elong	3612 Jan 14 04:55	22° る 58'42	1°36'45		3613 Jan 10 10:30	0° ≈	
	3612 Jan 18 15:06	0° ≈		greatest brilliancy	3613 Jan 19 07:15	13° ≈ 52′25	-0.8m
evening rise	3612 Jan 29 10:25	17° ≈ 28′09			3613 Jan 30 19:44	0° ∀	
	3612 Feb 06 02:13	0° ∀		evening max el	3613 Jan 31 21:18	1° ¥ 08'39	19°12'05
asc. node	3612 Feb 17 20:52	16° ¥ 59'01		asc. node			
evening max el				asc. nouc	3613 Feb 03 17:53	3° ¥ 37'32	
· · · · · · · · · · · · · · · · · · ·	3612 Feb 18 12:13	17° ₩ 39'16	18°32'56			3° ¥ 37'32 5° ¥ 08'20	
retrograde	3612 Feb 18 12:13 3612 Feb 25 01:34	17° 米 39'16 21° 米 15'42	18°32'56	retrograde	3613 Feb 07 21:28	5° ∺ 08′20	
retrograde	3612 Feb 25 01:34	21°) 15′42	18°32'56		3613 Feb 07 21:28 3613 Feb 11 07:05	5° 米 08'20 4° 米 00'51	
evening set	3612 Feb 25 01:34 3612 Feb 28 04:30	21° 米 15'42 20° 米 21'02		retrograde evening set	3613 Feb 07 21:28 3613 Feb 11 07:05 3613 Feb 15 09:33	5°¥08'20 4°¥00'51 30°R≈	3°22'41
evening set inferior conj	3612 Feb 25 01:34 3612 Feb 28 04:30 3612 Mar 04 23:18	21° ¥ 15'42 20° ¥ 21'02 14° ¥ 47'22	3°36'28	retrograde evening set inferior conj	3613 Feb 07 21:28 3613 Feb 11 07:05 3613 Feb 15 09:33 3613 Feb 16 20:10	5°¥08'20 4°¥00'51 30°R≈ 28°≈11'01	3°22'41
evening set inferior conj minimum elong	3612 Feb 25 01:34 3612 Feb 28 04:30 3612 Mar 04 23:18 3612 Mar 04 22:34	21°\colon 15'42 20°\colon 21'02 14°\colon 47'22 14°\colon 49'35	3°36'28 3°36'27	retrograde evening set inferior conj minimum elong	3613 Feb 07 21:28 3613 Feb 11 07:05 3613 Feb 15 09:33 3613 Feb 16 20:10 3613 Feb 16 18:19	5° ★08'20 4° ★00'51 30° ₹≈ 28°≈11'01 28°≈17'00	3°22'25
evening set inferior conj minimum elong min. Earth dist.	3612 Feb 25 01:34 3612 Feb 28 04:30 3612 Mar 04 23:18 3612 Mar 04 22:34 3612 Mar 07 00:45	21° X 15'42 20° X 21'02 14° X 47'22 14° X 49'35 12° X 20'34	3°36'28	retrograde evening set inferior conj minimum elong min. Earth dist.	3613 Feb 07 21:28 3613 Feb 11 07:05 3613 Feb 15 09:33 3613 Feb 16 20:10 3613 Feb 16 18:19 3613 Feb 18 06:21	5° ★08'20 4° ★00'51 30° R≈ 28°≈11'01 28°≈17'00 26°≈21'29	
evening set inferior conj minimum elong min. Earth dist. morning rise	3612 Feb 25 01:34 3612 Feb 28 04:30 3612 Mar 04 23:18 3612 Mar 04 22:34 3612 Mar 07 00:45 3612 Mar 10 16:04	21°\text{\tiny{\text{\tiny{\text{\tiny{\tinit}\text{\te}\tinx{\text{\texi}\text{\text{\texi}\text{\text{\text{\text{\texit{\texi{\texi{\texi}\texit{\texit{\texit{\tiint{\texit{\texi}\texitiex{\tint{\texit{\texi{\texi{\texi{\texit{\texi{\tet	3°36'28 3°36'27	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	3613 Feb 07 21:28 3613 Feb 11 07:05 3613 Feb 15 09:33 3613 Feb 16 20:10 3613 Feb 16 18:19 3613 Feb 18 06:21 3613 Feb 22 05:13	5° ★08'20 4° ★00'51 30° R≈ 28° ≈ 11'01 28° ≈ 17'00 26° ≈ 21'29 21° ≈ 57'42	3°22'25
evening set inferior conj minimum elong min. Earth dist. morning rise direct	3612 Feb 25 01:34 3612 Feb 28 04:30 3612 Mar 04 23:18 3612 Mar 04 22:34 3612 Mar 07 00:45 3612 Mar 10 16:04 3612 Mar 17 10:15	21°\tau15'42 20°\tau21'02 14°\tau47'22 14°\tau49'35 12°\tau20'34 8°\tau36'58 5°\tau46'59	3°36'28 3°36'27	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	3613 Feb 07 21:28 3613 Feb 11 07:05 3613 Feb 15 09:33 3613 Feb 16 20:10 3613 Feb 16 18:19 3613 Feb 18 06:21 3613 Feb 22 05:13 3613 Feb 28 14:00	5° ★08'20 4° ★00'51 30° ₹≈ 28° ≈11'01 28° ≈17'00 26° ≈21'29 21° ≈57'42 19° ≈09'11	3°22'25
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	3612 Feb 25 01:34 3612 Feb 28 04:30 3612 Mar 04 23:18 3612 Mar 04 22:34 3612 Mar 07 00:45 3612 Mar 10 16:04 3612 Mar 17 10:15 3612 Mar 26 03:17	21°\tau15'42 20°\tau21'02 14°\tau47'22 14°\tau49'35 12°\tau20'34 8°\tau36'58 5°\tau46'59 9°\tau24'51	3°36'28 3°36'27 0.64725 AU	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	3613 Feb 07 21:28 3613 Feb 11 07:05 3613 Feb 15 09:33 3613 Feb 16 20:10 3613 Feb 16 18:19 3613 Feb 18 06:21 3613 Feb 22 05:13 3613 Feb 28 14:00 3613 Mar 13 00:20	5° ★08'20 4° ★00'51 30° R≈ 28°≈11'01 28°≈17'00 26°≈21'29 21°≈57'42 19°≈09'11 26°≈24'16	3°22'25 0.66145 AU
evening set inferior conj minimum elong min. Earth dist. morning rise direct	3612 Feb 25 01:34 3612 Feb 28 04:30 3612 Mar 04 23:18 3612 Mar 04 22:34 3612 Mar 07 00:45 3612 Mar 10 16:04 3612 Mar 17 10:15 3612 Mar 26 03:17 3612 Mar 30 21:43	21°\text{\tiny{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{2\tiny{\text{\te}\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\text{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\terit{\terict{\ti}\ti}\texi{\texi{\texi{\texi{\texi{\texi	3°36'28 3°36'27	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	3613 Feb 07 21:28 3613 Feb 11 07:05 3613 Feb 15 09:33 3613 Feb 16 20:10 3613 Feb 16 18:19 3613 Feb 18 06:21 3613 Feb 22 05:13 3613 Feb 28 14:00 3613 Mar 13 00:20 3613 Mar 13 07:40	5° ★08'20 4° ★00'51 30° R≈ 28°≈11'01 28°≈17'00 26°≈21'29 21°≈57'42 19°≈09'11 26°≈24'16 26°≈42'38	3°22'25
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evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	3612 Feb 25 01:34 3612 Feb 28 04:30 3612 Mar 04 23:18 3612 Mar 04 22:34 3612 Mar 07 00:45 3612 Mar 10 16:04 3612 Mar 17 10:15 3612 Mar 26 03:17 3612 Mar 30 21:43 3612 Apr 13 02:52 3612 May 01 10:04 3612 May 05 07:56 3612 May 10 00:16	21°\tau15'42 20°\tau21'02 14°\tau47'22 14°\tau49'35 12°\tau20'34 8°\tau36'58 5°\tau46'59 9°\tau24'51 13°\tau38'49 0°\tau 0°\tau 7°\tau26'00 16°\tau48'13	3°36'28 3°36'27 0.64725 AU 27°16'59 1.33639 AU -0°24'04	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	3613 Feb 07 21:28 3613 Feb 11 07:05 3613 Feb 15 09:33 3613 Feb 16 20:10 3613 Feb 16 18:19 3613 Feb 18 06:21 3613 Feb 22 05:13 3613 Feb 28 14:00 3613 Mar 13 00:20 3613 Mar 13 07:40 3613 Apr 06 17:30 3613 Apr 18 10:31 3613 Apr 22 11:05 3613 Apr 23 09:44	5° ★08'20 4° ★00'51 30° ₹≈ 28° ≈11'01 28° ≈17'00 26° ≈21'29 21° ≈57'42 19° ≈09'11 26° ≈24'16 26° ≈42'38 0° ₩ 0° ₩ 20° ₩27'12 28° ₩08'45 0° ₩	3°22'25 0.66145 AU 26°16'52 1.35061 AU
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	3612 Feb 25 01:34 3612 Feb 28 04:30 3612 Mar 04 23:18 3612 Mar 04 22:34 3612 Mar 07 00:45 3612 Mar 10 16:04 3612 Mar 17 10:15 3612 Mar 26 03:17 3612 Mar 30 21:43 3612 Apr 13 02:52 3612 May 01 10:04 3612 May 05 07:56 3612 May 10 00:16 3612 May 13 12:28 3612 May 13 13:43	21°\tau15'42 20°\tau21'02 14°\tau47'22 14°\tau49'35 12°\tau20'34 8°\tau36'58 5°\tau46'59 9°\tau24'51 13°\tau38'49 0°\tau 0°\tau 7°\tau26'00 16°\tau48'13 24°\tau607'12 24°\tau51'344	3°36'28 3°36'27 0.64725 AU 27°16'59 1.33639 AU -0°24'04	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	3613 Feb 07 21:28 3613 Feb 11 07:05 3613 Feb 15 09:33 3613 Feb 16 20:10 3613 Feb 16 18:19 3613 Feb 18 06:21 3613 Feb 22 05:13 3613 Feb 28 14:00 3613 Mar 13 00:20 3613 Mar 13 07:40 3613 Apr 06 17:30 3613 Apr 18 10:31 3613 Apr 22 11:05 3613 Apr 23 09:44	5° ★08'20 4° ★00'51 30° ₹≈ 28° ≈11'01 28° ≈17'00 26° ≈21'29 21° ≈57'42 19° ≈09'11 26° ≈24'16 26° ≈42'38 0° ₩ 0° Ψ 20° Ψ'27'12 28° Ψ'08'45 0° ₩ 8° ₩ 02'04	3°22'25 0.66145 AU 26°16'52 1.35061 AU -0°52'59
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	3612 Feb 25 01:34 3612 Feb 28 04:30 3612 Mar 04 23:18 3612 Mar 04 22:34 3612 Mar 07 00:45 3612 Mar 10 16:04 3612 Mar 17 10:15 3612 Mar 26 03:17 3612 Mar 30 21:43 3612 Apr 13 02:52 3612 May 01 10:04 3612 May 05 07:56 3612 May 10 00:16 3612 May 13 12:28 3612 May 13 13:43 3612 May 15 20:11	21°\tau15'42 20°\tau21'02 14°\tau49'35 12°\tau20'34 8°\tau36'58 5°\tau46'59 9°\tau24'51 13°\tau38'49 0°\tau 0°\tau 7°\tau26'00 16°\tau48'13 24°\tau07'12 24°\tau13'44 29°\tau03'07	3°36'28 3°36'27 0.64725 AU 27°16'59 1.33639 AU -0°24'04	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	3613 Feb 07 21:28 3613 Feb 11 07:05 3613 Feb 15 09:33 3613 Feb 16 20:10 3613 Feb 16 18:19 3613 Feb 18 06:21 3613 Feb 22 05:13 3613 Feb 28 14:00 3613 Mar 13 00:20 3613 Mar 13 07:40 3613 Apr 06 17:30 3613 Apr 18 10:31 3613 Apr 22 11:05 3613 Apr 23 09:44	5° ★08'20 4° ★00'51 30° ₹≈ 28° ≈11'01 28° ≈17'00 26° ≈21'29 21° ≈57'42 19° ≈09'11 26° ≈24'16 26° ≈42'38 0° ¥ 0° Ŷ 20° Ŷ27'12 28° Ŷ08'45 0° ℧ 8° ℧ 02'04 8° ℧ 16'25	3°22'25 0.66145 AU 26°16'52 1.35061 AU -0°52'59
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	3612 Feb 25 01:34 3612 Feb 28 04:30 3612 Mar 04 23:18 3612 Mar 04 22:34 3612 Mar 07 00:45 3612 Mar 10 16:04 3612 Mar 17 10:15 3612 Mar 26 03:17 3612 Mar 30 21:43 3612 Apr 13 02:52 3612 May 01 10:04 3612 May 05 07:56 3612 May 10 00:16 3612 May 13 12:28 3612 May 13 13:43 3612 May 15 20:11 3612 May 16 06:51	21°\tau15'42 20°\tau21'02 14°\tau49'35 12°\tau20'34 8°\tau36'58 5°\tau46'59 9°\tau24'51 13°\tau38'49 0°\tau 0°\tau 7°\tau26'00 16°\tau48'13 24°\tau07'12 24°\tau30'37 0°\tau	3°36'28 3°36'27 0.64725 AU 27°16'59 1.33639 AU -0°24'04	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	3613 Feb 07 21:28 3613 Feb 11 07:05 3613 Feb 15 09:33 3613 Feb 16 20:10 3613 Feb 16 18:19 3613 Feb 18 06:21 3613 Feb 22 05:13 3613 Feb 28 14:00 3613 Mar 13 00:20 3613 Mar 13 07:40 3613 Apr 06 17:30 3613 Apr 18 10:31 3613 Apr 22 11:05 3613 Apr 23 09:44 3613 Apr 27 09:39 3613 Apr 27 12:27 3613 May 02 17:14	5° ★08'20 4° ★00'51 30° ₹≈ 28° ≈11'01 28° ≈17'00 26° ≈21'29 21° ≈57'42 19° ≈09'11 26° ≈24'16 26° ≈42'38 0° ¥ 0° Ŷ 20° Ŷ27'12 28° Ŷ08'45 0° ℧ 8° ℧02'04 8° ℧16'25 19° ℧02'34	3°22'25 0.66145 AU 26°16'52 1.35061 AU -0°52'59
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	3612 Feb 25 01:34 3612 Feb 28 04:30 3612 Mar 04 23:18 3612 Mar 04 22:34 3612 Mar 07 00:45 3612 Mar 10 16:04 3612 Mar 17 10:15 3612 Mar 26 03:17 3612 Mar 30 21:43 3612 Apr 13 02:52 3612 May 01 10:04 3612 May 05 07:56 3612 May 10 00:16 3612 May 13 12:28 3612 May 13 13:43 3612 May 15 20:11 3612 May 16 06:51 3612 May 20 18:57	21°\tau15'42 20°\tau21'02 14°\tau49'35 12°\tau20'34 8°\tau36'58 5°\tau46'59 9°\tau24'51 13°\tau38'49 0°\tau 0°\tau 0°\tau 24°\tau30'12 24°\tau30'12 24°\tau30'17 0°\tau 9°\tau34'33	3°36'28 3°36'27 0.64725 AU 27°16'59 1.33639 AU -0°24'04	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	3613 Feb 07 21:28 3613 Feb 11 07:05 3613 Feb 15 09:33 3613 Feb 16 20:10 3613 Feb 16 18:19 3613 Feb 18 06:21 3613 Feb 22 05:13 3613 Feb 28 14:00 3613 Mar 13 00:20 3613 Mar 13 07:40 3613 Mar 16 09:15 3613 Apr 06 17:30 3613 Apr 18 10:31 3613 Apr 22 11:05 3613 Apr 23 09:44 3613 Apr 27 09:39 3613 Apr 27 12:27 3613 May 02 17:14 3613 May 05 03:11	5° ★08'20 4° ★00'51 30° ₹≈ 28° ≈11'01 28° ≈17'00 26° ≈21'29 21° ≈57'42 19° ≈09'11 26° ≈24'16 26° ≈42'38 0° ¥ 0° ¥ 20° ¥27'12 28° ¥08'45 0° ¥ 8° ₺02'04 8° ₺16'25 19° ₺02'34 24° ₺03'06	3°22'25 0.66145 AU 26°16'52 1.35061 AU -0°52'59
evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	3612 Feb 25 01:34 3612 Feb 28 04:30 3612 Mar 04 23:18 3612 Mar 04 22:34 3612 Mar 07 00:45 3612 Mar 10 16:04 3612 Mar 17 10:15 3612 Mar 26 03:17 3612 Mar 30 21:43 3612 Apr 13 02:52 3612 May 01 10:04 3612 May 05 07:56 3612 May 10 00:16 3612 May 13 12:28 3612 May 13 13:43 3612 May 15 20:11 3612 May 16 06:51	21°\tau15'42 20°\tau21'02 14°\tau49'35 12°\tau20'34 8°\tau36'58 5°\tau46'59 9°\tau24'51 13°\tau38'49 0°\tau 0°\tau 7°\tau26'00 16°\tau48'13 24°\tau07'12 24°\tau30'37 0°\tau	3°36'28 3°36'27 0.64725 AU 27°16'59 1.33639 AU -0°24'04 0°23'48	retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	3613 Feb 07 21:28 3613 Feb 11 07:05 3613 Feb 15 09:33 3613 Feb 16 20:10 3613 Feb 16 18:19 3613 Feb 18 06:21 3613 Feb 22 05:13 3613 Feb 28 14:00 3613 Mar 13 00:20 3613 Mar 13 07:40 3613 Apr 06 17:30 3613 Apr 18 10:31 3613 Apr 22 11:05 3613 Apr 23 09:44 3613 Apr 27 09:39 3613 Apr 27 12:27 3613 May 02 17:14	5° ★08'20 4° ★00'51 30° ₹≈ 28° ≈11'01 28° ≈17'00 26° ≈21'29 21° ≈57'42 19° ≈09'11 26° ≈24'16 26° ≈42'38 0° ¥ 0° Ŷ 20° Ŷ27'12 28° Ŷ08'45 0° ℧ 8° ℧02'04 8° ℧16'25 19° ℧02'34	3°22'25 0.66145 AU 26°16'52 1.35061 AU -0°52'59 0°52'27

	2612 1 02 22 10	200 T 4015 C			26144 10 1416	001.4501.45	
retrograde	3613 Jun 03 23:40	29° Ⅱ 49'56		asc. node	3614 Apr 19 14:16	8° 8 50'47	
evening set	3613 Jun 06 00:49	29° Ⅱ 39'43			3614 May 01 10:20	0°II	
desc. node	3613 Jun 08 23:32	28° Ⅱ 52'07		evening max el	3614 May 06 08:04		19°29'51
inferior conj	3613 Jun 15 06:57	25° Ⅱ 42'14		retrograde	3614 May 15 19:35	10° Ⅱ 30'55	
minimum elong	3613 Jun 15 01:44	25° ∏ 49'44	1°49'09	evening set	3614 May 17 19:21	10° Ⅱ 19'38	
min. Earth dist.	3613 Jun 16 09:50	25° Ⅱ 03'34	0.54932 AU	inferior conj	3614 May 26 10:23	6° Ⅱ 14'30	
morning rise	3613 Jun 24 01:58	21° Ⅱ 34'43		minimum elong	3614 May 26 10:42	6° Ⅱ 13'59	0°07'21
direct	3613 Jun 27 19:06	21° Ⅱ 05'00		transit middle	3614 May 26 10:42	6° Ⅱ 13'59	0°07'21
morning max el	3613 Jul 11 01:29	27° Ⅱ 29'07	23°12'48	transit begin	3614 May 26 07:15	6° Ⅱ 19'32	
	3613 Jul 13 13:03	0 \circ \odot		transit end	3614 May 26 14:10	6° Ⅱ 08'26	
asc. node	3613 Jul 29 16:30	24° © 56'39		desc. node	3614 May 26 20:34	5° Ⅱ 58'07	
	3613 Aug 01 04:59	$0 {\circ} \Omega$		min. Earth dist.	3614 May 28 23:58	4° Ⅱ 36′05	0.55826 AU
morning set	3613 Aug 03 05:08	4° Ω 10′21		morning rise	3614 Jun 03 23:17	1° Ⅲ 35'15	
				direct	3614 Jun 08 13:58	0° Ⅱ 47'13	
superior conj	3613 Aug 10 06:23	19° Ω 17'39	1°35'32	morning max el	3614 Jun 22 15:31	7° Ⅱ 53'01	24°55'06
minimum elong	3613 Aug 10 04:33	19° Ω 07'47	1°35'22		3614 Jul 08 21:34	0 \circ \odot	
max. Earth dist.	3613 Aug 12 21:45	24° Ω 54'17	1.33664 AU	asc. node	3614 Jul 16 13:34	14° © 36'36	
	3613 Aug 15 08:35	0° m)		morning set	3614 Jul 18 16:56	19° 5 04'30	
evening rise	3613 Aug 17 21:55	5° m 09'36			3614 Jul 23 18:13	$0^{\circ}\Omega$	
	3613 Aug 31 18:02	0∘ ত					
desc. node	3613 Sep 04 22:54	6° £ 30′21		superior conj	3614 Jul 25 15:52	4° Ω 09'40	1°22'40
evening max el	3613 Sep 21 03:53	26° - 40'48	27°19'05	minimum elong	3614 Jul 25 13:34	3° Ω 57'05	1°22'22
Ü	3613 Sep 25 00:48	0° M .		max. Earth dist.	3614 Jul 27 02:39	7° Ω 19'01	1.32718 AU
retrograde	3613 Oct 04 15:33	3°M59'19		evening rise	3614 Aug 01 20:26	19° Ω 28'16	
evening set	3613 Oct 11 16:06	1°ML17'57			3614 Aug 07 04:36	0° m)	
3	3613 Oct 13 05:13	30°R ≏		desc. node	3614 Aug 22 19:54	25° m 43'40	
min. Earth dist.	3613 Oct 15 10:43	•	0.64526 AU	dese. node	3614 Aug 26 00:06	0∘ ಹ	
inferior conj	3613 Oct 17 18:21	25° ♀ 18'13		evening max el	3614 Sep 03 13:54	∘ – 9° ჲ 40'24	27°25'08
minimum elong	3613 Oct 17 10:21 3613 Oct 17 22:40	25° ⊆ 06'36		retrograde	3614 Sep 17 07:55	16° ≏ 56'17	27 23 00
morning rise	3613 Oct 24 06:23	19° £ 50'52	2 33 13	evening set	3614 Sep 24 12:35	14° ⊆ 24'55	
asc. node	3613 Oct 24 00:23 3613 Oct 25 15:41	19 ⊆ 30 32 19° ⊆ 23'53		min. Earth dist.	3614 Sep 28 03:26	14 = 24 33	0.62817 AU
direct	3613 Oct 26 20:21	19° £ 16′28		inferior conj	3614 Sep 30 22:52	8° £ 42'35	
morning max el	3613 Nov 02 08:19	22° £ 42'57	17°57'46	minimum elong	3614 Oct 01 04:28	8° £ 29'03	
morning max er	3613 Nov 08 01:52	0°M	1/ 3/40	•	3614 Oct 07 04:28 3614 Oct 07 21:53	3° £ 32'47	3 32 03
		19° M L00'05		morning rise direct	3614 Oct 07 21:33 3614 Oct 10 07:48		
morning set	3613 Nov 19 16:51					3° ♀ 05'57 3° ♀ 29'01	
1 1-	3613 Nov 26 06:42	0° ⊀ 7 0° ∗ 7 1215 4		asc. node	3614 Oct 12 12:47		17950120
desc. node	3613 Dec 01 22:13	9° ∡ 13'54		morning max el	3614 Oct 17 00:42	6° £ 32'35	1/50/30
	261275 02.01.20	110 315110	0000120		3614 Nov 01 06:29	0°M	
superior conj	3613 Dec 03 04:29	11° х 15'49		morning set	3614 Nov 02 04:27	1°M37'10	
minimum elong	3613 Dec 03 03:26	11° ∡ 11'38	0°08'31				
behind sun begin	3613 Dec 02 18:33	10° ∡ ³35'51		superior conj	3614 Nov 13 17:20	21°M36'57	0°34'46
behind sun end	3613 Dec 03 12:20	11° ∡ ′47′23		minimum elong	3614 Nov 13 20:34	21°M50'30	0°34'19
max. Earth dist.	3613 Dec 07 19:48	18° ∡ ³39'33	1.44781 AU	desc. node	3614 Nov 18 19:15	0° ∡ 101′07	
	3613 Dec 15 01:38	0° ਰ			3614 Nov 18 18:58	0° ∡	
evening rise	3613 Dec 19 09:49	6° る 42'37		max. Earth dist.	3614 Nov 20 12:00	2° ≯ 46'20	1.43651 AU
greatest brilliancy	3614 Jan 02 22:14	28°₹41'35	-0.6m	evening rise	3614 Nov 28 19:30	15° ∡ 54'11	
	3614 Jan 03 19:39	0° ≈			3614 Dec 08 02:14	0°₹	
evening max el	3614 Jan 15 01:46	14° ≈ 39'57	20°07'00	evening max el	3614 Dec 29 00:51	28° る 12'53	21°14'44
asc. node	3614 Jan 21 14:56	19° ≈ 03'44			3614 Dec 30 21:45	0° ≈	
retrograde	3614 Jan 22 19:24	19° ≈ 11'25		retrograde	3615 Jan 06 17:09	3° ≈ 21'40	
evening set	3614 Jan 26 13:08	17° ≈ 50′00		asc. node	3615 Jan 08 12:00	3° ≈ 04'14	
inferior conj	3614 Jan 31 22:54	11° ≈ 46′32	2°57'24	evening set	3615 Jan 10 20:45	1° ≈ 45′02	
minimum elong	3614 Jan 31 20:29	11° ≈ 54'43	2°56'49		3615 Jan 12 17:09	30°Ŗ₹	
min. Earth dist.	3614 Feb 01 19:07	10° ≈ 38′28	0.67152 AU	inferior conj	3615 Jan 16 05:09	25° る 30'52	2°22'56
morning rise	3614 Feb 06 03:36	5° ≈ 32'41		minimum elong	3615 Jan 16 02:40	25° る 39'25	2°22'10
direct	3614 Feb 11 23:29	2° ≈ 56′25		min. Earth dist.	3615 Jan 16 12:48	25° る 04'24	0.67757 AU
morning max el	3614 Feb 23 16:24	9° ≈ 56'12	24°57'30	morning rise	3615 Jan 21 08:24	19° る 18'14	
desc. node	3614 Feb 27 21:24	14° ≈ 33′20		direct	3615 Jan 26 13:42	17° る 01'26	
	3614 Mar 11 13:55	0°) €		morning max el	3615 Feb 06 01:04	23° る 15'16	23°29'17
	3614 Mar 30 08:57	$0^{\circ}\Upsilon$			3615 Feb 11 23:45	0° ≈	
morning set	3614 Mar 31 19:42	2° Y 33'35		desc. node	3615 Feb 14 18:27	3° ≈ 32'15	
max. Earth dist.	3614 Apr 04 10:52	9° Ƴ 09'03	1.36913 AU		3615 Mar 04 23:15	0°) €	
				morning set	3615 Mar 13 05:24	13°) 29′07	
superior conj	3614 Apr 10 20:58	21° Y 23'34	-1°20'56	max. Earth dist.	3615 Mar 17 05:53	20°) 24′18	1.39047 AU
minimum elong	3614 Apr 11 01:08	21° Y 43'57	1°20'18		3615 Mar 22 14:18	$0^{\circ}\mathbf{\Upsilon}$	
-	3614 Apr 15 04:49	9° 8					
evening rise	3614 Apr 19 06:20	8° 8 11'02		superior conj	3615 Mar 24 18:39	4° Υ 02'25	-1°45'16
				=			

minimum elong	3615 Mar 24 23:18	4° Υ 24'06	1°44'47	asc. node	3616 Mar 23 08:20	17° Ƴ 33'56	
•	3615 Apr 03 01:40	21° Υ 51'30	1 44 4 /	asc. node	3616 Mar 31 20:09	0° 8	
evening rise asc. node	3615 Apr 06 11:18	21 γ 31 30 28° γ 23'12		avaning may al	3616 Apr 01 16:10	0° 8 51'29	18°14'47
asc. node	3615 Apr 07 07:54	0° 8		evening max el retrograde	3616 Apr 08 17:04	4° 8 22'59	16 144/
avanina may al	3615 Apr 19 08:27	18° 8 07'35	18°42'13	•		3° 8 57'20	
evening max el	1		16 42 13	evening set	3616 Apr 11 04:51	30°RΥ	
retrograde	3615 Apr 27 08:46	22° 8 03'07		:	3616 Apr 17 08:13	•	2050122
evening set	3615 Apr 29 14:08	21° 8 46'05	1045100	inferior conj	3616 Apr 18 05:38	29°Υ13'35	2°50'33
inferior conj	3615 May 07 09:17	17° 8 23'06	1°45'08	minimum elong	3616 Apr 18 09:06	29°Υ06'00	2°49'46
minimum elong	3615 May 07 12:43	17° 8 16'40	1°44'04	min. Earth dist.	3616 Apr 21 15:18	26° Y 16′18	0.59564 AU
min. Earth dist.	3615 May 10 17:01	14° 8 55'09	0.57484 AU	morning rise	3616 Apr 25 10:46	23° Y 32′25	
desc. node	3615 May 13 17:37	12° 8 58'15		desc. node	3616 Apr 29 14:39	21° Y 53'11	
morning rise	3615 May 15 08:06	12° 8 09'18		direct	3616 May 01 20:22	21° Y 39'24	
direct	3615 May 20 22:43	10° 8 51'40		morning max el	3616 May 16 04:56	29° Y 28'42	27°25'37
morning max el	3615 Jun 04 07:17	18° 8 24'34	26°24'10		3616 May 16 17:30	9° 8	
	3615 Jun 14 00:03	Π $^{\circ}0$			3616 Jun 06 21:32	Π $^{\circ}0$	
	3615 Jul 01 06:41	0		morning set	3616 Jun 16 11:48	18° Ⅲ 34'51	
morning set	3615 Jul 03 03:42	3° 5 54'24		asc. node	3616 Jun 19 07:37	24° ∏ 34′20	
asc. node	3615 Jul 03 10:36	4° © 30'48			3616 Jun 21 19:33	0 \circ \odot	
				max. Earth dist.	3616 Jun 23 00:51	2° © 41'01	1.32057 AU
superior conj	3615 Jul 10 03:20	19° 5 05'21	1°05'15				
minimum elong	3615 Jul 10 01:03	18° © 52'47	1°04'52	superior conj	3616 Jun 23 15:02	3°\$59'05	0°43'58
max. Earth dist.	3615 Jul 10 12:55	19° © 58'12	1.32187 AU	minimum elong	3616 Jun 23 13:14	3° © 49'11	0°43'36
	3615 Jul 15 03:21	$0^{\circ}\Omega$		evening rise	3616 Jun 30 10:54	18° © 52'00	
evening rise	3615 Jul 17 01:34	4°Ω04'55		5 / 4 · · · · · · · · · · · · · · · · · ·	3616 Jul 05 22:04	$0^{\circ}\Omega$	
e vennig rise	3615 Jul 30 22:31	0° mp			3616 Jul 25 07:22	0° m y	
desc. node	3615 Aug 09 16:56	14° Mp 08'05		desc. node	3616 Jul 26 13:56	1° mp 23'34	
evening max el	3615 Aug 16 19:07	22° m 00'33	26°58'15	evening max el	3616 Jul 28 17:02	3°My32'18	25°58'43
•	3615 Aug 10 19:07 3615 Aug 30 16:38	22 my 12'15	20 36 13	retrograde	3616 Aug 11 16:24	10° Mp 40'45	23 38 43
retrograde	•	-		•	•	9° My 05'34	
evening set	3615 Sep 06 16:39	27° Mp 03'19	0.60052 ATT	evening set	3616 Aug 17 23:31	-•	0.5070(AII
min. Earth dist.	3615 Sep 10 09:21	24° m 23'42	0.60853 AU	min. Earth dist.	3616 Aug 22 05:27	6° Тр 29'35	
inferior conj	3615 Sep 13 13:48	21° Mp 41'43		inferior conj	3616 Aug 25 11:34	4° Mp 05'54	
minimum elong	3615 Sep 13 19:25	21° m 29'45	4°24'12	minimum elong	3616 Aug 25 14:48	3° TD 59'55	5°00'21
morning rise	3615 Sep 21 00:01	16° My 52'52			3616 Sep 01 07:20	30°R€	
direct	3615 Sep 23 08:55	16° Mp 30'36		morning rise	3616 Sep 02 08:18	29° Ω 40'16	
asc. node	3615 Sep 29 09:50	19° m 01'38		direct	3616 Sep 04 19:11	29° Ω 20′23	
morning max el	3615 Sep 30 14:16	20° Mp 05'35	18°02'05		3616 Sep 08 03:49	0°Щ	
	3615 Oct 07 22:56	0∘ ರ		morning max el	3616 Sep 12 21:45	3°Mp13'19	18°33'50
morning set	3615 Oct 16 09:11	15° ≙ 02'49		asc. node	3616 Sep 15 06:52	5° Mp 47′52	
	3615 Oct 24 12:50	0°M		morning set	3616 Sep 29 01:57	29° M 02'30	
					3616 Sep 29 13:50	0∘ ত	
superior conj	3615 Oct 26 08:38	3°M15'12	1°07'55				
minimum elong	3615 Oct 26 12:52	3°M33'55	1°07'25	superior conj	3616 Oct 07 22:02	15° ≏ 58'15	1°29'47
max. Earth dist.	3615 Nov 02 23:48	16°M21'56	1.41978 AU	minimum elong	3616 Oct 08 01:15	16° ≏ 13'14	1°29'31
desc. node	3615 Nov 05 16:15	20°M47'51		max. Earth dist.	3616 Oct 15 06:16	29° ≙ 13'49	1.39971 AU
evening rise	3615 Nov 08 16:24	25° ™ 39'14			3616 Oct 15 16:53	0°M	
	3615 Nov 11 10:18	0° ∡ ¹		evening rise	3616 Oct 19 10:45	6°M23'08	
	3615 Dec 01 23:11	8°0		desc. node	3616 Oct 22 13:16	11° M 30'41	
evening max el	3615 Dec 11 18:41	11° る 47'11	22°31'15		3616 Nov 03 12:51	0° ⊼ ¹	
retrograde	3615 Dec 21 13:02	17° පි 35'20		evening max el	3616 Nov 23 08:40	25° ∡ °24′07	23°51'12
evening set	3615 Dec 26 04:13	15° る 42'29			3616 Nov 28 21:37	0°⋜	
asc. node	3615 Dec 26 09:03	15° る 32'16		retrograde	3616 Dec 04 05:47	1° る 48'49	
inferior conj	3615 Dec 31 12:50	9° ප 20'54	1°40'52		3616 Dec 08 23:57	30°R. ✓	
minimum elong	3615 Dec 31 10:47	9° ට 28'01	1°40'06	evening set	3616 Dec 09 09:57	29° х 39′39	
min. Earth dist.	3615 Dec 31 09:03	9° ප 34'02	0.67979 AU	asc. node	3616 Dec 12 06:05	26° × 39'41	
morning rise	3616 Jan 05 17:15	3° ප 11'10	0.01717 AU	min. Earth dist.	3616 Dec 14 05:35	24°×704'14	0.67840 AU
direct	3616 Jan 10 07:43	1° ප 17'06		inferior conj	3616 Dec 14 20:12	23°×714'34	0°52'23
		6° ප 41'43	22°01'48	·		23°×14'34 23°×18'40	0°51'54
morning max el desc. node	3616 Jan 19 13:03 3616 Feb 01 15:30	23° る 06'36	44 UI 40	minimum elong	3616 Dec 14 18:59 3616 Dec 20 04:03	17° × 18'40	0 31 34
uesc. noue				morning rise			
	3616 Feb 06 10:42	0°≈ 22°a •02!21		direct	3616 Dec 24 04:31	15° 🗷 38'12	20042126
morning set	3616 Feb 21 10:37	23°≈02'21		morning max el	3617 Jan 01 07:35	20° ₹ 18'52	20-42-26
pp111	3616 Feb 25 16:54	0°) (2<120	1 41105 : **		3617 Jan 09 07:55	0°る	
max. Earth dist.	3616 Feb 27 04:04	2° ∺ 26′28	1.41197 AU	desc. node	3617 Jan 18 12:31	13° る 06'36	
					3617 Jan 29 15:54	0° ≈	
superior conj	3616 Mar 05 21:53	15°) (46′32		morning set	3617 Jan 30 14:14	1°≈26'45	
minimum elong	3616 Mar 06 01:05	16° ¥ 00'45	2°02'04	max. Earth dist.	3617 Feb 08 09:07	15° ≈ 22'55	1.43080 AU
	3616 Mar 13 17:56	0° Υ					
evening rise	3616 Mar 16 09:44	4° Y 56′02		superior conj	3617 Feb 15 01:32	26° ≈ 24'01	-2°06'50

23°**х** 57'00

3618 Dec 23 06:35

desc. node

3618 Jan 22 10:55

0°≈

	3618 Dec 27 02:53	0°₹		morning set	3619 Nov 30 21:21	29°M35'00	
may Earth dist	3619 Jan 04 14:31	0 3 13° る 18'59	1.45168 AU	morning set		29 IIL33 00 0° √ 1	
max. Earth dist.	3019 Jan 04 14.31	13 01839	1.43108 AU	desc. node	3619 Dec 01 03:27 3619 Dec 10 03:38	0 x . 14° x 37'33	
superior conj	3619 Jan 05 09:16	14° る 32'36	1021/47	desc. node	3019 Dec 10 03.38	14 X·3/33	
	3619 Jan 05 09:16	14 3 32 36		aumorior comi	3619 Dec 15 13:12	220.712124	0026116
minimum elong		0°≈	1 2047	superior conj		23° ₹ 13'24 22° ₹ 55'14	
	3619 Jan 15 04:07	0°≈ 9°≈08'42		minimum elong	3619 Dec 15 08:37		
evening rise	3619 Jan 20 21:22		0.0	max. Earth dist.	3619 Dec 18 10:06	27°♂45'02 0°舌	1.45138 AU
greatest brilliancy	3619 Jan 27 23:42	20°≈33'13	-0.9m		3619 Dec 19 20:28	_	
	3619 Feb 03 00:27	0° ∀	10045122	evening rise	3619 Dec 31 21:20	18° ප් 46'01	
evening max el	3619 Feb 11 03:39	10°) 43′23	18°47'33		3620 Jan 08 03:21	0° ≈	0.7
asc. node	3619 Feb 11 23:26	11°) € 31'32		greatest brilliancy	3620 Jan 13 09:14	8°≈00'49	-0.7m
retrograde	3619 Feb 17 20:37	14°) €28'07		evening max el	3620 Jan 25 11:01	24°≈13'59	19°33'39
evening set	3619 Feb 21 02:18	13° ∺ 28′06		asc. node	3620 Jan 29 20:29	27° ≈ 41'15	
inferior conj	3619 Feb 26 18:22		3°32'10	retrograde	3620 Feb 01 17:39	28° ≈ 25'53	
minimum elong	3619 Feb 26 17:05	7° ∺ 51'30	3°32'04	evening set	3620 Feb 05 06:39	27° ≈ 12'24	
min. Earth dist.	3619 Feb 28 13:17	5°) 35′38	0.65388 AU	inferior conj	3620 Feb 10 18:03	21°≈16′25	3°13'11
morning rise	3619 Mar 04 07:27	1°) 35′44		minimum elong	3620 Feb 10 15:53	21° ≈ 23'32	3°12'47
	3619 Mar 06 12:05	30° ₹ ≈		min. Earth dist.	3620 Feb 11 22:03	19° ≈ 44'34	0.66630 AU
direct	3619 Mar 10 22:23	28° ≈ 44'38		morning rise	3620 Feb 16 00:53	15° ≈ 02'54	
	3619 Mar 15 18:18	0° ℋ		direct	3620 Feb 22 04:32	12° ≈ 18'39	
desc. node	3619 Mar 21 05:46	3°){ 47'47		morning max el	3620 Mar 05 12:12	19° ≈ 38'39	25°44'51
morning max el	3619 Mar 24 02:47	6° ∺ 29'59	26°54'14	desc. node	3620 Mar 07 02:50	21° ≈ 19'35	
	3619 Apr 11 05:05	0 ° $\mathbf{\Upsilon}$			3620 Mar 14 08:27	0° ∀	
morning set	3619 Apr 28 21:50	0° 8 23'39			3620 Apr 03 07:35	0° Y	
	3619 Apr 28 16:53	0°8		morning set	3620 Apr 10 17:42	13° Ƴ 03'22	
max. Earth dist.	3619 May 03 06:50	8° 8 59'31	1.34190 AU	max. Earth dist.	3620 Apr 14 12:55	20° Ƴ 10'01	1.35808 AU
					3620 Apr 19 13:29	0°8	
superior conj	3619 May 07 09:31	17° 8 25'35	-0°36'19				
minimum elong	3619 May 07 11:25	17° 8 35'30	0°35'56	superior conj	3620 Apr 20 02:58	1° 8 07'37	-1°05'05
asc. node	3619 May 10 22:43	24° 8 53'32		minimum elong	3620 Apr 20 06:24	1° 8 24'54	1°04'29
	3619 May 13 08:46	0° I I		asc. node	3620 Apr 26 19:47	14° 8 49'02	
evening rise	3619 May 14 20:09	3° Ⅱ 05'24		evening rise	3620 Apr 28 02:34	17° 8 26'31	
C	3619 May 30 01:03	0ം ഉ		Č	3620 May 04 12:33	0° I I	
evening max el	3619 Jun 03 16:53	5°521'14	21°24'42	evening max el	3620 May 15 23:35	16° Ⅱ 30'55	20°06'15
retrograde	3619 Jun 15 20:21	11° © 19'19		retrograde	3620 May 26 10:43	21° ∏ 36'40	
desc. node	3619 Jun 17 04:58	11°515'02		evening set	3620 May 28 10:02	21° I I26'36	
evening set	3619 Jun 18 05:24	11°506'23		desc. node	3620 Jun 03 02:00	19° Ⅲ 22'29	
inferior conj	3619 Jun 27 14:42	7°906'53	-2°57'25	inferior conj	3620 Jun 06 10:50	17° I I27'15	-0°59'45
minimum elong	3619 Jun 27 06:59	7° © 17'41		minimum elong	3620 Jun 06 08:02	17° I I31'25	
min. Earth dist.	3619 Jun 27 17:28	7°503'02		min. Earth dist.	3620 Jun 08 05:59	16° Ⅲ 22'55	
morning rise	3619 Jul 06 09:16	3°911'10	0.54655 AC	morning rise	3620 Jun 15 04:27	13° I 107'57	0.55205 AC
direct	3619 Jul 09 17:54	2°546'41		direct	3620 Jun 19 06:01	13 Ⅱ 0737 12° Ⅱ 32'02	
morning max el	3619 Jul 22 06:17	8°941'55	22014/13	morning max el	3620 Jul 02 22:07	12 H 32 02 19° H 14'40	23°56'58
morning max ci	3619 Aug 06 07:43	0°Ω	22 1413	morning max ci	3620 Jul 11 21:53	0°9	23 30 38
asc. node	3619 Aug 06 21:58	1° Ω 06'40		asc. node	3620 Jul 23 19:02	20° © 35'45	
	-	1 200 40 12°Ω56'12		morning set	3620 Jul 27 07:27	20 \$33 43 27°\$50'43	
morning set	3619 Aug 12 19:47	12 8630 12		morning set	3620 Jul 28 07:48	27 \$3043 0°Ω	
superior conj	3619 Aug 19 23:52	28° Ω 08'59	1°40'34		3020 Jul 20 07.40	0 86	
minimum elong	3619 Aug 19 22:31	28° Ω 01'52	1°40'29	superior conj	3620 Aug 03 07:18	12° Ω 55'48	1°30'40
minimum clong	•	0° m	1 40 29	minimum elong	3620 Aug 03 07:18	12 δι 33 48	1°30'40' 1°30'27
may Forth dist	3619 Aug 20 20:57	5°Mp14'41	1 24207 AII	max. Earth dist.	3620 Aug 05 03:12 3620 Aug 05 10:13		1.33213 AU
max. Earth dist.	3619 Aug 23 09:32		1.34397 AU				1.33213 AU
evening rise	3619 Aug 28 00:10	14° m 27'59		evening rise	3620 Aug 10 17:34	28° Ω 31'57	
1 1	3619 Sep 05 11:38	0° 亞			3620 Aug 11 11:08	0° m	
desc. node	3619 Sep 13 04:18	12° £ 30'17			3620 Aug 28 15:29	0° ⊽	
	3619 Sep 26 00:15	0°M	27002126	desc. node	3620 Aug 30 01:19	2° Ω 04'52	25025122
evening max el	3619 Oct 01 22:06	6°M21'11	27°02'26	evening max el	3620 Sep 13 09:33	19° £ 36'36	27°25'23
retrograde	3619 Oct 15 04:02	13°M37'59		retrograde	3620 Sep 26 23:56	26° £ 53'51	
evening set	3619 Oct 21 23:32	10°M56'22	0.65060 : **	evening set	3620 Oct 04 03:19	24° £ 15'07	0.62042 : **
min. Earth dist.	3619 Oct 25 21:36	7°M06'27	0.65362 AU	min. Earth dist.	3620 Oct 07 19:54	20° £ 59'06	0.63843 AU
inferior conj	3619 Oct 27 22:04	4°M48'47		inferior conj	3620 Oct 10 08:45	18° £ 22'38	
minimum elong	3619 Oct 28 01:24	4°M39'17	1°58'24	minimum elong	3620 Oct 10 13:42	18° Ω 09'53	2°58'35
	3619 Nov 01 20:24	30° R≏		morning rise	3620 Oct 17 01:23	13° Ω 02'28	
asc. node	3619 Nov 02 21:12	29° £ 21'31		direct	3620 Oct 19 13:23	12° £ 31'35	
morning rise	3619 Nov 03 04:09	29° ≙ 12'36		asc. node	3620 Oct 19 18:15	12° ≏ 31'48	
direct	3619 Nov 05 21:49	28° ≙ 32'04		morning max el	3620 Oct 26 02:26	15° Ω 56'46	17°52'30
	3619 Nov 10 00:32	0°M			3620 Nov 05 01:15	0°M	
morning max el	3619 Nov 12 09:53	2°M01'53	18°10'00	morning set	3620 Nov 11 20:09	11°M34'56	

	3620 Nov 22 17:38	0° ₹		direct asc. node	3621 Oct 02 20:46 3621 Oct 06 15:19	26° m 11'27 27° m 15'16	
superior conj	3620 Nov 24 11:00	2° × ⁷ 49'48	0°10'49	morning max el	3621 Oct 09 18:02	29° m) 40'27	17°53'05
minimum elong	3620 Nov 24 12:11	2° × 754'39	0°10'39	morning must vi	3621 Oct 10 01:50	0∘ <mark>ಹ</mark>	1, 03 00
behind sun begin	3620 Nov 24 04:42	2° × 124'02		morning set	3621 Oct 25 15:39	24° £ 34'01	
behind sun end	3620 Nov 24 19:40	3° ≯ 25'13		5 8 - 1 - 1	3621 Oct 28 15:57	0° M	
desc. node	3620 Nov 26 00:39	5° х 23′10					
max. Earth dist.	3620 Nov 30 04:26	12° ₹ '04'08	1.44376 AU	superior conj	3621 Nov 05 11:21	13°M44'32	0°50'14
evening rise	3620 Dec 10 07:47	27° ₹ 55'30		minimum elong	3621 Nov 05 15:21	14°ML01'42	0°49'42
	3620 Dec 11 16:13	ರ∘ರ		desc. node	3621 Nov 12 21:39	26°M10'26	
	3621 Jan 01 02:30	0° ≈		max. Earth dist.	3621 Nov 12 18:30	25°M57'37	1.42987 AU
evening max el	3621 Jan 07 13:09	7° ≈ 45'43	20°34'26		3621 Nov 15 06:20	0° ∡ ¹	
retrograde	3621 Jan 15 15:50	12° ≈ 32'44		evening rise	3621 Nov 19 20:16	7° ∡¹ 15'52	
asc. node	3621 Jan 15 17:31	12° ≈ 32'42			3621 Dec 04 22:52	0° ප	
evening set	3621 Jan 19 13:36	11° ≈ 04'48		evening max el	3621 Dec 21 09:41	21° る 18'08	21°46'34
inferior conj	3621 Jan 24 22:32	4° ≈ 56'09	2°43'49	retrograde	3621 Dec 30 13:03	26° る 44'27	
minimum elong	3621 Jan 24 20:01	5° ≈ 04'43	2°43'08	asc. node	3622 Jan 02 14:34	25° る 53'38	
min. Earth dist.	3621 Jan 25 13:08	4° ≈ 06'14	0.67452 AU	evening set	3622 Jan 03 21:18	25° る 01'03	
	3621 Jan 28 19:20	30°Rる		inferior conj	3622 Jan 09 05:35	18° る 43'04	2°05'57
morning rise	3621 Jan 30 02:16	28° る 42'39		minimum elong	3622 Jan 09 03:14	18°る51'14	
direct	3621 Feb 04 15:57	26° ප 14'20		min. Earth dist.	3622 Jan 09 08:16	18°る33'47	0.67886 AU
	3621 Feb 12 16:49	0°≈	24020127	morning rise	3622 Jan 14 09:00	12° る 31'15	
morning max el	3621 Feb 15 20:52	2°≈55'46	24°20'37	direct	3622 Jan 19 07:51	10° る 23'59	22051122
desc. node	3621 Feb 21 23:53	9° ≈ 52'04 0° 米		morning max el	3622 Jan 29 06:30	16°る17'33 29°る07'18	22°51'32
marning sat	3621 Mar 08 12:22 3621 Mar 23 17:46	0°π 24° ∺ 42'21		desc. node	3622 Feb 08 20:54 3622 Feb 09 12:26	29° ≈ 07′18	
morning set	3621 Mar 26 17:38	24°π42′21 0° Υ			3622 Feb 09 12:26 3622 Mar 01 13:27	0° ∺	
max. Earth dist.	3621 Mar 27 10:13	1° Υ 14'36	1.37798 AU	morning set	3622 Mar 04 15:43	5° ∺ 03'34	
max. Earth dist.	3021 Wai 27 10.13	1 11430	1.57796 AU	max. Earth dist.	3622 Mar 09 05:17	12°) 45'01	1.39968 AU
superior conj	3621 Apr 03 09:03	14° Ƴ 12'42	-1°31'52	max. Latin dist.	3022 Iviai 07 03.17	12 /(4301	1.57700 AC
minimum elong	3621 Apr 03 13:34	14° Υ 34'28	1°31'16	superior conj	3622 Mar 16 23:25	26° ¥ 29'17	-1°53'38
minimum ciong	3621 Apr 11 09:45	0° 8	1 31 10	minimum elong	3622 Mar 17 03:46	26°) (49'07	
evening rise	3621 Apr 12 02:50	1° 8 24'36		mmmum viong	3622 Mar 18 21:14	0°Υ	1 00 1,
asc. node	3621 Apr 13 16:50	4° 8 31'47		evening rise	3622 Mar 26 17:47	14° Ƴ 50'34	
evening max el	3621 Apr 28 18:09	28° 8 22'07	19°07'02	asc. node	3622 Mar 31 13:52	23° Y ′55'47	
C	3621 Apr 30 15:02	0°II			3622 Apr 04 00:25	0°8	
retrograde	3621 May 07 13:42	2° Ⅱ 39'37		evening max el	3622 Apr 11 22:03	10° 8 49'19	18°28'09
evening set	3621 May 09 15:16	2° Ⅲ 26′28		retrograde	3622 Apr 19 11:05	14° 8 32'37	
	3621 May 15 05:35	30° ₹ ႘		evening set	3622 Apr 21 19:06	14° 8 12'20	
inferior conj	3621 May 17 21:57	28° 8 14'14	0°52'31	inferior conj	3622 Apr 29 06:07	9° 8 40'57	2°16'49
minimum elong	3621 May 18 00:01	28° 8 10'42	0°51'47	minimum elong	3622 Apr 29 09:51	9° 8 33'27	2°15'47
desc. node	3621 May 20 23:02	26° 8 10'00		min. Earth dist.	3622 May 02 16:32	6° 8 57'17	0.58336 AU
min. Earth dist.	3621 May 20 21:15	26° 8 12'56	0.56453 AU	morning rise	3622 May 06 21:30	4° 8 14'01	
morning rise	3621 May 26 05:37	23° 8 19'36		desc. node	3622 May 07 20:05	3° 8 47'25	
direct	3621 May 31 06:19	22° 8 20'27		direct	3622 May 12 21:06	2° 8 41'14	
morning max el	3621 Jun 14 12:29	29° 8 39'39	25°35'32	morning max el	3622 May 27 06:29	10° 8 23'05	26°54'13
	3621 Jun 14 20:53	0°II			3622 Jun 11 08:45	0°II	
,	3621 Jul 05 11:14	0°5		morning set	3622 Jun 26 04:51	27° II 30'42	
asc. node	3621 Jul 10 16:06	10°522'44			3622 Jun 27 09:04	0ಂಲ 1136	
morning set	3621 Jul 11 19:01	12°5944'04		asc. node	3622 Jun 27 13:07	0°921'36	
superior conj	3621 Jul 18 17:52	27° © 50'24	1°15'48	superior conj	3622 Jul 03 05:39	12° © 46'16	0°56'40
minimum elong	3621 Jul 18 15:31	27°937'30	1°15'27	minimum elong	3622 Jul 03 03:31	12°934'31	0°56'17
max. Earth dist.	3621 Jul 19 17:45	0° Ω 01'18	1.32443 AU	max. Earth dist.	3622 Jul 03 04:58	12 3 3431	1.32081 AU
max. Dartii dist.	3621 Jul 19 17:31	0° N	1.52115110	evening rise	3622 Jul 10 02:23	27°941'13	1.52001 710
evening rise	3621 Jul 25 19:13	12° Ω 59'10			3622 Jul 11 04:55	0° Ω	
	3621 Aug 03 14:01	0° m			3622 Jul 28 01:17	0° m/p	
desc. node	3621 Aug 16 22:20	20° m 59'30		desc. node	3622 Aug 03 19:20	8° m ₂ 57'50	
	3621 Aug 24 09:42	0∘ ⊽		evening max el	3622 Aug 08 19:49	14° m) 20'06	26°36'40
evening max el	3621 Aug 26 17:33	2° £ 19'43	27°17'40	retrograde	3622 Aug 22 18:49	21° m/31'05	
retrograde	3621 Sep 09 13:17	9° ₽ 34'29		evening set	3622 Aug 29 13:03	19° m 35'28	
evening set	3621 Sep 16 17:21	7° £ 10'41		min. Earth dist.	3622 Sep 02 09:34	16° m 59'27	0.59968 AU
min. Earth dist.	3621 Sep 20 07:51	4° £ 21′24	0.62008 AU	inferior conj	3622 Sep 05 15:56	14° Mp 22'46	-4°43'07
inferior conj	3621 Sep 23 07:51	1° ≏ 36'49	-3°57'01	minimum elong	3622 Sep 05 20:54	14° M y 12'46	4°42'18
minimum elong	3621 Sep 23 13:40	1° ≏ 23′27	3°55'27	morning rise	3622 Sep 13 06:47	9° m 43'41	
	3621 Sep 25 03:09	30°R Mp		direct	3622 Sep 15 15:58	9° m 22'48	
morning rise	3621 Sep 30 11:43	26° M 35'56		morning max el	3622 Sep 23 05:28	13° m 04'32	18°13'01

asc. node	3622 Sep 23 12:21	13° Mp 21'25		morning max el	3623 Sep 06 09:21	25° Ω 58'36	18°53'43
	3622 Oct 04 15:40	0० ट			3623 Sep 09 22:57	0° m y	
morning set	3622 Oct 09 02:04	8° ≏ 16'06		asc. node	3623 Sep 10 09:22	0° m 34′25	
				morning set	3623 Sep 22 22:49	22° m 27'31	
superior conj	3622 Oct 18 12:46	25° £ 52'44			3623 Sep 26 18:46	0∘ ⊽	
minimum elong	3622 Oct 18 16:43 3622 Oct 20 19:53	26° ≙ 10'37 0° M	1,18,06	superior coni	3623 Oct 01 09:51	8° ≏ 58'28	1°35'54
max. Earth dist.	3622 Oct 20 19.33 3622 Oct 26 03:29	9°MJ14'02	1.41147 AU	superior conj minimum elong	3623 Oct 01 09:31 3623 Oct 01 12:22	% ⊆ 38 28	1°35'43
desc. node	3622 Oct 30 18:39	16°M56'25	1.4114/ AO	max. Earth dist.	3623 Oct 01 12:22 3623 Oct 08 08:38	21° ≏ 48'33	1.39083 AU
evening rise	3622 Oct 31 01:39	17°M24'57		evening rise	3623 Oct 12 06:11	28° £ 37'20	1.57005 110
<i>y</i>	3622 Nov 08 01:04	0° ∡ 7		<i>8</i>	3623 Oct 13 01:34	0°M	
	3622 Nov 29 15:05	ರ°0		desc. node	3623 Oct 17 15:40	7° M 36'45	
evening max el	3622 Dec 04 01:42	4° ප 53'56	23°05'18		3623 Nov 01 12:11	0° ∡ ″	
retrograde	3622 Dec 14 07:45	10° る 58'30		evening max el	3623 Nov 16 14:56	18° ∡ ³33′26	24°24'44
evening set	3622 Dec 19 04:11	8° る 58'57		retrograde	3623 Nov 27 22:42	25° ≯ 10'41	
asc. node	3622 Dec 20 11:35	7° る 44'53		evening set	3623 Dec 03 08:42	22° ₹ 55'05	
min. Earth dist.	3622 Dec 24 05:00	3°₹04'12	0.67960 AU	asc. node	3623 Dec 07 08:36	18° ≯ 28'10	
inferior conj	3622 Dec 24 13:21	2°る35'24	1°21'02	min. Earth dist.	3623 Dec 08 00:58	17° 🗷 34'02	0.67682 AU
minimum elong	3622 Dec 24 11:37	2°る41'25	1°20'21	inferior conj	3623 Dec 08 20:03 3623 Dec 08 19:19	16° ₹ 30'07	0°30'10
morning rise	3622 Dec 26 11:32 3622 Dec 29 18:56	30°₹ ҂ 26° ҂ 27'10		minimum elong morning rise	3623 Dec 14 06:00	16° ₹ 32'34 10° ₹ 27'39	0°29'52
direct	3623 Jan 03 03:20	24° 🖈 42'44		direct	3623 Dec 14 00:00 3623 Dec 18 01:07	9°×705'12	
morning max el	3623 Jan 11 20:48	29° х 47'51	21°26'38	morning max el	3623 Dec 25 18:35	13°×729'39	20°12'21
morning man er	3623 Jan 12 01:36	0°ਰ	21 2000	morning man er	3624 Jan 07 12:28	0° る	20 1221
desc. node	3623 Jan 26 17:55	18° る 53'46		desc. node	3624 Jan 13 14:57	9° る 02'37	
	3623 Feb 03 06:32	0°≈		morning set	3624 Jan 22 06:15	22° る 13'09	
morning set	3623 Feb 12 08:43	14° ≈ 02'51			3624 Jan 27 06:08	0° ≈	
max. Earth dist.	3623 Feb 19 05:37	25° ≈ 08′27	1.42047 AU	max. Earth dist.	3624 Feb 01 14:12	8° ≈ 27'46	1.43745 AU
	3623 Feb 22 03:44	0° ∀					
				superior conj	3624 Feb 07 09:46	17° ≈ 54'10	
superior conj	3623 Feb 26 17:09	7°) (46′14		minimum elong	3624 Feb 07 06:07	17°≈39'09	2°03'38
minimum elong	3623 Feb 26 18:53	7°) 53'46	2°05'59		3624 Feb 14 15:13	0°) (33114	
evening rise	3623 Mar 09 19:46	27° ¥ 36′12 0° Ƴ		evening rise	3624 Feb 20 04:32	9°) 33'14 0° Υ	
asc. node	3623 Mar 11 03:21 3623 Mar 18 10:52	12° Υ 54'48		asc. node	3624 Mar 03 09:42 3624 Mar 04 07:53	1° Υ 21'06	
evening max el	3623 Mar 26 07:53	23° Y 43'32	18°09'11	evening max el	3624 Mar 08 20:22	6°Υ55'52	18°09'31
retrograde	3623 Apr 02 02:13	27° Υ 09'11	10 07 11	retrograde	3624 Mar 15 07:04	10° Υ 19'12	10 0, 51
evening set	3623 Apr 04 16:41	26° Ƴ 39'13		evening set	3624 Mar 18 03:18	9° Y 38'14	
inferior conj	3623 Apr 11 10:47	21° Y 46'56	3°08'50	inferior conj	3624 Mar 24 08:25	4° Y 25'43	3°33'31
minimum elong	3623 Apr 11 13:41	21° Y 40'10	3°08'19	minimum elong	3624 Mar 24 09:34	4° Y 22'41	3°33'27
min. Earth dist.	3623 Apr 14 17:47	18° Y 44'36	0.60500 AU	min. Earth dist.	3624 Mar 27 03:27	1° Y 29'14	0.62618 AU
morning rise	3623 Apr 18 08:31	15° Ƴ 57'34			3624 Mar 28 16:14	30° ₹ ₩	
direct	3623 Apr 24 23:54	13° Y 49'46		morning rise	3624 Mar 30 14:37	28°) 22'59	
desc. node	3623 Apr 24 17:07	13° Y 50′00	27040157	direct	3624 Apr 06 12:06	25°) (48'04	
morning max el	3623 May 09 06:37	21° Υ 43'23	27°40'57	desc. node	3624 Apr 10 14:09	26° ★ 36′24	
	3623 May 16 12:16 3623 Jun 04 08:50	0°B 8°0		marning may al	3624 Apr 16 07:30	0°Υ 3°Υ45'58	27950122
morning set	3623 Jun 10 11:11	0 H 12°H04'40		morning max el	3624 Apr 20 12:34 3624 May 10 01:42	0° 8	27 30 22
asc. node	3623 Jun 14 10:08	20° I I27'26		morning set	3624 May 24 11:58	26° 8 19'26	
max. Earth dist.	3623 Jun 16 16:17		1.32123 AU		3624 May 26 07:07	0°Щ	
				max. Earth dist.	3624 May 29 23:47	7° Ⅱ 47'04	1.32576 AU
superior conj	3623 Jun 17 16:55	27° Ⅲ 37'14	0°33'56	asc. node	3624 May 31 07:11	10° Ⅲ 36′01	
minimum elong	3623 Jun 17 15:27	27° Ⅲ 29′13	0°33'37				
	3623 Jun 18 18:52	0 \circ \odot		superior conj	3624 Jun 01 01:56	12° Ⅱ 17'36	0°08'13
evening rise	3623 Jun 24 12:52	12° © 30'31		minimum elong	3624 Jun 01 01:33	12° Ⅱ 15′28	0°08'07
	3623 Jul 03 08:56	$0^{\circ}\Omega$		behind sun begin	3624 May 31 21:02	11° ∏ 51'01	
evening max el	3623 Jul 21 14:47	25° Ω 32'39	25°25'07	behind sun end	3624 Jun 01 06:03	12° Ⅲ 39'56	
desc. node	3623 Jul 21 16:22	25° Ω 36'24		evening rise	3624 Jun 08 00:41	27° Ⅱ 20′28	
ratrograda	3623 Jul 27 06:12	0°M) 2°M,38!26			3624 Jun 09 06:57	0.ರ 0.ತಿ	
retrograde evening set	3623 Aug 04 14:14 3623 Aug 10 09:42	2° Mp 38'26 1° Mp 20'04		evening max el	3624 Jun 26 17:37 3624 Jul 02 04:19	0°Ω 6°Ω07'44	23°53'20
evening set	3623 Aug 10 09.42 3623 Aug 12 23:45	1 11/2004 30°RΩ		desc. node	3624 Jul 07 13:23	10° Ω 24'25	45 J3 4V
min. Earth dist.	3623 Aug 15 02:42		0.57934 AU	retrograde	3624 Jul 15 21:43	10 82 24 23	
inferior conj	3623 Aug 18 05:31	26° Ω 29'54		evening set	3624 Jul 20 07:06	12° Ω 19'17	
minimum elong	3623 Aug 18 06:49	26° Ω 27'40		min. Earth dist.	3624 Jul 26 14:38	9° Ω 17'21	0.56198 AU
morning rise	3623 Aug 26 06:14	22° Ω 13'31		inferior conj	3624 Jul 28 22:54	7° Ω 51'42	-4°55'16
direct	3623 Aug 28 18:47	21° Q 54'03		minimum elong	3624 Jul 28 18:18	7° Ω 58'45	4°54'45

	2624 4 06 00 05	20 0 5 412 5			2625 1 1 17 15 04	1.40€40100	
morning rise	3624 Aug 06 08:05	3° Ω 54'25		morning rise	3625 Jul 17 15:04	14°9540'23	
direct	3624 Aug 09 02:20	3° Ω 34'56		direct	3625 Jul 20 16:55	14° © 19'07	
morning max el	3624 Aug 19 02:54	8° Ω 14'10	19°56'04	morning max el	3625 Aug 01 08:45	19° © 45'04	21°19'06
asc. node	3624 Aug 27 06:25	18° Ω 40'10			3625 Aug 09 16:24	0 \circ Ω	
	3624 Sep 02 14:18	0° m p		asc. node	3625 Aug 14 03:29	7° Ω 25'46	
morning set	3624 Sep 06 02:37	6° Mp 59′27		morning set	3625 Aug 21 10:59	21° Ω 44'32	
					3625 Aug 25 09:37	O°Mp	
superior conj	3624 Sep 13 21:24	22° m 47'15	1°43'44				
minimum elong	3624 Sep 13 22:12	22° Mp 51'14	1°43'43	superior conj	3625 Aug 28 19:09	7° Mg 06′22	1°43'39
	3624 Sep 17 13:32	0∘ ⊽		minimum elong	3625 Aug 28 18:28	7° ™ 02'47	1°43'38
max. Earth dist.	3624 Sep 19 13:49	3° ჲ 50′24	1.37050 AU	max. Earth dist.	3625 Sep 02 00:21	15° m 41'49	1.35256 AU
evening rise	3624 Sep 23 09:02	10° £ 51'27		evening rise	3625 Sep 06 06:14	23° m 57'34	
desc. node	3624 Oct 03 12:41	28° £ 06'59		Č	3625 Sep 09 12:22	0° <u>ٽ</u>	
	3624 Oct 04 17:10	0°M		desc. node	3625 Sep 20 09:43	18° Ω 21'49	
	3624 Oct 26 22:19	0° ∡ 7		***************************************	3625 Sep 28 07:32	0°M	
evening max el	3624 Oct 29 03:12	2° × 15'08	25°37'54	evening max el	3625 Oct 11 15:35	15°M54'29	26°37'22
retrograde	3624 Nov 10 09:10	9°×716'13	23 37 34	retrograde	3625 Oct 24 14:36	23°M09'05	20 37 22
evening set	3624 Nov 16 09:09	6°×746'28		evening set	3625 Oct 31 03:38	20°M29'37	
min. Earth dist.		2°×100'22	0.67054 AU	min. Earth dist.		16°M19'20	0.66076 AU
	3624 Nov 20 17:48				3625 Nov 04 05:17		
inferior conj	3624 Nov 21 23:53	0° ₹ 24'26		inferior conj	3625 Nov 05 22:55	14°M15'12	
minimum elong	3624 Nov 22 00:32	0° ₹ 22'19	0°25'15	minimum elong	3625 Nov 06 01:15		1°23'47
_	3624 Nov 22 07:33	30°RM		asc. node	3625 Nov 10 02:42	9° ™ 49'44	
asc. node	3624 Nov 23 05:39	28°M50'45		morning rise	3625 Nov 11 23:34	8°M31'40	
morning rise	3624 Nov 27 16:15	24°M30'08		direct	3625 Nov 14 21:30	7° M 44'09	
direct	3624 Nov 30 23:45	23°M27'00		morning max el	3625 Nov 21 12:17	11° M 20'41	18°27'54
morning max el	3624 Dec 08 00:17	27°M22'02	19°12'12		3625 Dec 04 19:40	0° ∡ 7	
	3624 Dec 10 09:41	0° ∡ ¹		morning set	3625 Dec 11 10:43	10° ∡ ³35'52	
greatest brilliancy	3624 Dec 22 11:07	17° ∡ ¹03'17	-0.7m	desc. node	3625 Dec 17 09:00	20° ∡ ¹03'37	
desc. node	3624 Dec 30 11:59	29° ∡ ¹27'29			3625 Dec 23 15:53	0° ろ	
	3624 Dec 30 20:21	0°ප					
morning set	3624 Dec 31 08:05	0° る 45'34		superior conj	3625 Dec 27 04:02	5° る 30'35	-1°03'26
max. Earth dist.	3625 Jan 14 05:19	22° る 27'28	1.44848 AU	minimum elong	3625 Dec 26 20:17	5° る 00'12	1°02'30
				max. Earth dist.	3625 Dec 27 23:46	6° ප 48'01	1.45241 AU
superior conj	3625 Jan 17 01:34	26° る 57'14	-1°42'30		3626 Jan 11 18:01	0° ≈	
minimum elong	3625 Jan 16 16:53	26° る 22'50		evening rise	3626 Jan 12 04:10	0°≈40'05	
minimum ciong	3625 Jan 18 23:33	0°≈	1 41 40	greatest brilliancy	3626 Jan 21 22:05	16°≈01'54	-0.8m
evening rise	3625 Jan 31 15:59	0 ~ 20° ≈ 34'46		greatest billiancy	3626 Jan 31 11:52	0°) €	-0.0111
evening rise	3625 Feb 06 08:58	20 ≈ 34 40			3626 Feb 03 18:19	3° ¥ 48'03	19°05'13
		0 X 19° ¥ 04'29		evening max el		5° X 52'51	19 03 13
asc. node	3625 Feb 19 04:56	, , , ,	10020121	asc. node	3626 Feb 06 02:00		
evening max el	3625 Feb 20 08:37	20°) 18'54	18°28'31	retrograde	3626 Feb 10 16:27	7°) (43'39	
retrograde	3625 Feb 26 21:04	23°) 52′54		evening set	3626 Feb 14 00:59	6°) (38′12	
evening set	3625 Mar 01 23:03	23° ₭ 00'08		inferior conj	3626 Feb 19 14:46	0°) 50'45	
inferior conj	3625 Mar 07 18:58	17° ∺ 29'06	3°37'21	minimum elong	3626 Feb 19 13:02	0° ¥ 56′15	3°25'19
minimum elong	3625 Mar 07 18:26	17° ∺ 30'40	3°37'20		3626 Feb 20 06:42	30° ₹ ≈	
min. Earth dist.	3625 Mar 09 22:46	14° ∺ 57'18	0.64478 AU	min. Earth dist.	3626 Feb 21 03:12	28° ≈ 55'09	0.65963 AU
morning rise	3625 Mar 13 13:10	11° ₩ 19'13		morning rise	3626 Feb 25 00:44	24° ≈ 37'41	
direct	3625 Mar 20 08:15	8°) (30′05		direct	3626 Mar 03 11:15	21° ≈ 47'59	
desc. node	3625 Mar 28 11:12	11°) (40′07		desc. node	3626 Mar 15 08:15	28° ≈ 26'45	
morning max el	3625 Apr 02 21:58	16° ¥ 23'57	27°23'40	morning max el	3626 Mar 16 07:57	29° ≈ 25'16	26°27'10
	3625 Apr 14 03:55	0 ° Υ			3626 Mar 16 21:33	0°) €	
	3625 May 02 20:26	$B_{\circ 0}$			3626 Apr 08 00:40	$0^{\circ}\mathbf{\Upsilon}$	
morning set	3625 May 08 04:28	10° 8 05'47		morning set	3626 Apr 21 09:10	23° Y 13'47	
max. Earth dist.	3625 May 12 23:21	19° 8 44'16	1.33466 AU	•	3626 Apr 24 21:49	0°8	
	•			max. Earth dist.	3626 Apr 25 11:44	1° 8 08'17	1.34823 AU
superior conj	3625 May 16 06:45	26° 8 40'16	-0°19'43		r	<u> </u>	
minimum elong	3625 May 16 07:45	26° 8 45'36		superior conj	3626 Apr 30 05:07	10° 8 39'21	-0°48'37
	3625 May 17 20:16	0°II	- 	minimum elong	3626 Apr 30 07:41	10° 8 52'34	
asc. node	3625 May 17 20:10 3625 May 18 04:13	0° П 42'31		asc. node	3626 May 05 01:17	20° 8 43'16	0 .507
evening rise	3625 May 23 11:56	12° Ⅱ 03'39		evening rise	3626 May 07 20:44	26° 8 34'28	
evening 1150		0°9		evening 1150	-	20 Ο 34 28	
ovenina mar1	3625 Jun 01 16:53		22016142	ovening mass -1	3626 May 09 12:47		20040100
evening max el	3625 Jun 13 19:07	16°532'54	22 1043	evening max el	3626 May 26 18:56	27° Ⅱ 21'03	20°49'09
desc. node	3625 Jun 24 10:25	22°545'44		, ,	3626 May 29 22:11	0°©	
retrograde	3625 Jun 26 17:27	22°557'53		retrograde	3626 Jun 07 06:21	2°957'30	
evening set	3625 Jun 29 16:09	22°538'40		evening set	3626 Jun 09 08:52	2°546'55	
min. Earth dist.	3625 Jul 08 01:19	19° © 01'40	0.55088 AU	desc. node	3626 Jun 11 07:28	2° © 19'33	
inferior conj	3625 Jul 08 23:00	18° © 31'05			3626 Jun 16 14:02	30°Ŗ Ⅱ	
minimum elong	3625 Jul 08 14:38	18° © 42'54	3°51'49	inferior conj	3626 Jun 18 16:20	28° ∏ 49'32	-2°09'00

minimum elong	3626 Jun 18 10:21	28° Ⅱ 58'04	2°06'54	evening set	3627 May 20 23:46	13° Ⅱ 21'37	
min. Earth dist.	3626 Jun 19 13:14	28° I I19'46	0.54880 AU	desc. node	3627 May 20 23:40 3627 May 29 04:28	9° I I38'54	
morning rise	3626 Jun 27 11:27	24° I I45'33	0.54000 AC	inferior conj	3627 May 29 17:33	9° Ⅱ 18′25	-0°09'38
direct	3626 Jul 01 02:09	24° I 17'25		minimum elong	3627 May 29 17:07	9° Ⅱ 19'05	0°09'29
uncet	3626 Jul 13 13:14	0°95		transit middle	3627 May 29 17:07	9° Ⅱ 19'05	0°09'29
morning max el	3626 Jul 14 04:21	0°534'33	22°57'29	transit begin	3627 May 29 13:57	9° ∏ 24'03	0 0 2
asc. node	3626 Aug 01 00:32	26°5941'12		transit end	3627 May 29 20:17	9° Ⅱ 14'07	
	3626 Aug 02 16:48	$0^{\circ}\Omega$		min. Earth dist.	3627 Jun 01 02:54	7° Ⅱ 48'36	0.55639 AU
morning set	3626 Aug 05 21:55	6° Ω 36'53		morning rise	3627 Jun 07 07:57	4° Ⅱ 44'37	
-				direct	3627 Jun 11 19:12	4° Ⅱ 00′03	
superior conj	3626 Aug 12 23:47	21° Ω 45′24	1°37'01	morning max el	3627 Jun 25 18:35	11° II 00'10	24°40'21
minimum elong	3626 Aug 12 22:03	21° Ω 36′11	1°36'54		3627 Jul 10 03:34	0 \circ \odot	
max. Earth dist.	3626 Aug 15 19:39	27° Ω 44′23	1.33837 AU	asc. node	3627 Jul 18 21:34	16° © 18'52	
	3626 Aug 16 21:43	0° m ∕		morning set	3627 Jul 21 09:43	21° © 31'41	
evening rise	3626 Aug 20 17:23	7° ™ 43'48			3627 Jul 25 08:07	$0^{\circ}\Omega$	
	3626 Sep 02 01:04	0∘ ত					
desc. node	3626 Sep 07 06:45	8° £ 13'51		superior conj	3627 Jul 28 08:48	6° Ω 36'40	1°24'56
evening max el	3626 Sep 24 03:51	29° ഫ 22'28	27°15'44	minimum elong	3627 Jul 28 06:32	6° Ω 24'19	1°24'39
	3626 Sep 24 19:52	0°M₊		max. Earth dist.	3627 Jul 29 23:37	10° Ω 07'27	1.32834 AU
retrograde	3626 Oct 07 14:19	6° M 40'54		evening rise	3627 Aug 04 14:41	21° Ω 59'26	
evening set	3626 Oct 14 13:39	3°M59'16			3627 Aug 08 15:36	0°Щ	
min. Earth dist.	3626 Oct 18 09:07		0.64750 AU	desc. node	3627 Aug 25 03:46	27° m 33'33	
	3626 Oct 18 18:06	30°R Ω			3627 Aug 26 22:00	0∘ ⊽	
inferior conj	3626 Oct 20 14:53	27° £ 57'16		evening max el	3627 Sep 06 14:25	12° £ 27'10	27°26'15
minimum elong	3626 Oct 20 18:57	27° £ 46'09	2°24'05	retrograde	3627 Sep 20 07:32	19° £ 43'11	
morning rise	3626 Oct 27 01:20	22° Ω 27'28		evening set	3627 Sep 27 12:06	17° Ω 09'37	0.62002.411
asc. node	3626 Oct 27 23:46	22° £ 06'31		min. Earth dist.	3627 Oct 01 03:19	14° £ 05'53	0.63093 AU
direct	3626 Oct 29 16:09 3626 Nov 05 03:57	21° £ 51'36 25° £ 18'48	18°00'20	inferior conj	3627 Oct 03 21:04 3627 Oct 04 02:32	11° ≙ 24'37 11° ≙ 11'12	
morning max el	3626 Nov 09 01:56	0°M	18 00 20	minimum elong morning rise	3627 Oct 04 02.32 3627 Oct 10 18:24	6° £ 11'54	3 23 20
morning set	3626 Nov 22 18:40	21°M52'56		direct	3627 Oct 10 18:24 3627 Oct 13 04:47	5° £ 44'05	
morning set	3626 Nov 27 15:40	0° x ⁷		asc. node	3627 Oct 13 04:47 3627 Oct 14 20:47	5° £ 57'27	
desc. node	3626 Dec 04 06:01	10° × ⁷ 46'42		morning max el	3627 Oct 14 20:47 3627 Oct 19 20:26	9° ⊆ 10'04	17°50'25
dese. Hode	3020 BCC 01 00.01	10 % 10 12		morning max or	3627 Nov 02 15:37	0° M .	17 30 23
superior conj	3626 Dec 06 13:40	14° ∡ °30'15	-0°15'50	morning set	3627 Nov 05 03:10	4°M21'19	
minimum elong	3626 Dec 06 11:44	14° ≯ 22'30	0°15'33	Č			
behind sun begin	3626 Dec 06 08:47	14° ∡ 10'44		superior conj	3627 Nov 16 22:29	24°M39'31	0°28'46
behind sun end	3626 Dec 06 14:40	14° ∡ ³34'15		minimum elong	3627 Nov 17 01:17	24°M51'13	0°28'23
max. Earth dist.	3626 Dec 10 18:38	21° ₹ 11′24	1.44897 AU		3627 Nov 20 04:05	0°⊀	
	3626 Dec 16 09:31	0°ರ		desc. node	3627 Nov 21 03:03	1° х 33′46	
evening rise	3626 Dec 22 20:44	10° ප 01'10		max. Earth dist.	3627 Nov 23 11:39	5° ≯ 22'43	1.43863 AU
	3627 Jan 04 23:40	0° ≈		evening rise	3627 Dec 02 06:06	19° ∡ 11′05	
greatest brilliancy	3627 Jan 06 00:42	1° ≈ 32'48	-0.6m		3627 Dec 09 08:26	0°ප	
evening max el	3627 Jan 17 23:35	17° ≈ 19′23	19°57'57		3627 Dec 31 03:38	0° ≈	
asc. node	3627 Jan 23 23:04	21° ≈ 31′00		evening max el	3627 Dec 31 23:27	0° ≈ 52'01	21°03'58
retrograde	3627 Jan 25 14:10	21° ≈ 45′26		retrograde	3628 Jan 09 12:01	5°≈54'52	
evening set	3627 Jan 29 06:38	20° ≈ 26′08		asc. node	3628 Jan 10 20:05	5° ≈ 45'05	
inferior conj	3627 Feb 03 16:46	14°≈24'38	3°01'50	evening set	3628 Jan 13 14:05	4°≈20'27	
minimum elong	3627 Feb 03 14:23	14°≈32'35	3°01'18		3628 Jan 17 13:32	30°R₹	2020120
min. Earth dist.	3627 Feb 04 14:58	13°≈10'18	0.67033 AU	inferior conj	3628 Jan 18 22:34	28°る07'38	
morning rise	3627 Feb 08 21:55	8°≈10'51 5°≈32'10		minimum elong min. Earth dist.	3628 Jan 18 20:04 3628 Jan 19 07:59	28°る16'14 27°る35'13	0.67695 AU
direct morning max el	3627 Feb 14 19:56 3627 Feb 26 16:44	3 ≈32 10 12°≈37'30	25910104	morning rise	3628 Jan 24 01:53	21° る 54'49	0.67693 AU
desc. node	3627 Mar 02 05:15	12 ≈3730 16°≈26'36	23 10 04	direct	3628 Jan 29 09:23	19° る 34'56	
desc. node	3627 Mar 12 16:58	10 ≈ 20 30		morning max el	3628 Feb 09 01:16	19 3 3430 25° る 55'51	230/12/35
	3627 Mar 31 18:40	0° Υ		morning max cr	3628 Feb 12 18:40	0°≈	23 42 33
morning set	3627 Apr 03 21:19	5° Υ 29'33		desc. node	3628 Feb 17 02:16	5°≈18'51	
max. Earth dist.	3627 Apr 07 12:56	12° Υ 10'16	1.36616 AU	and	3628 Mar 05 06:24	0° ∺	
and the state of t		1010		morning set	3628 Mar 15 10:53	16°) 36'37	
superior conj	3627 Apr 13 18:09	24° Y 06'54	-1°16'52	max. Earth dist.	3628 Mar 19 08:23	23° H 22'07	1.38720 AU
minimum elong	3627 Apr 13 22:09	24° Υ 26'36			3628 Mar 23 01:03	0° Υ	
	3627 Apr 16 16:58	0°8	-			•	
asc. node	3627 Apr 21 22:21	10° 8 34'00		superior conj	3628 Mar 26 18:08	6° Ƴ 52'54	-1°41'57
evening rise	3627 Apr 22 00:48	10° 8 46'23		minimum elong	3628 Mar 26 22:47	7° Ƴ 14'52	
-	3627 May 02 10:18	0° I I		evening rise	3628 Apr 04 21:29	24° Y 31'45	
evening max el	3627 May 09 06:58	8° Ⅱ 49'06	19°38'39	asc. node	3628 Apr 07 19:23	0° 8 09'27	
retrograde	3627 May 19 00:20	13° Ⅲ 32′27			3628 Apr 07 17:24	0°8	

evening max el retrograde	3628 Apr 21 05:55 3628 Apr 29 10:49	20° ප් 56'35 24° ප් 57'21	18°48'00	evening max el retrograde	3629 Apr 04 12:43 3629 Apr 11 16:29	3° 8 36'26 7° 8 10'38	18°17'37
evening set	3628 May 01 15:11	24° 8 41'25		evening set	3629 Apr 14 03:15	6° 8 46'30	
inferior conj	3628 May 09 13:17	20° 8 21'14	1°32'20	inferior conj	3629 Apr 21 06:34	2° 8 05'55	2°42'37
minimum elong	3628 May 09 16:27	20° 8 15'24	1°31'18	minimum elong	3629 Apr 21 10:09	1° 8 58'13	2°41'47
min. Earth dist.	3628 May 12 19:17	17° 8 59'44	0.57198 AU		3629 Apr 23 17:15	30° ₹Ƴ	
desc. node	3628 May 15 01:29	16° 8 31'31		min. Earth dist.	3629 Apr 24 16:47	29° Ƴ 11'21	0.59239 AU
morning rise	3628 May 17 14:33	15° 8 12'16		morning rise	3629 Apr 28 14:21	26° Y 27′59	
direct	3628 May 23 01:38	13° 8 59'49		desc. node	3629 May 01 22:30	25° Y ′04'03	
morning max el	3628 Jun 06 09:50	21° 8 29'19	26°12'25	direct	3629 May 04 21:31	24° Y 40′13	
	3628 Jun 13 20:07	0° I			3629 May 16 13:46	0° 8	25010125
	3628 Jul 01 18:36	0.20 0.20		morning max el	3629 May 19 06:35	2° 8 28'01	2/018/3/
morning set	3628 Jul 04 20:44 3628 Jul 04 18:36	6°\$22'50 6°\$11'34			3629 Jun 08 05:15 3629 Jun 19 05:19	0°П 21°П05'06	
asc. node	3028 Jul 04 18.30	0 3911 34		morning set asc. node	3629 Jun 21 15:39	26° I I14'13	
superior conj	3628 Jul 11 20:03	21° © 32'18	1°08'11	asc. node	3629 Jun 23 09:22	0°9	
minimum elong	3628 Jul 11 17:44	21°5216	1°07'47		302) Juli 23 07.22	~~	
max. Earth dist.	3628 Jul 12 09:22	22° © 45'33	1.32242 AU	superior conj	3629 Jun 26 07:49	6° © 26'42	0°47'26
	3628 Jul 15 16:54	0°Ω		minimum elong	3629 Jun 26 05:55	6°9516'14	0°47'03
evening rise	3628 Jul 18 18:59	6° Ω 33'59		max. Earth dist.	3629 Jun 25 21:12	5° © 28'12	1.32050 AU
-	3628 Jul 31 04:28	0° m)		evening rise	3629 Jul 03 03:48	21° © 19'47	
desc. node	3628 Aug 11 00:48	16° Mp 06'35			3629 Jul 07 09:02	$0^{\circ}\Omega$	
evening max el	3628 Aug 18 20:23	24° m 53'30	27°04'18		3629 Jul 25 20:34	0° ™	
	3628 Aug 25 13:12	0∘ ⊽		desc. node	3629 Jul 28 21:48	3° m 34'01	
retrograde	3628 Sep 01 17:19	2° ≏ 05'47		evening max el	3629 Jul 31 19:20	6° Mp 32′14	26°09'24
evening set	3628 Sep 08 18:51	29° m 52'32		retrograde	3629 Aug 14 18:44	13° m 41'38	
	3628 Sep 08 13:57	30°R Mp		evening set	3629 Aug 21 05:11	12° Mp 00'48	
min. Earth dist.	3628 Sep 12 10:40	27° Tp 10'59	0.61160 AU	min. Earth dist.	3629 Aug 25 08:04	9° m 25'27	0.59089 AU
inferior conj	3628 Sep 15 14:10	24° m 27'50		inferior conj	3629 Aug 28 14:41	6° Mp 57'41	
minimum elong morning rise	3628 Sep 15 19:55 3628 Sep 22 22:47	24° Mp 15'21 19° Mp 35'49	4°17'06	minimum elong morning rise	3629 Aug 28 18:29 3629 Sep 05 09:58	6° Mp 50'31 2° Mp 28'42	4°56'31
direct	3628 Sep 25 07:40	19°M) 13'01		direct	3629 Sep 07 20:18	2° my 08'39	
asc. node	3628 Sep 30 17:48	21° mg 17'27		morning max el	3629 Sep 15 19:13	5° mp 58'18	18°27'48
morning max el	3628 Oct 02 10:35	22° Mp 46'00	17°59'09	asc. node	3629 Sep 17 14:50	7° m 53'34	10 27 10
	3628 Oct 08 02:35	0∘ ʊ	-, -, -,		3629 Oct 01 00:53	0∘ ⊽	
morning set	3628 Oct 18 05:39	17° ≏ 40'36		morning set	3629 Oct 01 20:52	1° ≏ 35'51	
	3628 Oct 24 23:27	0° M.					
				superior conj	3629 Oct 10 20:28	18° ≏ 41'28	1°27'11
superior conj	3628 Oct 28 10:01	6°M06'59	1°03'39	minimum elong	3629 Oct 10 23:54	18° ≏ 57'22	1°26'50
minimum elong	3628 Oct 28 14:16	6°M25'36	1°03'06		3629 Oct 17 03:07	0° M	
max. Earth dist.	3628 Nov 05 00:09	19° M .03'47	1.42252 AU	max. Earth dist.	3629 Oct 18 07:02	2°M01'26	1.40275 AU
desc. node	3628 Nov 07 00:05	22°M20'59		evening rise	3629 Oct 22 15:14	9°M23'14	
evening rise	3628 Nov 11 00:24	28°M48'50		desc. node	3629 Oct 24 21:06	13°M04'51	
	3628 Nov 11 18:22	0°⋜		avaning may al	3629 Nov 04 18:16	0° ₰ 28° ₰ 02'29	22020122
evening max el	3628 Dec 02 00:24 3628 Dec 13 17:54	0 る 14° る 25'58	22°19'30	evening max el	3629 Nov 26 08:18 3629 Nov 28 10:08	28 x・02 29	23 39 23
retrograde	3628 Dec 23 08:18	14 3 2338 20° る 08'35	22 1930	retrograde	3629 Dec 07 01:40	0 0 4° る 22'31	
evening set	3628 Dec 27 21:40	18° ප 18'06		evening set	3629 Dec 12 03:46	2°る15'49	
asc. node	3628 Dec 27 17:04	18° る 27'19		3	3629 Dec 14 09:12	30°R. ✓	
inferior conj	3629 Jan 02 06:09	11° る 57'16	1°47'40	asc. node	3629 Dec 14 14:05	29° х 45′34	
minimum elong	3629 Jan 02 04:01	12° る 04'43	1°46'54	min. Earth dist.	3629 Dec 17 00:40	26° ₹ 35'19	0.67878 AU
min. Earth dist.	3629 Jan 02 03:59	12° る 04'48	0.67966 AU	inferior conj	3629 Dec 17 13:41	25° ₹ 50'54	1°00'08
morning rise	3629 Jan 07 10:14	5° る 47'00		minimum elong	3629 Dec 17 12:19	25° ₹ 55'33	0°59'35
direct	3629 Jan 12 02:50	3°₹49'35		morning rise	3629 Dec 22 20:52	19° ∡ ⁴44'54	
morning max el	3629 Jan 21 12:36	9° පි 21'35	22°14'30	direct	3629 Dec 26 23:19	18° ≯ 10'18	
desc. node	3629 Feb 02 23:18	24° ප් 48'50		morning max el	3630 Jan 04 06:01	22° ₹ 57'13	20°53'32
	3629 Feb 06 15:07	0° ≈			3630 Jan 10 06:57	0°る	
morning set	3629 Feb 23 20:30	26°≈22'40		desc. node	3630 Jan 20 20:20	14°₹45'39	
may Forth dist	3629 Feb 26 01:43	0° \ 5° \ 16'20	1 //0905 / 111	morning set	3630 Jan 30 23:05	0°≈ 4°≈55'00	
max. Earth dist.	3629 Mar 01 05:43	5° ∺ 16′20	1.40885 AU	morning set max. Earth dist.	3630 Feb 03 03:09 3630 Feb 11 09:26	4°≈55'00 18°≈04'19	1.42826 AU
superior conj	3629 Mar 09 00:24	18°) 45′58	-2°00'19	max. Lattii üist.	3030100 11 07.20	10 20419	1.7404U AU
minimum elong	3629 Mar 09 04:00	19°) (02'02		superior conj	3630 Feb 18 07:51	29° ≈ 34'10	-2°07'10
	3629 Mar 15 04:21	0°Υ	2 00 00	minimum elong	3630 Feb 18 07:35	29°≈33'01	
evening rise	3629 Mar 19 07:29	7° Υ 42'27		***************************************	3630 Feb 18 13:57	0° ∀	
asc. node	3629 Mar 25 16:24	19° Y ′24′06		evening rise	3630 Mar 02 02:45	20°) €08'48	
	3629 Apr 01 09:48	0°8		-	3630 Mar 07 16:03	$0^{\circ}\mathbf{\Upsilon}$	

asc. node	3630 Mar 12 13:26	8° Ƴ 10'31		evening rise	3631 Feb 12 02:55	1° ¥ 42'50	
evening max el	3630 Mar 19 00:02	16° Y 39'16	18°06'57	asc. node	3631 Feb 27 10:28	26°₩20'05	
retrograde	3630 Mar 25 14:04	20° Υ '02'29		evening max el	3631 Mar 02 12:49	29°) 57'19	18°15'22
evening set	3630 Mar 28 06:54	19° Y ′28′07		<i>y</i>	3631 Mar 02 13:54	0°Υ	
inferior conj	3630 Apr 03 19:01	14° Y 27'13	3°22'13	retrograde	3631 Mar 08 23:12	3° Y 23′29	
minimum elong	3630 Apr 03 21:13	14° Ƴ 21'49	3°21'56	evening set	3631 Mar 11 21:49	2° Y 37'40	
min. Earth dist.	3630 Apr 06 21:42	11° Y ′24'18	0.61419 AU		3631 Mar 15 08:56	30° ₹ ₩	
morning rise	3630 Apr 10 09:44	8° Y 30'52		inferior conj	3631 Mar 17 22:39	27°) (17′21	3°37'18
direct	3630 Apr 17 04:44	6° Ƴ 09'59		minimum elong	3631 Mar 17 23:02	27°) 16′16	3°37'17
desc. node	3630 Apr 18 19:32	6° Ƴ 17'30		min. Earth dist.	3631 Mar 20 11:31	24° ∺ 29′13	0.63458 AU
morning max el	3630 May 01 09:36	14° Ƴ 07'16	27°49'31	morning rise	3631 Mar 23 23:17	21° ∺ 11′02	
	3630 May 14 04:15	0°8		direct	3631 Mar 30 20:52	18° ∺ 27'58	
	3630 May 31 15:40	Π $^{\circ}0$		desc. node	3631 Apr 05 16:35	20° 米 06′20	
morning set	3630 Jun 03 09:36	5° Ⅱ 31'50		morning max el	3631 Apr 13 17:13	26° ∺ 25'39	27°42'56
asc. node	3630 Jun 08 12:42	16° Ⅱ 21'46			3631 Apr 17 01:11	0° Υ	
max. Earth dist.	3630 Jun 09 07:16	18° Ⅱ 02'22	1.32260 AU		3631 May 07 18:18	$0^{\circ}S$	
				morning set	3631 May 18 07:14	19° 8 35'29	
superior conj	3630 Jun 10 18:22	21° Ⅱ 13'47	0°23'19		3631 May 23 08:42	Π °0	
minimum elong	3630 Jun 10 17:18	21° Ⅱ 08'01	0°23'06	max. Earth dist.	3631 May 23 11:36	0° Ⅱ 15′20	1.32898 AU
	3630 Jun 14 18:29	0°छ					
evening rise	3630 Jun 17 15:04	6° © 09'45		superior conj	3631 May 26 01:53	5° Ⅱ 47'31	
	3630 Jun 30 03:35	0 $^{\circ}\Omega$		minimum elong	3631 May 26 02:03	5° Ⅱ 48'25	0°03'25
evening max el	3630 Jul 13 11:20	17° Ω 25'56	24°47'42	behind sun begin	3631 May 25 20:51	5° Ⅱ 20'28	
desc. node	3630 Jul 15 18:49	19° Ω 29'40		behind sun end	3631 May 26 07:15	6° Ⅱ 16'23	
retrograde	3630 Jul 27 09:49	24° Ω 29'01		asc. node	3631 May 26 09:46	6° Ⅱ 29'58	
evening set	3630 Aug 01 15:33	23° Ω 26'51		evening rise	3631 Jun 02 02:53	20° Ⅱ 57'25	
min. Earth dist.	3630 Aug 06 22:42		0.57132 AU		3631 Jun 06 12:26	0°©	
inferior conj	3630 Aug 09 19:43	18° Ω 45'55		evening max el	3631 Jun 25 00:35	27°953'14	23°11'57
minimum elong	3630 Aug 09 18:37	18° Ω 47'44	5°07'45		3631 Jun 27 09:25	0°N	
morning rise	3630 Aug 18 00:13	14° Ω 38'40		desc. node	3631 Jul 02 15:51	3° Ω 19'24	
direct	3630 Aug 20 14:44	14° Ω 19'32	10017120	retrograde	3631 Jul 08 12:03	4° Ω 37'04	
morning max el	3630 Aug 29 19:07	18° Ω 37'35	19°17'39	evening set	3631 Jul 12 05:30	4° Ω 06'43	0.55626 ATT
asc. node	3630 Sep 04 11:54	25° Ω 30′50		min. Earth dist.	3631 Jul 19 10:02	0° £ 51′22	0.55626 AU
	3630 Sep 07 08:29	0° Mp		: <i>c</i> :	3631 Jul 20 21:12	30°R©	4925125
morning set	3630 Sep 15 20:58	15°₯56'54 0°₽		inferior conj minimum elong	3631 Jul 21 05:01 3631 Jul 20 22:12	29° © 48'32 29° © 58'32	-4°33'33'
	3630 Sep 22 22:15	0 ==		morning rise	3631 Jul 29 17:17	25°955'41	4 34 23
superior conj	3630 Sep 24 00:20	2° ₽ 07'30	1°40'17	direct	3631 Aug 01 14:25	25°935'43	
minimum elong	3630 Sep 24 00:20 3630 Sep 24 02:07		1°40'17 1°40'11	direct	3631 Aug 11 16:28	23 3 33 43	
max. Earth dist.	3630 Sep 24 02:07 3630 Sep 30 11:07		1.38192 AU	morning max el	3631 Aug 12 07:40	0° Ω 34'15	20°29'03
evening rise	3630 Oct 04 05:41	21° 2 03'11	1.50172 AU	asc. node	3631 Aug 22 08:58	13°Ω54'56	20 27 03
evening rise	3630 Oct 09 11:51	0°M		use. Houe	3631 Aug 30 20:08	0° m	
desc. node	3630 Oct 11 18:08	3°M41'39		morning set	3631 Aug 31 03:00	0° m ₂ 35'04	
desc. Hode	3630 Oct 29 18:19	0° ⊼ 7		morning sec	303171 ug 31 03.00	0 11/2501	
evening max el	3630 Nov 08 20:53	11° ∡ 743'21	24°57'08	superior conj	3631 Sep 07 16:40	16° m) 10'14	1°44'34
retrograde	3630 Nov 20 15:00	18° ∡ ³32'44		minimum elong	3631 Sep 07 16:47	16° m) 10'50	1°44'34
evening set	3630 Nov 26 06:48	16° √ 10'52		max. Earth dist.	3631 Sep 12 17:58	26° m) 12'26	1.36246 AU
min. Earth dist.	3630 Nov 30 19:44	11° ∡ ¹04'18	0.67449 AU		3631 Sep 14 17:34	0∘ <u>⊽</u>	
asc. node	3630 Dec 01 11:07	10° ∡ 13'44		evening rise	3631 Sep 16 16:55	3° ≙ 41'04	
inferior conj	3630 Dec 01 19:25	9° ∡ ¹46′20	0°07'07	desc. node	3631 Sep 28 15:10	24° ≏ 06'02	
minimum elong	3630 Dec 01 19:14	9° ∡ ¹46'56	0°07'02		3631 Oct 02 10:45	0°M₊	
transit middle	3630 Dec 01 19:14	9° ∡ ¹46'56	0°07'02	evening max el	3631 Oct 22 09:20	25°M25'25	26°05'26
transit begin	3630 Dec 01 16:45	9° ∡ 755′08			3631 Oct 27 22:02	0° ∡ ¹	
transit end	3630 Dec 01 21:44	9° ∡ ³38'43		retrograde	3631 Nov 03 23:19	2° ∡ ³33′12	
morning rise	3630 Dec 07 07:51	3° ∡ ¹46'49		evening set	3631 Nov 10 04:57	29°M58'58	
direct	3630 Dec 10 21:43	2° ₹ 33'01			3631 Nov 10 04:28	30°RML	
morning max el	3630 Dec 18 07:15	6° ≯ ⁴44'04	19°44'54	min. Earth dist.	3631 Nov 14 10:41	25°M27'47	0.66679 AU
greatest brilliancy	3630 Dec 31 12:34	24° √ 10'47	-0.7m	inferior conj	3631 Nov 15 21:29	23°M39'37	-0°50'16
	3631 Jan 04 09:51	0°ප		minimum elong	3631 Nov 15 22:49	23°M35'27	0°49'42
desc. node	3631 Jan 07 17:23	5° පි 02'08		asc. node	3631 Nov 18 08:10	20°M45'00	
morning set	3631 Jan 12 23:15	13° る 05'18		morning rise	3631 Nov 21 17:07	17°M49'16	
	3631 Jan 23 19:04	0° ≈		direct	3631 Nov 24 20:20	16°M53'06	
max. Earth dist.	3631 Jan 24 20:33	1° ≈ 41'05	1.44295 AU	morning max el	3631 Dec 01 15:46	20°M39'01	18°51'19
					3631 Dec 09 01:13	0° ∡ ¹	
superior conj	3631 Jan 29 13:27	9° ≈ 13'10		morning set	3631 Dec 23 10:01	22° ∡ ¹06′29	
minimum elong	3631 Jan 29 07:16	8°≈48'13	1°56'50	desc. node	3631 Dec 25 14:25	25° ∡ ³32′07	
	3631 Feb 11 02:39	0° ∺			3631 Dec 28 10:43	0°ಕ	

max. Earth dist.	3632 Jan 07 13:27	15° る 51'39	1.45110 AU		3632 Dec 20 04:37	ರ°0	
				max. Earth dist.	3632 Dec 20 09:00	0° る 17'14	1.45187 AU
superior conj	3632 Jan 08 21:26	17° る 57'21	-1°27'44	evening rise	3633 Jan 03 07:16	22° る 03'04	
minimum elong	3632 Jan 08 12:15	17° る 21'13	1°26'48		3633 Jan 08 09:43	0° ≈	
	3632 Jan 16 12:08	0° ≈		greatest brilliancy	3633 Jan 15 03:07	10° ≈ 22′10	-0.7m
evening rise	3632 Jan 24 04:24	12° ≈ 19′29		evening max el	3633 Jan 27 08:18	26° ≈ 53'48	19°25'50
	3632 Feb 04 04:16	0° ∀		asc. node	3633 Jan 31 04:32	0° 米 01'56	
evening max el	3632 Feb 14 00:20	13°) €23'55	18°42'05		3633 Jan 31 03:11	0° ∀	
asc. node	3632 Feb 14 07:29	13°) 41′50		retrograde	3633 Feb 03 12:31	1° ∺ 01'17	
retrograde	3632 Feb 20 15:49	17° ∺ 05′27			3633 Feb 06 18:09	30° R ≈	
evening set	3632 Feb 23 20:34	16° ∺ 07'15		evening set	3633 Feb 07 00:19	29° ≈ 49'53	
inferior conj	3632 Feb 29 13:31	10° ∺ 29′05	3°33'59	inferior conj	3633 Feb 12 12:14	23° ≈ 55'56	3°16'47
minimum elong	3632 Feb 29 12:25	10° ∺ 32′26	3°33'53	minimum elong	3633 Feb 12 10:11	24° ≈ 02'40	3°16'26
min. Earth dist.	3632 Mar 02 10:42	8°) 1 1′50	0.65164 AU	min. Earth dist.	3633 Feb 13 18:21	22° ≈ 17'54	0.66466 AU
morning rise	3632 Mar 06 03:49	4°) (17′46		morning rise	3633 Feb 17 19:47	17° ≈ 42′26	
direct	3632 Mar 12 20:00	1°) €26'50		direct	3633 Feb 24 01:16	14° ≈ 56'35	
desc. node	3632 Mar 22 13:38	5°) € 57'54		morning max el	3633 Mar 08 12:36	22° ≈ 21'37	25°56'28
morning max el	3632 Mar 26 02:58	9°) 14′32	27°02'47	desc. node	3633 Mar 09 10:39	23° ≈ 18′24	
	3632 Apr 11 09:08	$0^{\circ}\mathbf{\Upsilon}$			3633 Mar 15 05:46	0°) €	
	3632 Apr 29 03:59	0°B			3633 Apr 04 15:49	0° Υ	
morning set	3632 Apr 30 19:15	3° 8 07'22		morning set	3633 Apr 13 17:33	15° Ƴ 54'42	
max. Earth dist.	3632 May 05 06:48	11° 8 59'14	1.33990 AU	max. Earth dist.	3633 Apr 17 14:33	23° Y 13'07	1.35539 AU
	,				3633 Apr 21 01:37	$0^{\circ}B$	
superior conj	3632 May 09 04:20	20° 8 01'49	-0°31'55		1		
minimum elong	3632 May 09 06:00	20° 8 10'31	0°31'34	superior conj	3633 Apr 22 23:06	3° 8 48'16	-1°00'47
asc. node	3632 May 12 06:49	26° 8 34'55		minimum elong	3633 Apr 23 02:19	4° 8 04'33	1°00'12
	3632 May 13 21:29	0°П		asc. node	3633 Apr 29 03:51	16° 8 31'47	
evening rise	3632 May 16 13:24	5° ∏ 36'56		evening rise	3633 Apr 30 20:29	20° 8 00'42	
e vennig 1150	3632 May 29 21:10	0.8e		evening rise	3633 May 05 21:02	0°II	
evening max el	3632 Jun 05 18:38	8° © 25'50	21°37'43	evening max el	3633 May 18 23:26	19° ∏ 29'19	20°16'45
retrograde	3632 Jun 18 03:19	14° © 31'21	21 37 13	retrograde	3633 May 29 17:00	24° I I43'11	20 10 13
desc. node	3632 Jun 18 12:52	14°930'59		evening set	3633 May 31 16:39	24° I 33'12	
evening set	3632 Jun 20 15:26	14° © 17'09		desc. node	3633 Jun 05 09:54	22° I 59'18	
inferior conj	3632 Jun 30 00:38	10°5016'00	2012/21	inferior conj	3633 Jun 09 19:33	20° ∏ 34'42	1°18'00
minimum elong	3632 Jun 29 16:32	10° © 27'20	3°11'03	minimum elong	3633 Jun 09 15:53	20° I I40'06	1°16'39
min. Earth dist.	3632 Jun 29 20:53	10°9521'14	0.54886 AU	min. Earth dist.	3633 Jun 11 09:10	19° Ⅱ 39'23	0.55092 AU
morning rise	3632 Jul	6°\$22'24	0.34660 AU	morning rise	3633 Jun 18 13:50	19 Ⅱ 3923 16° Ⅱ 19'51	0.33092 AU
direct	3632 Jul 12 01:28	5°958'55		direct	3633 Jun 22 12:16	16 Ⅲ 1931 15° Ⅲ 46'21	
morning max el	3632 Jul 24 08:40	11° © 46'17	21050/20	morning max el	3633 Jul 06 01:19	22° I I22'39	220/11/22
morning max er	3632 Aug 06 15:42	0°Ω	21 3930	morning max er	3633 Jul 12 18:22	0°95	23 41 32
asc. node	3632 Aug 08 06:03	2° Ω 54'42		asc. node	3633 Jul 26 03:06	22° © 20'15	
	-	15° Ω 24'19		asc. Houe	3633 Jul 29 20:45	0°Ω	
morning set	3632 Aug 14 12:42	0°M)		morning set	3633 Jul 30 00:13	0° Ω 18'16	
	3632 Aug 21 10:18	עוו ט		morning set	3033 Jul 30 00.13	0 861810	
superior conj	3632 Aug 21 17:42	0° m/38'55	1°41'34	superior conj	3633 Aug 06 00:28	15° Ω 23'49	1°32'31
minimum elong	3632 Aug 21 16:31	0° m/32'40	1°41'31	minimum elong	3633 Aug 05 22:27	15°Ω12'57	1°32'19
max. Earth dist.	3632 Aug 25 08:25	8° m) 08'22	1.34610 AU	max. Earth dist.	3633 Aug 08 07:41	20°Ω19'32	1.33361 AU
evening rise	3632 Aug 29 20:36	17° Mp 05'44	1.54010 AC	max. Lartii dist.	3633 Aug 12 23:31	0° m)	1.55501 AC
evening rise	3632 Sep 05 20:49	0° ت		evening rise	3633 Aug 13 12:28	1° Mp 05'08	
desc. node	3632 Sep 14 12:10	0 — 14° Ω 12'05		evening rise	3633 Aug 29 19:40	0∘ ⊽	
desc. Hode	3632 Sep 25 19:24	0°M		desc. node	3633 Sep 01 09:12	ა _ 3° ჲ 51'37	
evening max el	3632 Oct 03 21:56	9°M01'28	26°56'39	evening max el	3633 Sep 01 09:12 3633 Sep 16 09:33	22° ⊆ 20'12	27°23'48
retrograde	3632 Oct 03 21:30 3632 Oct 17 02:07	16°M17'43	20 30 39	retrograde	3633 Sep 10 09:33 3633 Sep 29 23:03	22 = 20 12 29° £ 38'09	27 23 46
evening set	3632 Oct 17 02:07 3632 Oct 23 20:06	13°M36'21		evening set	3633 Oct 07 01:37	26° £ 58'11	
min. Earth dist.	3632 Oct 23 20.06 3632 Oct 27 19:05	9°M41'16	0.65562 AU	min. Earth dist.	3633 Oct 10 18:49		0.64000 ATT
		7°M26'55				23° ♀ 37'29 21° ♀ 03'05	0.64088 AU
inferior conj	3632 Oct 29 17:47			inferior conj	3633 Oct 13 05:54		
minimum elong	3632 Oct 29 20:51	7°M18'04	1°49'15	minimum elong	3633 Oct 13 10:38	20° ♀ 50'41	2°49'36
asc. node	3632 Nov 04 05:14	2°M12'56		morning rise	3633 Oct 19 20:55	15° 2 40′26	
morning rise	3632 Nov 04 22:25	1°M48'48		direct	3633 Oct 22 09:32	15° ♀ 08'26	
direct	3632 Nov 07 17:08	1°M.06'33	10014104	asc. node	3633 Oct 22 02:17	15° £ 08'54	17052150
morning max el	3632 Nov 14 05:37	4°M37'40	18°14'04	morning max el	3633 Oct 28 22:04	18° ≏ 33'51	17°53'58
	3632 Dec 01 11:26	0° द्र ⁷ 20. 7 12.4120			3633 Nov 06 07:10	0°M	
morning set	3632 Dec 03 01:19	2° x ⁷ 34'28		morning set	3633 Nov 14 20:28	14°M23'58	
desc. node	3632 Dec 11 11:26	16° ≯ 11′20			3633 Nov 24 02:39	0° ∡ ¹	
	2622 D 10 00 10	260 72225	0042122		2622 N 27 10 20	E0 7 50:55	000 4102
superior conj	3632 Dec 18 00:10	26° ₹ 33'37		superior conj	3633 Nov 27 18:29	5° × 59'51	0°04'02
minimum elong	3632 Dec 17 18:40	26° ∡ 11'53	U 4440	minimum elong	3633 Nov 27 18:56	6° ∡ 701'42	0°03'58

behind sun begin behind sun end	3633 Nov 27 09:09 3633 Nov 28 04:43	5° ₹21'55 6° ₹41'24		morning set	3634 Oct 28 13:20 3634 Oct 30 02:00	27° ≏ 15'39 0° ™	
desc. node max. Earth dist.	3633 Nov 28 08:27 3633 Dec 03 03:28 3633 Dec 12 23:31	6°♂56'31 14°♂37'43 0°♂	1.44531 AU	superior conj minimum elong	3634 Nov 08 14:51 3634 Nov 08 18:39	16°M42'53 16°M59'00	0°44'56 0°44'25
evening rise	3633 Dec 12 25:51 3633 Dec 13 18:50 3634 Jan 02 02:31	1°る14'23 0°≈		desc. node max. Earth dist.	3634 Nov 15 05:29 3634 Nov 15 18:12	27°M43'51 28°M35'38	1.43230 AU
evening max el retrograde asc. node	3634 Jan 10 11:12 3634 Jan 18 10:39 3634 Jan 18 01:33	10°≈25'05 15°≈06'42 15°≈05'55	20°24'35	evening rise	3634 Nov 16 15:01 3634 Nov 23 06:01 3634 Dec 06 03:33	0°♬ 10°♬30'49 0°중	
evening set	3634 Jan 22 06:58	13°≈41'05		evening max el	3634 Dec 24 08:36	23° る 57'30	21°35'15
inferior conj minimum elong	3634 Jan 27 16:08 3634 Jan 27 13:39	7°≈34'08 7°≈42'35	2°48'49 2°48'11	retrograde asc. node	3635 Jan 02 08:05 3635 Jan 04 22:34	29°ත17'41 28°ත40'49	
min. Earth dist.	3634 Jan 28 08:41	6° ≈ 37'51	0.67355 AU	evening set	3635 Jan 06 14:38	27° ප 36'44	
morning rise	3634 Feb 01 20:09	1°≈20'23		inferior conj	3635 Jan 11 22:56	21° ට 20'01	2°12'08
direct	3634 Feb 03 14:12 3634 Feb 07 11:59	30°Rる 28°る49'10		minimum elong min. Earth dist.	3635 Jan 11 20:32 3635 Jan 12 03:21	21°る28'21 21°る04'42	2°11'22 0.67851 AU
direct	3634 Feb 11 19:05	28 ⊙ 49 10		morning rise	3635 Jan 17 02:14	21 3 0442 15° る 07'48	0.07831 AU
morning max el	3634 Feb 18 21:15	5° ≈ 37'25	24°33'38	direct	3635 Jan 22 03:21	12°る57'05	
desc. node	3634 Feb 24 07:39	11°≈42'36		morning max el	3635 Feb 01 06:26	18° ප් 57'52	23°04'36
morning set	3634 Mar 09 17:31 3634 Mar 26 20:52	0° ₩ 27° ₩ 43'19		desc. node	3635 Feb 10 13:01 3635 Feb 11 04:41	0°≈ 0°≈52'01	
morning set	3634 Mar 28 03:49	27 χ (4319		desc. flode	3635 Mar 02 21:29	0° X	
max. Earth dist.	3634 Mar 30 12:28	4° Υ 14'49	1.37481 AU	morning set	3635 Mar 07 23:00	8° ¥ 16′22	
	26244 06 07 02	1.600050150	1020102	max. Earth dist.	3635 Mar 12 07:10	15°) 38′18	1.39645 AU
superior conj minimum elong	3634 Apr 06 07:02 3634 Apr 06 11:27	16° Y 58'52 17° Y 20'16		superior conj	3635 Mar 20 00:02	29°) €23'08	-1°50'50
minimum ciong	3634 Apr 12 21:14	0°8	1 2/2/	minimum elong	3635 Mar 20 04:32		1°50'27
evening rise	3634 Apr 14 21:46	4° 8 02'01		_	3635 Mar 20 08:02	0° Y	
asc. node	3634 Apr 16 00:52	6° 8 16'20		evening rise	3635 Mar 29 14:17	17° Y 32'49	
evening max el	3634 Apr 30 11:36 3634 May 01 16:19	0°Ⅲ 1°Ⅲ14'12	19°14'37	asc. node	3635 Apr 02 21:54 3635 Apr 05 06:31	25° Ƴ 43'16 0° ႘	
retrograde	3634 May 10 17:21	5° Ⅱ 38'00	1) 143/	evening max el	3635 Apr 14 19:04	13° 8 36'30	18°32'44
evening set	3634 May 12 18:08	5° Ⅱ 25'37		retrograde	3635 Apr 22 11:47	17° 8 23'41	
inferior conj	3634 May 21 03:48		0°37'00	evening set	3635 Apr 24 18:53	17° 8 04'35	200 (100
minimum elong desc. node	3634 May 21 05:19 3634 May 23 06:54	1° Ⅱ 13'32 29° ႘ 50'32	0°36'27	inferior conj minimum elong	3635 May 02 08:42 3635 May 02 12:23	12° 8 36'17 12° 8 29'04	2°06'08 2°05'05
dese. Hode	3634 May 23 01:11	30°R8		min. Earth dist.	3635 May 05 18:32	9° 8 57'38	0.58025 AU
min. Earth dist.	3634 May 24 00:05	29° 8 22'28	0.56219 AU	morning rise	3635 May 10 02:44	7° 8 13'48	
morning rise	3634 May 29 13:26	26° 8 26'42		desc. node	3635 May 10 03:53	7° 8 12'24	
direct	3634 Jun 03 10:35 3634 Jun 14 10:41	25° ႘ 31'38 0° Ⅱ		direct morning max el	3635 May 15 23:23 3635 May 30 08:33	5° 8 46'21 13° 8 25'23	26°44'23
morning max el	3634 Jun 17 15:26	2° II 46'36	25°21'44	morning max ci	3635 Jun 12 11:31	0°Ⅱ	20 44 23
	3634 Jul 06 20:31	0ಂತ		morning set	3635 Jun 28 22:04	29° Ⅱ 59'59	
asc. node	3634 Jul 13 00:07	12°504'38			3635 Jun 28 22:04	0.ee	
morning set	3634 Jul 14 11:51	15°5511'48	1010100	asc. node	3635 Jun 29 21:10	2°502'12	0050151
superior conj minimum elong	3634 Jul 21 10:40 3634 Jul 21 08:20	0° Ω 17'34 0° Ω 04'44		superior conj minimum elong	3635 Jul 05 22:24 3635 Jul 05 20:12	15°©13'52 15°©01'46	
8	3634 Jul 21 07:28	0°N		max. Earth dist.	3635 Jul 06 01:16	15° © 29'44	1.32109 AU
max. Earth dist.	3634 Jul 22 14:16	2° Ω 48'30	1.32530 AU	evening rise	3635 Jul 12 19:35	0° Ω 10′08	
evening rise	3634 Jul 28 13:03	15° Ω 29'24			3635 Jul 12 17:39	0° N	
desc. node	3634 Aug 04 23:25 3634 Aug 19 06:14	0° Тф 22° Тф 53'13		desc. node	3635 Jul 29 03:01 3635 Aug 06 03:14	0° ጦ 11 ° ሙ 01'30	
desc. node	3634 Aug 24 21:11	0∘ ರ		evening max el	3635 Aug 11 21:41	17° mp 17'02	26°44'53
evening max el	3634 Aug 29 18:16	5° ჲ 09'06	27°20'58	retrograde	3635 Aug 25 20:13	24° m 28'07	
retrograde	3634 Sep 12 13:34	12° £ 24'28		evening set	3635 Sep 01 16:43	22° Mp 27'40	0.60201.411
evening set min. Earth dist.	3634 Sep 19 17:58 3634 Sep 23 08:26	9° £ 57'45 7° £ 05'03	0.62293 AU	min. Earth dist. inferior conj	3635 Sep 05 11:42 3635 Sep 08 17:30	19° 110/50'39 17° 110/11'49	0.60281 AU -4°37'13
inferior conj	3634 Sep 26 06:55	4° £ 20'49		minimum elong	3635 Sep 08 17:50 3635 Sep 08 22:45	17° mp 01'01	4°36'17
minimum elong	3634 Sep 26 12:42	4° ≏ 07'18	3°47'21	morning rise	3635 Sep 16 06:46	12° m 29'09	
	3634 Oct 01 18:46	30°RM)		direct	3635 Sep 18 15:45	12° Mp 07'51	
morning rise direct	3634 Oct 03 09:06 3634 Oct 05 18:21	29° Mp 16'46 28° Mp 51'34		asc. node morning max el	3635 Sep 25 20:21 3635 Sep 26 02:14	15° mp 33'02 15° mp 47'05	18°08'44
asc. node	3634 Oct 08 23:19	29° Mp 38'35		morning max ci	3635 Oct 05 23:58	0° ⊽	10 00 -7
	3634 Oct 09 15:17	0∘ ⊽		morning set	3635 Oct 11 21:53	10° ≙ 52'18	
morning max el	3634 Oct 12 14:00	2° ≏ 19'41	17°51'47				

superior conj	3635 Oct 21 12:51	28° ≏ 40'50	1°14'58		3636 Sep 27 06:39	0∘ ರಾ	
minimum elong	3635 Oct 21 16:56	28° ≏ 59'10	1°14'30		•		
	3635 Oct 22 06:31	0°M		superior conj	3636 Oct 03 07:21	11° ≏ 38'47	1°33'54
max. Earth dist.	3635 Oct 29 04:10	11°M58'53	1.41448 AU	minimum elong	3636 Oct 03 10:08	11° ≏ 51'56	1°33'41
desc. node	3635 Nov 02 02:33	18°M30'18		max. Earth dist.	3636 Oct 10 09:49	24° £ 39'36	1.39397 AU
evening rise	3635 Nov 03 08:19	20°M31'12			3636 Oct 13 11:23	0° M	
	3635 Nov 09 08:16	0° ∡ ″		evening rise	3636 Oct 14 09:17	1°M33'26	
	3635 Nov 30 11:00	0°ප		desc. node	3636 Oct 18 23:35	9°M11'32	
evening max el	3635 Dec 07 01:15	7° る 32'49	22°53'19		3636 Nov 01 15:42	0°⊀	
retrograde	3635 Dec 17 03:11	13° ප 31'34		evening max el	3636 Nov 18 14:46	21° ≯ 11'34	24°13'07
evening set	3635 Dec 21 21:45	11° る 34'23		retrograde	3636 Nov 29 18:49	27° ∡ ⁴44'30	
asc. node	3635 Dec 22 19:35	10° る 44'47		evening set	3636 Dec 05 02:47	25° х 31′06	
inferior conj	3635 Dec 27 06:44	5° る 11'31	1°28'15	asc. node	3636 Dec 08 16:37	21° ∡ ³36′03	
minimum elong	3635 Dec 27 04:52	5° る 17'57	1°27'32	min. Earth dist.	3636 Dec 09 20:12	20° ₹ 05'05	0.67745 AU
min. Earth dist.	3635 Dec 26 23:58	5° る 34'51	0.67979 AU	inferior conj	3636 Dec 10 13:44	19° ₰ 06'02	0°38'16
	3635 Dec 31 10:41	30°Ŗ ⋌ 7		minimum elong	3636 Dec 10 12:49	19° ₰ 09'05	0°37'52
morning rise	3636 Jan 01 11:51	29° 尽 02'43		morning rise	3636 Dec 15 22:54	13° ≯ 02'42	
direct	3636 Jan 05 22:23	27° ҂ 14'52		direct	3636 Dec 19 19:52	11° ∡ ³37'12	
	3636 Jan 12 03:20	0°ಕ		morning max el	3636 Dec 27 16:31	16° ₰ 06'58	20°22'36
morning max el	3636 Jan 14 19:50	2° る 26'30	21°38'41		3637 Jan 07 15:50	0°る	
desc. node	3636 Jan 29 01:44	20° る 34'18		desc. node	3637 Jan 14 22:48	10° る 40'22	
	3636 Feb 04 12:33	0° ≈		morning set	3637 Jan 24 19:27	25° る 41'13	
morning set	3636 Feb 15 20:09	17° ≈ 26'48			3637 Jan 27 13:59	0° ≈	
max. Earth dist.	3636 Feb 22 06:43	27°≈54'10	1.41759 AU	max. Earth dist.	3637 Feb 03 14:22	11° ≈ 07'03	1.43526 AU
	3636 Feb 23 12:58	0° ∀					
				superior conj	3637 Feb 09 17:48	21° ≈ 08′26	
superior conj	3636 Feb 29 21:12	10°) 49'40		minimum elong	3637 Feb 09 15:05	20°≈57'10	2°05'11
minimum elong	3636 Feb 29 23:32	10°) 59'49	2°04'54		3637 Feb 15 00:27	0° ∀	
evening rise	3636 Mar 11 18:29	0° Y 24'58		evening rise	3637 Feb 22 06:12	12°) ₹30′22	
	3636 Mar 11 13:03	0° Υ			3637 Mar 04 12:12	0° Υ	
asc. node	3636 Mar 19 18:55	14° Y 46′18		asc. node	3637 Mar 06 15:57	3° Y 18'16	
evening max el	3636 Mar 28 04:15	26° Y 26′59	18°10'46	evening max el	3637 Mar 11 16:33	9° Ƴ 37'08	18°08'12
retrograde	3636 Apr 04 00:36	29° Y 54'18		retrograde	3637 Mar 18 03:49	13° Y 00′06	
evening set	3636 Apr 06 14:10	29° Y 25'51		evening set	3637 Mar 20 23:09	12° Y 20′53	
inferior conj	3636 Apr 13 10:31	24° Y 36'30	3°02'52	inferior conj	3637 Mar 27 05:58	7°Υ11'13	
minimum elong	3636 Apr 13 13:38	24°Υ29'22	3°02'16	minimum elong	3637 Mar 27 07:23	7° Υ 07'31	3°31'07
min. Earth dist.	3636 Apr 16 18:38	21°Υ35'28	0.60169 AU	min. Earth dist.	3637 Mar 30 03:04	4°Υ12'25	0.62315 AU
morning rise	3636 Apr 20 10:49	18° Y 49'53		morning rise	3637 Apr 02 14:15	1° Y 09'49	
desc. node	3636 Apr 26 00:56	16° Y 49'51		T' A	3637 Apr 04 09:53	30° ₹	
direct	3636 Apr 27 00:23	16° Y 47'10	27927129	direct	3637 Apr 09 11:18	28°) 38'14 29°) 12'33	
morning max el	3636 May 11 07:45		27°36'28	desc. node	3637 Apr 12 21:58	29° π 12′33	
	3636 May 16 04:49	0°B 8°0			3637 Apr 14 20:58	6° Υ 36'13	27951121
	3636 Jun 04 18:42	14° Д 36'00		morning max el	3637 Apr 23 13:08		2/31/21
morning set asc. node	3636 Jun 12 05:03 3636 Jun 15 18:12	22° I 107'08		morning set	3637 May 11 07:14 3637 May 27 06:49	0° と 28° と 53'43	
max. Earth dist.	3636 Jun 18 12:53	22 H0708 28°H10'27	1 22000 ATT	morning set	3637 May 27 19:50	28 O 33 43 0° Ⅱ	
max. Earm dist.	3030 Juli 18 12.33	28 щ1027	1.32089 AU	max. Earth dist.	3637 Jun 01 21:14	10° Ⅱ 37'56	1.32480 AU
superior conj	3636 Jun 19 09:50	0° © 05'36	0°37'36	asc. node	3637 Jun 01 21:14 3637 Jun 02 15:16	10 II 37 30 12° II 15'14	1.32480 AU
minimum elong	3636 Jun 19 08:15	29° II 56'51	0°37'16	asc. node	3037 Juli 02 13.10	12 113 14	
minimum ciong	3636 Jun 19 08:49	0°95	0 37 10	superior conj	3637 Jun 03 19:19	14° ∏ 47'18	0°12'15
evening rise	3636 Jun 26 05:41	14°958'32		minimum elong	3637 Jun 03 18:44	14° I I44'10	0°12'08
evening rise	3636 Jul 03 17:37	0°Ω		behind sun begin	3637 Jun 03 15:22	14° ∏ 25'51	0 12 00
desc. node	3636 Jul 23 00:16	27° Ω 53'43		behind sun end	3637 Jun 03 13:22	15° ∏ 02'29	
evening max el	3636 Jul 23 17:43	28° Ω 36'13	25°37'25	evening rise	3637 Jun 10 17:25	29° ∏ 48'10	
evening max er	3636 Jul 25 06:29	0°M)	23 31 23	evening rise	3637 Jun 10 17:29	0°95	
retrograde	3636 Aug 06 17:08	5° mp 42'50			3637 Jun 27 12:31	$0 {\circ} \Omega$	
evening set	3636 Aug 12 17:02	4° Mp 18'31		evening max el	3637 Jul 05 07:35	9° Ω 14'21	24°07'41
min. Earth dist.	3636 Aug 17 05:47	1° Mp 40'02	0.58231 AU	desc. node	3637 Jul 09 21:15	12° Ω 59'58	, 11
	3636 Aug 19 14:33	30°RΩ	5.50251710	retrograde	3637 Jul 19 02:41	16° Ω 11'26	
inferior conj	3636 Aug 20 10:03	29° Ω 25'06	-5°05'49	evening set	3637 Jul 23 17:32	15° Ω 24'06	
minimum elong	3636 Aug 20 12:06	29° Ω 21'28		min. Earth dist.	3637 Jul 29 18:08	12° Ω 26'15	0.56421 AU
morning rise	3636 Aug 28 09:25	25°Ω05'29		inferior conj	3637 Aug 01 06:20	10° £ 53′00	
direct	3636 Aug 30 21:23	24° Ω 45'52		minimum elong	3637 Aug 01 02:38	10° Ω 58'47	
morning max el	3636 Sep 08 07:28	28° Ω 46'01	18°46'16	morning rise	3637 Aug 09 14:22	6° £ 53'37	
<i>5</i>	3636 Sep 09 12:39	0° m)		direct	3637 Aug 12 07:35	6° Ω 34'17	
asc. node	3636 Sep 11 17:25	2° m/36'44		morning max el	3637 Aug 22 02:43	11° Ω 07'31	19°45'29
morning set	3636 Sep 24 17:20	24° m 59'48		asc. node	3637 Aug 29 14:29	20° Ω 35'03	
Č		.,			<u> </u>		

	3637 Sep 04 00:22	0° m ⁄		morning max el	3638 Aug 04 10:17	22° © 45'04	21°05'39
morning set	3637 Sep 08 20:14	9° m 28'47			3638 Aug 10 15:48	$0^{\circ}\Omega$	
-	-			asc. node	3638 Aug 16 11:33	9° Ω 15'18	
superior conj	3637 Sep 16 17:03	25° mp 21'54	1°43'04	morning set	3638 Aug 24 04:04	24° Ω 12'16	
minimum elong	3637 Sep 16 18:06	25° m) 27'06	1°43'03		3638 Aug 26 22:48	0° m)	
minimum ciong	3637 Sep 19 01:42	23 m/27 00 0°Ω	1 43 03		3030 rug 20 22.40	עוו ט	
mov Earth dist	*	0 = 6° £ 44'24	1 27227 ATT	aumorior coni	2629 Aug 21 12.20	00 m 27!12	1944!07
max. Earth dist.	3637 Sep 22 14:31		1.37337 AU	superior conj	3638 Aug 31 13:30	9° Mp 37'13	1°44'07
evening rise	3637 Sep 26 09:00	13° Ω 38'36		minimum elong	3638 Aug 31 13:01	9° m/34'42	1°44'06
desc. node	3637 Oct 05 20:37	29° ≏ 43'28		max. Earth dist.	3638 Sep 04 23:50	18° m 35'23	1.35496 AU
	3637 Oct 06 00:44	0°M₊		evening rise	3638 Sep 09 03:46	26° Mp 37'59	
	3637 Oct 27 13:22	0° ∡ ¹			3638 Sep 10 23:12	0∘ ত	
evening max el	3637 Nov 01 03:00	4° ₹ 52'44	25°27'43	desc. node	3638 Sep 22 17:36	20° ≙ 01'01	
retrograde	3637 Nov 13 06:05	11° ∡ ′51′22			3638 Sep 29 09:53	0° M ₊	
evening set	3637 Nov 19 03:59	9° ∡ ¹23'26		evening max el	3638 Oct 14 15:21	18°ML33'11	26°29'44
min. Earth dist.	3637 Nov 23 13:41	4° ∡ ³32′04	0.67167 AU	retrograde	3638 Oct 27 12:21	25°M46'37	
inferior conj	3637 Nov 24 18:07	3° ∡ ¹00'31	-0°16'48	evening set	3638 Nov 02 23:29	23°ML08'20	
minimum elong	3637 Nov 24 18:33	2° ∡ 159'08	0°16'37	min. Earth dist.	3638 Nov 07 02:10	18°ML52'31	0.66243 AU
asc. node	3637 Nov 25 13:42	1° ∡ 757'57	0 1007	inferior conj	3638 Nov 08 18:00	16°ML52'20	
asc. node	3637 Nov 27 04:42	30°RM		minimum elong	3638 Nov 08 20:04	16°M46'07	1°14'43
				•	3638 Nov 12 10:44		1 1443
morning rise	3637 Nov 30 09:25	27°M04'52		asc. node		12°M48'15	
direct	3637 Dec 03 18:27	25°M59'10		morning rise	3638 Nov 14 17:18	11°ML06'53	
	3637 Dec 10 21:55	0° ∡		direct	3638 Nov 17 16:30	10°ML17'17	
morning max el	3637 Dec 10 21:09	29°M58'04	19°20'10	morning max el	3638 Nov 24 08:18	13°M56'04	18°33'24
greatest brilliancy	3637 Dec 24 08:22	18° ∡ 03'14	-0.7m		3638 Dec 06 01:44	0° ∡	
	3638 Jan 01 03:33	0°る		morning set	3638 Dec 14 17:13	13° ∡ ⁴42'19	
desc. node	3638 Jan 01 19:50	1° る 02'59		desc. node	3638 Dec 19 16:53	21° ∡ ³37'39	
morning set	3638 Jan 03 18:58	4° る 05'26			3638 Dec 25 00:08	o°ප	
max. Earth dist.	3638 Jan 17 04:29	25° පි 01'00	1.44725 AU				
	3638 Jan 20 07:56	0° ≈		superior conj	3638 Dec 30 16:09	8°₹54'08	-1°10'12
				minimum elong	3638 Dec 30 07:49	8° ට 21'26	
superior conj	3638 Jan 20 12:54	0° ≈ 19'47	1046'50	max. Earth dist.	3638 Dec 30 22:21	9° ろ 18'28	1.45233 AU
	3638 Jan 20 04:42	0 ≈1947 29° る 47'10		max. Lartii dist.		9° ≈	1.43233 AU
minimum elong			1 40 21		3639 Jan 13 01:49		
evening rise	3638 Feb 03 21:04	23°≈40'23		evening rise	3639 Jan 15 12:35	3°≈53'09	
	3638 Feb 07 16:21	0° ∀		greatest brilliancy	3639 Jan 24 11:14	18° ≈ 04'41	-0.8m
asc. node	3638 Feb 21 13:00	21°) €08'54			3639 Feb 01 09:23	0° ∀	
evening max el	3638 Feb 23 05:01	22° 升 58'57	18°24'30	evening max el	3639 Feb 06 15:13	6° ∺ 27'18	18°58'41
retrograde	3638 Mar 01 16:43	26°) € 30'38		asc. node	3639 Feb 08 10:01	8° ∺ 06′14	
evening set	3638 Mar 04 17:46	25°) 39′46		retrograde	3639 Feb 13 11:25	10°) 1 8′54	
inferior conj	3638 Mar 10 14:51	20°) 11′30	3°37'49	evening set	3639 Feb 16 18:55	9°) 15′24	
minimum elong	3638 Mar 10 14:33	20° 升 12′22	3°37'48	inferior conj	3639 Feb 22 09:26	3° ₩ 30′23	3°28'07
min. Earth dist.	3638 Mar 12 21:02	17°) 34'56	0.64227 AU	minimum elong	3639 Feb 22 07:51	3° ¥ 35′21	3°27'56
morning rise	3638 Mar 16 10:35	14°) €02'15		min. Earth dist.	3639 Feb 24 00:09	1° ¥ 28'51	0.65773 AU
direct	3638 Mar 23 06:30	11°)(14'11			3639 Feb 25 05:40	30°R≈	
desc. node	3638 Mar 30 19:00	13°) € 57'36		morning rise	3639 Feb 27 20:26	27°≈17'41	
morning max el	3638 Apr 05 22:14	19°) (09'44	27020137	direct	3639 Mar 06 08:36	24°≈27'09	
morning max ci	•	19 γ (0944	21 29 31	direct			
	3638 Apr 15 03:08			1 1	3639 Mar 17 02:47	0° \	
	3638 May 04 06:22	0°8		desc. node	3639 Mar 17 16:03	0°) 30′25	2 (02 710 2
morning set	3638 May 11 00:45	12° 8 44'46		morning max el	3639 Mar 19 08:07	2°) €07'39	26°37'02
max. Earth dist.	3638 May 15 22:05	22° 8 38'58	1.33305 AU		3639 Apr 09 07:13	0° Υ	
				morning set	3639 Apr 24 07:28	25° Y 59′13	
superior conj	3638 May 19 00:54	29° 8 12'54	-0°15'24		3639 Apr 26 09:43	9° 8	
minimum elong	3638 May 19 01:41	29° 8 17'02	0°15'13	max. Earth dist.	3639 Apr 28 12:08	4° 8 07'19	1.34592 AU
behind sun begin	3638 May 19 00:02	29° 8 08'17					
behind sun end	3638 May 19 03:19	29° 8 25'48		superior conj	3639 May 03 00:24	13° 8 16'04	-0°44'14
	3638 May 19 09:44	$\Pi^{\circ}0$		minimum elong	3639 May 03 02:44	13° 8 28'08	0°43'47
asc. node	3638 May 20 12:19	2° Ⅲ 22'07		asc. node	3639 May 07 09:21	22° 8 23'55	
evening rise	3638 May 26 04:53	14° ∏ 32'26		evening rise	3639 May 10 14:10	29° 8 05'32	
	3638 Jun 02 23:55	0°95			3639 May 11 00:41	0°Ⅱ	
evening may al	3638 Jun 16 21:40	19° © 38'36	22030148		3639 May 29 10:56	0ಂಣ ೧ π	
evening max el			22 30 40	avaning may al	-		21901112
desc. node	3638 Jun 26 18:15	25°5645'07		evening max el	3639 May 29 19:53	0°522'08	21°01'13
retrograde	3638 Jun 30 00:07	26°509'20		retrograde	3639 Jun 10 13:05	6°906'13	
evening set	3638 Jul 03 03:09	25°5647'48		evening set	3639 Jun 12 17:29	5°955'02	
min. Earth dist.	3638 Jul 11 05:00		0.55194 AU	desc. node	3639 Jun 13 15:16	5°9544'06	
inferior conj	3638 Jul 12 08:31	21° © 37'42	-4°06'32	inferior conj	3639 Jun 22 01:57	1°957'23	-2°26'40
minimum elong	3638 Jul 12 00:21	21° 5 549'19	4°04'36	minimum elong	3639 Jun 21 19:15	2° © 06'51	2°24'23
morning rise	3638 Jul 20 23:39	17° 5 346'59		min. Earth dist.	3639 Jun 22 16:39	1°536'37	0.54848 AU
direct	3638 Jul 24 00:02	17° 5 26'13			3639 Jun 25 15:39	30°RⅡ	

morning rise	2620 Jun 20 20:50	27° II 56'39		min. Earth dist.	2640 Jun 02 05:51	1.1°∏02'05	0.55473 AU
morning rise direct	3639 Jun 30 20:59 3639 Jul 04 09:27	27° I I29'55			3640 Jun 03 05:51 3640 Jun 09 16:54	7° ∏ 54'34	0.55475 AU
direct	3639 Jul 04 09.27 3639 Jul 12 13:23	27 π 2933		morning rise direct	3640 Jun 14 00:45	7° П 13'14	
morning max el	3639 Jul 17 07:05	3° 9 39'40	22°42'16	morning max el	3640 Jun 27 21:44	7 П 13 14 14° П 07'17	24025118
asc. node	3639 Aug 03 08:36	28° © 26'46	22 42 10	morning max ci	3640 Jul 10 07:50	0°95	24 23 16
asc. node	3639 Aug 04 03:50	28 3 20 40		asc. node	3640 Jul 20 05:38	18° © 01'30	
morning set	3639 Aug 08 14:42	9° Ω 03'42		morning set	3640 Jul 23 02:28	23°958'21	
morning set	3039 Aug 06 14.42	9 0 603 42		morning set	3640 Jul 25 21:57	0°Ω	
superior conj	3639 Aug 15 17:16	24°Ω13'35	1°38'25		3040 Jul 23 21.37	0 00	
minimum elong	3639 Aug 15 15:40	24° Ω 05'04		superior conj	3640 Jul 30 01:45	9° Ω 03'11	1°27'05
minimum crong	3639 Aug 18 10:59	0°m	1 30 10	minimum elong	3640 Jul 29 23:32	8°Ω51'08	1°26'49
max. Earth dist.	3639 Aug 18 17:49	•	1.34021 AU	max. Earth dist.	3640 Jul 31 20:44	12°Ω55'51	1.32960 AU
evening rise	3639 Aug 23 13:05	10° mp 18'50	1.5 .021110	evening rise	3640 Aug 06 09:04	24°Ω30'25	1.52,00110
<i>5</i>	3639 Sep 03 08:48	0∘ ⊽		<i>8</i> 11	3640 Aug 09 03:11	0° m)	
desc. node	3639 Sep 09 14:36	9° Ω 56'51		desc. node	3640 Aug 26 11:37	29° m) 21'45	
	3639 Sep 25 02:14	0°M			3640 Aug 26 22:22	0∘ <u>v</u>	
evening max el	3639 Sep 27 03:49	2°M03'50	27°11'41	evening max el	3640 Sep 08 14:45	15° Ω 12'15	27°26'37
retrograde	3639 Oct 10 12:51	9° M 21'47		retrograde	3640 Sep 22 06:54	22° ≏ 28'31	
evening set	3639 Oct 17 10:53	6°M40'04		evening set	3640 Sep 29 11:13	19° ≙ 52'57	
min. Earth dist.	3639 Oct 21 07:16	2°M59'45	0.64970 AU	min. Earth dist.	3640 Oct 03 02:53	16° ≏ 45'04	0.63361 AU
inferior conj	3639 Oct 23 11:09	0°M35'59	-2°16'25	inferior conj	3640 Oct 05 18:56	14° ≏ 05'21	-3°16'27
minimum elong	3639 Oct 23 14:57	0°M25'24	2°14'55	minimum elong	3640 Oct 06 00:14	13° ♀ 52'05	3°14'42
	3639 Oct 24 00:10	30° ₹ Ω		morning rise	3640 Oct 12 14:36	8° ≏ 49'54	
morning rise	3639 Oct 29 20:02	25° ≏ 03'46		direct	3640 Oct 15 01:31	8° ≏ 21'03	
asc. node	3639 Oct 30 07:47	24° ≏ 51'21		asc. node	3640 Oct 16 04:49	8° ≏ 27'22	
direct	3639 Nov 01 11:48	24° ≏ 26′21		morning max el	3640 Oct 21 16:03	11° ≏ 46'31	17°50'46
morning max el	3639 Nov 07 23:33	27° ≏ 54'20	18°03'20		3640 Nov 03 00:17	0° M	
	3639 Nov 09 21:10	0° M		morning set	3640 Nov 07 02:13	7°M05'56	
morning set	3639 Nov 25 21:01	24°M47'21					
	3639 Nov 29 00:29	0°⊀		superior conj	3640 Nov 19 04:11	27°M43'19	0°22'34
desc. node	3639 Dec 06 13:54	12° ∡ 19'52		minimum elong	3640 Nov 19 06:29	27°M52'50	0°22'14
					3640 Nov 20 13:20	0° ∡	
superior conj	3639 Dec 09 23:24	17° ∡ ¹46'11	-0°23'05	desc. node	3640 Nov 22 10:55	3° ∡ 06′18	
minimum elong	3639 Dec 09 20:31	17° ∡ ³34'45	0°22'41	max. Earth dist.	3640 Nov 25 11:11	7° ∡ 757'56	1.44055 AU
max. Earth dist.	3639 Dec 13 17:32	23° х² 43'14	1.44999 AU	evening rise	3640 Dec 04 16:51	22° ≯ 28'05	
	3639 Dec 17 17:35	0° る			3640 Dec 09 15:07	0°る	
evening rise	3639 Dec 26 07:29	13° る 19'18			3640 Dec 30 18:34	0° ≈	
	3640 Jan 06 04:37	0° ≈		evening max el	3641 Jan 02 21:53	3° ≈ 30'49	20°53'26
greatest brilliancy	3640 Jan 08 23:02	4°≈09'03		retrograde	3641 Jan 11 06:52	8°≈28'00	
evening max el	3640 Jan 20 21:15	19°≈58'36	19°49'11	asc. node	3641 Jan 12 04:03	8°≈23'43	
asc. node	3640 Jan 26 07:02	23°≈56'02		evening set	3641 Jan 15 07:26	6°≈55'47	
retrograde	3640 Jan 28 08:53	24°≈19'24		inferior conj	3641 Jan 20 16:02	0°≈44'20	2°34'14
evening set	3640 Feb 01 00:08	23°≈02'09	2006104	minimum elong	3641 Jan 20 13:31	0°≈52'57	
inferior conj	3640 Feb 06 10:40	17°≈02'36	3°06'04	min. Earth dist.	3641 Jan 21 03:13	0°≈05'55	0.67619 AU
minimum elong	3640 Feb 06 08:21	17°≈10'17	3°05'35		3641 Jan 21 04:56	30°Rる	
min. Earth dist. morning rise	3640 Feb 07 10:53	15°≈42'05 10°≈48'55	0.66902 AU	morning rise direct	3641 Jan 25 19:27 3641 Jan 31 05:08	24°る31'20 22°る08'26	
direct	3640 Feb 11 16:21 3640 Feb 17 16:25	10 ≈48 33 8°≈08'06		morning max el	3641 Feb 11 01:35	22 3 08 28 28° る 36'32	22055156
morning max el	3640 Feb 29 17:05	15°≈18'45	25°22'30	morning max er	3641 Feb 11 01:33	28 3 0 32 0° ≈	23 33 30
desc. node	3640 Mar 03 13:05	13 ≈ 10 4 3 18° ≈ 20'46	23 22 30	desc. node	3641 Feb 18 10:07	0 ∞ 7° ≈ 06'09	
desc. node	3640 Mar 12 18:55	0°) €		dese. Hode	3641 Mar 06 13:11	0° ∺	
	3640 Apr 01 04:06	0°Υ		morning set	3641 Mar 18 15:45	19°) 42′06	
morning set	3640 Apr 05 22:26	8° Υ 23'54		max. Earth dist.	3641 Mar 22 10:59	26° \ 20'51	1.38396 AU
max. Earth dist.	3640 Apr 09 15:00		1.36326 AU	max. Dartii dist.	3641 Mar 24 11:47	0° Υ	1.50570710
max. Earth dist.	501071pr 05 15.00	13 1212	1.50520710		3011111111 21 11:17	V 1	
superior conj	3640 Apr 15 15:03	26° Ƴ 49'15	-1°12'42	superior conj	3641 Mar 29 17:12	9° Ƴ 41'48	-1°38'29
minimum elong	3640 Apr 15 18:51	27° Υ 08'10		minimum elong	3641 Mar 29 21:51	10° Y ′03'51	1°37'56
	3640 Apr 17 05:13	0°8		evening rise	3641 Apr 07 17:05	27° Υ 10'54	* *
asc. node	3640 Apr 23 06:22	12° 8 16'32			3641 Apr 09 03:43	0°8	
evening rise	3640 Apr 23 19:07	13° 8 21'08		asc. node	3641 Apr 10 03:23	1° 8 54'30	
Č	3640 May 02 13:51	0°II		evening max el	3641 Apr 24 03:33	23° 8 45'47	18°54'15
evening max el	3640 May 11 06:07	11° Ⅱ 44'12	19°47'53	retrograde	3641 May 02 13:23	27° 8 52'13	
retrograde	3640 May 21 05:33	16° Ⅱ 35′07		evening set	3641 May 04 16:42	27° 8 37'20	
evening set	3640 May 23 04:47	16° Ⅱ 24'39		inferior conj	3641 May 12 17:48	23° 8 19'55	1°18'45
desc. node	3640 May 30 12:17	13° Ⅱ 19′08		minimum elong	3641 May 12 20:39	23° 8 14'48	1°17'48
inferior conj	3640 Jun 01 01:11	12° Ⅲ 23′01	-0°27'14	min. Earth dist.	3641 May 15 21:45	21° 8 05'14	0.56927 AU
minimum elong	3640 May 31 23:57	12° Ⅱ 24'56	0°26'46	desc. node	3641 May 17 09:18	20° 8 06'56	

marning risa	2641 May 20, 21,25	18° 8 15'53		morning rise	2642 May 01 19:22	29° Y ′23'54	
morning rise	3641 May 20 21:25			Č	3642 May 01 18:22	29 1 23 34 28° Y 18'03	
direct	3641 May 26 04:51	17° 8 08'21	25050150	desc. node	3642 May 04 06:20		
morning max el	3641 Jun 09 12:34	24° 8 34'20	25°59'59	direct	3642 May 07 23:01	27° Y ′41′22	
	3641 Jun 14 12:13	Π °0			3642 May 15 11:21	0° 8	
	3641 Jul 03 06:04	0		morning max el	3642 May 22 08:24	5° 8 27'29	27°10'48
asc. node	3641 Jul 07 02:40	7° © 52'11			3642 Jun 09 12:08	Π $\circ 0$	
morning set	3641 Jul 07 13:42	8°950'21		morning set	3642 Jun 21 22:48	23° Ⅱ 34'19	
				asc. node	3642 Jun 23 23:43	27° Ⅱ 53'31	
superior conj	3641 Jul 14 12:48	23° 9 58'29	1°10'59		3642 Jun 24 23:12	0°9	
minimum elong	3641 Jul 14 10:28	23° © 45'38	1°10'37	max. Earth dist.	3642 Jun 28 17:31	8° © 14'21	1.32052 AU
max. Earth dist.	3641 Jul 15 05:48	25° © 31'56	1.32307 AU				
max. Earth dist.	3641 Jul 17 06:49	0° Ω	1.52507 110	superior conj	3642 Jun 29 00:38	8°953'35	0°50'49
avanina riaa		9° Ω 02'25		minimum elong			0°50'26
evening rise	3641 Jul 21 12:30			Č	3642 Jun 28 22:38	8°942'37	0-30/26
	3641 Aug 01 11:47	0° m/y		evening rise	3642 Jul 05 20:48	23° © 47'03	
desc. node	3641 Aug 13 08:38	18° m 02'44			3642 Jul 08 20:48	0 $^{\circ}$ Ω	
evening max el	3641 Aug 21 21:28	27° Mp 44'28	27°09'38		3642 Jul 26 14:54	0° m y	
	3641 Aug 24 11:01	0∘ ⊽		desc. node	3642 Jul 31 05:39	5° m 41'44	
retrograde	3641 Sep 04 17:56	4° £ 57'36		evening max el	3642 Aug 03 21:34	9° m 30'43	26°19'30
evening set	3641 Sep 11 20:38	2° - 40′21		retrograde	3642 Aug 17 20:57	16° Mp 40'52	
	3641 Sep 15 10:06	30°R.™		evening set	3642 Aug 24 10:23	14° m 54'38	
min. Earth dist.	3641 Sep 15 11:47	29° m 56'28	0.61459 AU	min. Earth dist.	3642 Aug 28 10:40	12° m) 19'28	0.59394 AU
inferior conj	3641 Sep 18 14:12	27° mp 12'28		inferior conj	3642 Aug 31 17:27	9° m) 48'07	
minimum elong	-			minimum elong	-		4°52'03
Č	3641 Sep 18 20:01	26° Mp 59'35	4 09 42	· ·	3642 Aug 31 21:43	9° m) 39'51	4 32 03
morning rise	3641 Sep 25 21:10	22° Tp 17'22		morning rise	3642 Sep 08 11:14	5° m 15'40	
direct	3641 Sep 28 06:03	21° Mp 54'02		direct	3642 Sep 10 21:03	4° Mp 55'24	
asc. node	3641 Oct 03 01:52	23° Mp 34'38		morning max el	3642 Sep 18 16:32	8° Mp 42'08	18°22'13
morning max el	3641 Oct 05 06:49	25° Mp 25'23	17°56'40	asc. node	3642 Sep 19 22:56	10° Mp 00'28	
	3641 Oct 09 02:57	0∘ ⊽			3642 Oct 02 11:37	0∘ ত	
morning set	3641 Oct 21 02:24	20° ≏ 18'34		morning set	3642 Oct 04 16:02	4° ≙ 09'18	
	3641 Oct 26 10:09	0°M₊					
				superior conj	3642 Oct 13 19:21	21° ≏ 25'19	1°24'17
superior conj	3641 Oct 31 11:57	8° ™ 59'49	0°59'05	minimum elong	3642 Oct 13 22:59	21° - 42′02	1°23'56
minimum elong	3641 Oct 31 16:09	9°M18'07	0°58'32	minimum crong	3642 Oct 18 13:41	0°M	1 23 30
			1.42515 AU	E4b 4i-4			1 40501 ATT
max. Earth dist.	3641 Nov 08 00:20	21°M43'59	1.42313 AU	max. Earth dist.	3642 Oct 21 07:48	4°M47'38	1.40581 AU
desc. node	3641 Nov 09 07:58	23°M53'45		evening rise	3642 Oct 25 20:19	12°M24'25	
	3641 Nov 13 02:49	0° ∡ ¹		desc. node	3642 Oct 27 04:59	14° M .38'21	
evening rise	3641 Nov 14 08:54	1° ∡ 759'18			3642 Nov 06 00:30	0° ∡	
	3641 Dec 03 02:59	0°ප			3642 Nov 28 16:04	0° ප	
evening max el	3641 Dec 16 17:04	17° る 04'23	22°07'50	evening max el	3642 Nov 29 07:58	0° る 40'25	23°27'30
retrograde	3641 Dec 26 03:34	22° る 41'26		retrograde	3642 Dec 09 21:29	6° る 55'24	
asc. node	3641 Dec 30 01:05	21° පි 20'07		evening set	3642 Dec 14 21:33	4° る 51'12	
evening set	3641 Dec 30 15:07	20° る 53'24		asc. node	3642 Dec 16 22:09	2° る 49'29	
inferior conj	3642 Jan 04 23:29	14° る 33'25	1°54'23		3642 Dec 19 03:48	30°R. ✓	
minimum elong	3642 Jan 04 21:16	14° る 41'08	1°53'35	inferior conj	3642 Dec 20 07:10	28° ∡ ¹26'37	1°07'45
min. Earth dist.	3642 Jan 04 22:59	14°る35'12	0.67945 AU	minimum elong	3642 Dec 20 05:40	28° × 31'48	1°07'09
		8° る 22'32	0.07943 AU	_			
morning rise	3642 Jan 10 03:17			min. Earth dist.	3642 Dec 19 19:47	29° 🗷 05'39	0.67912 AU
direct	3642 Jan 14 22:02	6° ට 21'44		morning rise	3642 Dec 25 13:43	22° ∡ 19'45	
morning max el	3642 Jan 24 12:19	12° පි 01'16	22°27'21	direct	3642 Dec 29 18:14	20° ∡ ′41'43	
desc. node	3642 Feb 05 07:10	26° る 31'19		morning max el	3643 Jan 07 04:37	25° ∡ ³35′00	21°04'52
	3642 Feb 07 18:55	0° ≈			3643 Jan 11 03:29	0°₹	
morning set	3642 Feb 27 05:46	29° ≈ 40'47		desc. node	3643 Jan 23 04:13	16° る 24'39	
	3642 Feb 27 10:29	0° ∀			3643 Feb 01 06:13	0° ≈	
max. Earth dist.	3642 Mar 04 07:28	8°) €06'42	1.40569 AU	morning set	3643 Feb 06 15:50	8° ≈ 21'51	
				max. Earth dist.	3643 Feb 14 09:51	20°≈45'41	1.42562 AU
superior conj	3642 Mar 12 02:26	21°) 43'23	-1°58'11		3643 Feb 19 23:25	0° ∀	
minimum elong	3642 Mar 12 06:22	22°) (01'03				• /	
minimum ciong	3642 Mar 16 15:05	0°Υ	1 37 33	superior conj	3643 Feb 21 13:37	2°) 42'00	2007/07
avanina rica		0 γ 10° Υ 27'15				2° X 42'09	
evening rise	3642 Mar 22 04:56			minimum elong	3643 Feb 21 14:07		2-07:06
asc. node	3642 Mar 28 00:25	21°Υ12'38		evening rise	3643 Mar 05 02:40	23°) €00'39	
	3642 Apr 02 07:30	0°8			3643 Mar 09 00:14	0° Υ	
evening max el	3642 Apr 07 09:24	6° 8 21'14	18°20'52	asc. node	3643 Mar 14 21:27	10° Y 03'54	
retrograde	3642 Apr 14 16:13	9° 8 58'22		evening max el	3643 Mar 21 20:18	19° Ƴ 21'29	18°07'20
evening set	3642 Apr 17 01:59	9° 8 35'40		retrograde	3643 Mar 28 11:37	22° Y 45'12	
inferior conj	3642 Apr 24 07:56	4° 8 58'20	2°34'03	evening set	3643 Mar 31 03:37	22° Y 12'26	
minimum elong	3642 Apr 24 11:37	4° 8 50'36		inferior conj	3643 Apr 06 17:46	17° Ƴ 14'37	3°17'56
min. Earth dist.	3642 Apr 27 18:30	2° 8 06'59		minimum elong	3643 Apr 06 20:13	17° Y ′08'40	3°17'34
Zartii dibt.	3642 Apr 30 17:36	2 3 0° ₹ Υ	3.50,1,110	min. Earth dist.	3643 Apr 09 22:09	14° Υ 11'19	0.61099 AU
	3072 11p1 30 17.30	20 IV I		mm. Darm dist.	3073 Apr 07 22.09	1T 11119	0.010// AU

	2642 4 12 10 52	1.10002012.1			264434 10 10 42	2005 V	
morning rise	3643 Apr 13 10:53	11° Υ 20'31			3644 Mar 19 19:43	30° ₹ ₩	
direct	3643 Apr 20 04:51	9° ℃ 03'55		min. Earth dist.	3644 Mar 22 10:27	27° 米 09′33	0.63170 AU
desc. node	3643 Apr 21 03:23	9° Y 06′26		morning rise	3644 Mar 25 21:54	23° ¥ 55′50	
morning max el	3643 May 04 10:27	17° Ƴ 00'16	27°47'20	direct	3644 Apr 01 19:38	21° ∺ 15′20	
	3643 May 15 04:30	0°8		desc. node	3644 Apr 07 00:25	22°) € 33'48	
	3643 Jun 02 03:07	Π $^{\circ}0$		morning max el	3644 Apr 15 17:26	29° ∺ 13′07	27°46'18
morning set	3643 Jun 06 03:53	8° 耳 04'11			3644 Apr 16 11:51	0 ° Υ	
asc. node	3643 Jun 10 20:46	18° Ⅲ 00'51			3644 May 08 02:06	$_{0\circ}$ 8	
max. Earth dist.	3643 Jun 12 04:04	20° Ⅲ 50'47	1.32200 AU	morning set	3644 May 20 02:39	22° 8 11'50	
					3644 May 23 21:54	Π°	
superior conj	3643 Jun 13 11:30	23° Ⅱ 42'39	0°27'11	max. Earth dist.	3644 May 25 09:35	3° Ⅱ 08'14	1.32775 AU
minimum elong	3643 Jun 13 10:18	23° Ⅱ 36′02	0°26'56		, and the second		
	3643 Jun 16 08:17	0°50		superior conj	3644 May 27 19:35	8° Ⅱ 18'52	0°00'47
evening rise	3643 Jun 20 07:52	8° 9 37'21		minimum elong	3644 May 27 19:32	8° I 18'39	0°00'46
evening rise	3643 Jul 01 08:53	0°Ω		behind sun begin	3644 May 27 14:17	7° I I50'19	0 00 40
evening max el	3643 Jul 16 14:37	20°Ω31'25	25001112	behind sun end	3644 May 28 00:48	7 П 30 19 8° П 47'02	
•			25 01 12		•		
desc. node	3643 Jul 18 02:40	21° £ 53′51		asc. node	3644 May 27 17:48	8° Ⅱ 09'13	
retrograde	3643 Jul 30 13:41	27° Ω 35'40		evening rise	3644 Jun 03 19:42	23° Ⅱ 26'00	
evening set	3643 Aug 05 00:25	26° Ω 27'56			3644 Jun 06 23:31	0°99	
min. Earth dist.	3643 Aug 10 02:15		0.57406 AU		3644 Jun 26 03:27	$0^{\circ}\Omega$	
inferior conj	3643 Aug 13 01:35	21° Ω 43'45		evening max el	3644 Jun 27 03:50	1° Ω 00′56	23°26'29
minimum elong	3643 Aug 13 01:22	21° Ω 44'06	5°08'38	desc. node	3644 Jul 03 23:41	6° Ω 05'15	
morning rise	3643 Aug 21 04:48	17° Ω 33'21		retrograde	3644 Jul 10 17:38	7° Ω 48'35	
direct	3643 Aug 23 18:31	17° Ω 14'09		evening set	3644 Jul 14 16:38	7° Ω 14'19	
morning max el	3643 Sep 01 17:57	21° Ω 27'18	19°08'45	min. Earth dist.	3644 Jul 21 13:40	4° Ω 04'00	0.55813 AU
asc. node	3643 Sep 06 20:00	27° Ω 29'50		inferior conj	3644 Jul 23 13:37	2° Ω 53′02	-4°43'45
	3643 Sep 08 12:22	O° Mp		minimum elong	3644 Jul 23 07:30	3° Ω 02'06	4°42'48
morning set	3643 Sep 18 15:03	18° m) 27'27		Č	3644 Jul 28 23:17	30° ₹ 5	
Č	3643 Sep 24 10:35	0∘ <u>⊽</u>		morning rise	3644 Aug 01 00:49	28° © 58'55	
		-		direct	3644 Aug 03 20:58	28°939'07	
superior conj	3643 Sep 26 20:57	4° £ 44'43	1°38'53	direct	3644 Aug 09 09:53	0°Ω	
minimum elong	3643 Sep 26 23:00	4° £ 54'37	1°38'45	morning max el	3644 Aug 14 08:14	3° Ω 30'39	20°17'02
_	•			Č	•		20 1/02
max. Earth dist.	3643 Oct 03 12:05	17° £ 10'12	1.38506 AU	asc. node	3644 Aug 23 17:03	15° Ω 47'39	
evening rise	3643 Oct 07 07:23	23° £ 55'07			3644 Aug 31 08:05	0° m)	
	3643 Oct 10 21:00	0°M		morning set	3644 Sep 01 20:21	3° Mp 03'46	
desc. node	3643 Oct 14 02:01	5°M16'34					
	3643 Oct 30 18:52	0°⊀		superior conj	3644 Sep 09 11:41	18° M 42'56	1°44'25
evening max el	3643 Nov 11 20:46	14° ∡ °20'48	24°45'59	minimum elong	3644 Sep 09 12:03	18° m) 44'44	1°44'24
retrograde	3643 Nov 23 11:22	21° ₰ 06'07		max. Earth dist.	3644 Sep 14 18:22	29° m 07'16	1.36526 AU
evening set	3643 Nov 29 01:07	18° ∡ ¹46′29			3644 Sep 15 05:23	0∘ ত	
min. Earth dist.	3643 Dec 03 15:14	13° ∡ ³34'46	0.67538 AU	evening rise	3644 Sep 18 15:47	6° £ 25′05	
asc. node	3643 Dec 03 19:12	13° ∡ ¹21'41		desc. node	3644 Sep 29 23:01	25° ≙ 43'18	
inferior conj	3643 Dec 04 13:17	12° ∡ ¹21'44	0°15'27		3644 Oct 02 16:44	0° M .	
minimum elong	3643 Dec 04 12:54	12° ∡ ¹22'59	0°15'17	evening max el	3644 Oct 24 09:11	28°MJ03'14	25°56'07
transit middle	3643 Dec 04 12:54	12° ∡ 22'59	0°15'17	Ü	3644 Oct 26 11:50	0° ∡ ¹	
transit begin	3643 Dec 04 11:59	12° ∡ ¹26′02		retrograde	3644 Nov 05 20:25	5° ∡ ¹08'39	
transit end	3643 Dec 04 13:49	12° ∡ 19'57		evening set	3644 Nov 12 00:07	2° ∡ ³35'55	
morning rise	3643 Dec 10 00:47	6° ₹ 21'03		evening sec	3644 Nov 14 14:34	30°RM	
direct	3643 Dec 13 16:28	5°×704'16		min. Earth dist.	3644 Nov 16 06:52	27°M59'31	0.66820 AU
			10054100				
morning max el	3643 Dec 21 04:35	9° х 19'43	19°54'08	inferior conj	3644 Nov 17 16:00	26°M15'36	
	3644 Jan 05 15:31	0°궁		minimum elong	3644 Nov 17 17:05	26°M12'10	0°40′54
desc. node	3644 Jan 10 01:15	6° る 38'24		asc. node	3644 Nov 19 16:15	23°M48'51	
morning set	3644 Jan 16 11:46	16° පි 30'01		morning rise	3644 Nov 23 10:28	20° M ₂3'49	
	3644 Jan 25 03:24	0° ≈		direct	3644 Nov 26 15:09	19°M25'15	
max. Earth dist.	3644 Jan 27 20:01	4°≈16'12	1.44115 AU	morning max el	3644 Dec 03 12:09	23°M14'02	18°58'15
					3644 Dec 09 02:10	0° ∡ ¹	
superior conj	3644 Feb 01 23:00	12° ≈ 30'48	-1°59'57	morning set	3644 Dec 25 19:04	25° ∡ ¹20′24	
minimum elong	3644 Feb 01 17:40	12° ≈ 09′12	1°59'41	desc. node	3644 Dec 26 22:18	27° х 06′52	
	3644 Feb 12 11:31	0°) €			3644 Dec 28 18:34	ರ∘ರ	
evening rise	3644 Feb 15 05:53	4°) 42′39		max. Earth dist.	3645 Jan 09 12:32	18° පි 24'14	1.45032 AU
asc. node	3644 Feb 29 18:29	28°) 19'47					
	3644 Mar 02 01:12	0°Υ		superior conj	3645 Jan 11 09:23	21° ට 20'48	-1°33'21
evening max el	3644 Mar 04 09:03	2° Υ 37'52	18°12'58	minimum elong	3645 Jan 11 00:13	20° ප් 44'41	
retrograde	3644 Mar 10 19:19	6° Υ 02'41	10 12 30	minimum ciong	3645 Jan 16 20:25	20° ≈	1 3221
evening set	3644 Mar 13 17:08	5°Υ18'32		evening rise	3645 Jan 26 10:52	0 ≈ 15°≈28'12	
•			2026117	evening 1180			
inferior conj	3644 Mar 19 19:22	0°Υ00'57		,	3645 Feb 04 09:33	0°) 150) √40 47	
minimum elong	3644 Mar 19 20:02	29° ∺ 59'10	3°36'16	asc. node	3645 Feb 15 15:31	15° ¥ 49'47	

	2645 E-b 15 20.52	1.60 1.0212.4	1002(150		2646 E-b 06 07:24	201/20105	
evening max el	3645 Feb 15 20:53	16°) €03'34	18°36'59	retrograde	3646 Feb 06 07:24	3°) (36'05	
retrograde	3645 Feb 22 11:06	19°) (42′12		evening set	3646 Feb 09 18:01	2°) €26'47	
evening set	3645 Feb 25 14:53	18°) 45′53			3646 Feb 12 11:23	30°R ≈	
inferior conj	3645 Mar 03 08:48	13° ∺ 10'06	3°35'25	inferior conj	3646 Feb 15 06:32	26° ≈ 35′00	3°20'06
minimum elong	3645 Mar 03 07:53	13° 升 12′50	3°35'22	minimum elong	3646 Feb 15 04:34	26° ≈ 41′20	3°19'48
min. Earth dist.	3645 Mar 05 08:15	10°) (47′38	0.64931 AU	min. Earth dist.	3646 Feb 16 14:48	24° ≈ 50'46	0.66297 AU
morning rise	3645 Mar 09 00:23	6° ¥ 59'15		morning rise	3646 Feb 20 14:51	20° ≈ 21'33	
direct	3645 Mar 15 17:41	4°) €08'46		direct	3646 Feb 26 22:07	17° ≈ 34'12	
desc. node	3645 Mar 24 21:27	8°) 09'14		morning max el	3646 Mar 11 12:57	25° ≈ 04'00	26°07'36
morning max el	3645 Mar 29 03:08	11°) 58'45	27°10'42	desc. node	3646 Mar 11 18:29	25° ≈ 18′03	
C	3645 Apr 12 12:18	$0^{\circ}\mathbf{\Upsilon}$			3646 Mar 16 00:39	0° ∀	
	3645 Apr 30 14:52	0°8			3646 Apr 05 23:45	$0^{\circ}\Upsilon$	
morning set	3645 May 03 16:17	5° 8 49'02		morning set	3646 Apr 16 16:54	18° Y '43'50	
max. Earth dist.	3645 May 08 06:25	14° 8 57'16	1.33800 AU	max. Earth dist.	3646 Apr 20 15:46	26°Υ14'23	1.35278 AU
max. Earth dist.	3043 May 00 00.23	14 03/10	1.55000 710	max. Lartii dist.	3646 Apr 22 13:49	0°8	1.55276710
superior conj	3645 May 11 22:53	22° 8 36'17	0°27'31		3040 Apr 22 13.47	υ Ο	
	•	22° 8 43'47		aumorior aoni	2646 Apr. 25 10:56	6° 8 27'09	0056120
minimum elong	3645 May 12 00:18		0 2/14	superior conj	3646 Apr 25 18:56		
asc. node	3645 May 14 14:49	28° 8 14'55		minimum elong	3646 Apr 25 21:56	6° 8 42'23	0°55'55
	3645 May 15 10:34	0°II		asc. node	3646 May 01 11:51	18° 8 13'13	
evening rise	3645 May 19 06:31	8° Ⅱ 07'04		evening rise	3646 May 03 14:13	22° 8 33'22	
	3645 May 30 21:44	0			3646 May 07 06:51	Π °0	
evening max el	3645 Jun 08 20:32	11° © 30'02	21°51'04	evening max el	3646 May 21 23:30	22° Ⅲ 27'52	20°27'42
desc. node	3645 Jun 20 20:40	17° © 41'58		retrograde	3646 Jun 01 23:29	27° Ⅱ 49'50	
retrograde	3645 Jun 21 10:15	17° © 42'42		evening set	3646 Jun 03 23:45	27° Ⅲ 39'48	
evening set	3645 Jun 24 01:44	17° 5 27'00		desc. node	3646 Jun 07 17:40	26° Ⅲ 32'58	
inferior conj	3645 Jul 03 10:27	13° © 23'48	-3°28'45	inferior conj	3646 Jun 13 04:31	23° Ⅱ 41'58	-1°36'20
minimum elong	3645 Jul 03 02:06	13° © 35'28	3°26'21	minimum elong	3646 Jun 12 23:59	23° Ⅱ 48'33	
min. Earth dist.	3645 Jul 03 00:16	13°938'02	0.54939 AU	min. Earth dist.	3646 Jun 14 12:27		0.54996 AU
morning rise	3645 Jul 12 03:55	9° 9 31'44	0.5 1757 110	morning rise	3646 Jun 21 23:14	19° ∏ 31'12	0.5 1770 110
direct	3645 Jul 15 08:53	9° © 09'07		direct	3646 Jun 25 18:43	18° Ц 51 12	
			21945107		3646 Jul 09 04:24	25° ∏ 29'42	23°26'09
morning max el	3645 Jul 27 10:48	14°5948'47	21°45'07	morning max el			23-26-09
_	3645 Aug 07 22:14	0°N			3646 Jul 13 09:51	0.20	
asc. node	3645 Aug 10 14:05	4° Ω 42'22		asc. node	3646 Jul 28 11:07	24°9504'41	
morning set	3645 Aug 17 05:37	17° Ω 51'40			3646 Jul 31 09:18	0 ° Ω	
	3645 Aug 22 23:45	0° m)		ma a main a cat		20 (7.45)20	
	3043 Aug 22 23.43	V III		morning set	3646 Aug 01 16:57	2° Ω 45'30	
	3043 Aug 22 23.43	V III		C	C		
superior conj	3645 Aug 24 11:37	3° Mp 08'26	1°42'27	superior conj	3646 Aug 01 16:57 3646 Aug 08 17:42	2 δί 43 30 17° Ω 51'53	1°34'14
superior conj minimum elong	C	•	1°42'27 1°42'24	C	C		1°34'14 1°34'04
1 3	3645 Aug 24 11:37	3° m 08'26		superior conj	3646 Aug 08 17:42	17° Ω 51'53 17° Ω 41'33	
minimum elong	3645 Aug 24 11:37 3645 Aug 24 10:36	3° m 08'26 3° m 03'06	1°42'24	superior conj minimum elong	3646 Aug 08 17:42 3646 Aug 08 15:47	17° Ω 51'53 17° Ω 41'33	1°34'04
minimum elong max. Earth dist.	3645 Aug 24 11:37 3645 Aug 24 10:36 3645 Aug 28 07:25 3645 Sep 01 17:15	3° m 08'26 3° m 03'06 11° m 01'24	1°42'24	superior conj minimum elong	3646 Aug 08 17:42 3646 Aug 08 15:47 3646 Aug 11 05:16	17° Ω 51'53 17° Ω 41'33 23° Ω 09'32	1°34'04
minimum elong max. Earth dist. evening rise	3645 Aug 24 11:37 3645 Aug 24 10:36 3645 Aug 28 07:25 3645 Sep 01 17:15 3645 Sep 07 06:39	3° m 08'26 3° m 03'06 11° m 01'24 19° m 43'26 0° •	1°42'24	superior conj minimum elong max. Earth dist.	3646 Aug 08 17:42 3646 Aug 08 15:47 3646 Aug 11 05:16 3646 Aug 14 12:12 3646 Aug 16 07:33	17° N 51'53 17° N 41'33 23° N 09'32 0° M 3° M 38'46	1°34'04
minimum elong max. Earth dist.	3645 Aug 24 11:37 3645 Aug 24 10:36 3645 Aug 28 07:25 3645 Sep 01 17:15 3645 Sep 07 06:39 3645 Sep 16 20:01	3° 10 08'26 3° 10 03'06 11° 10 01'24 19° 10 43'26 0° 12 15° 12 52'43	1°42'24	superior conj minimum elong max. Earth dist. evening rise	3646 Aug 08 17:42 3646 Aug 08 15:47 3646 Aug 11 05:16 3646 Aug 14 12:12 3646 Aug 16 07:33 3646 Aug 31 01:02	17° № 51'53 17° № 41'33 23° № 09'32 0° № 3° № 38'46 0° •	1°34'04
minimum elong max. Earth dist. evening rise desc. node	3645 Aug 24 11:37 3645 Aug 24 10:36 3645 Aug 28 07:25 3645 Sep 01 17:15 3645 Sep 07 06:39 3645 Sep 16 20:01 3645 Sep 26 17:18	3° m 08'26 3° m 03'06 11° m 01'24 19° m 43'26 0° <u>a</u> 15° <u>a</u> 52'43 0° M	1°42'24 1.34827 AU	superior conj minimum elong max. Earth dist. evening rise desc. node	3646 Aug 08 17:42 3646 Aug 08 15:47 3646 Aug 11 05:16 3646 Aug 14 12:12 3646 Aug 16 07:33 3646 Aug 31 01:02 3646 Sep 03 17:01	17°\$\Omega_51'53 17°\$\Omega_41'33 23°\$\Omega_99'32 0°\$\mathbf{m}\qquad 38'46 0°\$\omega_5°\$\omega_37'09	1°34'04 1.33515 AU
minimum elong max. Earth dist. evening rise desc. node evening max el	3645 Aug 24 11:37 3645 Aug 24 10:36 3645 Aug 28 07:25 3645 Sep 01 17:15 3645 Sep 07 06:39 3645 Sep 16 20:01 3645 Sep 26 17:18 3645 Oct 06 21:40	3° m 08'26 3° m 03'06 11° m 01'24 19° m 43'26 0° 2 15° 2 52'43 0° m 11° m 40'37	1°42'24 1.34827 AU	superior conj minimum elong max. Earth dist. evening rise	3646 Aug 08 17:42 3646 Aug 08 15:47 3646 Aug 11 05:16 3646 Aug 14 12:12 3646 Aug 16 07:33 3646 Aug 31 01:02 3646 Sep 03 17:01 3646 Sep 19 09:31	17° റ്റ 51'53 17° റ്റ 41'33 23° റ്റ 09'32 0° ന 3° നൂ 38'46 0° <u>മ</u> 5° <u>മ</u> 37'09 25° <u>മ</u> 03'12	1°34'04 1.33515 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3645 Aug 24 11:37 3645 Aug 24 10:36 3645 Aug 28 07:25 3645 Sep 01 17:15 3645 Sep 07 06:39 3645 Sep 16 20:01 3645 Sep 26 17:18 3645 Oct 06 21:40 3645 Oct 20 00:05	3° 10 08'26 3° 10 03'06 11° 10 01'24 19° 10 43'26 0° 12 15° 12 52'43 0° 11° 11° 11.40'37 18° 11.56'27	1°42'24 1.34827 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	3646 Aug 08 17:42 3646 Aug 08 15:47 3646 Aug 11 05:16 3646 Aug 14 12:12 3646 Aug 16 07:33 3646 Aug 31 01:02 3646 Sep 03 17:01 3646 Sep 19 09:31 3646 Sep 25 15:45	17° \$\alpha 51'53 17° \$\alpha 41'33 23° \$\alpha 09'32 0° \$\mathred{m}\$ 3° \$\mathred{m} 38'46 0° \$\alpha \\ 5° \$\alpha 37'09 25° \$\alpha 03'12 0° \$\mathred{m}\$	1°34'04 1.33515 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3645 Aug 24 11:37 3645 Aug 24 10:36 3645 Aug 28 07:25 3645 Sep 01 17:15 3645 Sep 07 06:39 3645 Sep 16 20:01 3645 Sep 26 17:18 3645 Oct 06 21:40 3645 Oct 20 00:05 3645 Oct 26 16:27	3° 100 8'26 3° 100 3'06 11° 100 1'24 19° 100 43'26 0° 12 15° 125'43 0° 110 110 110 110 110 110 110 110 110 1	1°42'24 1.34827 AU 26°50'21	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	3646 Aug 08 17:42 3646 Aug 08 15:47 3646 Aug 11 05:16 3646 Aug 14 12:12 3646 Aug 16 07:33 3646 Aug 31 01:02 3646 Sep 03 17:01 3646 Sep 19 09:31 3646 Sep 25 15:45 3646 Oct 02 22:07	17° \$\alpha 51'53 17° \$\alpha 41'33 23° \$\alpha 09'32 0° \$\mathred{m}\$ 3° \$\mathred{m} 38'46 0° \$\alpha 5° \$\alpha 37'09 25° \$\alpha 03'12 0° \$\mathred{m}\$ 2° \$\mathred{m} 21'40	1°34'04 1.33515 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	3645 Aug 24 11:37 3645 Aug 24 10:36 3645 Aug 28 07:25 3645 Sep 01 17:15 3645 Sep 07 06:39 3645 Sep 16 20:01 3645 Sep 26 17:18 3645 Oct 06 21:40 3645 Oct 20 00:05 3645 Oct 26 16:27 3645 Oct 30 16:20	3° m 08'26 3° m 03'06 11° m 01'24 19° m 43'26 0° <u>a</u> 15° <u>a</u> 52'43 0° m 11° m 40'37 18° m 56'27 16° m 15'32 12° m 15'14	1°42'24 1.34827 AU 26°50'21 0.65751 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	3646 Aug 08 17:42 3646 Aug 08 15:47 3646 Aug 11 05:16 3646 Aug 14 12:12 3646 Aug 16 07:33 3646 Aug 31 01:02 3646 Sep 03 17:01 3646 Sep 19 09:31 3646 Sep 25 15:45 3646 Oct 02 22:07 3646 Oct 09 23:38	17° Q 51'53 17° Q 41'33 23° Q 09'32 0° M 3° M 38'46 0° Ω 5° Ω 37'09 25° Ω 03'12 0° M 2° M 21'40 29° Ω 40'49	1°34'04 1.33515 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	3645 Aug 24 11:37 3645 Aug 24 10:36 3645 Aug 28 07:25 3645 Sep 01 17:15 3645 Sep 07 06:39 3645 Sep 16 20:01 3645 Sep 26 17:18 3645 Oct 06 21:40 3645 Oct 20 00:05 3645 Oct 26 16:27 3645 Oct 30 16:20 3645 Nov 01 13:16	3° m 08'26 3° m 03'06 11° m 01'24 19° m 43'26 0° £ 15° £ 52'43 0° m 11° m 40'37 18° m 56'27 16° m 15'32 12° m 15'14 10° m 04'17	1°42'24 1.34827 AU 26°50'21 0.65751 AU -1°41'18	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3646 Aug 08 17:42 3646 Aug 08 15:47 3646 Aug 11 05:16 3646 Aug 14 12:12 3646 Aug 16 07:33 3646 Aug 31 01:02 3646 Sep 03 17:01 3646 Sep 19 09:31 3646 Sep 25 15:45 3646 Oct 02 22:07 3646 Oct 09 23:38 3646 Oct 09 13:13	17° Q 51'53 17° Q 41'33 23° Q 09'32 0° ሙ 3° ሙ 38'46 0° Ω 5° Ω 37'09 25° Ω 03'12 0° ጤ 2° ጤ 21'40 29° Ω 40'49 30° R Ω	1°34'04 1.33515 AU 27°21'34
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3645 Aug 24 11:37 3645 Aug 24 10:36 3645 Aug 28 07:25 3645 Sep 01 17:15 3645 Sep 07 06:39 3645 Sep 16 20:01 3645 Sep 26 17:18 3645 Oct 06 21:40 3645 Oct 20 00:05 3645 Oct 26 16:27 3645 Oct 30 16:20 3645 Nov 01 13:16 3645 Nov 01 16:05	3° m 08'26 3° m 03'06 11° m 01'24 19° m 43'26 0° £ 15° £ 52'43 0° m 11° m 40'37 18° m 56'27 16° m 15'32 12° m 15'14 10° m 04'17 9° m 56'06	1°42'24 1.34827 AU 26°50'21 0.65751 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	3646 Aug 08 17:42 3646 Aug 08 15:47 3646 Aug 11 05:16 3646 Aug 14 12:12 3646 Aug 16 07:33 3646 Aug 31 01:02 3646 Sep 03 17:01 3646 Sep 19 09:31 3646 Sep 25 15:45 3646 Oct 02 22:07 3646 Oct 09 23:38 3646 Oct 09 13:13 3646 Oct 13 17:33	17° ብ 51'53 17° ብ 41'33 23° ብ 09'32 0° m 3° m 38'46 0° Ω 5° Ω 37'09 25° Ω 03'12 0° M 2° M 21'40 29° Ω 40'49 30° R Ω 26° Ω 15'13	1°34'04 1.33515 AU 27°21'34 0.64325 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	3645 Aug 24 11:37 3645 Aug 24 10:36 3645 Aug 28 07:25 3645 Sep 01 17:15 3645 Sep 07 06:39 3645 Sep 16 20:01 3645 Sep 26 17:18 3645 Oct 06 21:40 3645 Oct 20 00:05 3645 Oct 26 16:27 3645 Oct 30 16:20 3645 Nov 01 13:16 3645 Nov 01 16:05 3645 Nov 06 13:17	3° m 08'26 3° m 03'06 11° m 01'24 19° m 43'26 0° £ 15° £ 52'43 0° m 11° m 40'37 18° m 56'27 16° m 15'32 12° m 15'14 10° m 04'17 9° m 56'06 5° m 05'46	1°42'24 1.34827 AU 26°50'21 0.65751 AU -1°41'18	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	3646 Aug 08 17:42 3646 Aug 08 15:47 3646 Aug 11 05:16 3646 Aug 14 12:12 3646 Aug 16 07:33 3646 Aug 31 01:02 3646 Sep 03 17:01 3646 Sep 19 09:31 3646 Oct 02 22:07 3646 Oct 09 23:38 3646 Oct 09 13:13 3646 Oct 13 17:33 3646 Oct 16 02:49	17° \$\alpha 51'53 17° \$\alpha 41'33 23° \$\alpha 09'32 0° \$\mu\$ 3° \$\mu 38'46 0° \$\oldsymbol{\Omega}\$ 5° \$\oldsymbol{\Omega}\$37'09 25° \$\oldsymbol{\Omega}\$03'12 0° \$\mu\$ 2° \$\mu 21'40 29° \$\oldsymbol{\Omega}\$40'49 30° \$\oldsymbol{\Omega}\$ 26° \$\oldsymbol{\Omega}\$15'13 23° \$\oldsymbol{\Omega}\$43'10	1°34'04 1.33515 AU 27°21'34 0.64325 AU -2°42'10
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3645 Aug 24 11:37 3645 Aug 24 10:36 3645 Aug 28 07:25 3645 Sep 01 17:15 3645 Sep 07 06:39 3645 Sep 16 20:01 3645 Sep 26 17:18 3645 Oct 06 21:40 3645 Oct 20 00:05 3645 Oct 26 16:27 3645 Oct 30 16:20 3645 Nov 01 13:16 3645 Nov 01 16:05	3° m 08'26 3° m 03'06 11° m 01'24 19° m 43'26 0° £ 15° £ 52'43 0° m 11° m 40'37 18° m 56'27 16° m 15'32 12° m 15'14 10° m 04'17 9° m 56'06	1°42'24 1.34827 AU 26°50'21 0.65751 AU -1°41'18	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	3646 Aug 08 17:42 3646 Aug 08 15:47 3646 Aug 11 05:16 3646 Aug 14 12:12 3646 Aug 16 07:33 3646 Aug 31 01:02 3646 Sep 03 17:01 3646 Sep 19 09:31 3646 Sep 25 15:45 3646 Oct 02 22:07 3646 Oct 09 23:38 3646 Oct 09 13:13 3646 Oct 13 17:33	17° ብ 51'53 17° ብ 41'33 23° ብ 09'32 0° m 3° m 38'46 0° Ω 5° Ω 37'09 25° Ω 03'12 0° M 2° M 21'40 29° Ω 40'49 30° R Ω 26° Ω 15'13	1°34'04 1.33515 AU 27°21'34 0.64325 AU -2°42'10
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	3645 Aug 24 11:37 3645 Aug 24 10:36 3645 Aug 28 07:25 3645 Sep 01 17:15 3645 Sep 07 06:39 3645 Sep 16 20:01 3645 Sep 26 17:18 3645 Oct 06 21:40 3645 Oct 20 00:05 3645 Oct 26 16:27 3645 Oct 30 16:20 3645 Nov 01 13:16 3645 Nov 01 16:05 3645 Nov 06 13:17	3° m 08'26 3° m 03'06 11° m 01'24 19° m 43'26 0° £ 15° £ 52'43 0° m 11° m 40'37 18° m 56'27 16° m 15'32 12° m 15'14 10° m 04'17 9° m 56'06 5° m 05'46	1°42'24 1.34827 AU 26°50'21 0.65751 AU -1°41'18	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	3646 Aug 08 17:42 3646 Aug 08 15:47 3646 Aug 11 05:16 3646 Aug 14 12:12 3646 Aug 16 07:33 3646 Aug 31 01:02 3646 Sep 03 17:01 3646 Sep 19 09:31 3646 Oct 02 22:07 3646 Oct 09 23:38 3646 Oct 09 13:13 3646 Oct 13 17:33 3646 Oct 16 02:49	17° \$\alpha 51'53 17° \$\alpha 41'33 23° \$\alpha 09'32 0° \$\mu\$ 3° \$\mu 38'46 0° \$\oldsymbol{\Omega}\$ 5° \$\oldsymbol{\Omega}\$37'09 25° \$\oldsymbol{\Omega}\$03'12 0° \$\mu\$ 2° \$\mu 21'40 29° \$\oldsymbol{\Omega}\$40'49 30° \$\oldsymbol{\Omega}\$ 26° \$\oldsymbol{\Omega}\$15'13 23° \$\oldsymbol{\Omega}\$43'10	1°34'04 1.33515 AU 27°21'34 0.64325 AU -2°42'10
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minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	3645 Aug 24 11:37 3645 Aug 24 10:36 3645 Aug 28 07:25 3645 Sep 01 17:15 3645 Sep 07 06:39 3645 Sep 16 20:01 3645 Sep 26 17:18 3645 Oct 06 21:40 3645 Oct 20 00:05 3645 Oct 26 16:27 3645 Nov 01 13:16 3645 Nov 01 16:05 3645 Nov 01 16:05 3645 Nov 07 16:30 3645 Nov 10 12:18 3645 Nov 10 12:18 3645 Nov 17 01:25 3645 Dec 02 19:09 3645 Dec 06 05:54 3645 Dec 21 11:32 3645 Dec 21 12:53 3645 Dec 21 12:53 3645 Dec 23 07:46 3646 Jan 09 16:39 3646 Jan 17 19:55 3646 Jan 30 05:24	3° m 08'26 3° m 03'06 11° m 01'24 19° m 43'26 0° Ω 15° Ω 52'43 0° m 11° m 40'37 18° m 56'27 16° m 15'32 12° m 15'14 10° m 04'17 9° m 56'06 5° m 05'46 4° m 24'18 3° m 40'18 7° m 13'01 0° ¾ 5° ¾ 35'19 17° ¾ 45'10 29° ¾ 54'41 29° ¾ 29'36 0° ♂ 2° ♂ 48'28 25° ♂ 18'53 0° ≈ 12° ≈ 39'06 29° ≈ 32'50	1°42'24 1.34827 AU 26°50'21 0.65751 AU -1°41'18 1°40'08 18°18'33 -0°50'44 0°49'54 1.45222 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin	3646 Aug 08 17:42 3646 Aug 08 15:47 3646 Aug 11 05:16 3646 Aug 14 12:12 3646 Aug 16 07:33 3646 Aug 31 01:02 3646 Sep 03 17:01 3646 Sep 19 09:31 3646 Sep 25 15:45 3646 Oct 02 22:07 3646 Oct 09 23:38 3646 Oct 13 17:33 3646 Oct 16 02:49 3646 Oct 16 07:19 3646 Oct 22 16:13 3646 Oct 24 10:19 3646 Oct 25 05:31 3646 Oct 31 17:42 3646 Nov 07 11:26 3646 Nov 17 21:20 3646 Nov 25 11:41 3646 Dec 01 02:40 3646 Dec 01 02:19 3646 Nov 30 16:14	17° \$\alpha 51'53 17° \$\alpha 41'33 23° \$\alpha 09'32 0° \$\mathbf{m}\$ 3° \$\mathbf{m}\$ 38'46 0° \$\oldsymbol{\Omega}\$ 5° \$\oldsymbol{\Omega}\$ 37'09 25° \$\oldsymbol{\Omega}\$ 03'12 0° \$\mathbf{m}\$ 2° \$\oldsymbol{\Omega}\$ 40'49 30° \$\oldsymbol{\Omega}\$ 43'10 23° \$\oldsymbol{\Omega}\$ 43'10 23° \$\oldsymbol{\Omega}\$ 43'10 18° \$\oldsymbol{\Omega}\$ 48'03 17° \$\oldsymbol{\Omega}\$ 44'45 21° \$\oldsymbol{\Omega}\$ 10'41 0° \$\mathbf{m}\$ 17° \$\mathbf{m}\$ 14'28 0° \$\neq\$\$\frac{\sigma}{\sigma}\$ 30'00 9° \$\neq\$\$\frac{\sigma}{\sigma}\$ 10'18 8° \$\neq\$\$\sigma 29'33 9° \$\neq\$\$\sigma 51'00 17° \$\neq\$\$\sigma 10'26	1°34'04 1.33515 AU 27°21'34 0.64325 AU -2°42'10 2°40'32 17°55'51
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	3645 Aug 24 11:37 3645 Aug 24 10:36 3645 Aug 28 07:25 3645 Sep 01 17:15 3645 Sep 07 06:39 3645 Sep 16 20:01 3645 Sep 26 17:18 3645 Oct 06 21:40 3645 Oct 20 00:05 3645 Oct 26 16:27 3645 Nov 01 13:16 3645 Nov 01 16:05 3645 Nov 07 16:30 3645 Nov 10 12:18 3645 Nov 10 12:18 3645 Nov 17 01:25 3645 Dec 02 19:09 3645 Dec 06 05:54 3645 Dec 21 11:32 3645 Dec 21 12:53 3645 Dec 21 05:10 3645 Dec 23 07:46 3646 Jan 06 16:50 3646 Jan 09 16:39 3646 Jan 17 19:55	3° m 08'26 3° m 03'06 11° m 01'24 19° m 43'26 0° Ω 15° Ω 52'43 0° m 11° m 40'37 18° m 56'27 16° m 15'32 12° m 15'14 10° m 04'17 9° m 56'06 5° m 05'46 4° m 24'18 3° m 40'18 7° m 13'01 0° ¾ 5° ¾ 35'19 17° ¾ 45'10 29° ¾ 29'36 0° ♂ 2° ♂ 48'28 25° ♂ 18'53 0° ≈ 12° ≈ 39'06	1°42'24 1.34827 AU 26°50'21 0.65751 AU -1°41'18 1°40'08 18°18'33 -0°50'44 0°49'54 1.45222 AU -0.8m	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end	3646 Aug 08 17:42 3646 Aug 08 15:47 3646 Aug 11 05:16 3646 Aug 14 12:12 3646 Aug 16 07:33 3646 Aug 31 01:02 3646 Sep 03 17:01 3646 Sep 19 09:31 3646 Sep 25 15:45 3646 Oct 02 22:07 3646 Oct 09 23:38 3646 Oct 13 17:33 3646 Oct 16 02:49 3646 Oct 16 07:19 3646 Oct 22 16:13 3646 Oct 24 10:19 3646 Oct 25 05:31 3646 Oct 31 17:42 3646 Nov 07 11:26 3646 Nov 17 21:20 3646 Nov 25 11:41 3646 Dec 01 02:40 3646 Dec 01 02:19 3646 Nov 30 16:14 3646 Dec 01 12:23	17° \$\alpha 51'53 17° \$\alpha 41'33 23° \$\alpha 09'32 0° \$\mathbf{m}\$ 3° \$\mathbf{m} 38'46 0° \$\oldsymbol{\Omega}\$ 5° \$\oldsymbol{\Omega} 37'09 25° \$\oldsymbol{\Omega} 03'12 0° \$\mathbf{m}\$ 2° \$\oldsymbol{\Omega} 40'49 30° \$\oldsymbol{\Omega}\$ 26° \$\oldsymbol{\Omega} 15'13 23° \$\oldsymbol{\Omega} 43'10 23° \$\oldsymbol{\Omega} 18'00 17° \$\oldsymbol{\Omega} 48'03 17° \$\oldsymbol{\Omega} 44'45 21° \$\oldsymbol{\Omega} 10'41 0° \$\mathbf{m}\$ 17° \$\mathbf{m} 14'28 0° \$\nalpha'\$ 8° \$\nalpha' 30'00 9° \$\nalpha' 11'45 9° \$\nalpha' 10'18 8° \$\nalpha' 29'33 9° \$\nalpha' 51'00	1°34'04 1.33515 AU 27°21'34 0.64325 AU -2°42'10 2°40'32 17°55'51
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	3645 Aug 24 11:37 3645 Aug 24 10:36 3645 Aug 28 07:25 3645 Sep 01 17:15 3645 Sep 07 06:39 3645 Sep 16 20:01 3645 Sep 26 17:18 3645 Oct 06 21:40 3645 Oct 20 00:05 3645 Oct 26 16:27 3645 Nov 01 13:16 3645 Nov 01 16:05 3645 Nov 01 16:05 3645 Nov 07 16:30 3645 Nov 10 12:18 3645 Nov 10 12:18 3645 Nov 17 01:25 3645 Dec 02 19:09 3645 Dec 06 05:54 3645 Dec 21 11:32 3645 Dec 21 12:53 3645 Dec 21 12:53 3645 Dec 23 07:46 3646 Jan 09 16:39 3646 Jan 17 19:55 3646 Jan 30 05:24	3° m 08'26 3° m 03'06 11° m 01'24 19° m 43'26 0° Ω 15° Ω 52'43 0° m 11° m 40'37 18° m 56'27 16° m 15'32 12° m 15'14 10° m 04'17 9° m 56'06 5° m 05'46 4° m 24'18 3° m 40'18 7° m 13'01 0° ¾ 5° ¾ 35'19 17° ¾ 45'10 29° ¾ 54'41 29° ¾ 29'36 0° ♂ 2° ♂ 48'28 25° ♂ 18'53 0° ≈ 12° ≈ 39'06 29° ≈ 32'50	1°42'24 1.34827 AU 26°50'21 0.65751 AU -1°41'18 1°40'08 18°18'33 -0°50'44 0°49'54 1.45222 AU -0.8m	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong behind sun begin behind sun end	3646 Aug 08 17:42 3646 Aug 08 15:47 3646 Aug 11 05:16 3646 Aug 14 12:12 3646 Aug 16 07:33 3646 Aug 31 01:02 3646 Sep 03 17:01 3646 Sep 19 09:31 3646 Sep 25 15:45 3646 Oct 02 22:07 3646 Oct 09 23:38 3646 Oct 16 02:49 3646 Oct 16 07:19 3646 Oct 22 16:13 3646 Oct 24 10:19 3646 Oct 25 05:31 3646 Oct 31 17:42 3646 Nov 07 11:26 3646 Nov 17 21:20 3646 Nov 17 21:20 3646 Nov 25 11:41 3646 Oct 01 02:49 3646 Dec 01 02:49 3646 Dec 01 02:19 3646 Dec 01 12:23 3646 Dec 01 12:23 3646 Dec 06 02:23	17° \$\alpha 51'53 17° \$\alpha 41'33 23° \$\alpha 09'32 0° \$\mathbf{m}\$ 3° \$\mathbf{m}\$ 38'46 0° \$\oldsymbol{\Omega}\$ 5° \$\oldsymbol{\Omega}\$ 37'09 25° \$\oldsymbol{\Omega}\$ 03'12 0° \$\mathbf{m}\$ 2° \$\oldsymbol{\Omega}\$ 40'49 30° \$\oldsymbol{\Omega}\$ 43'10 23° \$\oldsymbol{\Omega}\$ 43'10 23° \$\oldsymbol{\Omega}\$ 43'10 18° \$\oldsymbol{\Omega}\$ 48'03 17° \$\oldsymbol{\Omega}\$ 44'45 21° \$\oldsymbol{\Omega}\$ 10'41 0° \$\mathbf{m}\$ 17° \$\mathbf{m}\$ 14'28 0° \$\neq\$\$\frac{\sigma}{\sigma}\$ 30'00 9° \$\neq\$\$\frac{\sigma}{\sigma}\$ 10'18 8° \$\neq\$\$\sigma 29'33 9° \$\neq\$\$\sigma 51'00 17° \$\neq\$\$\sigma 10'26	1°34'04 1.33515 AU 27°21'34 0.64325 AU -2°42'10 2°40'32 17°55'51

greatest brilliancy	3646 Dec 31 15:24	26° ප 18'33	-0.6m		3647 Dec 07 08:52	0°ಕ	
greatest orimancy	3647 Jan 03 04:25	20 ℃18 33 0°≈	-0.0111	evening max el	3647 Dec 07 08:32 3647 Dec 27 07:28	0 8 26° る 37'12	21°24'07
evening max el	3647 Jan 13 09:09	0 ~ 13° ≈ 04'15	20°14'58	evening max er	3647 Dec 31 04:37	20°≈	21 2407
asc. node	3647 Jan 20 09:35	17°≈36'36	20 1436	retrograde	3648 Jan 05 03:04	0 ~ 1° ≈ 51'12	
retrograde	3647 Jan 21 05:26	17°≈40'21		asc. node	3648 Jan 07 06:37	1°≈26'03	
evening set	3647 Jan 25 00:21	16°≈17'00		evening set	3648 Jan 09 08:00	0°≈12'37	
inferior conj	3647 Jan 30 09:49	10°≈11'55	2°53'39	evening set	3648 Jan 09 14:12	30°Rる	
minimum elong	3647 Jan 30 07:22	10°≈20'13	2°53'03	inferior conj	3648 Jan 14 16:21	23°る57'14	2°18'14
min. Earth dist.	3647 Jan 31 04:20	9°≈09'13	0.67253 AU	minimum elong	3648 Jan 14 13:54		2°17'27
morning rise	3647 Feb 04 14:10	3°≈58'02	0.07203110	min. Earth dist.	3648 Jan 14 22:31	23° る 35'55	0.67808 AU
direct	3647 Feb 10 08:11	1°≈24'02		morning rise	3648 Jan 19 19:36	17°る44'47	0.07000710
morning max el	3647 Feb 21 21:38	8°≈18'40	24°46'29	direct	3648 Jan 24 23:00	15° る 30'43	
desc. node	3647 Feb 26 15:33	13° ≈ 34'06	21 102)	morning max el	3648 Feb 04 06:31	21° る 38'34	23°17'49
dose. Hode	3647 Mar 10 22:04	0° ∀		morning mun vi	3648 Feb 11 11:51	0°≈	25 17 19
morning set	3647 Mar 29 23:25	0° Υ 42'09		desc. node	3648 Feb 13 12:37	2°≈38'04	
morning sec	3647 Mar 29 13:53	0°Υ		dese. node	3648 Mar 03 05:11	0° ∀	
max. Earth dist.	3647 Apr 02 14:35	7° Υ 14'49	1.37170 AU	morning set	3648 Mar 10 05:43	11°) 27'44	
max. Earth dist.	3017 11p1 02 11.33	, , , , , ,	1.57170110	max. Earth dist.	3648 Mar 14 09:21	18°) 33'42	1.39321 AU
superior conj	3647 Apr 09 04:43	19° Ƴ 43'42	-1°24'10	max. Earth dist.	3648 Mar 20 18:48	0° Υ	1.57521 710
minimum elong	3647 Apr 09 09:00	20° Υ 04'36			3040 Mai 20 10.40	0 1	
minimum crong	3647 Apr 14 09:04	0°8	1 23 32	superior conj	3648 Mar 22 00:19	2° Υ 16'16	-1°47'51
evening rise	3647 Apr 17 16:30	6° 8 38'20		minimum elong	3648 Mar 22 04:55	2° Υ '37'37	
asc. node	3647 Apr 18 08:52	7° 8 59'57		evening rise	3648 Mar 31 10:36	20°Υ14'44	1 1/21
use. Houe	3647 May 01 00:41	0° I		asc. node	3648 Apr 04 05:55	27° Y '30'14	
evening max el	3647 May 04 14:46	4° Ⅱ 07'01	19°22'41	use. Hode	3648 Apr 05 14:13	0°8	
retrograde	3647 May 13 21:23	8° I 37'25	1,9 22	evening max el	3648 Apr 16 16:19	16° 8 24'41	18°37'42
evening set	3647 May 15 21:32	8° II 25'41		retrograde	3648 Apr 24 13:01	20° 8 16'12	10 37 12
inferior conj	3647 May 24 10:09	4° Ⅱ 18'40	0°20'50	evening set	3648 Apr 26 19:10	19° 8 58'16	
minimum elong	3647 May 24 11:02	4° Ⅱ 17'14	0°20'31	inferior conj	3648 May 04 11:51	15° 8 32'52	1°54'45
desc. node	3647 May 25 14:42	3° П 31'48	0 2031	minimum elong	3648 May 04 15:25	15° 8 26'03	1°53'39
min. Earth dist.	3647 May 27 02:59	2° I 33'08	0.55996 AU	min. Earth dist.	3648 May 07 20:41	12° 8 59'50	0.57726 AU
mm. zarm u.st.	3647 May 31 19:35	30°R₩	0.00990110	desc. node	3648 May 11 11:45	10° 8 40'59	0.57720110
morning rise	3647 Jun 01 21:35	29° 8 34'45		morning rise	3648 May 12 08:29	10° 8 15'04	
direct	3647 Jun 06 15:15	28° 8 43'34		direct	3648 May 18 01:58	8° 8 52'57	
anoct	3647 Jun 12 09:57	0°II		morning max el	3648 Jun 01 10:48	16° 8 28'45	26°33'48
morning max el	3647 Jun 20 18:27	5° I 53'51	25°07'34	morning mun vi	3648 Jun 12 12:11	0°II	20 33 .0
	3647 Jul 08 04:42	0°9	20 0, 3.		3648 Jun 29 10:43	0°©	
asc. node	3647 Jul 15 08:08	13° © 46'51		morning set	3648 Jun 30 15:14	2° © 29'01	
morning set	3647 Jul 17 04:41	17° © 39'38		asc. node	3648 Jul 01 05:12	3°942'51	
morning sec	3647 Jul 22 21:24	0° Ω		use. Hour	50.10 041 01 05.12	3201	
	30.7 vai 22 21.2.	000		superior conj	3648 Jul 07 15:09	17°9541'17	1°02'55
superior conj	3647 Jul 24 03:32	2° Ω 45'00	1°20'48	minimum elong	3648 Jul 07 12:54	17°928'54	1°02'31
minimum elong	3647 Jul 24 01:12	2°Ω32'17	1°20'30	max. Earth dist.	3648 Jul 07 21:38	18°917'02	1.32148 AU
max. Earth dist.	3647 Jul 25 10:58	5° Ω 36'34	1.32626 AU	man. Darin dist.	3648 Jul 13 06:46	0°Ω	1.521.0110
evening rise	3647 Jul 31 07:02	18° Ω 00'19	1.52020110	evening rise	3648 Jul 14 12:52	2° Ω 39'11	
0.0000	3647 Aug 06 09:27	0° m/			3648 Jul 29 06:38	0° m)	
desc. node	3647 Aug 21 14:02	24° mp 45'31		desc. node	3648 Aug 07 11:03	13° m 02'58	
	3647 Aug 25 13:35	0∘ ರ		evening max el	3648 Aug 13 23:24	20° m/ 12'45	26°52'22
evening max el	3647 Sep 01 18:59		27°23'32	retrograde	3648 Aug 27 21:22	27° m/24'00	· -
retrograde	3647 Sep 15 13:39	15° ≙ 13'44		evening set	3648 Sep 03 19:54	25° m 18'54	
evening set	3647 Sep 22 18:14	12° - 44′25		min. Earth dist.	3648 Sep 07 13:34	22° m/40'35	0.60594 AU
min. Earth dist.	3647 Sep 26 08:52	9° £ 47'58	0.62578 AU	inferior conj	3648 Sep 10 18:41	19° m 59'57	
inferior conj	3647 Sep 29 05:44	7° £ 04'31		minimum elong	3648 Sep 11 00:10	19° m 48'27	
minimum elong	3647 Sep 29 11:25	6° £ 50'57		morning rise	3648 Sep 18 06:20	15° m) 13'52	
morning rise	3647 Oct 06 06:13	1° £ 57'19		direct	3648 Sep 20 15:14	14° m 52'04	
direct	3647 Oct 08 15:45	1° £ 31'17		asc. node	3648 Sep 27 04:26	17° m) 46'21	
asc. node	3647 Oct 11 07:22	2° ₽ 04'01		morning max el	3648 Sep 27 22:51	18° m) 28'54	18°04'55
morning max el	3647 Oct 15 09:54	4° £ 58'36	17°50'55	<i>5 5</i>	3648 Oct 06 06:56	0∘ ⊽	
morning set	3647 Oct 31 11:25	29° ≏ 58'29		morning set	3648 Oct 13 17:55	13° ≏ 29'07	
5	3647 Oct 31 11:45	0°M		<i>3</i> - <i>y</i> -	3648 Oct 22 17:11	0° M	
superior conj	3647 Nov 11 18:59	19° M .43'02	0°39'22	superior conj	3648 Oct 23 13:22	1°ML30'10	1°11'08
minimum elong	3647 Nov 11 22:29	19°ML57'50	0°38'53	minimum elong	3648 Oct 23 17:32	1°ML48'46	1°10'39
desc. node	3647 Nov 17 13:23	29°M17'26		max. Earth dist.	3648 Oct 31 04:46	14°ML42'52	1.41738 AU
	3647 Nov 17 13:23 3647 Nov 17 23:50	0° ₹		desc. node	3648 Nov 03 10:24	20°M03'55	
max. Earth dist.	3647 Nov 18 17:55	1° × 13'19	1.43465 AU	evening rise	3648 Nov 05 15:26	23°MJ38'41	
evening rise	3647 Nov 26 16:10	13° × ⁷ 46'57			3648 Nov 09 15:47	0° ⊼ ¹	
						- •-	

	3648 Nov 30 09:23	0°ರ			3649 Oct 14 21:19	0°M	
evening max el	3648 Dec 09 00:46	10° පි 12'06	22°41'27	evening rise	3649 Oct 17 12:51	4°M31'18	
retrograde	3648 Dec 18 22:35	16° る 05'09	,	desc. node	3649 Oct 21 07:24	10°M46'10	
evening set	3648 Dec 23 15:21	14° る 10'17			3649 Nov 02 19:55	0° ∡ ¹	
asc. node	3648 Dec 24 03:41	13° る 43'22		evening max el	3649 Nov 21 14:31	23° х 50'09	24°01'22
inferior conj	3648 Dec 29 00:07	7°る48'08	1°35'21	3	3649 Nov 30 11:42	0°⋜	
minimum elong	3648 Dec 28 22:09	7°る54'57	1°34'36	retrograde	3649 Dec 02 14:51	0°る18'44	
min. Earth dist.	3648 Dec 28 18:57	8° ප 06'00	0.67983 AU	C	3649 Dec 04 15:31	30°₽. ✓	
morning rise	3649 Jan 03 04:49	1° る 38'50		evening set	3649 Dec 07 20:46	28° х 07'34	
S	3649 Jan 06 04:31	30°R <i>≯</i> 7		asc. node	3649 Dec 11 00:43	24° √ 43'29	
direct	3649 Jan 07 17:29	29° ∡ 747'37		min. Earth dist.	3649 Dec 12 15:21	22° ∡ ³36'32	0.67800 AU
	3649 Jan 09 07:49	0°ರ		inferior conj	3649 Dec 13 07:20	21° ∡ ¹42'25	0°46'11
morning max el	3649 Jan 16 19:06	5° ರ 06'04	21°51'01	minimum elong	3649 Dec 13 06:15	21° ∡ ¹46′04	0°45'45
desc. node	3649 Jan 30 09:40	22° ප 16'11		morning rise	3649 Dec 18 15:46	15° ∡ ³38'12	
	3649 Feb 04 17:55	0° ≈		direct	3649 Dec 22 14:38	14° ₹ '09'36	
morning set	3649 Feb 18 07:10	20°≈50'24		morning max el	3649 Dec 30 14:39	18° ∡ ¹45'06	20°33'09
_	3649 Feb 23 21:59	0° ℋ		-	3650 Jan 08 17:48	o°ප	
max. Earth dist.	3649 Feb 24 08:13	0°) 42'33	1.41462 AU	desc. node	3650 Jan 17 06:41	12° る 19'03	
				morning set	3650 Jan 28 08:38	29° る 09'57	
superior conj	3649 Mar 04 00:48	13° 升 52′27	-2°03'35	-	3650 Jan 28 21:31	0° ≈	
minimum elong	3649 Mar 04 03:39	14°) €04'58	2°03'29	max. Earth dist.	3650 Feb 06 14:37	13° ≈ 47′26	1.43293 AU
	3649 Mar 12 22:59	$0^{\circ}\mathbf{\Upsilon}$					
evening rise	3649 Mar 14 16:57	3° Ƴ 13'40		superior conj	3650 Feb 13 01:14	24° ≈ 21'36	-2°06'19
asc. node	3649 Mar 22 02:58	16° Ƴ 37'37		minimum elong	3650 Feb 12 23:25	24°≈14'01	2°06'18
evening max el	3649 Mar 31 00:43	29° Ƴ 11'25	18°12'42		3650 Feb 16 09:38	0° ∀	
	3649 Mar 31 21:44	9° 8		evening rise	3650 Feb 25 07:24	15°) 26′45	
retrograde	3649 Apr 06 23:23	2° 8 40'51		-	3650 Mar 05 16:49	0° Y	
evening set	3649 Apr 09 12:00	2° 8 13'55		asc. node	3650 Mar 09 00:01	5° Ƴ 15′02	
	3649 Apr 13 09:58	30° ₹Ƴ		evening max el	3650 Mar 14 12:42	12° Ƴ 19'06	18°07'18
inferior conj	3649 Apr 16 10:42	27° Y 27'32	2°56'13	retrograde	3650 Mar 21 00:46	15° Ƴ 41'55	
minimum elong	3649 Apr 16 14:00	27° Y 20'07	2°55'31	evening set	3650 Mar 23 19:12	15° Ƴ 04'27	
min. Earth dist.	3649 Apr 19 19:45	24° Ƴ 28'17	0.59844 AU	inferior conj	3650 Mar 30 03:47	9° Ƴ 57'46	3°28'25
morning rise	3649 Apr 23 13:36	21° Y 43'45		minimum elong	3650 Mar 30 05:29	9° Ƴ 53'26	3°28'15
desc. node	3649 Apr 28 08:49	19° Ƴ 54'05		min. Earth dist.	3650 Apr 02 02:54	6° Ƴ 57'03	0.62008 AU
direct	3649 Apr 30 01:05	19° Ƴ 46'16		morning rise	3650 Apr 05 14:14	3° Y 57'51	
morning max el	3649 May 14 09:08	27° Y 36'50	27°31'02	direct	3650 Apr 12 10:43	1° Ƴ 29'49	
_	3649 May 16 16:15	$B_{\circ 0}$		desc. node	3650 Apr 15 05:52	1° Y 52'26	
	3649 Jun 06 03:48	$\Pi^{\circ}0$		morning max el	3650 Apr 26 13:48	9° Ƴ 27'51	27°51'29
morning set	3649 Jun 14 22:50	17° Ⅲ 07'08			3650 May 12 11:31	0°8	
asc. node	3649 Jun 18 02:15	23° Ⅱ 46'48			3650 May 29 08:09	$\Pi^{\circ}0$	
	3649 Jun 20 22:47	0°ತಾ		morning set	3650 May 30 01:30	1° Ⅲ 27'57	
max. Earth dist.	3649 Jun 21 09:27	0° © 58'37	1.32067 AU	asc. node	3650 Jun 04 23:17	13° Ⅲ 54'33	
				max. Earth dist.	3650 Jun 04 18:27	13° Ⅲ 28′24	1.32393 AU
superior conj	3649 Jun 22 02:45	2° © 33'47	0°41'11				
minimum elong	3649 Jun 22 01:02	2° 5 24'22	0°40'50	superior conj	3650 Jun 06 12:36	17° Ⅲ 17'13	0°16'17
evening rise	3649 Jun 28 22:34	17° © 26'37		minimum elong	3650 Jun 06 11:51	17° Ⅲ 13′07	0°16'06
•	3649 Jul 05 03:17	$0^{\circ}\Omega$		•	3650 Jun 12 08:41	0°€	
desc. node	3649 Jul 25 08:03	0° mp 08'13		evening rise	3650 Jun 13 10:09	2°516'10	
	3649 Jul 25 04:53	0°mp		-	3650 Jun 28 11:15	$0^{\circ}\Omega$	
evening max el	3649 Jul 26 20:27	1° m 38'34	25°49'07	evening max el	3650 Jul 08 10:50	12° Ω 21′06	24°21'52
retrograde	3649 Aug 09 19:50	8° m 46'07		desc. node	3650 Jul 12 05:05	15° Ω 32'37	
evening set	3649 Aug 15 23:47	7° m 15'53		retrograde	3650 Jul 22 07:23	19° Ω 20'47	
min. Earth dist.	3649 Aug 20 08:39	4° الله 39'00	0.58528 AU	evening set	3650 Jul 27 03:34	18° Ω 28'25	
inferior conj	3649 Aug 23 14:04	2° m 19'11	-5°03'25	min. Earth dist.	3650 Aug 01 21:40	15° Ω 34'20	0.56655 AU
minimum elong	3649 Aug 23 16:48	2° m 14'13	5°03'12	inferior conj	3650 Aug 04 13:20	13° Ω 53'53	-5°03'57
	3649 Aug 26 23:24	30° R Ω		minimum elong	3650 Aug 04 10:33	13° Ω 58'18	5°03'46
morning rise	3649 Aug 31 12:02	27° Ω 56′22		morning rise	3650 Aug 12 20:10	9° £ 52′02	
direct	3649 Sep 02 23:24	27° Ω 36'37		direct	3650 Aug 15 12:22	9° Ω 32'51	
	3649 Sep 09 09:41	0° m		morning max el	3650 Aug 25 02:15	14° Ω 00'31	19°35'21
morning max el	3649 Sep 11 05:20	1° m 32'45	18°39'22	asc. node	3650 Aug 31 22:32	22° Ω 31′27	
asc. node	3649 Sep 14 01:29	4° m 40'34			3650 Sep 05 09:09	0° m p	
morning set	3649 Sep 27 11:58	27° m 32'47		morning set	3650 Sep 11 13:56	11° m 59'01	
	3649 Sep 28 18:14	0∘ ⊽					
				superior conj	3650 Sep 19 12:54	27° m 57'53	1°42'14
superior conj	3649 Oct 06 05:11	14° ≏ 20'31	1°31'41	minimum elong	3650 Sep 19 14:13	28° m 04'20	1°42'11
minimum elong	3649 Oct 06 08:12	14° ≏ 34'42	1°31'26		3650 Sep 20 13:48	0∘ ত	
max. Earth dist.	3649 Oct 13 10:58	27° ≏ 30′21	1.39706 AU	max. Earth dist.	3650 Sep 25 15:14	9° 亞 38'30	1.37629 AU

evening rise	3650 Sep 29 09:21	16° ≏ 27'40			3651 Aug 28 11:37	0° m	
	3650 Oct 07 08:38	0°M₊					
desc. node	3650 Oct 08 04:23	1° ™ 19'47		superior conj	3651 Sep 03 08:00	12°Mp09'11	1°44'25
	3650 Oct 28 07:49	0° ∡ ¹		minimum elong	3651 Sep 03 07:43	12°Mp07'45	1°44'24
evening max el	3650 Nov 04 02:44	7° ∡ ³30′56	25°17'14	max. Earth dist.	3651 Sep 07 23:30	21° m 29'49	1.35752 AU
retrograde	3650 Nov 16 02:51	14° ₹ 26'47		evening rise	3651 Sep 12 01:36	29° Th 20'02	
evening set	3650 Nov 21 22:37	12°×700'52	0.65050.444		3651 Sep 12 10:11	0∘ ʊ	
min. Earth dist.	3650 Nov 26 09:25	7°× 7 04'09	0.67273 AU	desc. node	3651 Sep 25 01:24	21° Ω 40'01	
inferior conj	3650 Nov 27 12:12	5° ∡ ³37'13			3651 Sep 30 13:19	0°M	26021125
minimum elong	3650 Nov 27 12:24	5° ₹36'32	0°08'05	evening max el	3651 Oct 17 15:09	21°M12'13	26°21'35
transit middle	3650 Nov 27 12:24	5° ₹36'32	0°08'05	retrograde	3651 Oct 30 09:53	28°M23'55	
transit begin	3650 Nov 27 10:00	5° 🖈 44'23		evening set	3651 Nov 05 19:04	25°M47'01	0.66405.411
transit end	3650 Nov 27 14:49	5° ₹28'42		min. Earth dist.	3651 Nov 09 22:50	21°M25'45	0.66405 AU
asc. node	3650 Nov 27 21:46	5° ₹ 06'14		inferior conj	3651 Nov 11 12:53	19°M29'40	
marning rise	3650 Dec 02 15:11	30°RM 29°M40'08		minimum elong asc. node	3651 Nov 11 14:41	19°M24'10 15°M48'46	1°05'44
morning rise	3650 Dec 03 02:27 3650 Dec 06 13:07	29 11640 08 28°M31'44			3651 Nov 14 18:47 3651 Nov 17 10:52	13°M42'22	
direct	3650 Dec 10 16:54	20 11631 44 0° 🗷		morning rise			
mamina may al		0° x ¹ 2° x ¹34'42	19°28'27	direct morning max el	3651 Nov 20 11:25	12°M50'33 16°M31'40	10020115
morning max el	3650 Dec 13 18:05 3650 Dec 26 23:29	20°×3442	-0.7m	morning max er	3651 Nov 27 04:21	10 11631 40 0° √ 7	18°39'15
greatest brilliancy	3651 Jan 02 10:15	20 x・1201 0°る	-0.7111	marning sat	3651 Dec 07 06:41 3651 Dec 18 00:20	0 x . 16° x 751'05	
desc. node	3651 Jan 04 03:41	0 3 2° る 39'17		morning set desc. node		23° × 12'12	
	3651 Jan 04 03:41 3651 Jan 07 06:19	7° る 27'21		desc. node	3651 Dec 22 00:41 3651 Dec 26 08:10	0°る	
morning set max. Earth dist.	3651 Jan 20 03:29	7 3 2721 27° る 34'44	1.44589 AU		3031 Dec 20 08.10	0.0	
max. Earm dist.	3651 Jan 21 16:08	27 O 34 44 0° ≈	1.44389 AU	superior conj	3652 Jan 03 04:15	12° る 18'18	1016142
	3031 Jan 21 10.08	0 ≈			3652 Jan 02 19:28	12 3 18 18	
aumorior comi	3651 Jan 23 23:47	3° ≈ 41'45	1951102	minimum elong max. Earth dist.	3652 Jan 02 19.28 3652 Jan 02 20:58	11 843 30 11° る 49'41	1.45208 AU
superior conj minimum elong	3651 Jan 23 16:12	3°≈11'28		max. Earth dist.	3652 Jan 14 09:36	0°≈	1.43208 AU
evening rise	3651 Feb 07 01:30	3 ≈11 28 26°≈44'50	1 30 30	evening rise	3652 Jan 18 20:24	0 ≈ 7°≈05'25	
evening rise	3651 Feb 07 01:30 3651 Feb 09 00:06	20 ≈ 44 30		•	3652 Jan 26 21:42	19°≈57'28	-0.8m
asc. node	3651 Feb 23 21:03	23°)(12'39		greatest brilliancy	3652 Feb 02 09:58	19 ≈3728 0° H	-0.8111
	3651 Feb 26 01:18	25° X 39'34	18°20'57	evening max el	3652 Feb 02 09:38 3652 Feb 09 11:59	9° ₩ 07'16	18°52'35
evening max el retrograde	3651 Mar 04 12:24	29° X 09'08	16 20 37	asc. node	3652 Feb 10 18:04	10° X 18'51	16 32 33
evening set	3651 Mar 07 12:34	29 \(\tag{0908}\)		retrograde	3652 Feb 16 16:04	10 X 1831 12° X 55'02	
inferior conj	3651 Mar 13 10:54	28 X 2003 22° X 54'37	3°37'55	evening set	3652 Feb 19 12:54	12 X 53 02 11° X 53'25	
minimum elong	3651 Mar 13 10:50	22°) 54'47	3°37'55	inferior conj	3652 Feb 25 04:14	6°¥10′50	2020126
min. Earth dist.	3651 Mar 15 10:30	20° X 13'36	0.63964 AU	minimum elong	3652 Feb 25 02:48	6° X 15'15	3°30'17
morning rise	3651 Mar 19 08:16	16°) (46'14	0.03904 AU	min. Earth dist.	3652 Feb 26 21:13	4°) €03'35	0.65569 AU
direct	3651 Mar 26 04:54	13°) 59'33		morning rise	3652 Mar 01 16:18	29°≈58'35	0.03309 AO
desc. node	3651 Apr 02 02:53	16°) 18'07		morning risc	3652 Mar 01 15:40	30°R≈	
morning max el	3651 Apr 08 22:25	21° X 56'20	27°34'58	direct	3652 Mar 08 06:01	27°≈07'36	
morning max er	3651 Apr 15 23:51	0°Υ	27 3430	direct	3652 Mar 15 17:49	0° ∺	
	3651 May 05 15:38	0°8		desc. node	3652 Mar 18 23:55	2° 升 36'39	
morning set	3651 May 13 20:47	15° 8 23'55		morning max el	3652 Mar 21 08:12	4° H 50'54	26°46'32
max. Earth dist.	3651 May 18 20:34		1.33149 AU	morning max or	3652 Apr 09 12:46	0°Υ	20 1032
max. Earth dist.	3651 May 20 23:00	0°Ⅱ	1.55117110	morning set	3652 Apr 26 05:24	28° Υ 44'25	
	3031 May 20 23.00	٠ <u>ــ</u>		morning sec	3652 Apr 26 21:12	0°8	
superior conj	3651 May 21 18:54	1° ∏ 46′04	-0°11'05	max. Earth dist.	3652 Apr 30 12:22		1.34370 AU
minimum elong	3651 May 21 19:28	1° ∏ 49'03			r ·		
behind sun begin	3651 May 21 15:31	1° Ⅱ 28′00		superior conj	3652 May 04 19:28	15° 8 53'09	-0°39'50
behind sun end	3651 May 21 23:24	2° Ⅱ 10′06		minimum elong	3652 May 04 21:33	16° 8 04'01	0°39'25
asc. node	3651 May 22 20:19	4° ∏ 02'12		asc. node	3652 May 08 17:21	24° 8 05'10	
evening rise	3651 May 28 21:46	17° Ⅱ 01'59			3652 May 11 12:51	0°II	
	3651 Jun 04 08:14	0ಂಣ		evening rise	3652 May 12 07:30	1° Ⅱ 37'17	
evening max el	3651 Jun 20 00:28	22°5546'09	22°45'08	Ü	3652 May 28 18:09	0ಂಣ	
desc. node	3651 Jun 29 02:06	28° © 41'52		evening max el	3652 May 31 21:09	3°525'22	21°13'43
retrograde	3651 Jul 03 06:32	29° © 22'00		retrograde	3652 Jun 12 19:57	9° © 17'02	
evening set	3651 Jul 06 14:20	28° © 57'45		desc. node	3652 Jun 14 23:08	9° 5 06'30	
min. Earth dist.	3651 Jul 14 08:45	25° © 32'28	0.55326 AU	evening set	3652 Jun 15 02:42	9° © 05'00	
inferior conj	3651 Jul 15 17:53	24°544'58		inferior conj	3652 Jun 24 11:47	5° © 06'33	-2°43'58
minimum elong	3651 Jul 15 10:05	24° © 56'11	4°16'18	minimum elong	3652 Jun 24 04:27	5° © 16'50	
morning rise	3651 Jul 24 08:02	20° © 53'49		min. Earth dist.	3652 Jun 24 20:04	4° © 54'55	0.54842 AU
direct	3651 Jul 27 07:12	20° © 33'25		morning rise	3652 Jul 03 06:34	1° © 08'43	
morning max el	3651 Aug 07 11:35	25° © 45'09	20°52'27	direct	3652 Jul 06 17:00	0°9543'13	
Č	3651 Aug 11 09:49	$0^{\circ}\Omega$		morning max el	3652 Jul 19 09:43	6° © 45'13	22°27'06
asc. node	3651 Aug 18 19:33	11° Ω 06′11		asc. node	3652 Aug 04 16:35	0° Ω 13′23	
morning set	3651 Aug 26 21:10	26° Ω 40′53			3652 Aug 04 13:46	$0^{\circ}\Omega$	
Č	<u> </u>	-			5		

Section Sect	morning max el	3654 Jun 12 15:26	27° 8 40'24	25°47'09	morning max el	3655 May 25 10:18	8° 8 28'09	27°02'18
Both morning set Sof-Alm 10 91 30 30 11 12 13 13 14 13 14 14 14 14		3654 Jun 14 22:07	0° I I			3655 Jun 10 17:38	0°II	
mapping and					•			
September Sep					asc. node			
minimum elong 3654 Jul 18 20:19 29°89124 2 19°12 20 minimum elong 3655 Jul 01 13:20 19°89048 0 19°2834 19°89048 0 120°8 AU 20°8914 1 18 20:30 0°Q certain price 3655 Jul 10 18 20:13 19°89048 0 120°8 AU 19°8904	morning set	3034 Jul 10 00.41	11 2010 33			3033 Juli 20 12.42	0 39	
Max. Farth dist	superior conj	3654 Jul 17 05:37	26°525'37	1°13'43	superior conj	3655 Jul 01 17:25	11° 5 21'05	0°54'08
Second S	minimum elong	3654 Jul 17 03:16	26°512'42	1°13'21	minimum elong	3655 Jul 01 15:21	11° © 09'40	0°53'44
Section Sect	max. Earth dist.	3654 Jul 18 02:19	28° 5 19'14	1.32371 AU	max. Earth dist.	3655 Jul 01 13:46	11° © 00'56	1.32058 AU
Second S		3654 Jul 18 20:43			evening rise	3655 Jul 08 13:51		
Sees. nache 36.4 Aug 15 16.29 19° 18° 18° 14 Sees Sees 36.5 Aug 0.2 13.30 7"p4828 Sees Sees 36.5 Aug 0.2 13.30 7"p4828 Sees Sees 18° 12.20 8° 19° 19° 18° 18° 18° 18° 18° 18° 18° 18° 18° 18	evening rise							
centing maxel 36.54 Mag 24 Lor 3.73 0°A eventing maxel 36.54 Mag 24 Lor 3.73 0°A centrograde 26°S Yeg 07 18.24 "T-M9496 retrograde 365.5 Mag 27 15.07 17°B 4937 0.59702 AU retrograde 365.4 Sep 14 22.06 5°A-28*48 retrograde 365.5 Mag 27 15.07 17°B 4937 0.59702 AU min. Earth dist 365.4 Sep 12 13.28 29°B 734 40°390 minimum clong 365 Sep 04 00.33 12°B 2979 4°4700 morning riss 365.4 Sep 12 19.18 29°B 734 40°930 morning maxel 365 Sep 13 12.10 7°B 4271 direct 365.4 Sep 12 19.18 24°B 3950 morning maxel 365 Sep 13 12.10 7°B 4271 direct 365 Sep 21 00.15 30°B 00.07 7°B 474 morning maxel 365 Oct 07 11.26 6°B 4071 2°B 1973 morning maxel 365 Oct 02 23.23 22°B 1987 17°5434 morning maxel 365 Oct 16 22.03 2°B 4170 1°2110 sexprior conj 3654 Oct 03 31.84 12°B 112.29 9°S 342 morning maxel 365 Oct 16 22.03 2°B 24°B 1170		•						
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Property of the Company 18.34 17.44947 17.44948 18.05 18.0		_				-		26°29'06
Peening set 3654 Sep 14 22.06 \$12,274 22.06 \$12,274 22.06 3654 Sep 10 12.07 3655 Sep 10 12.05 12.78 3825 4.97372 1.016	•	•		27°14'21	•			
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inferior coroj 364 Sep 21 12.58 29°B STA3 3 4'0330 minimum clong 365 Sep 10 40.03 12°B 299 4'47'00 minimum clong 364 Sep 21 12.58 30°K M morning rise 365 Sep 13 21.30 7°B 42'11 morning rise 365 Sep 2 19.18 24°B 5936 morning mac 3655 Sep 21 13.42 11°B 2009 asc. node 365 Oct 0.0055 23°B 5447 asc. node 3655 Oct 0.0013 0°B norning set 365 Oct 0.0055 23°B 5447 morning set 3655 Oct 0.0013 0°B norning set 3654 Oct 2.23.32 22°B 5876 morning set 3655 Oct 2.00 0.13 0°B superior conj 3654 Oct 2.23.32 22°B 35875 superior conj 3655 Oct 1.6 2.22.8 24°B 1104 1°2110 superior conj 3654 Nov 0.1 18.24 12°B 12°B 25°S 22 cvering rise 3654 Nov 0.1 10.23 24°B 12°S 31 12°B 22°B 22°B 22°B 22°B 22°B 22°B 22°B	•	•		0.61752.411			-	
morning rise 3654 Sep 21 19:50 29°th4/31 4°01'59 morning rise 3655 Sep 11 21:06 8°th0/21 11 20°th 3655 Sep 32 11:30 17°th4/21 17°th2/21 17°th2/2		•			•	-	-	
March Mar		•			•			4°47'00
morning rise 3654 Sep 28 1918 24" βy3936 asc. node 3655 Sep 22 6659 22 12" βy0931 asc. node 3655 Oct 3 12" βy0931 asc. node 3655 Oc	minimum eiong	•	•	4-01-39	C	•		
airce of asc, node asc	morning rise	•				•	-•	19917/02
Asc. node 3654 Oct 05 09:55 25**\(\) 54**\(\) 50	•				-	•		18 1/02
morning max el 3654 Oct 08 03.02 28°\$\text{moss 37} 17°\$434 morning set 3655 Oct 10 11:26 6°\text{morning set} 3654 Oct 09 21:15 0°\text{morning set} 3654 Oct 09 21:15 0°\text{morning set} 3654 Oct 27 20:34 22°\text{morning set} 3654 Oct 27 20:34 0°\text{morning set} 3655 Oct 10 18:29 224°\text{morning set} 3655 Oct 10 18:29 24°\text{morning set} 3655 Oct 10 18:39 24°\text{morning set} 3655 Oct 10 18:39 0°\text{morning set} 3655 Oct 10 18:39 0°\text{morning set} 3655 Oct 20 18:30 0°\t			-		asc. Hode	•		
moming set 3654 Oct 09 21:15 09°±0 19°1				17°54'34	morning set			
Maniming set 3654 Oct 23 23:32 22°±28'826 superior conj 3655 Oct 16 18:39 24°±11'04 *12'11'04'	morning max cr			17 3434	morning sec	3033 001 07 11.20	0 = ++ 10	
superior conj 3654 Oct 27 20:34 0°RL minimum clong 3655 Oct 20 00:13 0°RL 22:28 24° 28:29 1°2046 superior conj 3654 Nov 03 14:28 11°RL55'13 0°5415 max. Earth dist. 3655 Oct 20 00:13 0°RL 7°RL33'38 1.40889 AU desc. node 3654 Nov 11 00:23 24°RL23'58 1.42774 AU desc. node 3655 Nov 20 07:00 0°Z 16°RL120'3 desc. node 3654 Nov 11 11:54 25°RL26'9 evening max el 3655 Nov 20 05:27 0°Z 0°Z evening rise 3654 Nov 11 11:57 25°RL26'9 evening max el 3655 Nov 20 05:27 0°Z 0°Z evening max el 3654 Dec 04 06:25 0°Z evening max el 3655 Dec 02 07:37 3°S1900 22°815'33 evening max el 3654 Dec 19 16:10 19°Z4'19'29 21°8615 evening max el 3655 Dec 07 15:115 7°Z6'51' errorgade 3665 Lan 0 10 0:11 22°Z4'14'8 asc. node 3655 Lan 0 10 0:11 22°Z4'14'8 asc. node 3655 Lan 0 0:10 9°Z6'12'13' 19°Z6'12'2' 19°Z6'12'2'	morning set				superior coni	3655 Oct 16 18:39	24° Ω 11'04	1°21'10
superior conj minimum elong max. Earth dist. 3654 Nov 03 18.28 12°RL12'59 0°53'42 evening rise 3655 Nov 0 0°7.05 3655	morning sec							
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minimum elong	superior conj	3654 Nov 03 14:28	11°M55'13	0°54'15	max. Earth dist.			1.40889 AU
max. Earth dist.								
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evening rise 3654 Nov 17 17:55 5° x 12'00 retrograde 3655 Dec 02 07:37 3° ₹19'01 23°15'33 or retrograde 3654 Dec 04 06:25 0° ₹ retrograde 3655 Dec 12 17:10 9° ₹28'32 1° ₹26'51 retrograde 3654 Dec 19 16:10 19° ₹43'32 21°56'15 evening set 3655 Dec 17 15:15 7° ₹26'51 retrograde 3654 Dec 28 22'49 25° ₹14'48 asc. node 3655 Dec 19 06:13 5° ₹52'19 asc. node 3655 Jan 01 09:11 24° ₹11'19 min. Earth dist. 3655 Dec 21 4:52 1° ₹36'17 0.67942 AU evening set 3655 Jan 01 09:11 24° ₹11'19 min. Earth dist. 3655 Dec 22 14:52 1° ₹36'17 0.67942 AU evening set 3655 Jan 07 16:33 17° ₹10'15 2°00'53 minimum elong 3655 Dec 23 00:37 1° ₹02'46 1° 15'13 minimum elong 3655 Jan 07 18:03 17° ₹06'09 0.67922 AU morning rise 3655 Dec 23 18:57 30° ₹2 22'59 1° ₹08'82 5° 14'34 minimum elong 3655 Jan 12 20'2.7 10° ₹58'50 morning max el 3655 Jan 12 20'2.7 10° ₹58'50 morning max el 3655 Jan 17 17'2.3 8° ₹54'32 morning max el 3655 Jan 17 17'2.3 8° ₹54'32 morning max el 3655 Jan 17 17'2.3 8° ₹54'32 morning max el 3655 Feb 08 21:37 0° ≈ 12'11 41° ₹41'38 22° 40'14 36'56 Jan 10 03:21 28° ₹13'14 21° 16'26 morning max el 3655 Feb 08 21:37 0° ≈ 136'55 Feb 28 18:56 0° ₹4 morning set 3655 Feb 08 21:37 0° ≈ 136'55 Feb 28 18:56 0° ₹45'72 morning max el 3655 Mar 07 09'13 10° ₹58'04 1.40251 AU max. Earth dist. 3655 Mar 15 03:59 24° ₹39'46 -1° \$54'64 max. Earth dist. 3655 Mar 15 03:59 24° ₹39'46 -1° \$54'64 max. Earth dist. 3655 Mar 18 01:51 0° ₹0' 24° ₹39'46 -1° \$54'64 minimum elong 3655 Mar 18 01:51 0° ₹0' 24° ₹39'46 -1° \$54'64 minimum elong 3655 Mar 18 01:51 0° ₹0' 24° ₹39'46 -1° \$54'64 minimum elong 3655 Mar 10 06:12 9° \$0'01'12 asc. node 3656 Mar 10 06:12 0° ₹0' ₹11'12 asc. node 3655 Mar 10 06:12 0° ₹0' ₹11'12 asc. node 3655 Mar 10 06:12 0° ₹0' ₹11'12 asc. node 3655 Mar 10 06:12 0° ₹0' ₹11'12 asc. node 3655 Mar 20 01:03 12° ₹26'47'21 evening set 3656 Mar 30 09:26 25° ₹29'11 1 evening set 3655 Mar 20 01:03 12° ₹26'47'21 evening set 3656 Mar 30 09:26 25° ₹29'11 1 evening set 3655 Mar 20 01:03 12° ₹26'47'21 evening set 3656 Mar 30 09:26 25° ₹29'11 1 evening set 3	desc. node	3654 Nov 11 15:47	25°M26'59			3655 Nov 07 07:05	0° ∡ ¹	
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evening max el 3655 Apr 10 06:12 9°807'04 18°24'34 retrograde 3656 Mar 30 09:26 25°\gamma29'11 retrograde 3655 Apr 17 16:15 12°\beta47'21 evening set 3656 Apr 02 00:36 24°\gamma575'57 evening set 3655 Apr 20 01:03 12°\beta26'00 inferior conj 3656 Apr 08 16:50 20°\gamma03'07 30'13'01 inferior conj 3655 Apr 27 09:43 7°\beta51'55 2°24'44 minimum elong 3656 Apr 08 19:33 19°\gamma56'42 3°12'34 minimum elong 3655 Apr 27 13:27 7°\beta4'17 2°23'44 min. Earth dist. 3656 Apr 11 22:44 17°\gamma00'05 0.60777 AU min. Earth dist. 3655 Apr 30 20:21 5°\beta04'24 0.58601 AU morning rise 3656 Apr 20 05:07 11°\gamma59'31 direct 3656 Apr 22 05:07 11°\gamma59'31 desc. node 3656 Apr 22 11:16 11°\gamma59'42	asc. node	3655 Mar 30 08:29	23° Y 01'12		asc. node	3656 Mar 16 05:31	11° Y 57'05	
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inferior conj 3655 Apr 27 09:43 7°\\$51'55 2°24'44 minimum elong 3656 Apr 08 19:33 19°\\$76'42 3°12'34 minimum elong 3655 Apr 27 13:27 7°\\$44'17 2°23'44 min. Earth dist. 3656 Apr 11 22:44 17°\\$70'05 0.60777 AU min. Earth dist. 3655 Apr 30 20:21 5°\\$04'24 0.58601 AU morning rise 3656 Apr 15 12:26 14°\\$711'30 morning rise 3655 May 04 22:49 2°\\$21'22 direct 3656 Apr 22 05:07 11°\\$759'31 desc. node 3655 May 06 14:14 1°\\$36'12 desc. node 3656 Apr 22 11:16 11°\\$759'42	retrograde	3655 Apr 17 16:15	12° 8 47'21		evening set	3656 Apr 02 00:36	24° Y 57'57	
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min. Earth dist. 3655 Apr 30 20:21 5°804'24 0.58601 AU morning rise 3656 Apr 15 12:26 14°Y11'30 morning rise 3655 May 04 22:49 2°821'22 direct 3656 Apr 22 05:07 11°Y59'31 desc. node 3655 May 06 14:14 1°836'12 desc. node 3656 Apr 22 11:16 11°Y59'42	inferior conj	3655 Apr 27 09:43		2°24'44	minimum elong	3656 Apr 08 19:33		
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desc. node 3655 May 06 14:14 1°♂59'42 desc. node 3656 Apr 22 11:16 11°℃59'42		•		0.58601 AU	=	•		
•		-						
direct 3655 May 11 00:50 0°♂44'04 morning max el 3656 May 06 11:19 19°° Y '54'27 27°44'16		-				-		
	direct	3655 May 11 00:50	0° ठ 44'04		morning max el	3656 May 06 11:19	19 ~Y ′54'27	27~44'16

	3656 May 15 02:17	0° ႘			3657 Apr 16 14:29	0°Υ	
	3656 Jun 02 13:58	0° I I		morning max el	3657 Apr 18 17:45	* .	27°48'48
morning set	3656 Jun 07 21:58	10° Ⅱ 36'03			3657 May 09 09:05	0°8	_,
asc. node	3656 Jun 12 04:47	19° Ⅱ 40′04		morning set	3657 May 22 21:49	24° 8 47'12	
max. Earth dist.	3656 Jun 14 00:44	23° Ⅱ 39'03	1.32154 AU	Č	3657 May 25 10:57	0°II	
				max. Earth dist.	3657 May 28 07:21	6° Ⅱ 00'21	1.32667 AU
superior conj	3656 Jun 15 04:32	26° Ⅱ 11'18	0°31'00	asc. node	3657 May 30 01:48	9° Ⅱ 48'16	
minimum elong	3656 Jun 15 03:11	26° Ⅲ 03'52	0°30'42				
	3656 Jun 16 22:09	0 \circ \odot		superior conj	3657 May 30 13:07	10° Ⅱ 49'25	0°04'58
evening rise	3656 Jun 22 00:37	11° © 05'02		minimum elong	3657 May 30 12:53	10° Ⅱ 48′07	0°04'54
	3656 Jul 01 15:42	$0^{\circ}\Omega$		behind sun begin	3657 May 30 07:53	10° Ⅲ 21′03	
evening max el	3656 Jul 18 17:46	23° Ω 36′06	25°14'15	behind sun end	3657 May 30 17:53	11° Ⅱ 15′13	
desc. node	3656 Jul 19 10:31	24° Ω 15′20		evening rise	3657 Jun 06 12:28	25° Ⅱ 54'04	
	3656 Jul 28 12:13	O° My			3657 Jun 08 11:21	0 \circ \odot	
retrograde	3656 Aug 01 17:07	0° m ,41′09			3657 Jun 26 11:26	$0^{\circ}\Omega$	
	3656 Aug 05 22:01	30°R Ω		evening max el	3657 Jun 30 07:02	4° Ω 07'44	23°40'52
evening set	3656 Aug 07 08:40	29° Ω 27'44		desc. node	3657 Jul 06 07:32	8° Ω 46'49	
min. Earth dist.	3656 Aug 12 05:34	26° Ω 45'17	0.57689 AU	retrograde	3657 Jul 13 22:51	10° Ω 58'52	
inferior conj	3656 Aug 15 06:54	24° Ω 40′21		evening set	3657 Jul 18 03:27	10° Ω 20'17	
minimum elong	3656 Aug 15 07:32	24° Ω 39'15	5°08'31	min. Earth dist.	3657 Jul 24 17:08		0.56014 AU
morning rise	3656 Aug 23 08:47	20° Ω 26'43		inferior conj	3657 Jul 26 21:41	5° Ω 55'43	
direct	3656 Aug 25 21:52	20° Ω 07'23	10000105	minimum elong	3657 Jul 26 16:22	6° Ω 03'44	4°49'59
morning max el	3656 Sep 03 16:26		19°00'25	morning rise	3657 Aug 04 07:48	2° Ω 00'01	
asc. node	3656 Sep 08 04:01	29° Ω 29'37		direct	3657 Aug 07 02:57	1° Ω 40'24	20005127
	3656 Sep 08 12:44	0°M)		morning max el	3657 Aug 17 08:25		20°05'37
morning set	3656 Sep 20 09:15	20° M 58′26 0° <u> </u>		asc. node	3657 Aug 26 01:02	17° Ω 40'27	
	3656 Sep 24 22:49	0-32		morning sot	3657 Sep 01 19:29 3657 Sep 04 13:46	0° Mp 5° Mp 32'19	
superior conj	3656 Sep 28 17:50	7° ≏ 22'48	1°37'17	morning set	303/ Sep 04 13.40	3 11/32 19	
minimum elong	3656 Sep 28 20:08	7° ⊆ 33'53	1°37'17 1°37'08	superior conj	3657 Sep 12 06:53	21° m/ 15'55	1°44'05
max. Earth dist.	3656 Oct 05 13:09	7 = 33 33 20° £ 01'55	1.38818 AU	minimum elong	3657 Sep 12 07:29	21° mp 18'55	1°44'04
evening rise	3656 Oct 09 09:31	26° ⊆ 48'20	1.50010 AC	minimum clong	3657 Sep 16 17:25	ე∘ ഹ	1 4404
evening rise	3656 Oct 11 06:25	0°M		max. Earth dist.	3657 Sep 17 18:53	ა _ 2° ჲ 01'43	1.36802 AU
desc. node	3656 Oct 15 09:48	6°M51'06		evening rise	3657 Sep 21 14:58	9° £ 09'48	1.50002 710
dese. Hode	3656 Oct 30 20:46	0° ⊼		desc. node	3657 Oct 02 06:49	27° ⊆ 19'53	
evening max el	3656 Nov 13 20:38	16° ₹ ′58'38	24°34'40	desc. node	3657 Oct 03 23:23	0°M	
retrograde	3656 Nov 25 07:36	23° х 39'39			3657 Oct 26 16:27	0° ∡ 7	
evening set	3656 Nov 30 19:20	21° ×7 22'12		evening max el	3657 Oct 27 08:58	0° ҂ ¹40′50	25°46'30
asc. node	3656 Dec 05 03:15	16° ∡ ¹29'43		retrograde	3657 Nov 08 17:23	7° ∡ ¹43'59	
min. Earth dist.	3656 Dec 05 10:36	16° ₹ 05'28	0.67618 AU	evening set	3657 Nov 14 19:07	5° ∡ 12'48	
inferior conj	3656 Dec 06 07:03	14° ∡ 57'17	0°23'41	min. Earth dist.	3657 Nov 19 02:53	0° ∡ 31'13	0.66949 AU
minimum elong	3656 Dec 06 06:28	14° ₹ 59'13	0°23'27		3657 Nov 19 12:48	30°RM₊	
morning rise	3656 Dec 11 17:41	8° ≯ 755'38		inferior conj	3657 Nov 20 10:23	28°M51'32	-0°32'31
direct	3656 Dec 15 11:12	7° ∡ ³35'47		minimum elong	3657 Nov 20 11:14	28°M48'50	0°32'08
morning max el	3656 Dec 23 02:06	11° ₹ 55'55	20°03'46	asc. node	3657 Nov 22 00:17	26°M53'58	
	3657 Jan 05 20:25	0°ප		morning rise	3657 Nov 26 03:42	22°M58'24	
desc. node	3657 Jan 11 09:04	8° る 15'06		direct	3657 Nov 29 09:54	21°M57'24	
morning set	3657 Jan 19 00:37	19° る 56'19		morning max el	3657 Dec 06 08:42	25°M49'22	19°05'36
	3657 Jan 25 11:34	0° ≈			3657 Dec 10 00:05	0° ∡	
max. Earth dist.	3657 Jan 29 19:49	6° ≈ 53'16	1.43920 AU	morning set	3657 Dec 29 04:48	28° ∡ ³36′29	
				desc. node	3657 Dec 29 06:05	28° ∡ 41′28	
superior conj	3657 Feb 04 08:02	15°≈47'29		F 4 F	3657 Dec 30 02:14	0°る	1 44041 477
minimum elong	3657 Feb 04 03:37	15°≈29'27	2°02'05	max. Earth dist.	3658 Jan 12 11:41	20° る 57'07	1.44941 AU
	3657 Feb 12 20:31	0°) {			2650 1 14 21 10	240742155	1020125
evening rise	3657 Feb 17 08:23	7° ∺ 41'40 0° Υ		superior conj	3658 Jan 14 21:10	24°₹43'55	
aga mada	3657 Mar 02 21:13	0° Υ 18'44		minimum elong	3658 Jan 14 12:12	24°る08'28	1-3/40
asc. node	3657 Mar 03 02:33 3657 Mar 07 05:15	5° Υ 18'44	18°10'55	evening rise	3658 Jan 18 04:49 3658 Jan 29 16:49	0° ≈ 18° ≈ 35'35	
evening max el retrograde	3657 Mar 13 15:37	3 1 1847 8° Υ 42'37	10 10 33	Cvening 1150	3658 Feb 05 15:51	18 ≈ 33 33	
evening set	3657 Mar 16 12:36	8° Υ 00'09		asc. node	3658 Feb 17 23:35	0 X 17° ¥ 56'07	
inferior conj	3657 Mar 22 16:21		3°34'51	evening max el	3658 Feb 18 17:19	17 X 30 0 7	18°32'16
minimum elong	3657 Mar 22 17:17	2° Υ 4317	3°34'47	retrograde	3658 Feb 25 06:31	22°\(\frac{1}{18}\)'53	10 32 10
	3657 Mar 25 06:06	30° ₹	5 5 . 17	evening set	3658 Feb 28 09:19	21° H 24'28	
min. Earth dist.	3657 Mar 25 09:35	29°) 51'00	0.62877 AU	inferior conj	3658 Mar 06 04:16	15° X 51'11	3°36'34
morning rise	3657 Mar 28 20:50	26°) (31'00	,	minimum elong	3658 Mar 06 03:34	15° ¥ 53'16	3°36'31
direct	3657 Apr 04 18:29	24°) (03'50		min. Earth dist.	3658 Mar 08 06:03	13°) €23'38	0.64691 AU
desc. node	3657 Apr 09 08:18	25°) €04'31		morning rise	3658 Mar 11 21:14	9°) (40'47	-
	1			G -			

direct	3658 Mar 18 15:32	6° ¥ 50'58		direct	3659 Mar 01 19:09	20°≈11'56	
	3658 Mar 27 05:19	10° ¥ 22'26		desc. node		20 ≈11 30 27°≈18'43	
desc. node			27017157		3659 Mar 14 02:20		26010110
morning max el	3658 Apr 01 03:20	14°) 43′09	2/*1/36	morning max el	3659 Mar 14 13:16	27°≈46'02	26°18'19
	3658 Apr 13 14:19	0° Υ			3659 Mar 16 16:05	0°) €	
_	3658 May 02 01:30	0° 8			3659 Apr 07 07:19	0° Υ	
morning set	3658 May 06 13:01	8° 8 29'16		morning set	3659 Apr 19 15:54	21° Y 31'21	
max. Earth dist.	3658 May 11 05:42	17° 8 53'44	1.33618 AU	max. Earth dist.	3659 Apr 23 16:43	29° Y 14'35	1.35024 AU
					3659 Apr 24 01:59	0° 8	
superior conj	3658 May 14 17:15	25° 8 09'34					
minimum elong	3658 May 14 18:26	25° 8 15'51	0°22'55	superior conj	3659 Apr 28 14:35	9° 8 04'59	
asc. node	3658 May 16 22:51	29° 8 54'20		minimum elong	3659 Apr 28 17:21	9° 8 19'07	0°51'35
	3658 May 16 23:55	Π $\circ 0$		asc. node	3659 May 03 19:55	19° 8 54'13	
evening rise	3658 May 21 23:32	10° Ⅱ 36′16		evening rise	3659 May 06 07:51	25° 8 05'11	
	3658 Jun 01 01:26	0 \circ \odot			3659 May 08 17:42	$\Pi^{\circ}0$	
evening max el	3658 Jun 11 22:37	14° © 34'17	22°04'41	evening max el	3659 May 24 23:57	25° Ⅲ 27′23	20°39'09
desc. node	3658 Jun 23 04:34	20°5548'25			3659 May 31 12:55	0 \circ \odot	
retrograde	3658 Jun 24 17:06	20°\$53'47		retrograde	3659 Jun 05 06:12	0° 5 57'19	
evening set	3658 Jun 27 12:20	20°536'18		evening set	3659 Jun 07 07:30	0°9547'04	
min. Earth dist.	3658 Jul 06 03:45	16° © 53'53	0.55011 AU	desc. node	3659 Jun 10 01:35	0°903'41	
inferior conj	3658 Jul 06 20:11	16°930'50	-3°43'08		3659 Jun 10 05:41	30°RⅡ	
minimum elong	3658 Jul 06 11:45	16°9542'40	3°40'50	inferior conj	3659 Jun 16 13:51	26° Ⅱ 49'38	-1°54'34
morning rise	3658 Jul 15 12:54	12°539'43		minimum elong	3659 Jun 16 08:29	26° Ⅱ 57'21	1°52'38
direct	3658 Jul 18 16:09	12°917'53		min. Earth dist.	3659 Jun 17 15:53	26° I 12'16	0.54921 AU
morning max el	3658 Jul 30 12:43	17°950'04	21°31'02	morning rise	3659 Jun 25 08:49	22° I I42'42	0.5 1721 710
morning max cr	3658 Aug 09 02:46	0°Ω	21 31 02	direct	3659 Jun 29 01:39	22° I I13'10	
asc. node	3658 Aug 12 22:04	6° Ω 30'02		morning max el	3659 Jul 12 07:28	28° I I36'19	23°10'40
	-	20° Ω 18'39		morning max er	3659 Jul 13 17:36	26 п 30 19	23 10 40
morning set	3658 Aug 19 22:33	0° m)		aca mada	3659 Jul 30 19:08	0 3 25° 9 49'02	
	3658 Aug 24 13:12	U III		asc. node		23 3 4902 0° Ω	
	2650 1 27 05 40	50 m-27 150	1042100		3659 Aug 01 21:27		
superior conj	3658 Aug 27 05:40	5° Mp 37'58	1°43'09	morning set	3659 Aug 04 09:43	5° Ω 12'14	
minimum elong	3658 Aug 27 04:49	5° My 33'36	1°43'08		2650 4 44 44 02	200 010140	1005151
max. Earth dist.	3658 Aug 31 06:31	13° m 53'56	1.35052 AU	superior conj	3659 Aug 11 11:03	20°Ω19'40	1°35'51
evening rise	3658 Sep 04 14:10	22° m/21'31		minimum elong	3659 Aug 11 09:14	20° Ω 09'56	1°35'42
	3658 Sep 08 17:01	0∘ ⊽		max. Earth dist.	3659 Aug 14 03:03	25° Ω 59'33	1.33686 AU
desc. node	3658 Sep 19 03:52	17° ≏ 32'21			3659 Aug 16 01:14	0° ™	
	3658 Sep 27 17:16	0°M₊		evening rise	3659 Aug 19 02:52	6° Mp 12′34	
evening max el	3658 Oct 09 21:21	14°ML19'07	26°43'35		3659 Sep 01 07:36	0∘ ⊽	
retrograde	3658 Oct 22 22:00	21°MJ34'28		desc. node	3659 Sep 06 00:55	7° ჲ 21'18	
evening set	3658 Oct 29 12:36	18°M54'15		evening max el	3659 Sep 22 09:30	27° ≏ 44'52	27°18'38
min. Earth dist.	3658 Nov 02 13:25	14°M48'38	0.65928 AU		3659 Sep 24 22:04	0° M	
inferior conj	3658 Nov 04 08:37	12°M41'13	-1°32'05	retrograde	3659 Oct 05 21:01	5° ™ 03′23	
minimum elong	3658 Nov 04 11:09	12°M33'43	1°31'02	evening set	3659 Oct 12 21:21	2°M22'02	
asc. node	3658 Nov 08 21:19	8°M00'23			3659 Oct 15 13:17	30° Ŗ Ω	
morning rise	3658 Nov 10 10:26	6°M59'21		min. Earth dist.	3659 Oct 16 16:06	28° ≙ 51'17	0.64559 AU
direct	3658 Nov 13 07:22	6°M13'31		inferior conj	3659 Oct 18 23:29	26° ≙ 21'57	-2°33'01
morning max el	3658 Nov 19 21:18	9° M .48'09	18°23'25	minimum elong	3659 Oct 19 03:45	26° ♀ 10'25	2°31'25
	3658 Dec 04 02:27	0° ∡ ¹		morning rise	3659 Oct 25 11:18	20° ♀ 54'14	
morning set	3658 Dec 09 11:11	8° ∡ ³37'54		asc. node	3659 Oct 26 18:20	20° ₽ 28'22	
desc. node	3658 Dec 16 03:06	19° ∡ 18'28		direct	3659 Oct 28 01:22	20° ₽ 19'38	
	3658 Dec 22 21:14	0°రె		morning max el	3659 Nov 03 13:18	23° ≏ 46'13	17°58'05
				C	3659 Nov 08 13:34	0°M	
superior conj	3658 Dec 24 23:16	3° る 16'40	-0°57'49	morning set	3659 Nov 20 22:39	20°M05'24	
minimum elong	3658 Dec 24 16:05	2° る 48'29			3659 Nov 26 20:53	0° ⊼	
max. Earth dist.	3658 Dec 26 06:27	5° る 19'03		desc. node	3659 Dec 03 00:10	10° ≯ 02'31	
evening rise	3659 Jan 10 02:02	28° る 33'33	1.10211110	desc. node	300, 200 03 00.10	10 % 0231	
evening rise	3659 Jan 11 00:01	0°≈		superior conj	3659 Dec 04 11:21	12° ∡ ¹24'11	-0°10'03
greatest brilliancy	3659 Jan 20 11:40	14°≈51'47	-0.8m	minimum elong	3659 Dec 04 10:08	12° 🗷 19'21	0°09'52
greatest orimaney	3659 Jan 31 03:07	0° ∀	0.0111	behind sun begin	3659 Dec 04 01:50	11° х 45'56	0 07 32
evening max el	3659 Feb 02 02:27	0 X 2° X 11'35	19°11'07	behind sun begin	3659 Dec 04 01:30	11 x 43 36 12° x 52'43	
•		4° H 36'09	19 11 07			12° x '32'43 19° x '41'51	1 // 20/ 411
asc. node	3659 Feb 04 20:38	4° ★ 36'09 6° ★ 10'41		max. Earth dist.	3659 Dec 09 01:12		1.44804 AU
retrograde	3659 Feb 09 02:19			:· ·	3659 Dec 15 15:01	0°る 7° ろ 51122	
evening set	3659 Feb 12 11:49	5° ∺ 03'27		evening rise	3659 Dec 20 16:55	7°る51'22	0.6
:e:	3659 Feb 17 10:32	30°R≈	2022112	greatest brilliancy	3660 Jan 04 04:25	29° る 47'23	-0.6m
inferior conj	3659 Feb 18 00:58	29°≈13'59			3660 Jan 04 07:51	0°≈ 15042101	20005141
minimum elong	3659 Feb 17 23:08	29°≈19'51	3°22'56	evening max el	3660 Jan 16 07:02	15°≈43'01	20°05'41
min. Earth dist.	3659 Feb 19 11:29	27°≈23'31	0.66121 AU	asc. node	3660 Jan 22 17:39	20°≈04'48	
morning rise	3659 Feb 23 10:09	23° ≈ 00'39		retrograde	3660 Jan 24 00:13	20°≈13'38	

	2660 1 27 17 40	100 - 50120		1	2661 7 00 14 40	40 - 00110	
evening set	3660 Jan 27 17:48	18° ≈ 52'30		asc. node	3661 Jan 08 14:40	4° ≈ 08′18	
inferior conj	3660 Feb 02 03:36	12° ≈ 49'19	2°58'15	evening set	3661 Jan 11 01:22	2° ≈ 47'40	
minimum elong	3660 Feb 02 01:11	12° ≈ 57′26	2°57'42		3661 Jan 13 19:26	30°Ŗる	
min. Earth dist.	3660 Feb 03 00:06	11° ≈ 40′18	0.67140 AU	inferior conj	3661 Jan 16 09:46	26° る 33'42	2°24'06
morning rise	3660 Feb 07 08:21	6°≈35'26		minimum elong	3661 Jan 16 07:17	26° る 42'16	2°23'20
direct	3660 Feb 13 04:33	3°≈58'48		min. Earth dist.	3661 Jan 16 17:40	26° る 06'24	0.67751 AU
			24050114				0.07751 AU
morning max el	3660 Feb 24 22:00	10°≈59'25	24°59'14	morning rise	3661 Jan 21 13:01	20° පි 21'03	
desc. node	3660 Feb 28 23:23	15° ≈ 25'56		direct	3661 Jan 26 18:39	18° る 03'47	
	3660 Mar 11 01:53	0° ℋ		morning max el	3661 Feb 06 06:39	24° る 18'38	23°31'09
	3660 Mar 29 23:50	0° Υ			3661 Feb 11 08:39	0° ≈	
morning set	3660 Apr 01 01:30	3° Ƴ 39'03		desc. node	3661 Feb 14 20:26	4° ≈ 23'46	
max. Earth dist.	3660 Apr 04 16:41	10°Υ15'00	1.36866 AU		3661 Mar 04 12:42	0°) €	
max. Larm dist.	3000 Apr 04 10.41	10 1500	1.50000 AC			14°) 36'30	
		• •		morning set	3661 Mar 13 11:47		
superior conj	3660 Apr 11 02:10	22° Y 27′21		max. Earth dist.	3661 Mar 17 11:46	21° ¥ 29'58	1.38999 AU
minimum elong	3660 Apr 11 06:18	22° Ƴ 47'38	1°19'31		3661 Mar 22 05:41	0° Y	
	3660 Apr 14 21:13	9° 8					
evening rise	3660 Apr 19 11:08	9° 8 13'44		superior conj	3661 Mar 25 00:11	5° Y ′07'24	-1°44'40
asc. node	3660 Apr 19 16:59	9° 8 43'03		minimum elong	3661 Mar 25 04:50	5° Υ 29'12	
asc. node	•			- C			1 44 11
	3660 Apr 30 21:42	$\Pi^{\circ}0$		evening rise	3661 Apr 03 06:40	22° Y 55'07	
evening max el	3660 May 06 13:29	7° Ⅱ 00'19	19°31'08	asc. node	3661 Apr 06 14:01	29° Ƴ 16′16	
retrograde	3660 May 16 01:51	11° Ⅲ 37′36			3661 Apr 06 23:17	$_{0\circ}$ 8	
evening set	3660 May 18 01:31	11° Ⅱ 26′25		evening max el	3661 Apr 19 13:39	19° 8 12'22	18°43'01
inferior conj	3660 May 26 16:59	7° I I21'36	0°04'08	retrograde	3661 Apr 27 14:38	23° 8 08'41	
	-		0°04'03	-	•	_	
minimum elong	3660 May 26 17:09	7° Ⅱ 21'19		evening set	3661 Apr 29 19:48	22° 8 51'51	
transit middle	3660 May 26 17:09	7° Ⅱ 21'19	0°04'03	inferior conj	3661 May 07 15:23	18° 8 29'15	1°42'33
transit begin	3660 May 26 13:23	7° Ⅲ 27′21		minimum elong	3661 May 07 18:46	18° 8 22'56	1°41'30
transit end	3660 May 26 20:56	7° Ⅱ 15'16		min. Earth dist.	3661 May 10 22:52	16° 8 02'15	0.57438 AU
desc. node	3660 May 26 22:37	7° Ⅱ 12'34		desc. node	3661 May 13 19:38	14° 8 11'08	
min. Earth dist.	3660 May 29 05:56	5° ∏ 44'29	0.55793 AU	morning rise	3661 May 15 14:33	13° 8 16'11	
			0.33793 AU	•	•		
morning rise	3660 Jun 04 06:04	2° Ⅱ 43'13		direct	3661 May 21 04:40	11° 8 59'19	
direct	3660 Jun 08 20:17	1° Ⅱ 55'40		morning max el	3661 Jun 04 13:11	19° 8 31'43	26°22'37
morning max el	3660 Jun 22 21:32	9° Ⅱ 00'39	24°53'03		3661 Jun 13 10:33	Π $^{\circ}0$	
	3660 Jul 08 11:45	0ಂತಾ			3661 Jun 30 23:08	0°©	
asc. node	3660 Jul 16 16:12	15° © 28'41		morning set	3661 Jul 03 08:20	4° © 56'42	
	3660 Jul 18 21:31	20° © 06'37		asc. node	3661 Jul 03 13:17	5°922'50	
morning set				asc. Houe	3001 Jul 03 13.17	3 5022 30	
	3660 Jul 23 11:27	0 \circ Ω				_	
				superior conj	3661 Jul 10 07:53	20° © 07'25	1°05'54
superior conj	3660 Jul 25 20:27	5° Ω 11'42	1°23'10	minimum elong	3661 Jul 10 05:36	19° 9 54'48	1°05'30
minimum elong	3660 Jul 25 18:10	4° Ω 59'10	1°22'51	max. Earth dist.	3661 Jul 10 18:01	21° © 03'14	1.32193 AU
max. Earth dist.	3660 Jul 27 07:51	8° Ω 24'18	1.32736 AU		3661 Jul 14 20:21	$0^{\circ}\Omega$	
evening rise	3660 Aug 02 01:12	20° Ω 30'53		evening rise	3661 Jul 17 06:12	5° Ω 07'13	
evening rise	•			evening rise			
	3660 Aug 06 20:15	0° т р			3661 Jul 30 12:01	0° m	
desc. node	3660 Aug 22 21:56	26° Mp 35'53		desc. node	3661 Aug 09 18:56	15° Mp 02'03	
	3660 Aug 25 09:55	0∘ ರ		evening max el	3661 Aug 17 00:53	23° m 06'10	26°59'08
evening max el	3660 Sep 03 19:34	10° ≏ 44'59	27°25'15		3661 Aug 28 06:47	0∘ ⊽	
retrograde	3660 Sep 17 13:25	18° ≏ 00'47		retrograde	3661 Aug 30 22:17	0° ჲ 17'51	
evening set	3660 Sep 24 18:04	15° ≏ 29'07		J	3661 Sep 02 12:39	30°R. ™)	
min. Earth dist.	3660 Sep 28 09:01		0.62861 AU	evening set	3661 Sep 06 22:33	28° Mp 08'17	
	•			•	*	-•	0.60000 411
inferior conj	3660 Oct 01 04:11	9° £ 46′25		min. Earth dist.	3661 Sep 10 15:07	25° m) 28'24	0.60900 AU
minimum elong	3660 Oct 01 09:46	9° ჲ 32'53	3°30'29	inferior conj	3661 Sep 13 19:26	22° Mp 46'16	-4°24'15
morning rise	3660 Oct 08 02:59	4° ≙ 36'10		minimum elong	3661 Sep 14 01:06	22° M 34'10	4°23'02
direct	3660 Oct 10 12:56	4° ♀ 09'13		morning rise	3661 Sep 21 05:28	17° m 56'57	
asc. node	3660 Oct 12 15:23	4° £ 30′10		direct	3661 Sep 23 14:20	17° mp 34'38	
morning max el	3660 Oct 17 05:40	7° £ 35'44	17°50'25	asc. node	3661 Sep 29 12:27	20° Mp 00'21	
morning max er			17 30 23		-		10001124
	3660 Oct 31 21:21	0°M		morning max el	3661 Sep 30 19:18	21°Mp09'18	18°01'34
morning set	3660 Nov 02 09:46	2°M40'57			3661 Oct 07 12:12	0∘ ⊽	
				morning set	3661 Oct 16 14:10	16° ≙ 05'49	
superior conj	3660 Nov 13 23:35	22°M43'22	0°33'36		3661 Oct 24 03:59	0° M ₊	
minimum elong	3660 Nov 14 02:43	22°M56'33	0°33'09				
violig	3660 Nov 18 09:03	0° ⊼	, 0,	superior coni	3661 Oct 26 14:19	4°M20'08	1°07'05
1 1				superior conj			
desc. node	3660 Nov 18 21:14	0° ∡ 149'42		minimum elong	3661 Oct 26 18:32	4°M38'48	1°06'33
max. Earth dist.	3660 Nov 20 17:29	3° ҂ ¹49'03	1.43684 AU	max. Earth dist.	3661 Nov 03 05:19	17° M 25'26	1.42019 AU
evening rise	3660 Nov 29 02:30	17° ⋌ ¹02'34		desc. node	3661 Nov 05 18:14	21°M36'36	
	3660 Dec 07 14:56	0°ප		evening rise	3661 Nov 08 23:00	26°M46'37	
evening max el	3660 Dec 29 06:12	29° る 16'04	21°13'13	-	3661 Nov 10 23:48	0° ∡ ¹	
	3660 Dec 29 23:50	0°≈			3661 Dec 01 09:52	0°ප	
notno a J -				avanir 1			22020127
retrograde	3661 Jan 06 21:58	4° ≈ 24'02		evening max el	3661 Dec 12 00:06	12° る 50'24	22 2931
2							

. 1	2771 D 21 17.54	100=22750			2662 D 05 10 46	20751150	
retrograde	3661 Dec 21 17:54	18° る 37'50		retrograde	3662 Dec 05 10:46	2°る51'58	
evening set	3661 Dec 26 08:50	16° ප් 45'18		evening set	3662 Dec 10 14:39	0° る 43'10	
asc. node	3661 Dec 26 11:42	16° る 39'20			3662 Dec 11 09:36	30°₽ ⋌ ¹	
inferior conj	3661 Dec 31 17:26	10° る 23'48	1°42'16	asc. node	3662 Dec 13 08:43	27° ∡ ¹49'31	
minimum elong	3661 Dec 31 15:22	10°₹31′00	1°41'31	min. Earth dist.	3662 Dec 15 10:27	25° ₹ '07'03	0.67852 AU
min. Earth dist.	3661 Dec 31 13:52	10° る 36'12	0.67979 AU	inferior conj	3662 Dec 16 00:51	24° ∡ 18′04	0°54'01
morning rise	3662 Jan 05 21:47	4°る14'02		minimum elong	3662 Dec 15 23:37	24° × ⁷ 22'16	0°53'31
direct	3662 Jan 10 12:34	2° る 19'29		morning rise	3662 Dec 21 08:35	18° ∡ 12'52	
morning max el	3662 Jan 19 18:30	7° る 45'06	22°03'33	direct	3662 Dec 25 09:22	16° ∡ 741′05	
desc. node	3662 Feb 01 17:27	23°る57'18	22 03 33	morning max el	3663 Jan 02 12:55	21°×7'22'35	20°43'54
desc. Hode	3662 Feb 05 22:54	23 ⊙ 37 18		morning max ci	3663 Jan 09 18:20	0°る	20 43 34
		0 ∞ 24°≈11'32		4 4-		13° る 56'56	
morning set	3662 Feb 21 17:34			desc. node	3663 Jan 19 14:28		
	3662 Feb 25 07:02	0° ∀			3663 Jan 30 05:02	0° ≈	
max. Earth dist.	3662 Feb 27 09:51	3° ∺ 31'19	1.41156 AU	morning set	3663 Jan 31 21:36	2° ≈ 37'17	
				max. Earth dist.	3663 Feb 09 14:42	16° ≈ 26'52	1.43050 AU
superior conj	3662 Mar 07 03:47	16°) 52′39	-2°01'56				
minimum elong	3662 Mar 07 07:05	17° ∺ 07'15	2°01'46	superior conj	3663 Feb 16 07:58	27° ≈ 31'54	-2°06'59
	3662 Mar 14 09:21	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	3663 Feb 16 07:01	27° ≈ 27'55	2°06'58
evening rise	3662 Mar 17 15:00	6° Y ′00′24			3663 Feb 17 19:04	0° ₩	
asc. node	3662 Mar 24 11:02	18° Ƴ 27'39		evening rise	3663 Feb 28 08:02	18° ¥ 20'37	
use. noue	3662 Apr 01 02:37	0°8		evening rise	3663 Mar 06 23:11	0°Υ	
evening max el	3662 Apr 02 21:12	1° 8 55'19	18°15'06	asc. node	3663 Mar 11 08:03	7° Υ 10'06	
Ü	-		18 13 00			15° Υ 00'26	1000/15/
retrograde	3662 Apr 09 22:29	5° 8 27'11		evening max el	3663 Mar 17 08:50		18°06'56
evening set	3662 Apr 12 10:06	5° 8 01'46		retrograde	3663 Mar 23 21:52	18° Y 23'22	
inferior conj	3662 Apr 19 11:15	0° 8 18'27	2°48'52	evening set	3663 Mar 26 15:26	17° Ƴ 47'36	
minimum elong	3662 Apr 19 14:44	0° 8 10'50	2°48'06	inferior conj	3663 Apr 02 01:52	12° Ƴ 44'01	3°25'07
	3662 Apr 19 19:40	30° ŖƳ		minimum elong	3663 Apr 02 03:51	12° Ƴ 39'04	3°24'53
min. Earth dist.	3662 Apr 22 21:01	27° Y ′21'28	0.59518 AU	min. Earth dist.	3663 Apr 05 02:57	9° Ƴ 41'52	0.61692 AU
morning rise	3662 Apr 26 16:46	24° Y '37'39		morning rise	3663 Apr 08 14:35	6° Ƴ 45'52	
desc. node	3662 Apr 30 16:39	23° Y ′01'06		direct	3663 Apr 15 10:21	4° Ƴ 21'34	
direct	3662 May 03 01:59	22° Y '45'24		desc. node	3663 Apr 17 13:40	4° Ƴ 34'46	
	3662 May 16 20:25	0°8		morning max el	3663 Apr 29 14:28	12° Υ 19'25	27°50'50
morning may al	3662 May 17 10:40	0° 8 34'33	2702447	morning max cr	3663 May 13 14:34	0°8	27 30 30
morning max el	•	_	21 2441		•		
	3662 Jun 07 12:14	0°II			3663 May 30 20:11	0°II	
morning set	3662 Jun 17 16:28	19° Ⅲ 37'04		morning set	3663 Jun 01 20:00	4° Ⅱ 01'11	
asc. node	3662 Jun 20 10:19	25° Ⅱ 26′06		asc. node	3663 Jun 07 07:21	15° Ⅱ 33'48	
	3662 Jun 22 12:48	0		max. Earth dist.	3663 Jun 07 15:27	16° Ⅱ 17'43	1.32313 AU
max. Earth dist.	3662 Jun 24 05:54	3° 5 45'31	1.32049 AU				
				superior conj	3663 Jun 09 05:49	19° Ⅱ 46′27	0°20'14
superior conj	3662 Jun 24 19:35	5° © 00'55	0°44'42	minimum elong	3663 Jun 09 04:53	19° Ⅱ 41'24	0°20'02
minimum elong	3662 Jun 24 17:46	4° © 50'53	0°44'21		3663 Jun 13 22:06	0ංම	
evening rise	3662 Jul 01 15:26	19° © 53'49		evening rise	3663 Jun 16 02:52	4°5643'40	
<i>5</i>	3662 Jul 06 13:56	$0^{\circ}\Omega$		8 2	3663 Jun 29 13:02	$0^{\circ}\Omega$	
	3662 Jul 25 13:57	0° m)		evening max el	3663 Jul 11 14:06	15° Ω 27'22	24°35'56
desc. node	3662 Jul 27 15:56	2° m/20'04		desc. node	3663 Jul 14 12:57	18°Ω02'05	24 33 30
			26900122			$22^{\circ}\Omega 29'10$	
evening max el	3662 Jul 29 22:59	4° TD 39'16	26°00'23	retrograde	3663 Jul 25 11:50		
retrograde	3662 Aug 12 22:23	11° m 47'54		evening set	3663 Jul 30 13:16	21° Ω 31'33	0.56002.477
evening set	3662 Aug 19 06:01	10° To 11'49		min. Earth dist.	3663 Aug 05 01:15		0.56903 AU
min. Earth dist.	3662 Aug 23 11:26	7° TD 36'04	0.58825 AU	inferior conj	3663 Aug 07 19:58	16° Ω 53'35	
inferior conj	3662 Aug 26 17:39	5° Mp 11'46	-5°00'15	minimum elong	3663 Aug 07 18:07	16° Ω 56'35	5°06'34
minimum elong	3662 Aug 26 21:00	5° ™ 05'33	4°59'56	morning rise	3663 Aug 16 01:34	12° Ω 48'59	
morning rise	3662 Sep 03 14:12	0° ™ 45'41		direct	3663 Aug 18 16:49	12° Ω 29'51	
direct	3662 Sep 06 00:57	0° ™ 25'48		morning max el	3663 Aug 28 01:33	16° Ω 52'17	19°25'39
morning max el	3662 Sep 14 03:01	4° Mp 18'19	18°32'56	asc. node	3663 Sep 03 06:33	24° Ω 28'26	
asc. node	3662 Sep 16 09:30	6° Mp 45'05			3663 Sep 06 16:33	0° m)	
morning set	3662 Sep 30 06:47	0° ჲ 05'43		morning set	3663 Sep 14 07:47	14° m) 29'12	
	3662 Sep 30 05:36	0₀ ⊽			v/		
	3002 Bep 30 03.30	o –		gunariar agni	2662 San 22 00:02	0° ہ 34'12	1°41'11
gunarier con:	2662 Oct 00 02:21	179 0 02140	1920114	superior conj	3663 Sep 22 09:03		
superior conj	3662 Oct 09 03:21		1°29'14	minimum elong	3663 Sep 22 10:37	0° ჲ 41'54	1°41'08
minimum elong	3662 Oct 09 06:37	17° Ω 18'00	1°28'5/	ga	3663 Sep 22 02:04	0∘ ⊽	
	3662 Oct 16 07:34	0° M ₊		max. Earth dist.	3663 Sep 28 16:01	12° ≏ 31'35	1.37931 AU
max. Earth dist.	3662 Oct 16 12:01	0° ™ 19'26	1.40015 AU	evening rise	3663 Oct 02 10:13	19° ≏ 17'44	
evening rise	3662 Oct 20 16:57	7° ™ 30′09			3663 Oct 08 17:06	0° M	
desc. node		100M 00100		desc. node	3663 Oct 10 12:16	2°M55'39	
	3662 Oct 23 15:14	12°M20'09		desc. Hode	3003 Oct 10 12.10	2 1103337	
	3662 Oct 23 15:14 3662 Nov 04 01:03	12°II ∟ 20'09 0° √		desc. node	3663 Oct 29 05:07	0° ⊼	
evening max el			23°49'29	evening max el			25°06'27
evening max el	3662 Nov 04 01:03	0° ∡	23°49'29		3663 Oct 29 05:07	0° ∡ ¹	25°06'27

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evening set	3663 Nov 24 17:09	14° ∡ ³37'33		max. Earth dist.	3664 Sep 09 23:26	24° m 23'55	1.36016 AU
min. Earth dist.	3663 Nov 29 05:05	9° ∡ ³35'30	0.67375 AU		3664 Sep 12 21:38	0∘ ⊽	
inferior conj	3663 Nov 30 06:13	8° ≯ 13'18	0°00'24	evening rise	3664 Sep 13 23:48	2° ჲ 02'19	
minimum elong	3663 Nov 30 06:12	8° ≯ 13′20	0°00'23	desc. node	3664 Sep 26 09:18	23° ≏ 18'11	
transit middle	3663 Nov 30 06:12	8° ≯ 13′20	0°00'23		3664 Sep 30 17:58	0° M	
transit begin	3663 Nov 30 03:25	8° ≯ 22'25		evening max el	3664 Oct 19 15:01	23°M50'38	26°13'04
transit end	3663 Nov 30 08:58	8° ₹ 04'16			3664 Oct 27 23:56	0° ∡ 7	
asc. node	3663 Nov 30 05:45	8° ⊀ 14'49		retrograde	3664 Nov 01 07:17	1° √ 00′18	
morning rise	3663 Dec 05 19:28	2° ҂ 14'53			3664 Nov 05 06:29	30°₽ M	
direct	3663 Dec 09 07:49	1° ∡ °03′37		evening set	3664 Nov 07 14:32	28°M24'51	
morning max el	3663 Dec 16 15:10	5° ∡ 10'48	19°37'04	min. Earth dist.	3664 Nov 11 19:22	23°M58'13	0.66556 AU
greatest brilliancy	3663 Dec 29 18:30	22° х 34'43	-0.7m	inferior conj	3664 Nov 13 07:39	22°M06'21	-0°57'26
	3664 Jan 03 16:41	o°S		minimum elong	3664 Nov 13 09:12	22°M01'36	0°56'47
desc. node	3664 Jan 06 11:30	4° る 15'12		asc. node	3664 Nov 16 02:48	18° M 50'40	
morning set	3664 Jan 10 18:10	10°る50'15		morning rise	3664 Nov 19 04:21	16° M 17′21	
max. Earth dist.	3664 Jan 23 02:33	0° ≈ 08′20	1.44438 AU	direct	3664 Nov 22 06:19	15°M23'14	
	3664 Jan 23 00:27	0° ≈		morning max el	3664 Nov 29 00:32	19° M 06'51	18°45'34
					3664 Dec 07 10:33	0°⊀	
superior conj	3664 Jan 27 10:16	7° ≈ 02'13	-1°54'38	morning set	3664 Dec 20 08:14	20° ∡ *01'54	
minimum elong	3664 Jan 27 03:25	6° ≈ 34'41	1°54'12	desc. node	3664 Dec 23 08:33	24° ∡ ⁴46'43	
evening rise	3664 Feb 10 05:25	29° ≈ 47′27			3664 Dec 26 16:14	0°ಕ	
	3664 Feb 10 08:24	0° ℋ		max. Earth dist.	3665 Jan 04 19:52	14° る 21'44	1.45164 AU
asc. node	3664 Feb 26 05:04	25°) 14′42					
evening max el	3664 Feb 28 21:34	28° ∺ 20′01	18°17'48	superior conj	3665 Jan 05 16:29	15° る 42'42	-1°22'56
	3664 Mar 01 18:44	0 ° Υ		minimum elong	3665 Jan 05 07:24	15° る 07'02	1°21'57
retrograde	3664 Mar 06 08:13	1° Y 47'40			3665 Jan 14 17:37	0° ≈	
evening set	3664 Mar 09 07:32	1° Y 00′23		evening rise	3665 Jan 21 03:52	10° ≈ 16'48	
	3664 Mar 10 20:59	30° ₹ ₩		greatest brilliancy	3665 Jan 28 02:00	21° ≈ 25′02	-0.9m
inferior conj	3664 Mar 15 07:10	25°) 37′43			3665 Feb 02 12:50	0° ∀	
minimum elong	3664 Mar 15 07:21	25°) 37′12	3°37'40	evening max el	3665 Feb 11 08:44	11°) 47'19	18°46'46
min. Earth dist.	3664 Mar 17 18:06	22°) 52'40	0.63692 AU	asc. node	3665 Feb 12 02:05	12°) 29′48	
morning rise	3664 Mar 21 06:16	19°) 30′24		retrograde	3665 Feb 18 01:28	15°) € 31'33	
direct	3664 Mar 28 03:27	16°) 45′30		evening set	3665 Feb 21 07:03	14°) € 31'46	
desc. node	3664 Apr 03 10:42	18°) 40′46		inferior conj	3665 Feb 26 23:13	8°) €51'34	
morning max el	3664 Apr 10 22:34	24°) (43'01	27°39'37	minimum elong	3665 Feb 26 21:58	8° ¥ 55'24	
	3664 Apr 15 17:44	0° Υ		min. Earth dist.	3665 Feb 28 18:27	6°) 38′51	0.65357 AU
	3664 May 06 00:25	0°8		morning rise	3665 Mar 04 12:28	2°) (39′48	
morning set	3664 May 15 16:35	18° 8 01'51			3665 Mar 09 09:40	30°R≈	
max. Earth dist.	3664 May 20 18:51		1.33008 AU	direct	3665 Mar 11 03:34	29° ≈ 48'45	
	3664 May 21 12:18	Π $^{\circ}0$			3665 Mar 12 22:55	0°) {	
	266434 22 12 12	40 T 1 010 T	000 (140	desc. node	3665 Mar 21 07:45	4°) (44'35	0.605.510.0
superior conj	3664 May 23 12:48	4° Ⅱ 18'27		morning max el	3665 Mar 24 08:21	7°) €34'32	26°55'29
minimum elong	3664 May 23 13:08	4° Ⅱ 20'15	0°06'44		3665 Apr 10 17:32	0° Υ	
behind sun begin	3664 May 23 08:16	3° ∏ 54'08			3665 Apr 28 08:32	0°8	
behind sun end	3664 May 23 18:01	4° Ⅱ 46'23		morning set	3665 Apr 29 03:02	1° 8 28'15	1 241/2 411
asc. node	3664 May 24 04:23	5° Ⅱ 42'05		max. Earth dist.	3665 May 03 12:25	10° 8 06'27	1.34162 AU
evening rise	3664 May 30 14:37 3664 Jun 04 17:52	19° Ⅱ 30'59 0° ©			2665 Mari 07, 14-22	18° 8 29'14	0925125
avanina may al	3664 Jun 22 03:29	0 so 25°so53'35	22050122	superior conj	3665 May 07 14:22	18° 8 38'55	
evening max el	3664 Jun 27 07:10	25° 9 53'35	LL 373L	minimum elong asc. node	3665 May 07 16:13 3665 May 11 01:25	25° 8 46'05	0 22 03
desc. node	3664 Jun 30 09:58	0° δ ℓ 1° Ω 34'16		asc. noue	3665 May 13 01:27	25° Ο 46'05 0° Π	
retrograde	3664 Jul 05 12:39	2° Ω 33'53		evening rise	3665 May 15 00:46	0 П 4°П08'21	
evening set	3664 Jul 09 01:32	2° Ω 06'30		evening rise	3665 May 29 10:43	0°95	
evening set	3664 Jul 14 07:18	2 8 2 00 30 30° R 55		evening max el	3665 Jun 03 22:40	6° © 28'45	21026120
min. Earth dist.	3664 Jul 16 12:27	28°5946'40	0.55481 AU	retrograde	3665 Jun 16 02:52	12° © 27'54	21 20 28
inferior conj	3664 Jul 18 03:00	28 \$34040 27°\$50'52		desc. node	3665 Jun 17 07:00	12 32 7 34 12° 5 24'43	
minimum elong	3664 Jul 17 19:41	28°901'30		evening set	3665 Jun 18 12:20	12° 5 2443	
morning rise	3664 Jul 26 16:08	28 3 01 30	T 2033	inferior conj	3665 Jun 27 21:39	8°9515'03	-3°00'35
direct	3664 Jul 29 14:12	23° © 38'45		minimum elong	3665 Jun 27 13:50	8°925'58	
morning max el	3664 Aug 09 12:36	23 \$3843 28°\$43'23	20°39'41	min. Earth dist.	3665 Jun 27 23:28	8°9512'30	0.54859 AU
morning max ci	3664 Aug 10 19:51	28 \$943 23 0°Ω	40 J7 H1	morning rise	3665 Jul 06 16:05	8 9 12 30 4° 9 19'41	0.57059 AU
asc. node	3664 Aug 20 03:37	12° Ω 57'23		direct	3665 Jul 10 00:32	3°955'18	
morning set	3664 Aug 28 14:23	12° ∂ (37'23' 29° Ω 08'59		morning max el	3665 Jul 22 12:11	9° © 49'22	22°12'12
morning set	-	29° 3′2 08′39		morning max et			<i>LL</i> 1 <i>L</i> 1 <i>L</i>
	3664 Aug 29 00:18	עוו ט		asa nada	3665 Aug 05 22:41	0°Ω 2°Ω00'26	
cuparior coni	3664 Can 05 02-41	1.40 m. 40150	1944122	asc. node	3665 Aug 13 00:40	13°Ω58'46	
superior conj minimum elong	3664 Sep 05 02:41 3664 Sep 05 02:37	14° m/40'52 14° m/40'34		morning set	3665 Aug 13 00:23	13 663840	
	200 1 200 02 02:3/	ı+ ııµ4∪34	1 74 33				

superior conj minimum elong	3665 Aug 20 04:34 3665 Aug 20 03:15 3665 Aug 20 13:44	29° Ω 11'44 29° Ω 04'49 0° ™	1°40'46 1°40'42	superior conj minimum elong max. Earth dist.	3666 Aug 04 11:53 3666 Aug 04 09:48 3666 Aug 06 15:23	13° Ω 58'11 13° Ω 46'57 18° Ω 34'59	1°31'04 1°30'50 1.33230 AU
max. Earth dist. evening rise	3665 Aug 23 14:57 3665 Aug 28 05:14 3665 Sep 05 02:04	6° m/20'51 15° m/31'52 0° <u>∩</u>	1.34424 AU	evening rise	3666 Aug 11 22:23 3666 Aug 12 03:21 3666 Aug 29 03:45	29° Ω 35'04 0° m 0° ⊆	
desc. node	3665 Sep 13 06:21 3665 Sep 25 08:16	13° £ 21'33 0° M		desc. node evening max el	3666 Aug 31 03:22 3666 Sep 14 15:08	2° 2 57'08 20° 2 41'32	27°25'17
evening max el retrograde	3665 Oct 02 03:40 3665 Oct 15 09:23	7°M25'40 14°M42'28	27°01'43	retrograde evening set	3666 Sep 28 05:26 3666 Oct 05 08:41	27° \(\Omega 58'58 \) 25° \(\Omega 20'05 \)	0.63873 AU
evening set min. Earth dist.	3665 Oct 22 04:39 3665 Oct 26 02:52	12°M00'55 8°M10'18	0.65387 AU	min. Earth dist. inferior conj	3666 Oct 09 01:20 3666 Oct 11 13:58	22° ჲ 03'27 19° ჲ 27'13	
inferior conj	3665 Oct 28 03:05	5°M53′04		minimum elong	3666 Oct 11 18:53	19° £ 14'31	2°56'54
minimum elong asc. node	3665 Oct 28 06:22 3665 Nov 02 23:51	5°M43'42 0°M28'31	1°56'35	morning rise direct	3666 Oct 18 06:22 3666 Oct 20 18:27	14° Ω 06'45 13° Ω 35'44	
morning rise	3665 Nov 03 08:58	0°M16'37		asc. node	3666 Oct 20 20:55	13° ⊆ 35'47	
	3665 Nov 04 00:14	30° ₹ Ω		morning max el	3666 Oct 27 07:24	17° ≏ 00'57	17°52'42
direct	3665 Nov 06 02:46	29° £ 35'52			3666 Nov 05 14:48	0°M	
morning max el	3665 Nov 08 05:44 3665 Nov 12 14:52	0°ጤ 3°ጤ05'50	18°10'33	morning set	3666 Nov 13 01:44 3666 Nov 23 07:32	12° ™ 40'40 0° √	
morning max ci	3665 Nov 30 17:11	0° ⊼ ¹	18 10 33		3000 NOV 23 07.32	· ^	
morning set	3665 Dec 01 03:27	0° ∡¹ 42'08		superior conj	3666 Nov 25 17:37	3° ∡ ¹58'36	0°09'29
desc. node	3665 Dec 10 05:36	15° ∡ ¹27'22		minimum elong	3666 Nov 25 18:40	4° ∡ 02'52	0°09'20
	2665 Dec 15, 20,20	249.72222	0027141	behind sun begin	3666 Nov 25 10:32	3°×729'36	
superior conj minimum elong	3665 Dec 15 20:20 3665 Dec 15 15:34	24° 🖈 23'33 24° 🖈 04'42		behind sun end desc. node	3666 Nov 26 02:48 3666 Nov 27 02:38	4° ⋌ ¹36'04 6° ⋌ ¹12'57	
max. Earth dist.	3665 Dec 18 15:34	28°×7'48'34	1.45147 AU	max. Earth dist.	3666 Dec 01 09:56	13° × ⁷ 07'58	1.44400 AU
	3665 Dec 19 09:45	8°0		evening rise	3666 Dec 11 14:55	29° ₹ 05'29	
evening rise	3666 Jan 01 04:19	19° る 55'40			3666 Dec 12 05:07	0°ಕ	
areatest brillianav	3666 Jan 07 16:11 3666 Jan 13 13:57	0° ≈ 9° ≈ 02'37	-0.7m	avanina may al	3667 Jan 01 12:47 3667 Jan 08 18:27	0° ≈ 8° ≈ 49'56	20°32'57
greatest brilliancy evening max el	3666 Jan 25 16:12	9 ≈02 37 25°≈18'18	-0.7m 19°32'30	evening max el retrograde	3667 Jan 16 20:39	8 ≈4936 13°≈36'08	20 32 37
asc. node	3666 Jan 29 23:08	28° ≈ 42'05	-,	asc. node	3667 Jan 16 20:11	13° ≈ 36′08	
retrograde	3666 Feb 01 22:29	29° ≈ 29'31		evening set	3667 Jan 20 18:13	12° ≈ 08′30	
evening set	3666 Feb 05 11:20	28°≈16'18	2012151	inferior conj	3667 Jan 26 03:10	6°≈00'05	2°44'47
inferior conj minimum elong	3666 Feb 10 22:47 3666 Feb 10 20:38	22°≈20'36 22°≈27'38	3°13'51 3°13'28	minimum elong min. Earth dist.	3667 Jan 26 00:41 3667 Jan 26 18:04	6°≈08'37 5°≈09'14	2°44'08 0.67446 AU
min. Earth dist.	3666 Feb 12 03:05	22 ∞27 38 20°≈47'51	0.66612 AU	morning rise	3667 Jan 31 06:57	29° る 46'29	0.07440 AU
morning rise	3666 Feb 16 05:44	16° ≈ 07'03			3667 Jan 31 01:06	30°R₹	
direct	3666 Feb 22 09:38	13° ≈ 22'35		direct	3667 Feb 05 20:56	27° る 17'46	
morning max el	3666 Mar 06 17:49	20°≈43'18	25°46'27	. ,	3667 Feb 12 13:30	0° ≈	2.4022120
desc. node	3666 Mar 08 04:47 3666 Mar 14 18:03	22°≈14'22 0°¥		morning max el desc. node	3667 Feb 17 02:28 3667 Feb 23 01:49	4°≈00'06 10°≈45'03	24°22'20
	3666 Apr 03 21:39	0°Υ		desc. node	3667 Mar 09 00:51	0° ∺	
morning set	3666 Apr 11 23:13	14° Ƴ 08'59		morning set	3667 Mar 24 23:43	25°) 49′05	
max. Earth dist.	3666 Apr 15 18:40	21° Y 17'14	1.35773 AU		3667 Mar 27 08:36	0° Υ	
	3666 Apr 20 05:40	0°8		max. Earth dist.	3667 Mar 28 15:59	2° Y 20′58	1.37755 AU
superior conj	3666 Apr 21 07:58	2° 8 11'47		superior conj	3667 Apr 04 14:17	15° Y 17'22	
minimum elong asc. node	3666 Apr 21 11:22 3666 Apr 27 22:27	2° 8 28'53	1°03'39	minimum elong	3667 Apr 04 18:47 3667 Apr 12 01:47	15° Ƴ 39'06 0° ႘	1°30'34
evening rise	3666 Apr 29 07:16	18° 8 29'47		evening rise	3667 Apr 13 07:39	2° 8 28'05	
0.0000	3666 May 05 03:29	0°Щ		asc. node	3667 Apr 14 19:30	5° 8 24'51	
evening max el	3666 May 17 05:03	17° Ⅱ 37′24	20°07'40	evening max el	3667 Apr 29 23:22	29° 8 27'35	19°08'05
retrograde	3666 May 27 17:07	22° Ⅱ 44'21			3667 Apr 30 13:08	0°II	
evening set desc. node	3666 May 29 16:26 3666 Jun 04 04:01	22° П 34'19 20° П 36'13		retrograde evening set	3667 May 08 19:43 3667 May 10 21:07	3° П 46'03 3° П 33'02	
inferior conj	3666 Jun 07 17:34	18° Ⅲ 35'04	-1°03'14	evening set	3667 May 18 05:20	30°R 8	
minimum elong	3666 Jun 07 14:36	18° Ⅱ 39′28	1°02'08	inferior conj	3667 May 19 04:15	29° 8 21'14	0°49'29
min. Earth dist.	3666 Jun 09 11:56	17° Ⅲ 32'01	0.55189 AU	minimum elong	3667 May 19 06:13	29° 8 17'53	0°48'49
morning rise	3666 Jun 16 11:13	14° Ⅱ 16'25 13° Ⅱ 40'49		min. Earth dist.	3667 May 22 03:09	27° 8 21'00	0.56414 AU
direct morning max el	3666 Jun 20 12:23 3666 Jul 04 04:04	13°Щ40'49 20°Щ22'30	23°54'52	desc. node morning rise	3667 May 22 01:01 3667 May 27 12:09	27° 8 24'31 24° 8 27'23	
	3666 Jul 12 08:40	0°95	20 0 102	direct	3667 Jun 01 12:23	23° 8 28'49	
asc. node	3666 Jul 24 21:43	21° © 28'53			3667 Jun 14 22:06	0° I I	
morning set	3666 Jul 28 12:00	28°553'06		morning max el	3667 Jun 15 18:24	0° ∏ 47'32	25°33'45
	3666 Jul 29 00:38	$0 { m ^o} \Omega$			3667 Jul 06 02:30	0ං ව	

3669 Jun 04 00:09

3669 Jun 10 15:55

morning set

 $0^{\circ}\Pi$

13°**Ⅱ**07'53

3668 Jun 10 21:25

3668 Jun 26 09:28

morning set

 $0^{\circ}\Pi$

28°**Ⅲ**33'42

asc. node	3669 Jun 14 12:50	21° Ⅱ 19'56		morning set	3670 May 25 16:49	27° 8 22'38	
max. Earth dist.	3669 Jun 16 21:22	26° Ⅱ 27'37	1.32118 AU		3670 May 26 23:41	Π °0	
				max. Earth dist.	3670 May 31 04:58	8° Ⅱ 52'27	1.32562 AU
superior conj	3669 Jun 17 21:30	28° Ⅱ 40′03	0°34'42	asc. node	3670 Jun 01 09:53	11° Ⅱ 28′06	
minimum elong	3669 Jun 17 20:00	28° Ⅲ 31'51	0°34'24				
	3669 Jun 18 12:02	0∘ ௐ		superior conj	3670 Jun 02 06:35	13° Ⅲ 20′11	0°09'03
evening rise	3669 Jun 24 17:24	13° © 33'11		minimum elong	3670 Jun 02 06:09	13° Ⅱ 17'51	0°08'58
<i>5</i>	3669 Jul 02 23:43	$0^{\circ}\Omega$		behind sun begin	3670 Jun 02 01:50	12° Ⅱ 54'23	
desc. node	3669 Jul 21 18:22	26°Ω34'36		behind sun end	3670 Jun 02 10:29	13° ∏ 41'21	
evening max el	3669 Jul 21 20:47	26° Ω 40'25	25026!52	evening rise	3670 Jun 09 05:14	28° I I22'42	
evening max er			23 20 33	evening rise		20 H2242	
. 1	3669 Jul 25 19:41	0° m/y			3670 Jun 09 23:37		
retrograde	3669 Aug 04 20:13	3° m 46'13			3670 Jun 27 02:45	0°Ω	22055121
evening set	3669 Aug 10 16:22	2° TD 26'57		evening max el	3670 Jul 03 10:21	7° Ω 15'33	23°55'21
	3669 Aug 15 00:46	30°RΩ		desc. node	3670 Jul 08 15:22	11° Ω 25'58	
min. Earth dist.	3669 Aug 15 08:42	29° Ω 46'48	0.57977 AU	retrograde	3670 Jul 17 03:59	14° Ω 10′01	
inferior conj	3669 Aug 18 11:44	27° Ω 36′25		evening set	3670 Jul 21 14:12	13° Ω 26'48	
minimum elong	3669 Aug 18 13:11	27° Ω 33'53	5°07'28	min. Earth dist.	3670 Jul 27 20:41	10° Ω 25'30	0.56226 AU
morning rise	3669 Aug 26 12:17	23° Ω 19'33		inferior conj	3670 Jul 30 05:30	8° Ω 58'49	-4°56'33
direct	3669 Aug 29 00:44	23° Ω 00′05		minimum elong	3670 Jul 30 01:03	9° Ω 05'39	4°56'04
morning max el	3669 Sep 06 14:40	27° Ω 04'01	18°52'36	morning rise	3670 Aug 07 14:30	5° Ω 01'17	
Ü	3669 Sep 09 07:29	0° m)		direct	3670 Aug 10 08:37	4° Ω 41'50	
asc. node	3669 Sep 10 12:03	1° mp 31'13		morning max el	3670 Aug 20 08:28	9°Ω20'16	19°54'37
morning set	3669 Sep 23 03:35	23° m 30'37		asc. node	3670 Aug 28 09:06	19° Ω 35'28	17 5457
morning set	*	ე∘ ი		asc. node	Č		
	3669 Sep 26 10:45	0-32		. ,	3670 Sep 03 05:55	0°M) 0°M,0212.5	
				morning set	3670 Sep 07 07:19	8° m , 02'25	
superior conj	3669 Oct 01 15:01	10° Ω 02'35					
minimum elong	3669 Oct 01 17:35	10° ≏ 14'50	1°35'17	superior conj	3670 Sep 15 02:22	23° m 50'55	1°43'35
max. Earth dist.	3669 Oct 08 14:21	22° ≏ 54'18	1.39130 AU	minimum elong	3670 Sep 15 03:12	23° m 55'09	1°43'33
evening rise	3669 Oct 12 12:08	29° ≏ 43'40			3670 Sep 18 05:23	0∘ ⊽	
	3669 Oct 12 15:58	0°M₊		max. Earth dist.	3670 Sep 20 19:34	4° ≙ 57'13	1.37087 AU
desc. node	3669 Oct 17 17:42	8°M26'38		evening rise	3670 Sep 24 14:37	11° ≏ 56'59	
	3669 Oct 31 23:33	0° ∡ ¹		desc. node	3670 Oct 04 14:44	28° ≏ 57'28	
evening max el	3669 Nov 16 20:28	19° ∡ ³37'15	24°23'10		3670 Oct 05 06:25	0° M .	
retrograde	3669 Nov 28 03:43	26° √ 13'55			3670 Oct 27 04:12	0° ∡ ¹	
evening set	3669 Dec 03 13:26	23° ∡ 58'37		evening max el	3670 Oct 30 08:45	3° ∡ 19'17	25°36'27
asc. node	3669 Dec 07 11:16	19° ∡ 38′20		retrograde	3670 Nov 11 14:20	10° ∡ 20'06	20 302,
min. Earth dist.	3669 Dec 08 05:51	18° ₹ 36′56	0.67691 AU	evening set	3670 Nov 17 14:20	7°×7'50'37	
				•			0.67074 AU
inferior conj	3669 Dec 09 00:44	17° ₹ 33'37	0°31'52	min. Earth dist.	3670 Nov 21 22:49	3°×703'47	
minimum elong	3669 Dec 08 23:59	17° ∡ 36'11	0°31'32	inferior conj	3670 Nov 23 04:41	1° ∡ °28′24	
morning rise	3669 Dec 14 10:34	11° ∡ ³31′04		minimum elong	3670 Nov 23 05:17	1° ∡ ¹26′26	0°23'26
direct	3669 Dec 18 05:57	10° ≯ 08'10		asc. node	3670 Nov 24 08:18	0° ∡ 01'12	
morning max el	3669 Dec 25 23:50	14° ≯ 33'18	20°13'44		3670 Nov 24 08:41	30°RM	
	3670 Jan 07 00:18	0°₹		morning rise	3670 Nov 28 20:54	25°M33'55	
desc. node	3670 Jan 13 16:55	9° る 52'59		direct	3670 Dec 02 04:37	24°M30'25	
morning set	3670 Jan 22 13:39	23° る 24'01		morning max el	3670 Dec 09 05:25	28°M25'55	19°13'15
	3670 Jan 26 19:26	0° ≈			3670 Dec 10 16:47	0° ∡ ¹	
max. Earth dist.	3670 Feb 01 19:50	9° ≈ 32'00	1.43714 AU	greatest brilliancy	3670 Dec 23 04:20	17° ∡ °20'37	-0.7m
					3670 Dec 31 09:28	ი∘ჳ	
superior conj	3670 Feb 07 16:28	19° ≈ 03'09	-2°04'08	desc. node	3670 Dec 31 13:59	0° る 17'34	
minimum elong	3670 Feb 07 12:59	18° ≈ 48'48		morning set	3671 Jan 01 15:09	1° る 55'13	
minimum ciong	3670 Feb 14 05:31	0° ∀	2 0400	max. Earth dist.	3671 Jan 15 10:45	23° る 30'34	1.44836 AU
avanina riaa		10°) 39'57		max. Earm dist.	30/1 Jan 13 10.43	23 03034	1.44630 AU
evening rise	3670 Feb 20 10:22	10 π 3937			2671 1 10 00 42	200707114	1042124
	3670 Mar 03 21:44			superior conj	3671 Jan 18 08:43	28°る07'14	
asc. node	3670 Mar 05 10:35	2°Υ17'01		minimum elong	3671 Jan 18 00:06	27° る 33'05	1°42'41
evening max el	3670 Mar 10 01:25	8° Y ′00′16	18°09'18		3671 Jan 19 13:06	0° ≈	
retrograde	3670 Mar 16 12:10	11° Y 23'30		evening rise	3671 Feb 01 22:17	21° ≈ 42'23	
evening set	3670 Mar 19 08:17	10° Y 42'46			3671 Feb 06 22:44	0° ∀	
inferior conj	3670 Mar 25 13:38	5° Y 30'39	3°32'56	asc. node	3671 Feb 20 07:37	20° 米 01'34	
minimum elong	3670 Mar 25 14:50	5° Y 27'28	3°32'51	evening max el	3671 Feb 21 13:42	21°) 22'48	18°27'56
min. Earth dist.	3670 Mar 28 08:57	2° Y 33'48	0.62577 AU	retrograde	3671 Feb 28 02:02	24° ¥ 56′26	
	3670 Mar 31 03:42	30° ₹		evening set	3671 Mar 03 03:53	24°) €03'56	
morning rise	3670 Mar 31 20:08	29°) 28'01		inferior conj	3671 Mar 08 23:56	18° ¥ 33'17	3°37'19
direct	3670 Apr 07 17:32	26°) 53'37		minimum elong	3671 Mar 08 23:27	18°) 34'42	3°37'18
desc. node	3670 Apr 11 16:05	27°) 38'36		min. Earth dist.	3671 Mar 11 04:06	16°) €00'44	0.64444 AU
	3670 Apr 16 01:30	27 γ (3636		morning rise	3671 Mar 14 18:22	12° ¥ 23′25	5.5.111710
morning max el	3670 Apr 21 18:13	4° Υ 51'33	27°50'32	direct	3671 Mar 21 13:33	9° H 34'26	
morning max ci	3670 May 10 15:04	0° 8	21 3032	desc. node	3671 Mar 29 13:08	9 X 34 26 12° X 38'18	
	3010 Iviay 10 13.04	υ Ο		acse. Hout	JULI 19101 47 13.00	12 130 18	

morning rise	3673 Feb 09 02:39	9° ≈ 13'59		minimum elong	3674 Jan 19 00:42	29° る 19'22	2°29'03
direct	3673 Feb 15 00:59	6°≈34'59		min. Earth dist.	3674 Jan 19 12:51	28° る 37'30	0.67687 AU
morning max el	3673 Feb 26 22:20	13°≈41'06	25°11'49	morning rise	3674 Jan 24 06:30	20° ろ 57'55	0.07007710
desc. node	3673 Mar 02 07:15	17°≈19'54	23 11 47	direct	3674 Jan 29 14:20	22° ろ 37'35	
dese. Hode	3673 Mar 12 04:24	0° ∀		morning max el	3674 Feb 09 06:51	26° る 59'29	23°44'27
	3673 Mar 31 09:20	0° Υ		morning mun vi	3674 Feb 12 02:06	0°≈	2527
morning set	3673 Apr 04 03:01	6° Υ 35'04		desc. node	3674 Feb 17 04:17	6°≈10'52	
max. Earth dist.	3673 Apr 07 18:44	13° Υ 16'39	1.36574 AU	dese. node	3674 Mar 05 19:37	0° ∀	
				morning set	3674 Mar 16 17:08	17°) 43'43	
superior conj	3673 Apr 13 23:17	25° Ƴ 10'47	-1°16'03	max. Earth dist.	3674 Mar 20 14:19	24° H 28'13	1.38678 AU
minimum elong	3673 Apr 14 03:15	25° Υ 30'22			3674 Mar 23 16:22	0°Υ	
8	3673 Apr 16 09:20	0°8					
evening rise	3673 Apr 22 05:34	11° 8 49'13		superior conj	3674 Mar 27 23:33	7° Ƴ 57'34	-1°41'19
asc. node	3673 Apr 22 00:59	11° 8 26'03		minimum elong	3674 Mar 28 04:14	8° Y 19'36	1°40'48
	3673 May 01 23:11	0°II		evening rise	3674 Apr 06 02:26	25° Y 35'04	
evening max el	3673 May 09 12:23	9° Ⅱ 54'47	19°39'56	S	3674 Apr 08 09:06	0°8	
retrograde	3673 May 19 06:38	14° Ⅱ 39'15		asc. node	3674 Apr 08 22:00	1° 8 01'48	
evening set	3673 May 21 05:59	14° Ⅱ 28'30		evening max el	3674 Apr 22 11:05	22° 8 00'58	18°48'48
desc. node	3673 May 29 06:26	10° Ⅱ 53'11		retrograde	3674 Apr 30 16:41	26° 8 02'33	
inferior conj	3673 May 30 00:10	10° Ⅱ 25'31	-0°13'04	evening set	3674 May 02 20:51	25° 8 46'47	
minimum elong	3673 May 29 23:35	10° Ⅱ 26′26	0°12'51	inferior conj	3674 May 10 19:24	21° 8 26'57	1°29'40
transit middle	3673 May 29 23:35	10° Ⅱ 26′26	0°12'51	minimum elong	3674 May 10 22:31	21° 8 21'16	1°28'39
transit begin	3673 May 29 21:15	10° Ⅲ 30'06		min. Earth dist.	3674 May 14 01:08	19° 8 06'23	0.57160 AU
transit end	3673 May 30 01:55	10° Ⅲ 22'46		desc. node	3674 May 16 03:27	17° 8 44'14	
min. Earth dist.	3673 Jun 01 08:51	8° Ⅱ 57'01	0.55613 AU	morning rise	3674 May 18 20:59	16° 8 18'41	
morning rise	3673 Jun 07 14:44	5° Ⅱ 52'34		direct	3674 May 24 07:34	15° 8 06'55	
direct	3673 Jun 12 01:32	5° Ⅱ 08'26		morning max el	3674 Jun 07 15:43	22° 8 35'54	26°10'47
morning max el	3673 Jun 26 00:34	12° Ⅲ 07'37	24°38'17	8	3674 Jun 14 05:27	0°II	
	3673 Jul 09 17:08	0°9			3674 Jul 02 10:55	0°9	
asc. node	3673 Jul 19 00:16	17°511'17		asc. node	3674 Jul 05 21:17	7° © 03'13	
morning set	3673 Jul 21 14:17	22°533'34		morning set	3674 Jul 06 01:20	7° © 24'29	
. 8	3673 Jul 25 01:19	$0^{\circ}\Omega$		<i>3</i>			
				superior conj	3674 Jul 13 00:36	22° © 33'44	1°08'46
superior conj	3673 Jul 28 13:22	7° Ω 38'27	1°25'23	minimum elong	3674 Jul 12 22:17	22° © 20'58	1°08'24
minimum elong	3673 Jul 28 11:06	7° Ω 26'10	1°25'07	max. Earth dist.	3674 Jul 13 14:25	23° © 49'47	1.32246 AU
max. Earth dist.	3673 Jul 30 04:47	11° Ω 12′22	1.32850 AU		3674 Jul 16 10:07	$0^{\circ}\Omega$	
evening rise	3673 Aug 04 19:27	23° Ω 01'49		evening rise	3674 Jul 19 23:36	7° Ω 35'41	
C	3673 Aug 08 07:29	0° m		C	3674 Jul 31 18:33	0° m y	
desc. node	3673 Aug 25 05:45	28° m 25'19		desc. node	3674 Aug 12 02:45	16° m 59'43	
	3673 Aug 26 08:47	0∘ ⊽		evening max el	3674 Aug 20 02:09	25° m 58'43	27°05'10
evening max el	3673 Sep 06 20:03	13° ≏ 31'34	27°26'21	C	3674 Aug 25 00:37	0° ত	
retrograde	3673 Sep 20 13:01	20° £ 47'34		retrograde	3674 Sep 02 23:00	3° £ 11′06	
evening set	3673 Sep 27 17:33	18° ≏ 13'45		evening set	3674 Sep 10 00:44	0° £ 57'15	
min. Earth dist.	3673 Oct 01 08:51	15° ≏ 09'24	0.63131 AU	C	3674 Sep 11 10:53	30°R. Mp	
inferior conj	3673 Oct 04 02:21	12° ≏ 28'22	-3°23'34	min. Earth dist.	3674 Sep 13 16:25	28° mp 15'25	0.61200 AU
minimum elong	3673 Oct 04 07:48	12° £ 14'57	3°21'50	inferior conj	3674 Sep 16 19:47	25° m 32'08	-4°17'11
morning rise	3673 Oct 10 23:28	7° £ 15'16		minimum elong	3674 Sep 17 01:34	25° m 19'33	4°15'52
direct	3673 Oct 13 09:55	6° ₽ 47'19		morning rise	3674 Sep 24 04:12	20° m 39'41	
asc. node	3673 Oct 14 23:29	6° £ 59'08		direct	3674 Sep 26 13:02	20° Mp 16'51	
morning max el	3673 Oct 20 01:22	10° ₽ 13'12	17°50'24	asc. node	3674 Oct 01 20:31	22° Mp 16'38	
	3673 Nov 02 06:16	0°M		morning max el	3674 Oct 03 15:39	23° m 49'36	17°58'45
morning set	3673 Nov 05 08:31	5°M25'19			3674 Oct 08 14:41	0∘ ত	
				morning set	3674 Oct 19 10:43	18° ≏ 43'45	
superior conj	3673 Nov 17 04:47	25°M46'16	0°27'34		3674 Oct 25 14:39	0° M	
minimum elong	3673 Nov 17 07:29	25°M57'32	0°27'11				
	3673 Nov 19 18:09	0°⊀		superior conj	3674 Oct 29 15:49	7°M12'13	1°02'42
desc. node	3673 Nov 21 05:04	2° ₹ 22'42		minimum elong	3674 Oct 29 20:03	7° M 30'45	1°02'11
max. Earth dist.	3673 Nov 23 17:06	6° ≯ 25'30	1.43890 AU	max. Earth dist.	3674 Nov 06 05:47	20°M07'33	1.42292 AU
evening rise	3673 Dec 02 13:07	20° ∡ 19'42		desc. node	3674 Nov 08 02:04	23°M09'42	
-	3673 Dec 08 21:14	ರ°0		evening rise	3674 Nov 12 07:07	29°M56'30	
	3673 Dec 30 09:59	0°≈		-	3674 Nov 12 08:00	0°⊀	
evening max el	3674 Jan 01 04:47	1°≈55'28	21°02'27		3674 Dec 02 11:38	8°0	
retrograde	3674 Jan 09 16:50	6°≈57'31		evening max el	3674 Dec 14 23:20	15° る 29'03	22°17'49
asc. node	3674 Jan 10 22:42	6°≈49'02		retrograde	3674 Dec 24 13:11	21° る 10'53	
evening set	3674 Jan 13 18:42	5°≈23'22		asc. node	3674 Dec 28 19:45	19° る 33'44	
-	3674 Jan 18 12:51	30°₹₹		evening set	3674 Dec 29 02:18	19° る 20'43	
inferior conj	3674 Jan 19 03:11	29° る 10'45	2°29'48	inferior conj	3675 Jan 03 10:46	12° る 59'58	1°49'04
•				,			

minimum elong	3675 Jan 03 08:36	13° ろ 07'28	1°48'17	min. Earth dist.	3675 Dec 18 05:33	27° ∡ ³37'15	0.67891 AU
min. Earth dist.	3675 Jan 03 08:49	13°る06'45	0.67969 AU	inferior conj	3675 Dec 18 18:21	26° x 53'33	1°01'43
morning rise	3675 Jan 08 14:47	6° る 49'37	0.07909 AU	minimum elong	3675 Dec 18 16:57	26° x 53 33 26° x 58'19	1°01'43
direct	3675 Jan 13 07:42	4°る51'43		morning rise	3675 Dec 24 01:26	20° x 38 19	1 01 09
		4 3 3143	22017112	•		19° х 12'19	
morning max el	3675 Jan 22 18:05	· <u> </u>	22°16'12	direct	3675 Dec 28 04:10		2005 4150
desc. node	3675 Feb 04 01:18	25° ⋜ 39'28		morning max el	3676 Jan 05 11:21	24° ₹ 00'02	20°54'59
	3675 Feb 07 03:09	0°≈			3676 Jan 10 16:41	0°る	
morning set	3675 Feb 25 03:20	27°≈31'05		desc. node	3676 Jan 21 22:21	15° る 35'27	
	3675 Feb 26 15:51	0°) {			3676 Jan 31 12:21	0° ≈	
max. Earth dist.	3675 Mar 02 11:28	6°) €20'45	1.40844 AU	morning set	3676 Feb 04 10:26	6° ≈ 04'20	
				max. Earth dist.	3676 Feb 12 14:54	19° ≈ 06'58	1.42791 AU
superior conj	3675 Mar 10 06:13	19° ⊁ 51'23			3676 Feb 19 04:31	0° ∀	
minimum elong	3675 Mar 10 09:53	20° ∺ 07'49	1°59'46				
	3675 Mar 15 19:53	0 ° Υ		superior conj	3676 Feb 19 14:10	0°) 40′48	
evening rise	3675 Mar 20 12:41	8° Ƴ 46'12		minimum elong	3676 Feb 19 14:03	0°) 40′17	2°07'14
asc. node	3675 Mar 26 19:02	20° Ƴ 16′58		evening rise	3676 Mar 02 08:17	21°) 13′21	
	3675 Apr 01 20:06	0°B			3676 Mar 07 06:44	0 ° Υ	
evening max el	3675 Apr 05 17:45	4° 8 39'57	18°18'01	asc. node	3676 Mar 12 16:04	9° Ƴ 04'20	
retrograde	3675 Apr 12 21:56	8° 8 14'32		evening max el	3676 Mar 19 05:02	17° Ƴ 42'24	18°07'00
evening set	3675 Apr 15 08:31	7° と 50'37		retrograde	3676 Mar 25 19:14	21° Y 05'40	
inferior conj	3675 Apr 22 12:13	3° 8 10'31	2°40'53	evening set	3676 Mar 28 11:56	20° Ƴ 31'33	
minimum elong	3675 Apr 22 15:50	3° 8 02'48	2°40'01	inferior conj	3676 Apr 04 00:20	15° Ƴ 31'06	3°21'16
min. Earth dist.	3675 Apr 25 22:31	0° 8 16'20	0.59191 AU	minimum elong	3676 Apr 04 02:35	15° Y 25'34	3°20'58
	3675 Apr 26 06:41	30°RƳ		min. Earth dist.	3676 Apr 07 03:16	12° Y 28'03	0.61371 AU
morning rise	3675 Apr 29 20:23	27° Y '33'01		morning rise	3676 Apr 10 15:23	9° Υ 35'01	0.015 / 1110
desc. node	3675 May 03 00:28	26°Υ12'21		direct	3676 Apr 17 10:14	7° Υ 14'44	
direct	3675 May 06 03:12	25°Υ46'00		desc. node	3676 Apr 18 21:31	7° Υ 20'57	
direct	3675 May 16 10:51	0° 8		morning max el	3676 May 01 15:13	15° Υ 11'59	27°49'21
marning may al	•	3° 8 33'42	27017142	morning max er		0° 8	2/ 4921
morning max el	3675 May 20 12:21	0°Ⅱ	2/1/42		3676 May 13 15:57	0°II	
	3675 Jun 08 19:38			. ,	3676 May 31 07:49		
morning set	3675 Jun 20 10:01	22° I 107'06		morning set	3676 Jun 03 14:23	6° Ⅱ 34'08	
asc. node	3675 Jun 22 18:19	27° Ⅱ 05'32		asc. node	3676 Jun 08 15:21	17° Ⅱ 12'50	1 222 16 177
	3675 Jun 24 02:38	0.2		max. Earth dist.	3676 Jun 09 12:23	19° Ⅱ 06'51	1.32246 AU
max. Earth dist.	3675 Jun 27 02:16	6° © 32'31	1.32043 AU				
						_	
				superior conj	3676 Jun 10 22:59	22° I 15'39	0°24'09
superior conj	3675 Jun 27 12:24	7° © 28'24	0°48'09	superior conj minimum elong	3676 Jun 10 21:54	22° Ⅱ 09'42	0°24'09 0°23'55
minimum elong	3675 Jun 27 12:24 3675 Jun 27 10:29	7° 5 28'24 7° 5 17'49	0°48'09 0°47'47			22°∏09'42 0°©	
		7°©17'49 22°©21'29			3676 Jun 10 21:54	22°∏09'42 0°© 7°©11'22	
minimum elong	3675 Jun 27 10:29	7° © 17'49		minimum elong	3676 Jun 10 21:54 3676 Jun 14 11:45	22°∏09'42 0°©	
minimum elong	3675 Jun 27 10:29 3675 Jul 04 08:23	7°©17'49 22°©21'29		minimum elong	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37	22°∏09'42 0°© 7°©11'22	0°23'55
minimum elong	3675 Jun 27 10:29 3675 Jul 04 08:23 3675 Jul 08 01:15	7°©17'49 22°©21'29 0°Ω		minimum elong evening rise	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37 3676 Jun 29 17:08	22°∏09'42 0°© 7°©11'22 0°Ω	0°23'55
minimum elong evening rise	3675 Jun 27 10:29 3675 Jul 04 08:23 3675 Jul 08 01:15 3675 Jul 26 05:17	7°\$17'49 22°\$21'29 0°\$ 0°\$\$		minimum elong evening rise evening max el	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37 3676 Jun 29 17:08 3676 Jul 13 17:24	22°∏09'42 0°© 7°©11'22 0°Ω 18°Ω33'13	0°23'55
minimum elong evening rise desc. node	3675 Jun 27 10:29 3675 Jul 04 08:23 3675 Jul 08 01:15 3675 Jul 26 05:17 3675 Jul 29 23:46	7°⊊17'49 22°⊊21'29 0°Ω 0°™ 4°™29'44	0°47'47	minimum elong evening rise evening max el desc. node	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37 3676 Jun 29 17:08 3676 Jul 13 17:24 3676 Jul 15 20:48	22° \$\Pi09'42\$ 0° \$\Sigma\$ 7° \$\Sigma\$11'22\$ 0° \$\Omega\$ 18° \$\Omega\$33'13\$ 20° \$\Omega\$28'28	0°23'55
minimum elong evening rise desc. node evening max el	3675 Jun 27 10:29 3675 Jul 04 08:23 3675 Jul 08 01:15 3675 Jul 26 05:17 3675 Jul 29 23:46 3675 Aug 02 01:18	7°©17'49 22°©21'29 0°N 0°M 4°M29'44 7°M38'55	0°47'47	minimum elong evening rise evening max el desc. node retrograde	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37 3676 Jun 29 17:08 3676 Jul 13 17:24 3676 Jul 15 20:48 3676 Jul 27 15:58	22° \$\Pi\09'42\$ 0° \$\Sigma\\$ 7° \$\Sigma\1'22\$ 0° \$\Omega\\$ 18° \$\Omega\33'13\$ 20° \$\Omega\28'28\$ 25° \$\Omega\36'27\$ 24° \$\Omega\33'27\$	0°23'55
minimum elong evening rise desc. node evening max el retrograde	3675 Jun 27 10:29 3675 Jul 04 08:23 3675 Jul 08 01:15 3675 Jul 26 05:17 3675 Jul 29 23:46 3675 Aug 02 01:18 3675 Aug 16 00:42	7°\$17'49 22°\$21'29 0°\$\mathbb{R}\$ 0°\$\mathbb{m}\$ 4°\$\mathbb{m}\$29'44 7°\$\mathbb{m}\$38'55 14°\$\mathbb{m}\$48'27 13°\$\mathbb{m}\$06'47	0°47'47	minimum elong evening rise evening max el desc. node retrograde evening set	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37 3676 Jun 29 17:08 3676 Jul 13 17:24 3676 Jul 15 20:48 3676 Jul 27 15:58 3676 Aug 01 22:30	22° \$\Pi\09'42\$ 0° \$\Sigma\\$ 7° \$\Sigma\1'22\$ 0° \$\Omega\\$ 18° \$\Omega\33'13\$ 20° \$\Omega\28'28\$ 25° \$\Omega\36'27\$ 24° \$\Omega\33'27\$	0°23'55 24°49'40 0.57170 AU
minimum elong evening rise desc. node evening max el retrograde evening set	3675 Jun 27 10:29 3675 Jul 04 08:23 3675 Jul 08 01:15 3675 Jul 26 05:17 3675 Jul 29 23:46 3675 Aug 02 01:18 3675 Aug 16 00:42 3675 Aug 22 11:38	7°\$17'49 22°\$21'29 0°\$\mathbb{R}\$ 0°\$\mathbb{m}\$ 4°\$\mathbb{m}\$29'44 7°\$\mathbb{m}\$38'55 14°\$\mathbb{m}\$48'27 13°\$\mathbb{m}\$06'47	0°47'47 26°10'58 0.59130 AU	minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist.	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37 3676 Jun 29 17:08 3676 Jul 13 17:24 3676 Jul 15 20:48 3676 Jul 27 15:58 3676 Aug 01 22:30 3676 Aug 07 04:49 3676 Aug 10 02:10	22° \$\Pi\09'42\$ 0° \$\Pi\00' \$\Omega\00' \$\	0°23'55 24°49'40 0.57170 AU -5°08'18
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist.	3675 Jun 27 10:29 3675 Jul 04 08:23 3675 Jul 08 01:15 3675 Jul 26 05:17 3675 Jul 29 23:46 3675 Aug 02 01:18 3675 Aug 16 00:42 3675 Aug 22 11:38 3675 Aug 26 14:06 3675 Aug 29 20:44	7°\$17'49 22°\$21'29 0°\$\mathbb{\Omega}\$ 0°\$\mathbb{\mathbb{m}}\$ 4°\$\mathbb{\mathbb{m}}\$29'44 7°\$\mathbb{\mathbb{m}}\$38'55 14°\$\mathbb{\mathbb{m}}\$48'27 13°\$\mathbb{\mathbb{m}}\$06'47 10°\$\mathbb{\mathbb{m}}\$31'32	0°47'47 26°10'58 0.59130 AU -4°56'24	minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37 3676 Jun 29 17:08 3676 Jul 13 17:24 3676 Jul 15 20:48 3676 Jul 27 15:58 3676 Aug 01 22:30 3676 Aug 07 04:49	22° \$\Pi\09'42\$ 0° \$\Pi\00' \$\Omega\00' \$\	0°23'55 24°49'40 0.57170 AU -5°08'18
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	3675 Jun 27 10:29 3675 Jul 04 08:23 3675 Jul 08 01:15 3675 Jul 26 05:17 3675 Jul 29 23:46 3675 Aug 02 01:18 3675 Aug 16 00:42 3675 Aug 22 11:38 3675 Aug 26 14:06	7°\$17'49 22°\$21'29 0°\$\mathbb{\Omega}\$ 0°\$\mathbb{\mathbb{m}}\$ 4°\$\mathbb{\mathbb{m}}\$29'44 7°\$\mathbb{\mathbb{m}}\$38'55 14°\$\mathbb{\mathbb{m}}\$48'27 13°\$\mathbb{\mathbb{m}}\$06'47 10°\$\mathbb{\mathbb{m}}\$31'32 8°\$\mathbb{\mathbb{m}}\$03'15	0°47'47 26°10'58 0.59130 AU -4°56'24	minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37 3676 Jun 29 17:08 3676 Jul 13 17:24 3676 Jul 15 20:48 3676 Jul 27 15:58 3676 Aug 01 22:30 3676 Aug 07 04:49 3676 Aug 10 02:10 3676 Aug 10 01:14	22° \$\Pi\09'42\$ 0° \$\sigma\\$ 7° \$\sigma\11'22\$ 0° \$\Omega\\$ 18° \$\Omega\33'13\$ 20° \$\Omega\28'28\$ 25° \$\Omega\36'27\$ 24° \$\Omega\33'27\$ 21° \$\Omega\45'56\$ 19° \$\Omega\53'39\$	0°23'55 24°49'40 0.57170 AU -5°08'18
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3675 Jun 27 10:29 3675 Jul 04 08:23 3675 Jul 08 01:15 3675 Jul 26 05:17 3675 Jul 29 23:46 3675 Aug 02 01:18 3675 Aug 16 00:42 3675 Aug 22 11:38 3675 Aug 26 14:06 3675 Aug 29 20:44 3675 Aug 30 00:38 3675 Sep 06 15:51	7°\$17'49 22°\$21'29 0°\$\Omega\$ 0°\$\mathref{m}\$ 4°\$\mathref{m}\$29'44 7°\$\mathref{m}\$38'55 14°\$\mathref{m}\$48'27 13°\$\mathref{m}\$06'47 10°\$\mathref{m}\$31'32 8°\$\mathref{m}\$03'15 7°\$\mathref{m}\$55'51 3°\$\mathref{m}\$33'47	0°47'47 26°10'58 0.59130 AU -4°56'24	minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37 3676 Jun 29 17:08 3676 Jul 13 17:24 3676 Jul 15 20:48 3676 Jul 27 15:58 3676 Aug 01 22:30 3676 Aug 07 04:49 3676 Aug 10 02:10 3676 Aug 10 01:14 3676 Aug 18 06:30 3676 Aug 20 20:53	22° M09'42 0° S 7° S11'22 0° N 18° N33'13 20° N28'28 25° N36'27 24° N33'27 21° N45'56 19° N52'07 19° N53'39 15° N44'25	0°23'55 24°49'40 0.57170 AU -5°08'18
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3675 Jun 27 10:29 3675 Jul 04 08:23 3675 Jul 08 01:15 3675 Jul 26 05:17 3675 Jul 29 23:46 3675 Aug 02 01:18 3675 Aug 16 00:42 3675 Aug 22 11:38 3675 Aug 26 14:06 3675 Aug 29 20:44 3675 Aug 30 00:38 3675 Sep 06 15:51 3675 Sep 09 02:03	7°\$17'49 22°\$21'29 0°\$\mathcal{O}\$ 0°\$\mathcal{W}\$ 0°\$\mathcal{W}\$ 4°\$\mathcal{W}\$29'44 7°\$\mathcal{W}\$38'55 14°\$\mathcal{W}\$48'27 13°\$\mathcal{W}\$06'47 10°\$\mathcal{W}\$31'32 8°\$\mathcal{W}\$03'15 7°\$\mathcal{W}\$55'51 3°\$\mathcal{W}\$33'44 3°\$\mathcal{W}\$13'43	0°47'47 26°10'58 0.59130 AU -4°56'24 4°55'57	minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37 3676 Jun 29 17:08 3676 Jul 13 17:24 3676 Jul 15 20:48 3676 Jul 27 15:58 3676 Aug 01 22:30 3676 Aug 07 04:49 3676 Aug 10 02:10 3676 Aug 10 01:14 3676 Aug 18 06:30 3676 Aug 20 20:53 3676 Aug 30 00:35	22° M09'42 0° S 7° S11'22 0° N 18° N33'13 20° N28'28 25° N36'27 24° N33'27 21° N45'56 19° N52'07 19° N53'39 15° N44'25 15° N25'17 19° N42'42	0°23'55 24°49'40 0.57170 AU -5°08'18 5°08'16
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	3675 Jun 27 10:29 3675 Jul 04 08:23 3675 Jul 08 01:15 3675 Jul 26 05:17 3675 Jul 29 23:46 3675 Aug 02 01:18 3675 Aug 16 00:42 3675 Aug 22 11:38 3675 Aug 26 14:06 3675 Aug 29 20:44 3675 Aug 30 00:38 3675 Sep 06 15:51 3675 Sep 09 02:03 3675 Sep 17 00:30	7°\$17'49 22°\$21'29 0°\$\mathcal{O}\$ 0°\$\mathcal{W}\$ 0°\$\mathcal{W}\$ 4°\$\mathcal{W}\$29'44 7°\$\mathcal{W}\$38'55 14°\$\mathcal{W}\$48'27 13°\$\mathcal{W}\$06'47 10°\$\mathcal{W}\$31'32 8°\$\mathcal{W}\$03'15 7°\$\mathcal{W}\$55'551 3°\$\mathcal{W}\$33'47 3°\$\mathcal{W}\$13'43 7°\$\mathcal{W}\$03'00	0°47'47 26°10'58 0.59130 AU -4°56'24	minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37 3676 Jun 29 17:08 3676 Jul 13 17:24 3676 Jul 15 20:48 3676 Jul 27 15:58 3676 Aug 01 22:30 3676 Aug 07 04:49 3676 Aug 10 02:10 3676 Aug 10 01:14 3676 Aug 18 06:30 3676 Aug 20 20:53 3676 Aug 30 00:35 3676 Sep 04 14:36	22° M09'42 0° S 7° S11'22 0° N 18° N33'13 20° N28'28 25° N36'27 24° N33'27 21° N45'56 19° N52'07 19° N53'39 15° N44'25 15° N25'17 19° N42'42 26° N26'15	0°23'55 24°49'40 0.57170 AU -5°08'18 5°08'16
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3675 Jun 27 10:29 3675 Jul 04 08:23 3675 Jul 08 01:15 3675 Jul 26 05:17 3675 Jul 29 23:46 3675 Aug 02 01:18 3675 Aug 16 00:42 3675 Aug 22 11:38 3675 Aug 26 14:06 3675 Aug 29 20:44 3675 Aug 30 00:38 3675 Sep 06 15:51 3675 Sep 09 02:03 3675 Sep 17 00:30 3675 Sep 18 17:34	7°\$17'49 22°\$21'29 0°\$\mathcal{O}\$ 0°\$\mathcal{m}\$ 4°\$\mathcal{m}\$29'44 7°\$\mathcal{m}\$38'55 14°\$\mathcal{m}\$48'27 13°\$\mathcal{m}\$06'47 10°\$\mathcal{m}\$31'32 8°\$\mathcal{m}\$03'15 7°\$\mathcal{m}\$55'51 3°\$\mathcal{m}\$33'47 3°\$\mathcal{m}\$13'43 7°\$\mathcal{m}\$03'00 8°\$\mathcal{m}\$50'59	0°47'47 26°10'58 0.59130 AU -4°56'24 4°55'57	minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37 3676 Jun 29 17:08 3676 Jul 13 17:24 3676 Jul 15 20:48 3676 Jul 27 15:58 3676 Aug 01 22:30 3676 Aug 07 04:49 3676 Aug 10 02:10 3676 Aug 10 01:14 3676 Aug 10 01:14 3676 Aug 10 00:35 3676 Aug 30 00:35 3676 Sep 04 14:36 3676 Sep 06 22:02	22° M09'42 0° S 7° S11'22 0° N 18° N33'13 20° N28'28 25° N36'27 24° N33'27 21° N45'56 19° N52'07 19° N53'39 15° N44'25 15° N25'17 19° N42'42 26° N26'15 0° M	0°23'55 24°49'40 0.57170 AU -5°08'18 5°08'16
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minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	3675 Jun 27 10:29 3675 Jul 04 08:23 3675 Jul 08 01:15 3675 Jul 26 05:17 3675 Jul 29 23:46 3675 Aug 02 01:18 3675 Aug 16 00:42 3675 Aug 22 11:38 3675 Aug 26 14:06 3675 Aug 29 20:44 3675 Aug 30 00:38 3675 Sep 06 15:51 3675 Sep 09 02:03 3675 Sep 17 00:30 3675 Sep 18 17:34 3675 Oct 01 16:37 3675 Oct 01 16:37 3675 Oct 12 01:55 3675 Oct 12 05:23 3675 Oct 17 18:02 3675 Oct 19 12:48 3675 Oct 23 21:35 3675 Oct 25 23:06	7°\$17'49 22°\$21'29 0°\$\mathbb{\alpha}\$ 0°\$\mathbb{\mat	0°47'47 26°10'58 0.59130 AU -4°56'24 4°55'57 18°26'58	minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37 3676 Jun 29 17:08 3676 Jul 13 17:24 3676 Jul 15 20:48 3676 Jul 27 15:58 3676 Aug 01 22:30 3676 Aug 07 04:49 3676 Aug 10 02:10 3676 Aug 10 01:14 3676 Aug 10 01:14 3676 Aug 10 00:35 3676 Aug 20 20:53 3676 Aug 30 00:35 3676 Sep 04 14:36 3676 Sep 04 14:36 3676 Sep 16 01:44 3676 Sep 22 14:29 3676 Sep 24 07:16 3676 Sep 30 16:51 3676 Oct 04 11:31 3676 Oct 09 02:05 3676 Oct 11 20:09	22° M09'42 0° 9 7° 911'22 0° 1 18° 133'13 20° 128'28 25° 136'27 24° 133'27 21° 12'56 25'07 19° 15'3'39 15° 12'51 19° 12'51 19° 12'51 19° 12'51 19° 12'51 19° 12'51 19° 12'51 19° 12'51 19° 12'51 10°	0°23'55 24°49'40 0.57170 AU -5°08'18 5°08'16 19°16'22 1°39'58 1°39'52
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	3675 Jun 27 10:29 3675 Jul 04 08:23 3675 Jul 08 01:15 3675 Jul 26 05:17 3675 Jul 29 23:46 3675 Aug 02 01:18 3675 Aug 16 00:42 3675 Aug 22 11:38 3675 Aug 26 14:06 3675 Aug 29 20:44 3675 Aug 30 00:38 3675 Sep 06 15:51 3675 Sep 09 02:03 3675 Sep 17 00:30 3675 Sep 18 17:34 3675 Oct 01 16:37 3675 Oct 03 01:47 3675 Oct 12 01:55 3675 Oct 12 05:23 3675 Oct 17 18:02 3675 Oct 23 21:35 3675 Oct 25 23:06 3675 Nov 05 06:55	7°\$17'49 22°\$21'29 0°\$\mathbb{\alpha}\$ 0°\$\mathbb{\mathba{\mathbb{\mathba\\\\an\and\mtx\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0°47'47 26°10'58 0.59130 AU -4°56'24 4°55'57 18°26'58 1°26'33 1°26'13 1.40324 AU	minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37 3676 Jun 29 17:08 3676 Jul 13 17:24 3676 Jul 15 20:48 3676 Jul 27 15:58 3676 Aug 01 22:30 3676 Aug 07 04:49 3676 Aug 10 02:10 3676 Aug 10 01:14 3676 Aug 18 06:30 3676 Aug 20 20:53 3676 Aug 30 00:35 3676 Sep 04 14:36 3676 Sep 04 14:36 3676 Sep 16 01:44 3676 Sep 22 14:29 3676 Sep 24 07:16 3676 Sep 30 16:51 3676 Oct 04 11:31 3676 Oct 09 02:05 3676 Oct 11 20:09 3676 Oct 29 04:38	22° M09'42 0° 9 7° 911'22 0° 1 18° 133'13 20° 128'28 25° 136'27 24° 133'27 21° 145'56 19° 152'07 19° 153'39 15° 144'25 15° 125'17 19° 142'42 26° 126'15 0° 10 3° 10'38 3° 19'34 15° 23'28 22° 108'26 0° 11 4° 1130'41 0° 7	0°23'55 24°49'40 0.57170 AU -5°08'18 5°08'16 19°16'22 1°39'58 1°39'52 1.38239 AU
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong morning set	3675 Jun 27 10:29 3675 Jul 04 08:23 3675 Jul 08 01:15 3675 Jul 26 05:17 3675 Jul 29 23:46 3675 Aug 02 01:18 3675 Aug 16 00:42 3675 Aug 22 11:38 3675 Aug 26 14:06 3675 Aug 29 20:44 3675 Aug 30 00:38 3675 Sep 06 15:51 3675 Sep 09 02:03 3675 Sep 17 00:30 3675 Sep 18 17:34 3675 Oct 01 16:37 3675 Oct 02 01:47 3675 Oct 12 01:55 3675 Oct 12 05:23 3675 Oct 17 18:02 3675 Oct 23 21:35 3675 Oct 25 23:06 3675 Nov 05 06:55 3675 Nov 27 13:48	7°©17'49 22°©21'29 0° \mathbb{\Omega} 0° \mathbb{\Omega} 4° \mathbb{\Omega} 29'44 7° \mathbb{\Omega} 38'55 14° \mathbb{\Omega} 48'27 13° \mathbb{\Omega} 06'47 10° \mathbb{\Omega} 31'32 8° \mathbb{\Omega} 33'47 3° \mathbb{\Omega} 33'47 3° \mathbb{\Omega} 33'47 3° \mathbb{\Omega} 50'59 0° \mathbb{\Omega} 2° \mathbb{\Omega} 38'53 19° \mathbb{\Omega} 45'56 20° \mathbb{\Omega} 01'59 0° \mathbb{\Omega} 3° \mathbb{\Omega} 06'25 10° \mathbb{\Omega} 30'08 13° \mathbb{\Omega} 53'49 0° \mathbb{\sigma} 29° \mathbb{\sigma} 05'31	0°47'47 26°10'58 0.59130 AU -4°56'24 4°55'57 18°26'58	minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37 3676 Jun 29 17:08 3676 Jul 13 17:24 3676 Jul 15 20:48 3676 Jul 27 15:58 3676 Aug 01 22:30 3676 Aug 07 04:49 3676 Aug 10 02:10 3676 Aug 10 01:14 3676 Aug 18 06:30 3676 Aug 20 20:53 3676 Aug 30 00:35 3676 Sep 04 14:36 3676 Sep 04 14:36 3676 Sep 16 01:44 3676 Sep 22 14:29 3676 Sep 24 05:26 3676 Sep 24 07:16 3676 Sep 30 16:51 3676 Oct 04 11:31 3676 Oct 09 02:05 3676 Oct 11 20:09 3676 Oct 29 04:38 3676 Nov 09 02:27	22° M09'42 0° 9 7° 911'22 0° 1 18° 133'13 20° 128'28 25° 136'27 24° 133'27 21° 145'56 19° 152'07 19° 153'39 15° 144'25 15° 126'11 19° 142'42 26° 126'15 0° 10 16° 1059'12 0° 12 3° 10'38 3° 19'34 15° 23'28 22° 108'26 0° 11 4° 1130'41 0° 7 12° 746'18	0°23'55 24°49'40 0.57170 AU -5°08'18 5°08'16 19°16'22 1°39'58 1°39'52
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	3675 Jun 27 10:29 3675 Jul 04 08:23 3675 Jul 08 01:15 3675 Jul 26 05:17 3675 Jul 29 23:46 3675 Aug 02 01:18 3675 Aug 16 00:42 3675 Aug 22 11:38 3675 Aug 26 14:06 3675 Aug 29 20:44 3675 Aug 30 00:38 3675 Sep 06 15:51 3675 Sep 09 02:03 3675 Sep 17 00:30 3675 Sep 18 17:34 3675 Oct 01 16:37 3675 Oct 03 01:47 3675 Oct 12 05:23 3675 Oct 12 05:23 3675 Oct 19 12:48 3675 Oct 23 21:35 3675 Oct 25 23:06 3675 Nov 05 06:55 3675 Nov 28 12:10	7°©17'49 22°©21'29 0° Ω 0° m 4° m29'44 7° m38'55 14° m48'27 13° m06'47 10° m31'32 8° m03'15 7° m55'51 3° m33'47 3° m13'43 7° m03'00 8° m50'59 0° Ω 2° Ω38'53 19° Ω45'56 20° Ω01'59 0° M 3° M06'25 10° M30'08 13° M53'49 0° 🗷 29° 🗷 05'31 0° ጜ	0°47'47 26°10'58 0.59130 AU -4°56'24 4°55'57 18°26'58 1°26'33 1°26'13 1.40324 AU	minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37 3676 Jun 29 17:08 3676 Jul 13 17:24 3676 Jul 15 20:48 3676 Jul 27 15:58 3676 Aug 01 22:30 3676 Aug 07 04:49 3676 Aug 10 02:10 3676 Aug 10 01:14 3676 Aug 18 06:30 3676 Aug 20 20:53 3676 Aug 30 00:35 3676 Sep 04 14:36 3676 Sep 04 14:36 3676 Sep 16 01:44 3676 Sep 16 01:44 3676 Sep 22 14:29 3676 Sep 24 05:26 3676 Sep 24 07:16 3676 Sep 30 16:51 3676 Oct 04 11:31 3676 Oct 09 02:05 3676 Oct 11 20:09 3676 Oct 29 04:38 3676 Nov 09 02:27 3676 Nov 20 20:05	22° M09'42 0° 9 7° 911'22 0° 1 18° A33'13 20° A28'28 25° A36'27 24° A33'27 21° A45'56 19° A52'07 19° A53'39 15° A44'25 15° A25'17 19° A42'42 26° A26'15 0° m 16° m59'12 0° \$\Oldsymbol{\Old	0°23'55 24°49'40 0.57170 AU -5°08'18 5°08'16 19°16'22 1°39'58 1°39'52 1.38239 AU
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3675 Jun 27 10:29 3675 Jul 04 08:23 3675 Jul 08 01:15 3675 Jul 26 05:17 3675 Jul 29 23:46 3675 Aug 02 01:18 3675 Aug 16 00:42 3675 Aug 22 11:38 3675 Aug 26 14:06 3675 Aug 29 20:44 3675 Aug 30 00:38 3675 Sep 06 15:51 3675 Sep 09 02:03 3675 Sep 17 00:30 3675 Sep 18 17:34 3675 Oct 01 16:37 3675 Oct 03 01:47 3675 Oct 12 01:55 3675 Oct 12 05:23 3675 Oct 17 18:02 3675 Oct 19 12:48 3675 Oct 23 21:35 3675 Oct 25 23:06 3675 Nov 05 06:55 3675 Nov 27 13:48 3675 Nov 28 12:10 3675 Dec 08 06:38	7°©17'49 22°©21'29 0° Ω 0° m 4° m 29'44 7° m 38'55 14° m 48'27 13° m 06'47 10° m 31'32 8° m 03'15 7° m 55'51 3° m 33'47 3° m 13'43 7° m 03'00 8° m 50'59 0° Ω 2° Ω 38'53 19° Ω 45'56 20° Ω 01'59 0° M 3° M 06'25 10° M 30'08 13° M 53'49 0° 🗷 29° 🗷 05'31 0° ጜ 5° ጜ 24'50	0°47'47 26°10'58 0.59130 AU -4°56'24 4°55'57 18°26'58 1°26'33 1°26'13 1.40324 AU	minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37 3676 Jun 29 17:08 3676 Jul 13 17:24 3676 Jul 15 20:48 3676 Jul 27 15:58 3676 Aug 01 22:30 3676 Aug 07 04:49 3676 Aug 10 02:10 3676 Aug 10 01:14 3676 Aug 10 01:14 3676 Aug 20 20:53 3676 Aug 30 00:35 3676 Sep 04 14:36 3676 Sep 04 14:36 3676 Sep 16 01:44 3676 Sep 16 01:44 3676 Sep 22 14:29 3676 Sep 24 05:26 3676 Sep 24 07:16 3676 Sep 30 16:51 3676 Oct 04 11:31 3676 Oct 09 02:05 3676 Nov 09 02:27 3676 Nov 20 20:05 3676 Nov 26 11:35	22° M09'42 0° © 7° © 11'22 0° Ω 18° Ω33'13 20° Ω28'28 25° Ω36'27 24° Ω33'27 21° Ω45'56 19° Ω52'07 19° Ω53'39 15° Ω44'25 15° Ω25'17 19° Ω42'42 26° Ω26'15 0° M 16° M59'12 0° Ω 3° Ω 10'38 3° Ω 19'34 15° Ω23'28 22° Ω08'26 0° M 4° M30'41 0° 🗷 12° 🗷 46'18 19° 🗷 35'06 17° 🗷 13'36	0°23'55 24°49'40 0.57170 AU -5°08'18 5°08'16 19°16'22 1°39'58 1°39'52 1.38239 AU 24°55'34
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3675 Jun 27 10:29 3675 Jul 04 08:23 3675 Jul 08 01:15 3675 Jul 26 05:17 3675 Jul 29 23:46 3675 Aug 02 01:18 3675 Aug 16 00:42 3675 Aug 22 11:38 3675 Aug 26 14:06 3675 Aug 29 20:44 3675 Aug 30 00:38 3675 Sep 06 15:51 3675 Sep 09 02:03 3675 Sep 17 00:30 3675 Sep 18 17:34 3675 Oct 01 16:37 3675 Oct 01 16:37 3675 Oct 12 01:55 3675 Oct 12 05:23 3675 Oct 12 05:23 3675 Oct 17 18:02 3675 Oct 19 12:48 3675 Oct 23 21:35 3675 Nov 27 13:48 3675 Nov 27 13:48 3675 Dec 08 06:38 3675 Dec 08 06:38 3675 Dec 13 08:27	7°\$17'49 22°\$21'29 0°\$\mathbb{\alpha}\$ 0°\$\mathbb{\mathbb{\alpha}\$} 4°\$\mathbb{\mathba{\mathbb{\math}\mathbb{\mathbb{\mathba\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0°47'47 26°10'58 0.59130 AU -4°56'24 4°55'57 18°26'58 1°26'33 1°26'13 1.40324 AU	minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37 3676 Jun 29 17:08 3676 Jul 13 17:24 3676 Jul 15 20:48 3676 Jul 27 15:58 3676 Aug 01 22:30 3676 Aug 07 04:49 3676 Aug 10 02:10 3676 Aug 10 01:14 3676 Aug 10 01:14 3676 Aug 20 20:53 3676 Aug 30 00:35 3676 Sep 04 14:36 3676 Sep 04 14:36 3676 Sep 16 01:44 3676 Sep 16 01:44 3676 Sep 22 14:29 3676 Sep 24 05:26 3676 Sep 24 07:16 3676 Sep 30 16:51 3676 Oct 04 11:31 3676 Oct 09 02:05 3676 Nov 09 02:27 3676 Nov 20 20:05 3676 Nov 26 11:35 3676 Dec 01 00:41	22° M09'42 0° © 7° © 11'22 0° Ω 18° Ω33'13 20° Ω28'28 25° Ω36'27 24° Ω33'27 21° Ω45'56 19° Ω52'07 19° Ω53'39 15° Ω44'25 15° Ω25'17 19° Ω42'42 26° Ω26'15 0° M 16° M59'12 0° Ω 3° Ω 10'38 3° Ω 19'34 15° Ω23'28 22° Ω08'26 0° M 4° M30'41 0° 🗷 12° 🗷 46'18 19° 🗷 35'06 17° 🗷 13'36 12° 🗷 06'19	0°23'55 24°49'40 0.57170 AU -5°08'18 5°08'16 19°16'22 1°39'58 1°39'52 1.38239 AU
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3675 Jun 27 10:29 3675 Jul 04 08:23 3675 Jul 08 01:15 3675 Jul 26 05:17 3675 Jul 29 23:46 3675 Aug 02 01:18 3675 Aug 16 00:42 3675 Aug 22 11:38 3675 Aug 26 14:06 3675 Aug 29 20:44 3675 Aug 30 00:38 3675 Sep 06 15:51 3675 Sep 09 02:03 3675 Sep 17 00:30 3675 Sep 18 17:34 3675 Oct 01 16:37 3675 Oct 01 16:37 3675 Oct 12 05:23 3675 Oct 12 05:23 3675 Oct 12 05:23 3675 Oct 12 12:48 3675 Oct 25 23:06 3675 Nov 27 13:48 3675 Nov 28 12:10 3675 Dec 08 06:38 3675 Dec 13 08:27 3675 Dec 15 16:47	7°\$17'49 22°\$21'29 0°\$\mathbb{\alpha}\$ 0°\$\mathbb{\mathbb{\alpha}\$} 4°\$\mathbb{\mathba{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathba{\mathbb{\math}\mathbb{\mathbb{\mathba\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0°47'47 26°10'58 0.59130 AU -4°56'24 4°55'57 18°26'58 1°26'33 1°26'13 1.40324 AU	minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. asc. node	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37 3676 Jun 29 17:08 3676 Jul 13 17:24 3676 Jul 15 20:48 3676 Jul 27 15:58 3676 Aug 01 22:30 3676 Aug 07 04:49 3676 Aug 10 02:10 3676 Aug 10 01:14 3676 Aug 10 01:14 3676 Aug 20 20:53 3676 Aug 30 00:35 3676 Sep 04 14:36 3676 Sep 04 14:36 3676 Sep 16 01:44 3676 Sep 16 01:44 3676 Sep 22 14:29 3676 Sep 24 05:26 3676 Sep 24 07:16 3676 Sep 30 16:51 3676 Oct 04 11:31 3676 Oct 09 02:05 3676 Nov 09 02:27 3676 Nov 09 02:27 3676 Nov 20 20:05 3676 Dec 01 00:41 3676 Dec 01 00:41 3676 Dec 01 13:50	22° M09'42 0° © 7° © 11'22 0° Ω 18° Ω33'13 20° Ω28'28 25° Ω36'27 24° Ω33'27 21° Ω45'56 19° Ω52'07 19° Ω53'39 15° Ω44'25 15° Ω25'17 19° Ω42'42 26° Ω26'15 0° M 16° M 59'12 0° Ω 3° Ω 10'38 3° Ω 19'34 15° Ω 23'28 22° Ω 08'26 0° M 4° M 30'41 0° ズ 12° ズ 46'18 19° ズ 35'06 17° ズ 13'36 12° ズ 06'19 11° ズ 23'05	0°23'55 24°49'40 0.57170 AU -5°08'18 5°08'16 19°16'22 1°39'58 1°39'52 1.38239 AU 24°55'34 0.67465 AU
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3675 Jun 27 10:29 3675 Jul 04 08:23 3675 Jul 08 01:15 3675 Jul 26 05:17 3675 Jul 29 23:46 3675 Aug 02 01:18 3675 Aug 16 00:42 3675 Aug 22 11:38 3675 Aug 26 14:06 3675 Aug 29 20:44 3675 Aug 30 00:38 3675 Sep 06 15:51 3675 Sep 09 02:03 3675 Sep 17 00:30 3675 Sep 18 17:34 3675 Oct 01 16:37 3675 Oct 01 16:37 3675 Oct 12 01:55 3675 Oct 12 05:23 3675 Oct 12 05:23 3675 Oct 17 18:02 3675 Oct 19 12:48 3675 Oct 23 21:35 3675 Nov 27 13:48 3675 Nov 27 13:48 3675 Dec 08 06:38 3675 Dec 08 06:38 3675 Dec 13 08:27	7°\$17'49 22°\$21'29 0°\$\mathbb{\alpha}\$ 0°\$\mathbb{\mathbb{\alpha}\$} 4°\$\mathbb{\mathba{\mathbb{\math}\mathbb{\mathbb{\mathba\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0°47'47 26°10'58 0.59130 AU -4°56'24 4°55'57 18°26'58 1°26'33 1°26'13 1.40324 AU	minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	3676 Jun 10 21:54 3676 Jun 14 11:45 3676 Jun 17 19:37 3676 Jun 29 17:08 3676 Jul 13 17:24 3676 Jul 15 20:48 3676 Jul 27 15:58 3676 Aug 01 22:30 3676 Aug 07 04:49 3676 Aug 10 02:10 3676 Aug 10 01:14 3676 Aug 10 01:14 3676 Aug 20 20:53 3676 Aug 30 00:35 3676 Sep 04 14:36 3676 Sep 04 14:36 3676 Sep 16 01:44 3676 Sep 16 01:44 3676 Sep 22 14:29 3676 Sep 24 05:26 3676 Sep 24 07:16 3676 Sep 30 16:51 3676 Oct 04 11:31 3676 Oct 09 02:05 3676 Nov 09 02:27 3676 Nov 20 20:05 3676 Nov 26 11:35 3676 Dec 01 00:41	22° M09'42 0° © 7° © 11'22 0° Ω 18° Ω33'13 20° Ω28'28 25° Ω36'27 24° Ω33'27 21° Ω45'56 19° Ω52'07 19° Ω53'39 15° Ω44'25 15° Ω25'17 19° Ω42'42 26° Ω26'15 0° M 16° M59'12 0° Ω 3° Ω 10'38 3° Ω 19'34 15° Ω23'28 22° Ω08'26 0° M 4° M30'41 0° 🗷 12° 🗷 46'18 19° 🗷 35'06 17° 🗷 13'36 12° 🗷 06'19	0°23'55 24°49'40 0.57170 AU -5°08'18 5°08'16 19°16'22 1°39'58 1°39'52 1.38239 AU 24°55'34 0.67465 AU

minimum elong	3676 Dec 01 23:56	10° √ 49'42	0°08'45		3677 Oct 01 23:35	0° M	
transit middle	3676 Dec 01 23:56	10°× 49'42	0°08'45	evening max el	3677 Oct 22 14:54	26°M28'34	26°04'09
transit begin	3676 Dec 01 21:37	10° × 47'42'	0 00 43	evening max er	3677 Oct 26 16:06	0°×7	20 040)
transit end	3676 Dec 02 02:16	10° × 37 23		retrograde	3677 Nov 04 04:30	3° × ⁷ 36'01	
morning rise	3676 Dec 07 12:27	4° × ⁷ 49'19		evening set	3677 Nov 10 09:51	1°×702'02	
direct	3676 Dec 11 02:35	3° ∡ ³35'05		evening sec	3677 Nov 11 13:08	30°RM	
morning max el	3676 Dec 18 12:26	7° √ 46'39	19°46'06	min. Earth dist.	3677 Nov 14 15:44	26°M30'08	0.66700 AU
greatest brilliancy	3676 Dec 31 18:36	25° × 15'44	-0.7m	inferior conj	3677 Nov 16 02:19	24°M42'32	
greatest similaries	3677 Jan 03 22:42	0°る	0.7111	minimum elong	3677 Nov 16 03:36	24°M38'30	
desc. node	3677 Jan 07 19:25	5° る 51'28		asc. node	3677 Nov 18 10:53	21°M53'34	0 1751
morning set	3677 Jan 13 06:30	14°る14'30		morning rise	3677 Nov 21 21:47	18°M51'59	
morning sec	3677 Jan 23 08:46	0°≈		direct	3677 Nov 25 01:12	17°M55'29	
max. Earth dist.	3677 Jan 25 01:58	2° ≈ 43'17	1.44270 AU	morning max el	3677 Dec 01 20:50	21°M41'44	18°52'14
mar. Barur dist.	2077 0411 20 01.00	2	12,0110	morning man er	3677 Dec 08 12:51	0°×7'	10 02 11
superior conj	3677 Jan 29 20:19	10° ≈ 21'27	-1°57'47	morning set	3677 Dec 23 16:48	23° х 14'22	
minimum elong	3677 Jan 29 14:17	9° ≈ 57'03		desc. node	3677 Dec 25 16:27	26° ₹ '21'16	
g	3677 Feb 10 17:05	0° ∀	10,2,	acse. node	3677 Dec 28 00:14	0°る	
evening rise	3677 Feb 12 08:53	2°) (48'42		max. Earth dist.	3678 Jan 07 18:55	16° る 53'58	1.45103 AU
asc. node	3677 Feb 27 13:07	27°) 15'29		man zarm ust.	3070 0411 07 10.00	10 00000	1.10103110
ase. noue	3677 Mar 01 18:58	0°Υ		superior conj	3678 Jan 09 04:39	19° る 06'38	-1°28'51
evening max el	3677 Mar 02 17:52	1°Υ00'35	18°15'02	minimum elong	3678 Jan 08 19:27	18° る 30'26	
retrograde	3677 Mar 09 04:12	4°Υ26'30	10 10 02	mmmum trong	3678 Jan 16 01:52	0°≈	1 2/0.
evening set	3677 Mar 12 02:43	3°Υ40'55		evening rise	3678 Jan 24 10:52	13°≈26'40	
e vennig see	3677 Mar 16 15:09	30° ₹		evening rise	3678 Feb 03 17:25	0° ∀	
inferior conj	3677 Mar 18 03:43	28° \ 21'01	3°36'57	evening max el	3678 Feb 14 05:24	14° ¥ 26′50	18°41'18
minimum elong	3677 Mar 18 04:10	28°) 19'47	3°36'57	asc. node	3678 Feb 14 10:10	14°) (38'50	
min. Earth dist.	3677 Mar 20 16:55	25°) 32'21	0.63414 AU	retrograde	3678 Feb 20 20:40	18°) €07'53	
morning rise	3677 Mar 24 04:39	22°) 14'49		evening set	3678 Feb 24 01:18	17° ₩ 09'56	
direct	3677 Mar 31 02:13	19°) 32'09		inferior conj	3678 Mar 01 18:22	11°) 32'04	3°34'08
desc. node	3677 Apr 05 18:34	21° ₩ 05'55		minimum elong	3678 Mar 01 17:18	11°) 35'18	3°34'04
morning max el	3677 Apr 13 22:47	27°) 29'56	27°43'31	min. Earth dist.	3678 Mar 03 15:52	9°) 14'03	0.65136 AU
	3677 Apr 16 07:48	0°Υ		morning rise	3678 Mar 07 08:52	5°) €20'47	
	3677 May 07 08:42	0°8		direct	3678 Mar 14 01:12	2° ¥ 29'56	
morning set	3677 May 18 12:10	20° 8 38'26		desc. node	3678 Mar 23 15:37	6°) 54'01	
	3677 May 23 01:36	0°II		morning max el	3678 Mar 27 08:30	10°) (17'57	27°03'53
max. Earth dist.	3677 May 23 16:55	1° Ⅱ 20'42	1.32879 AU		3678 Apr 11 21:30	o°Υ	
	,				3678 Apr 29 19:43	0°8	
superior conj	3677 May 26 06:35	6° Ⅱ 49'49	-0°02'34	morning set	3678 May 02 00:21	4° 8 10'21	
minimum elong	3677 May 26 06:42	6° Ⅱ 50′29	0°02'32	max. Earth dist.	3678 May 06 12:12	13° 8 04'19	1.33962 AU
behind sun begin	3677 May 26 01:28	6° Ⅱ 22'18					
behind sun end	3677 May 26 11:57	7° Ⅱ 18'43		superior conj	3678 May 10 09:06	21° 8 03'54	-0°31'02
asc. node	3677 May 26 12:24	7° Ⅱ 21'10		minimum elong	3678 May 10 10:43	21° 8 12'22	
evening rise	3677 Jun 02 07:27	21° Ц 59'16		asc. node	3678 May 13 09:27	27° 8 25'56	
Ü	3677 Jun 06 04:33	0°ಅ			3678 May 14 14:29	0°Ⅲ	
evening max el	3677 Jun 25 06:37	29° © 00'41	23°14'00	evening rise	3678 May 17 17:57	6° Ⅱ 38′23	
Ü	3677 Jun 26 08:00	$0^{\circ}\Omega$		S	3678 May 30 08:58	0°€	
desc. node	3677 Jul 02 17:48	4° Ω 22'26		evening max el	3678 Jun 07 00:24	9° © 32'09	21°39'35
retrograde	3677 Jul 08 18:25	5° Ω 45'01		retrograde	3678 Jun 19 09:49	15° © 38'45	
evening set	3677 Jul 12 12:42	5° Ω 14'04		desc. node	3678 Jun 19 14:48	15° © 38'39	
min. Earth dist.	3677 Jul 19 16:07	1° Ω 59'27	0.55654 AU	evening set	3678 Jun 21 22:23	15° © 24'21	
inferior conj	3677 Jul 21 11:49	0° Ω 55'29		inferior conj	3678 Jul 01 07:32	11°522'56	-3°16'34
minimum elong	3677 Jul 21 05:07	1° Ω 05′20	4°36'15	minimum elong	3678 Jun 30 23:21	11° © 34'21	3°14'05
Č	3677 Jul 23 02:04	30° ℝ		min. Earth dist.	3678 Jul 01 02:52	11° 5 29'27	0.54889 AU
morning rise	3677 Jul 29 23:54	27° © 02'27		morning rise	3678 Jul 10 01:27	7° 5 29'38	
direct	3677 Aug 01 20:57	26°5542'29		direct	3678 Jul 13 08:00	7°906'15	
	3677 Aug 10 13:57	0°N		morning max el	3678 Jul 25 14:29	12° © 52'32	21°57'34
morning max el	3677 Aug 12 13:20	1° Ω 40'00	20°27'20		3678 Aug 07 06:15	$0^{\circ}\Omega$	
asc. node	3677 Aug 22 11:39	14° Ω 48'52		asc. node	3678 Aug 09 08:42	3° Ω 47'35	
	3677 Aug 30 12:38	0°m)		morning set	3678 Aug 15 17:17	16° Ω 26'03	
morning set	3677 Aug 31 07:39	1° m/36'56			3678 Aug 22 03:14	0° m)	
0		.,,				· '*	
superior conj	3677 Sep 07 21:31	17° m) 12'35	1°44'32	superior conj	3678 Aug 22 22:23	1° Mp 40'53	1°41'45
minimum elong	3677 Sep 07 21:31 3677 Sep 07 21:42	17° mg 12'33'		minimum elong	3678 Aug 22 21:14	1° Mp 34'50	1°41'42
max. Earth dist.	3677 Sep 12 23:37	27° mp 18'04		max. Earth dist.	3678 Aug 26 13:51	9° mp 13'52	1.34635 AU
	3677 Sep 12 23:37 3677 Sep 14 09:25	ە <u>، 1</u> 00 م 0°	1.50200710	evening rise	3678 Aug 31 01:41	18° Mp 08'56	1.0 .000 /10
evening rise	3677 Sep 16 22:20	ა _ 4° Ω 45'05		3.0	3678 Sep 06 11:39	0ಂ ರ	
desc. node	3677 Sep 28 17:10	24° £ 55'29		desc. node	3678 Sep 15 14:09	15° ≏ 02'23	
					55.5 20p 10 11.09		

	3678 Sep 26 04:44	0°M		desc. node	3679 Sep 02 11:08	4° £ 42'53	
evening max el	3678 Oct 05 03:30	10°M05'13	26°55'49	evening max el	3679 Sep 17 15:08	23° ₽ 24'33	27°23'33
retrograde	3678 Oct 18 07:28	17°M21'31			3679 Sep 27 07:20	0° M ₊	
evening set	3678 Oct 25 01:11	14°M40'16	0.65507.411	retrograde	3679 Oct 01 04:32	0°M42'36	
min. Earth dist.	3678 Oct 29 00:17 3678 Oct 30 22:46	10°M44'28 8°M30'32	0.65587 AU -1°48'38	evening set	3679 Oct 04 21:03 3679 Oct 08 06:55	30°R ≏ 28° ≏ 02'31	
minimum elong	3678 Oct 30 22:40 3678 Oct 31 01:47	8°M21'49		min. Earth dist.	3679 Oct 12 00:14	26° ⊆ 02'31 24° ⊆ 41'07	0.64122 AU
asc. node	3678 Nov 05 07:55	3°M19'42	1 1, 20	inferior conj	3679 Oct 14 11:04	22° ₽ 07'02	
morning rise	3678 Nov 06 03:12	2°M52'11		minimum elong	3679 Oct 14 15:46	21° ≏ 54'42	2°47'51
direct	3678 Nov 08 22:04	2°M09'42		morning rise	3679 Oct 21 01:52	16° ≏ 44'00	
morning max el	3678 Nov 15 10:37	5°M41'00	18°14'42	asc. node	3679 Oct 23 04:57	16° ≙ 12'40	
	3678 Dec 02 01:14	0° ∡		direct	3679 Oct 23 14:33	16° ≙ 11'51	
morning set	3678 Dec 04 07:32	3° ∡ ′41′16		morning max el	3679 Oct 30 03:02	19° ≏ 37'21	17°54'11
desc. node	3678 Dec 12 13:29	17° ∡ 00'45			3679 Nov 06 20:18	0°M,	
:	2679 Dec 10 07:25	270.742124	0944157	morning set	3679 Nov 16 02:07	15°M29'05	
superior conj minimum elong	3678 Dec 19 07:25 3678 Dec 19 01:44	27° х 43′24 27° х 21′00	-0°44'56 0°44'11		3679 Nov 24 16:46	0° ∡ ¹	
minimum ciong	3678 Dec 20 18:07	27 メ ・21 00 0° る	0 44 11	superior conj	3679 Nov 29 01:13	7° ∡ ¹08'07	0°02'41
max. Earth dist.	3678 Dec 21 14:28	0 0 1° る 19'57	1.45198 AU	minimum elong	3679 Nov 29 01:13	7° ∡ '09'19	0°02'38
evening rise	3679 Jan 04 14:15	23° る 11'58	1.13170710	behind sun begin	3679 Nov 28 15:33	6° ∡ 728'51	0 02 30
<i>y</i>	3679 Jan 08 22:56	0° ≈		behind sun end	3679 Nov 29 11:28	7° ∡ ¹49'42	
greatest brilliancy	3679 Jan 16 07:43	11° ≈ 22'37	-0.7m	desc. node	3679 Nov 29 10:29	7° ∡ ¹45'45	
evening max el	3679 Jan 28 13:28	27° ≈ 57'03	19°24'38	max. Earth dist.	3679 Dec 04 08:54	15° ∡ ¹40'27	1.44556 AU
	3679 Jan 30 19:26	0° ∀			3679 Dec 13 12:43	8°0	
asc. node	3679 Feb 01 07:11	1° 米 01′22		evening rise	3679 Dec 15 01:58	2° る 23'31	
retrograde	3679 Feb 04 17:20	2° ∺ 03'51			3680 Jan 02 13:46	0° ≈	
evening set	3679 Feb 08 04:59	0°) 52'43		evening max el	3680 Jan 11 16:29	11° ≈ 28'34	20°23'10
	3679 Feb 09 08:02	30°R≈	2015124	asc. node	3680 Jan 19 04:13	16°≈08'10	
inferior conj	3679 Feb 13 16:59	24°≈59'04	3°17'24	retrograde	3680 Jan 19 15:29	16°≈09'23	
minimum elong min. Earth dist.	3679 Feb 13 14:56 3679 Feb 14 23:24	25°≈05'43 23°≈20'05	3°17'03 0.66450 AU	evening set	3680 Jan 23 11:36 3680 Jan 28 20:48	14°≈44'03 8°≈37'23	2°49'49
morning rise	3679 Feb 14 23:24 3679 Feb 19 00:38	23 ≈2003 18°≈45'31	0.00430 AU	inferior conj minimum elong	3680 Jan 28 18:20	8°≈45'48	2°49'10
direct	3679 Feb 25 06:22	15°≈59'27		min. Earth dist.	3680 Jan 29 13:38	7°≈40'10	0.67344 AU
morning max el	3679 Mar 09 18:12	23°≈25'08	25°57'57	morning rise	3680 Feb 03 00:51	2°≈23'36	0.07511110
desc. node	3679 Mar 10 12:40	24° ≈ 12'33		5 5	3680 Feb 07 08:40	30°Ŗる	
	3679 Mar 15 14:48	0° ∀		direct	3680 Feb 08 17:01	29° ප් 51'58	
	3679 Apr 05 05:58	0° Υ			3680 Feb 10 02:26	0° ≈	
morning set	3679 Apr 14 22:59	16° Y ′58'53		morning max el	3680 Feb 20 02:54	6° ≈ 41'12	24°35'26
max. Earth dist.	3679 Apr 18 20:12		1.35502 AU	desc. node	3680 Feb 25 09:43	12° ≈ 35'32	
	3679 Apr 21 17:59	0°8			3680 Mar 09 05:55	0° ∀	
	2670 4 24 04 02	40 4 5 110 4	0050157	morning set	3680 Mar 27 02:50	28°) 49'37	
superior conj	3679 Apr 24 04:03	4° 8 51'04		may Earth dist	3680 Mar 27 18:48	0°Υ 5°₩21101	1.37437 AU
minimum elong asc. node	3679 Apr 24 07:14 3679 Apr 30 06:29	5° 8 07'10	0-39 22	max. Earth dist.	3680 Mar 30 18:18	5° Y 21′01	1.3/43/ AU
evening rise	3679 May 02 01:08	21° 8 02'37		superior conj	3680 Apr 06 12:18	18° Ƴ 03'11	-1°27'20
evening rise	3679 May 06 12:42	0°II		minimum elong	3680 Apr 06 16:42	18° Y ′24'31	1°26'42
evening max el	3679 May 20 04:55	20° ∏ 34'50	20°18'16		3680 Apr 12 13:29	0°8	
retrograde	3679 May 30 23:26	25° Ⅱ 49'59		evening rise	3680 Apr 15 02:37	5° 8 05'09	
evening set	3679 Jun 01 23:06	25° Ⅱ 40′01		asc. node	3680 Apr 16 03:30	7° 8 08'39	
desc. node	3679 Jun 06 11:50	24° Ⅱ 11'39			3680 Apr 29 18:00	Π °0	
inferior conj	3679 Jun 11 02:18	21° ∏ 41'40		evening max el	3680 May 01 21:38	2° Ⅱ 19'34	19°15'44
minimum elong	3679 Jun 10 22:28	21° ∏ 47'18		retrograde	3680 May 10 23:29	6° Ⅱ 44'20	
min. Earth dist.	3679 Jun 12 15:08		0.55071 AU	evening set	3680 May 13 00:06	6° Ⅱ 32'06	0022150
morning rise	3679 Jun 19 20:35	17° ∏ 27'28		inferior conj	3680 May 21 10:14	2° П 22'57 2° П 20'37	
direct morning max el	3679 Jun 23 18:37 3679 Jul 07 07:15	16° Ⅲ 54'16 23° Ⅲ 29'44	23°30'30	minimum elong desc. node	3680 May 21 11:38 3680 May 23 08:52	2° Ц 20'37 1° Ц 05'04	0°33'20
morning max ci	3679 Jul 13 03:40	0°95	23 39 30	min. Earth dist.	3680 May 24 06:02	0° Ц 30'30	0.56182 AU
asc. node	3679 Jul 27 05:44	23° © 12'43		Zurur dist.	3680 May 25 01:19	30°R 8	3.50102710
	3679 Jul 30 13:30	0°Ω		morning rise	3680 May 29 20:05	27° 8 34'25	
morning set	3679 Jul 31 04:45	1° Ω 20′12		direct	3680 Jun 03 16:48	26° 8 39'54	
-					3680 Jun 13 03:27	0°П	
superior conj	3679 Aug 07 05:03	16° Ω 25'48	1°32'52	morning max el	3680 Jun 17 21:25	3° Ⅱ 54'15	25°19'50
minimum elong	3679 Aug 07 03:04		1°32'41		3680 Jul 06 11:29	0ං ව	
max. Earth dist.	3679 Aug 09 12:55	21° Ω 24'52	1.33377 AU	asc. node	3680 Jul 13 02:47	12°957'02	
	3679 Aug 13 15:57	0° Mp		morning set	3680 Jul 14 16:26	16°9514'14	
evening rise	3679 Aug 14 17:18	2° Mp 07'55			3680 Jul 21 00:40	$0^{\circ}\Omega$	
	3679 Aug 30 08:32	0∘ ⊽					

aumorior coni	2600 Iul 21 15:14	10 0 10/52	1010152	aumorior coni	2601 Iul 06 02:57	1696315150	1900/20
superior conj	3680 Jul 21 15:14	1° Ω 19'52	1°18'53	superior conj	3681 Jul 06 02:57	16°©15'50 16°©03'41	1°00'30
minimum elong max. Earth dist.	3680 Jul 21 12:54 3680 Jul 22 19:24	1° Ω 07'03 3° Ω 53'54	1°18'33 1.32540 AU	minimum elong max. Earth dist.	3681 Jul 06 00:45 3681 Jul 06 06:18	16°90341	1°00'06 1.32113 AU
evening rise	3680 Jul 28 17:45	3 ∂ €33 34 16° Ω 32'09	1.32340 AU	max. Earm dist.	3681 Jul 06 06:18 3681 Jul 12 10:29	10 \$34 19 0°Ω	1.32113 AU
evening rise	3680 Aug 04 14:36	0° Mp		evening rise	3681 Jul 12 10:29 3681 Jul 13 00:11	1°Ω12'15	
desc. node	3680 Aug 19 08:08	23° Mp 45'56		evening rise	3681 Jul 28 15:34	0° mp	
desc. node	3680 Aug 24 04:38	ე∘ ი		desc. node	3681 Aug 06 05:11	עוי ט 11° m y55'51	
evening max el	3680 Aug 29 23:58		27°21'23	evening max el	3681 Aug 12 03:31	18° M) 23'08	26°46'01
retrograde	3680 Sep 12 19:10	13° Ω 29'50	27 21 23	retrograde	3681 Aug 26 01:59	25° mp 34'11	20 4001
evening set	3680 Sep 19 23:36	13 — 29 30 11° — 02'45		evening set	3681 Sep 01 22:47	23° m 33'04	
min. Earth dist.	3680 Sep 23 14:07	8° <u>009'29</u>	0.62337 AU	min. Earth dist.	3681 Sep 05 17:33	20° m 55'55	0.60324 AU
inferior conj	3680 Sep 26 12:21	5° Ω 25'22		inferior conj	3681 Sep 08 23:15	18° Mp 16'51	
minimum elong	3680 Sep 26 18:08	5° Ω 11'49		minimum elong	3681 Sep 09 04:34	18° m 05'54	
morning rise	3680 Oct 03 14:20	0° £ 20'51	3 .000	morning rise	3681 Sep 16 12:19	13° m 33'42	. 55 10
	3680 Oct 04 23:46	30°R ™		direct	3681 Sep 18 21:15	13° Mp 12'21	
direct	3680 Oct 05 23:35	29° m 55'33		asc. node	3681 Sep 25 23:03	16° m 31'38	
	3680 Oct 06 23:14	0∘ ⊽		morning max el	3681 Sep 26 07:21	16° m 51'18	18°08'10
asc. node	3680 Oct 09 02:00	0° م 39'38		Č	3681 Oct 05 14:23	0∘ <u>⊽</u>	
morning max el	3680 Oct 12 19:00	3° ഫ 23'32	17°51'34	morning set	3681 Oct 12 02:51	11° ≏ 55'40	
morning set	3680 Oct 28 18:33	28° £ 19'37		, and the second			
S	3680 Oct 29 16:58	0°M		superior conj	3681 Oct 21 18:26	29° Ω 45'54	1°14'11
				minimum elong	3681 Oct 21 22:32	0°M04'17	1°13'43
superior conj	3680 Nov 08 20:56	17° M 49'16	0°43'50	C	3681 Oct 21 21:35	0° M .	
minimum elong	3680 Nov 09 00:40	18°M05'08	0°43'20	max. Earth dist.	3681 Oct 29 09:48	13°M03'21	1.41489 AU
desc. node	3680 Nov 15 07:28	28°M32'53		desc. node	3681 Nov 02 04:29	19°M19'23	
max. Earth dist.	3680 Nov 15 23:38	29°M38'44	1.43267 AU	evening rise	3681 Nov 03 14:50	21°M38'51	
	3680 Nov 16 04:53	0°⊀		-	3681 Nov 08 21:25	0°⊀	
evening rise	3680 Nov 23 12:56	11° ∡ ³39′23			3681 Nov 29 20:22	ರ°0	
	3680 Dec 05 15:51	5°0		evening max el	3681 Dec 07 06:46	8° る 36'43	22°51'41
evening max el	3680 Dec 24 13:59	25° る 01'08	21°33'42	retrograde	3681 Dec 17 08:07	14° る 34'43	
	3680 Dec 31 11:57	0° ≈		evening set	3681 Dec 22 02:27	12° る 37'51	
retrograde	3681 Jan 02 12:57	0° ≈ 20′30		asc. node	3681 Dec 22 22:18	11° る 53'04	
	3681 Jan 04 11:45	30°Rる		inferior conj	3681 Dec 27 11:23	6° る 15'04	1°29'44
asc. node	3681 Jan 05 01:16	29° る 46'09		minimum elong	3681 Dec 27 09:29	6° る 21'35	1°29'01
evening set	3681 Jan 06 19:17	28° る 39'51		min. Earth dist.	3681 Dec 27 04:50	6° る 37'40	0.67980 AU
inferior conj	3681 Jan 12 03:35	22° る 23'21	2°13'26	morning rise	3682 Jan 01 16:25	0° る 06'14	
minimum elong	3681 Jan 12 01:10	22° る 31'42	2°12'38		3682 Jan 01 19:30	30°₽ ✓	
min. Earth dist.	3681 Jan 12 08:14	22° る 07'11	0.67846 AU	direct	3682 Jan 06 03:16	28° ҂ 17'53	
morning rise	3681 Jan 17 06:52	16° る 11'07			3682 Jan 10 21:57	0°ಕ	
direct	3681 Jan 22 08:18	13° る 59'54		morning max el	3682 Jan 15 01:17	3° る 30'28	21°40'24
morning max el	3681 Feb 01 12:00	20° る 01'41	23°06'28	desc. node	3682 Jan 29 03:46	21° る 25'35	
	3681 Feb 09 23:11	0° ≈			3682 Feb 04 00:59	0° ≈	
desc. node	3681 Feb 11 06:44	1°≈44'01		morning set	3682 Feb 16 03:21	18° ≈ 37'20	
	3681 Mar 02 11:03	0° ∀		max. Earth dist.	3682 Feb 22 12:35	28°≈59'47	1.41718 AU
morning set	3681 Mar 08 05:34	9°) €24'50			3682 Feb 23 03:05	0°) €	
max. Earth dist.	3681 Mar 12 13:03	16°) 44′20	1.39600 AU		260214 02 02 20	1101/27111	2004147
	3681 Mar 19 23:24	0 ° γ		superior conj	3682 Mar 02 03:20	11° X 57'11	
superior conj	3681 Mar 20 05:42	0° Υ 28'58	1050/10	minimum elong	3682 Mar 02 05:47 3682 Mar 12 04:11	12°) 07′51 0° Υ	2°04'42
	3681 Mar 20 05:42 3681 Mar 20 10:13	0° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				0° γ 1° Υ 30'36	
minimum elong		18° Υ 37'09	1°49'54	evening rise asc. node	3682 Mar 12 23:55	1 1 30 30 15° Υ 40'52	
evening rise asc. node	3681 Mar 29 19:24 3681 Apr 03 00:33	26° Υ 36'32		evening max el	3682 Mar 20 21:36 3682 Mar 29 09:21	27° Υ 31'45	18°10'58
asc. Houe	3681 Apr 04 21:05	0° 8		evening max er	3682 Apr 01 14:39	0° 8	16 10 36
evening max el	3681 Apr 15 00:15		18°33'21	retrograde	3682 Apr 05 06:00	0° と 59'21	
retrograde	3681 Apr 22 17:31	18° 8 29'12	18 33 21	evening set	3682 Apr 07 19:25	0° 8 31'07	
evening set	3681 Apr 25 00:26	18° 8 10'18		evening set	3682 Apr 08 23:58	30°RΥ	
inferior conj	3681 May 02 14:41	13° 8 42'23	2°03'51	inferior conj	3682 Apr 14 16:06		3°01'24
minimum elong	3681 May 02 18:21	13° 8 35'14	2°02'47	minimum elong	3682 Apr 14 19:16	25° Y 34'59	3°00'47
min. Earth dist.	3681 May 06 00:23	11° 8 04'31	0.57985 AU	min. Earth dist.	3682 Apr 14 19:10 3682 Apr 18 00:21	22° Υ 41'23	0.60126 AU
morning rise	3681 May 10 09:06	8° 8 20'33		morning rise	3682 Apr 21 16:48	19° Υ 55'53	
desc. node	3681 May 10 05:55	8° 8 24'27		desc. node	3682 Apr 27 02:58	17° Υ 57'32	
direct	3681 May 16 05:18	6° 8 53'51		direct	3682 Apr 28 06:03	17° Υ 53'58	
morning max el	3681 May 30 14:24		26°42'57	morning max el	3682 May 12 13:32	25° Y 45'47	27°35'43
<i>5</i>	3681 Jun 11 23:37	0°II		<i>5</i>	3682 May 16 12:02	0°8	
	3681 Jun 28 14:50	0°50			3682 Jun 05 09:50	0°II	
morning set	3681 Jun 29 02:41	1° © 02'12		morning set	3682 Jun 13 09:47	15° Ⅲ 38'41	
asc. node	3681 Jun 29 23:49	2° © 53'59		asc. node	3682 Jun 16 20:52	22° Ⅱ 58'51	

3683 May 28 11:41

morning set

29°857'18

3684 Mar 16 15:46

morning rise

15°**)**€06'26

direct	3684 Mar 23 11:45	12° ¥ 18'35			3685 Feb 26 09:26	30°R≈	
desc. node	3684 Mar 30 21:02	14°) 56'27		morning rise	3685 Feb 28 01:21	28° ≈ 21'52	
morning max el	3684 Apr 06 03:47	20°) 14'28	27°30'29	direct	3685 Mar 06 13:45	25°≈31'16	
	3684 Apr 14 12:58	0°Υ	_, _, _,		3685 Mar 16 02:36	0° ∀	
	3684 May 03 21:12	0°8		desc. node	3685 Mar 17 18:03	1°) €26'48	
morning set	3684 May 11 05:47	13° 8 49'01		morning max el	3685 Mar 19 13:40	3°) 12′16	26°38'26
max. Earth dist.	3684 May 16 03:28	23° 8 45'31	1.33275 AU	C	3685 Apr 08 20:10	$_0$ ° γ	
	,	_		morning set	3685 Apr 24 12:44	27° Ƴ 04'18	
superior conj	3684 May 19 05:38	0° Ⅱ 16′23	-0°14'29	C	3685 Apr 26 01:29	0°8	
minimum elong	3684 May 19 06:22	0° Ⅱ 20′17	0°14'20	max. Earth dist.	3685 Apr 28 17:42	5° 8 14'22	1.34558 AU
behind sun begin	3684 May 19 03:58	0° Ⅱ 07′29			•		
behind sun end	3684 May 19 08:46	0° Д 33'06		superior conj	3685 May 03 05:16	14° 8 20'06	-0°43'21
	3684 May 19 02:34	$\Pi^{\circ}0$		minimum elong	3685 May 03 07:33	14° 8 31'55	0°42'53
asc. node	3684 May 20 14:57	3° Ⅱ 14′25		asc. node	3685 May 07 11:59	23° 8 16'35	
evening rise	3684 May 26 09:27	15° Ⅱ 35′23		evening rise	3685 May 10 18:47	0°Ⅱ08'46	
	3684 Jun 02 14:40	0 \circ \odot			3685 May 10 17:05	$\Pi^{\circ}0$	
evening max el	3684 Jun 17 03:40	20°5947'21	22°32'55		3685 May 28 14:46	0 \circ \odot	
desc. node	3684 Jun 26 20:16	26°951'47		evening max el	3685 May 30 01:37	1° 5 29'59	21°03'00
retrograde	3684 Jun 30 06:41	27° © 18'54		retrograde	3685 Jun 10 19:40	7° © 15'13	
evening set	3684 Jul 03 10:26	26° © 56'58		evening set	3685 Jun 13 00:22	7° © 03'55	
min. Earth dist.	3684 Jul 11 11:08	23° © 26'51	0.55213 AU	desc. node	3685 Jun 13 17:16	6° © 55'42	
inferior conj	3684 Jul 12 15:30	22°5946'30	-4°08'58	inferior conj	3685 Jun 22 08:56	3° 5 06'10	-2°30'09
minimum elong	3684 Jul 12 07:23	22° © 58'04	4°07'05	minimum elong	3685 Jun 22 02:06	3° © 15'49	2°27'48
morning rise	3684 Jul 21 06:27	18° © 55'46		min. Earth dist.	3685 Jun 22 22:42	2° © 46'45	0.54846 AU
direct	3684 Jul 24 06:43	18° © 35'02			3685 Jun 28 10:21	30°RⅡ	
morning max el	3684 Aug 04 16:07	23° © 52'50	21°03'41	morning rise	3685 Jul 01 03:52	29° Ⅱ 05'56	
	3684 Aug 10 01:40	$0^{\circ}\Omega$		direct	3685 Jul 04 16:07	28° ∏ 39′20	
asc. node	3684 Aug 16 14:11	10° Ω 09'54			3685 Jul 10 15:30	0 \circ \odot	
morning set	3684 Aug 24 08:40	25° Ω 15'19		morning max el	3685 Jul 17 13:02	4° © 47'55	22°40'06
	3684 Aug 26 15:24	0° m		asc. node	3685 Aug 03 11:13	29° © 20'30	
					3685 Aug 03 19:26	$0^{\circ}\Omega$	
superior conj	3684 Aug 31 18:18	10° m 40'39	1°44'09	morning set	3685 Aug 08 19:17	10° Ω 06′38	
minimum elong	3684 Aug 31 17:51	10°M 38'22	1°44'09				
max. Earth dist.	3684 Sep 05 05:23	19° m 42'06	1.35537 AU	superior conj	3685 Aug 15 21:56	25° Ω 16′37	1°38'39
evening rise	3684 Sep 09 09:02	27° Mp 42'51		minimum elong	3685 Aug 15 20:22	25° Ω 08'17	1°38'33
	3684 Sep 10 14:27	0∘ ⊽			3685 Aug 18 03:37	0° m/y	
desc. node	3684 Sep 22 19:34	20° ჲ 51'39		max. Earth dist.	3685 Aug 18 23:12	1° Mp 42'04	1.34051 AU
	3684 Sep 28 21:26	0° M		evening rise	3685 Aug 23 18:05	11° m 22'57	
evening max el	3684 Oct 14 20:54	19°M37'19	26°28'34		3685 Sep 02 22:47	0。 ⊽	
retrograde	3684 Oct 27 17:35	26°M50'30		desc. node	3685 Sep 09 16:35	10° ≏ 48'15	
evening set	3684 Nov 03 04:24	24° M 12'27			3685 Sep 24 07:29	0° M ₊	
min. Earth dist.	3684 Nov 07 07:15	19°M55'52	0.66268 AU	evening max el	3685 Sep 27 09:23	3° ™ 08′24	27°11'01
inferior conj	3684 Nov 08 22:51	17°M56'13		retrograde	3685 Oct 10 18:11	10°M26'13	
minimum elong	3684 Nov 09 00:52	17° M 50'09	1°12'54	evening set	3685 Oct 17 16:01	7° M 44'33	
asc. node	3684 Nov 12 13:24	13°M56'50		min. Earth dist.	3685 Oct 21 12:33	4°M03'28	0.65002 AU
morning rise	3684 Nov 14 21:57	12°M10'30		inferior conj	3685 Oct 23 16:11	1°M40'09	
direct	3684 Nov 17 21:20	11°M20'37		minimum elong	3685 Oct 23 19:56	1°M29'41	2°13'07
morning max el	3684 Nov 24 13:17	14° M 59'41	18°34'09		3685 Oct 25 04:57	30° ₹ Ω	
	3684 Dec 05 14:32	0° ⊼		morning rise	3685 Oct 30 00:51	26° Ω 07'38	
morning set	3684 Dec 14 23:41	14° ₹ 50'18		asc. node	3685 Oct 30 10:27	25° Ω 57'16	
desc. node	3684 Dec 19 18:51	22° ₹ 27'30		direct	3685 Nov 01 16:45	25° Ω 30'00	10002111
	3684 Dec 24 13:28	0°ප		morning max el	3685 Nov 08 04:28	28° ♀ 58'02	18°03'44
	260475 20 22 22	100-70400	1011107		3685 Nov 09 03:59	0°M	
superior conj	3684 Dec 30 23:22	10°る04'28		morning set	3685 Nov 26 02:53	25°M53'37	
minimum elong	3684 Dec 30 14:56	9° る 31'22		1 1	3685 Nov 28 14:23	0°×7	
max. Earth dist.	3684 Dec 31 03:41	10°る21'21 0°≈	1.45231 AU	desc. node	3685 Dec 06 15:51	13° ∡ ′09'27	
ovenina rica	3685 Jan 12 15:10 3685 Jan 15 19:13	0°≈ 5°≈01'48		gunorier con:	3685 Dec 10 06:19	18° √ 55'33	0024120
evening rise		5°≈01′48 19°≈03′31	-0.8m	superior conj			
greatest brilliancy	3685 Jan 24 15:11	19°≈03'31 0°)	-0.0111	minimum elong max. Earth dist.	3685 Dec 10 03:16 3685 Dec 13 22:54	18° ₹ 43'24 24° ₹ 46'16	0°24'03 1.45013 AU
evening may al	3685 Jan 31 20:18 3685 Feb 06 20:18	0° X 7° X 31'27	18°57'48	max. Earm dist.	3685 Dec 13 22:54 3685 Dec 17 06:50	24° メ' 46'16	1.45015 AU
evening max el asc. node	3685 Feb 06 20:18 3685 Feb 08 12:42	9° H 05'20	10 3/40	avaning rise	3685 Dec 17 06:50 3685 Dec 26 14:28	14°る28'45	
retrograde	3685 Feb 13 16:13	11° X 03'20		evening rise	3686 Jan 05 17:09	0°≈	
evening set	3685 Feb 16 23:35	10° H 19'11		greatest brilliancy	3686 Jan 09 04:19	0 ≈ 5°≈12'45	-0.7m
inferior conj	3685 Feb 22 14:13	4° H 34'32	3°28'32	evening max el	3686 Jan 21 02:27	21°≈02'43	-0.7m 19°47'56
minimum elong	3685 Feb 22 12:40			asc. node	3686 Jan 26 09:44	21 ≈02 43 24°≈57'28	17 41 20
min. Earth dist.	3685 Feb 24 05:16		0.65745 AU	retrograde	3686 Jan 28 13:40	24 ≈37 28 25°≈22'47	
anna again dist.	JUUJ 1 CU 4T UJ.10	2 N3201	0.00/70 AU	renograde	2000 Jun 20 12.40	25 ~~22 4/	

evening set	3686 Feb 01 04:46	24° ≈ 05'46		minimum elong	3687 Jan 21 18:11	1° ≈ 56'55	2°34'35
inferior conj	3686 Feb 06 15:20	18° ≈ 06'30	3°06'50	min. Earth dist.	3687 Jan 22 08:07	1° ≈ 09'01	0.67614 AU
minimum elong	3686 Feb 06 13:03	18° ≈ 14'07	3°06'22		3687 Jan 23 04:25	30°R₹	
min. Earth dist.	3686 Feb 07 15:50	16° ≈ 45′06	0.66887 AU	morning rise	3687 Jan 27 00:07	25° ප 35'14	
morning rise	3686 Feb 11 21:06	11° ≈ 52'48		direct	3687 Feb 01 10:07	23° ප 11'56	
direct	3686 Feb 17 21:27	9° ≈ 11'42		morning max el	3687 Feb 12 07:12	29° ප් 41'00	23°57'43
morning max el	3686 Mar 01 22:38	16° ≈ 23′01	25°24'10		3687 Feb 12 14:40	0° ≈	
desc. node	3686 Mar 04 15:05	19° ≈ 15′03		desc. node	3687 Feb 19 12:07	7° ≈ 59'02	
	3686 Mar 13 05:38	0° ∀			3687 Mar 07 02:01	0° ℋ	
	3686 Apr 01 18:28	0 ° Υ		morning set	3687 Mar 19 21:53	20° ∺ 49'28	
morning set	3686 Apr 07 04:01	9° Y ′29'35		max. Earth dist.	3687 Mar 23 16:52	27° ∺ 27'32	1.38354 AU
max. Earth dist.	3686 Apr 10 20:44	16° Ƴ 18'59	1.36289 AU		3687 Mar 25 02:53	$0^{\circ}\mathbf{\Upsilon}$	
	2696 4 16 20 05	2700052122	1011154		2697.M 20 22 24	1000046154	1027150
superior conj	3686 Apr 16 20:05	27° Υ 53'22 28° Υ 12'09		superior conj	3687 Mar 30 22:34	10° Y 46'54 11° Y 09'00	
minimum elong	3686 Apr 16 23:52 3686 Apr 17 21:28	0° 8	1 11 10	minimum elong evening rise	3687 Mar 31 03:13 3687 Apr 08 22:00	28° Υ 14'43	1°37'17
asc. node	3686 Apr 24 09:02	13° 8 09'16		evening rise	3687 Apr 09 19:31	0° 8	
evening rise	3686 Apr 24 23:49	13 8 09 10		asc. node	3687 Apr 11 06:04	2° 8 47'49	
evening rise	3686 May 03 03:41	0° Ⅱ		evening max el	3687 Apr 25 08:44	24° 8 50'56	18°55'07
evening max el	3686 May 12 11:29	12° ∏ 50′09	19°49'11	retrograde	3687 May 03 19:16	28° 8 58'12	16 33 07
retrograde	3686 May 22 11:48	12 H 3009	19 49 11	evening set	3687 May 05 19:10 3687 May 05 22:25	28° 8 43'29	
evening set	3686 May 24 10:58	17 Ⅱ 42 14 17° Ⅱ 31'49		inferior conj	3687 May 13 23:57	24° 8 26'27	1°16'00
desc. node	3686 May 31 14:17	17 П 3149 14° П 33'06		minimum elong	3687 May 14 02:44	24° 8 21'30	1°15'04
inferior conj	3686 Jun 02 07:45	13° Ⅱ 30′23	-0°30'38	min. Earth dist.	3687 May 17 02:44 3687 May 17 03:36	22° 8 12'43	0.56886 AU
minimum elong	3686 Jun 02 06:21	13° Ⅱ 30′23	0°30'07	desc. node	3687 May 17 03:30 3687 May 18 11:20	21° 8 20'34	0.50000 AC
min. Earth dist.	3686 Jun 04 11:45	13° Ⅱ 32'32 12° Ⅱ 10'41	0.55447 AU	morning rise	3687 May 22 03:51	19° 8 23'07	
morning rise	3686 Jun 10 23:34	9° П 02'43	0.55447 AC	direct	3687 May 27 10:49	18° 8 16'13	
direct	3686 Jun 15 06:59	9° П 02ч3		morning max el	3687 Jun 10 18:27	25° 8 41'47	25°58'24
morning max el	3686 Jun 29 03:39	15° Ⅱ 15'01	24°23'21	morning max er	3687 Jun 14 19:21	0°Ⅱ	23 30 24
morning max or	3686 Jul 10 20:26	0°95	21 23 21		3687 Jul 03 21:55	0°9	
asc. node	3686 Jul 21 08:17	18° 9 54'26		asc. node	3687 Jul 08 05:19	8°944'42	
morning set	3686 Jul 24 07:03	25°901'07		morning set	3687 Jul 08 18:19	9°953'09	
morning sec	3686 Jul 26 14:55	0°Ω		morning sev	3007 001 00 10.17	, 2030,	
				superior conj	3687 Jul 15 17:22	25° © 01'07	1°11'35
superior conj	3686 Jul 31 06:20	10° Ω 05'55	1°27'31	minimum elong	3687 Jul 15 15:01	24°5548'14	1°11'12
minimum elong	3686 Jul 31 04:08	9° Ω 53'57	1°27'16	max. Earth dist.	3687 Jul 16 10:54	26° © 37'28	1.32306 AU
max. Earth dist.	3686 Aug 02 01:56	14° Ω 01'47	1.32971 AU		3687 Jul 17 23:53	$0^{\circ}\Omega$	
evening rise	3686 Aug 07 13:52	25° Ω 33'49		evening rise	3687 Jul 22 17:09	10° Ω 05'23	
	3686 Aug 09 19:05	O° Mp			3687 Aug 02 02:00	0° m	
	3686 Aug 27 09:34	0∘ ⊽		desc. node	3687 Aug 14 10:38	18° ™ 57'03	
desc. node	3686 Aug 27 13:35	0° ≙ 14'27		evening max el	3687 Aug 23 03:15	28° m 51'03	27°10'27
evening max el	3686 Sep 09 20:26	16° ≙ 17'57	27°26'41		3687 Aug 24 09:23	0∘ ত	
retrograde	3686 Sep 23 12:27	23° ≏ 34'18		retrograde	3687 Sep 05 23:39	6° ≙ 04'22	
evening set	3686 Sep 30 16:42	20° ≏ 58'29		evening set	3687 Sep 13 02:31	3° ≏ 46'32	
min. Earth dist.	3686 Oct 04 08:25	17° ≏ 50'01	0.63397 AU	min. Earth dist.	3687 Sep 16 17:34	1° ≏ 02'19	0.61499 AU
inferior conj	3686 Oct 07 00:14	15° ≏ 10'30			3687 Sep 17 22:13	30°R, Mp	
minimum elong	3686 Oct 07 05:31	14° ≏ 57'17	3°13'02	inferior conj	3687 Sep 19 19:49	28° m 18'14	
morning rise	3686 Oct 13 19:42	9° Ω 54'42		minimum elong	3687 Sep 20 01:40	28° Mp 05'15	4°08'22
direct	3686 Oct 16 06:41	9° Ω 25'43		morning rise	3687 Sep 27 02:36	23° m 22'41	
asc. node	3686 Oct 17 07:29	9° Ω 30'57	. =	direct	3687 Sep 29 11:26	22° m 59'19	
morning max el	3686 Oct 22 21:04	12° £ 51'09	17°50'50	asc. node	3687 Oct 04 04:32	24° m/35'31	15056110
	3686 Nov 03 14:26	0°M.		morning max el	3687 Oct 06 11:56	26° m/30'28	17°56'19
morning set	3686 Nov 08 07:43	8°M11'35			3687 Oct 09 12:44	0° ⊽	
	2606 N 20 10 41	200 m 51140	0021110	morning set	3687 Oct 22 07:35	21° £ 23'17	
superior conj	3686 Nov 20 10:41	28°M51'49	0°21'18		3687 Oct 27 01:06	0° M	
minimum elong	3686 Nov 20 12:52	29° M .00'51 0° √	0°20'59	gunorier es	2607 Nov. 01 17-54	100m 0040	0050106
desc. node	3686 Nov 21 03:12 3686 Nov 23 12:53	0°×' 3°×756'03		superior conj	3687 Nov 01 17:54 3687 Nov 01 22:04	10°M06'42 10°M24'53	0°58'06 0°57'33
max. Earth dist.		9° × ′36′03	1.44086 AU	minimum elong max. Earth dist.		22°M48'49	
	3686 Nov 26 16:45 3686 Dec 05 23:59	23° x '02'09	1. 44 080 AU		3687 Nov 09 05:59 3687 Nov 10 09:55	24°M43'22	1.42558 AU
evening rise	3686 Dec 05 23:59 3686 Dec 10 03:48	23° x '38'09		desc. node	3687 Nov 10 09:55 3687 Nov 13 16:18	24°11L43′22 0° √	
	3686 Dec 10 03:48 3686 Dec 31 02:52	0° ≈		evening rise	3687 Nov 15 15:45	0° × ¹ 3° × ¹08'29	
evening max el	3687 Jan 04 03:14	0°≈ 4°≈35'09	20°51'53	evening 1180	3687 Dec 03 14:21	3° × '08'29' 0° る	
retrograde	3687 Jan 12 11:42	9°≈31'30	20 21 22	evening max el	3687 Dec 03 14.21 3687 Dec 17 22:30	18° ろ 08'26	22°06'09
asc. node	3687 Jan 12 11:42 3687 Jan 13 06:46	9°≈28'02		retrograde	3687 Dec 17 22:30 3687 Dec 27 08:29	23° ප් 44'41	22 00 07
evening set	3687 Jan 16 12:04	7°≈59'34		asc. node	3687 Dec 27 08:29 3687 Dec 31 03:48	23° ろ 27'05	
inferior conj	3687 Jan 21 20:41	1°≈48'18	2°35'18	evening set	3687 Dec 31 03:48	22 ප 2703 21° පි 56'59	
	500, Juli 21 20.71	1 . 4 . 70 10	2 55 10	J. J 500	500, 500 51 17.47	- 55557	

inferior conj	3688 Jan 06 04:09	15° る 37'06	1°55'42	inferior conj	3688 Dec 20 11:50	29° х 30′15	1°09'18
minimum elong	3688 Jan 06 01:54	15° る 44'53	1°54'55	minimum elong	3688 Dec 20 10:18	29° x 30°13	1°08'42
min. Earth dist.	3688 Jan 06 03:52	15°る38'05	0.67949 AU	min. Earth dist.	3688 Dec 20 10:18	0° る 08'32	0.67922 AU
morning rise	3688 Jan 11 07:54	9° る 26'09	0.07949 AU	iiiii. Lattii tist.	3688 Dec 20 03:10	30°₽ √	0.07922 AU
direct	3688 Jan 16 02:57	7°る24'50		morning rise	3688 Dec 25 18:18	23° ∡ ⁷ 23'15	
morning max el	3688 Jan 25 17:52	7 3 2430	22°29'02	direct	3688 Dec 29 23:07	21° x ⁷ 44'43	
desc. node	3688 Feb 06 09:09	13 3 03 24 27° る 22'54	22 29 02	morning max el	3689 Jan 07 09:59	26° х 38'47	21°06'23
desc. flode	3688 Feb 08 06:22	27 O 22 34 0° ≈		morning max ci	3689 Jan 10 11:31	20 x 3047 0°る	21 00 23
	3688 Feb 28 00:17	0° ∺		desc. node	3689 Jan 23 06:12	17°る15'20	
morning got	3688 Feb 28 12:32	0° X 49'56		desc. Hode	3689 Jan 31 19:08	0°≈	
morning set		9° H 11'58	1 40524 ATT				
max. Earth dist.	3688 Mar 04 13:11	9 π1138	1.40524 AU	morning set	3689 Feb 06 23:06 3689 Feb 14 15:25	9°≈32'11	1 42526 ATT
	2600 Mar. 12 00.12	220 1/40/41	1057146	max. Earth dist.		21° ≈ 49'43 0°) €	1.42526 AU
superior conj	3688 Mar 12 08:13	22°) (49'41			3689 Feb 19 13:42	0° X	
minimum elong	3688 Mar 12 12:12	23°) (07'39	1°5/31		2600 E 1 21 10 52	201/40124	2007107
	3688 Mar 16 06:25	0°Υ		superior conj	3689 Feb 21 19:53	3°) (49'34	
evening rise	3688 Mar 22 10:06	11° Y 31'58		minimum elong	3689 Feb 21 20:32	3°) €52'19	2°07'06
asc. node	3688 Mar 28 03:07	22° Y 06'47		evening rise	3689 Mar 05 08:10	24°) (06'10	
	3688 Apr 01 19:29	0° 8		_	3689 Mar 08 14:58	0° Υ	
evening max el	3688 Apr 07 14:30	7° 8 26'09	18°21'23	asc. node	3689 Mar 15 00:10	10° Y 58'48	
retrograde	3688 Apr 14 21:47	11° 8 03'44		evening max el	3689 Mar 22 01:20	20° Y 25'46	18°07'25
evening set	3688 Apr 17 07:22	10° 8 41'15		retrograde	3689 Mar 28 16:50	23° Y 49'34	
inferior conj	3688 Apr 24 13:42	6° 8 04'23	2°32'06	evening set	3689 Mar 31 08:43	23° Y 17'01	
minimum elong	3688 Apr 24 17:24	5° 8 56'40	2°31'11	inferior conj	3689 Apr 06 23:09	18° Ƴ 19'38	3°16'49
min. Earth dist.	3688 Apr 28 00:18	3° 8 13'34	0.58869 AU	minimum elong	3689 Apr 07 01:39	18° Ƴ 13'36	3°16'27
morning rise	3688 May 02 00:31	0° 8 30'30		min. Earth dist.	3689 Apr 10 03:45	15° Ƴ 16′20	0.61052 AU
	3688 May 03 00:57	30° ₹Ƴ		morning rise	3689 Apr 13 16:38	12° Y 25′51	
desc. node	3688 May 04 08:22	29° Ƴ 28′28		direct	3689 Apr 20 10:24	10° Y ′09'55	
direct	3688 May 08 04:48	28° Ƴ 48'43		desc. node	3689 Apr 21 05:24	10° Ƴ 11'43	
	3688 May 13 12:33	$6^{\circ}B$		morning max el	3689 May 04 16:05	18° Ƴ 06′06	27°46'59
morning max el	3688 May 22 14:12	6° 8 34'36	27°09'45		3689 May 14 15:08	0°8	
	3688 Jun 09 01:46	$\Pi^{\circ}0$			3689 Jun 01 18:53	Π°	
morning set	3688 Jun 22 03:28	24° Ⅲ 37′26		morning set	3689 Jun 06 08:36	9° Ⅱ 06'57	
asc. node	3688 Jun 24 02:22	28° Ⅱ 45'58		asc. node	3689 Jun 10 23:25	18° Ⅱ 52'43	
	3688 Jun 24 16:09	0°ಅ		max. Earth dist.	3689 Jun 12 09:08	21° Ⅲ 55'49	1.32193 AU
superior conj	3688 Jun 29 05:12	9° © 56'25	0°51'33	superior conj	3689 Jun 13 16:05	24° Ⅱ 45′00	0°28'00
minimum elong	2600 I 20 02 12	00645100	0°51'09			24° Ⅲ 38′13	0007144
	3688 Jun 29 03:12	9° ≤ 45'20	0.21.08	minimum elong	3689 Jun 13 14:50	24 1 136 13	0°27'44
max. Earth dist.	3688 Jun 29 03:12 3688 Jun 28 22:34	9°9945'20 9°9919'48	1.32048 AU	minimum elong	3689 Jun 13 14:50 3689 Jun 16 01:28	24 п 3613	0°2/'44
max. Earth dist.						0 \circ \odot	0°2/'44
•	3688 Jun 28 22:34 3688 Jul 06 01:24	9°©19'48 24°©49'53		evening rise	3689 Jun 16 01:28	0°গু39'28	0°27'44
max. Earth dist.	3688 Jun 28 22:34 3688 Jul 06 01:24 3688 Jul 08 13:02	9°©19'48 24°©49'53 0°Ω		evening rise	3689 Jun 16 01:28 3689 Jun 20 12:22 3689 Jun 30 22:57	0° © 9° © 39'28 0° Ω	
max. Earth dist. evening rise	3688 Jun 28 22:34 3688 Jul 06 01:24 3688 Jul 08 13:02 3688 Jul 26 00:47	9°\$19'48 24°\$49'53 0° N 0° N		evening rise evening max el	3689 Jun 16 01:28 3689 Jun 20 12:22 3689 Jun 30 22:57 3689 Jul 16 20:37	0°5 9°539'28 0°€ 21°€38'49	
max. Earth dist. evening rise desc. node	3688 Jun 28 22:34 3688 Jul 06 01:24 3688 Jul 08 13:02 3688 Jul 26 00:47 3688 Jul 31 07:39	9°\$19'48 24°\$49'53 0°\$1 0°\$10 6°\$10,38'09	1.32048 AU	evening rise evening max el desc. node	3689 Jun 16 01:28 3689 Jun 20 12:22 3689 Jun 30 22:57 3689 Jul 16 20:37 3689 Jul 18 04:40	0°© 9°©39'28 0°N 21°N38'49 22°N52'31	
max. Earth dist. evening rise desc. node evening max el	3688 Jun 28 22:34 3688 Jul 06 01:24 3688 Jul 08 13:02 3688 Jul 26 00:47 3688 Jul 31 07:39 3688 Aug 04 03:30	9°©19'48 24°©49'53 0°N 0°M 6°M38'09 10°M38'11		evening rise evening max el desc. node retrograde	3689 Jun 16 01:28 3689 Jun 20 12:22 3689 Jun 30 22:57 3689 Jul 16 20:37 3689 Jul 18 04:40 3689 Jul 30 19:42	0°5 9°539'28 0°N 21°N38'49 22°N52'31 28°N43'04	
max. Earth dist. evening rise desc. node evening max el retrograde	3688 Jun 28 22:34 3688 Jul 06 01:24 3688 Jul 08 13:02 3688 Jul 26 00:47 3688 Jul 31 07:39 3688 Aug 04 03:30 3688 Aug 18 02:51	9°519'48 24°549'53 0° N 0° M 6° M 38'09 10° M 38'11 17° M 48'23	1.32048 AU	evening rise evening max el desc. node retrograde evening set	3689 Jun 16 01:28 3689 Jun 20 12:22 3689 Jun 30 22:57 3689 Jul 16 20:37 3689 Jul 18 04:40 3689 Jul 30 19:42 3689 Aug 05 07:10	0°S 9°S39'28 0°N 21°N38'49 22°N52'31 28°N43'04 27°N34'30	25°03'02
max. Earth dist. evening rise desc. node evening max el retrograde evening set	3688 Jun 28 22:34 3688 Jul 06 01:24 3688 Jul 08 13:02 3688 Jul 26 00:47 3688 Jul 31 07:39 3688 Aug 04 03:30 3688 Aug 18 02:51 3688 Aug 24 16:44	9°519'48 24°549'53 0° N 0° M 6° M 38'09 10° M 38'11 17° M 48'23 16° M 01'22	1.32048 AU 26°20'58	evening rise evening max el desc. node retrograde evening set min. Earth dist.	3689 Jun 16 01:28 3689 Jun 20 12:22 3689 Jun 30 22:57 3689 Jul 16 20:37 3689 Jul 18 04:40 3689 Jul 30 19:42 3689 Aug 05 07:10 3689 Aug 10 08:16	0°\$0.39'28 0°\$0.21'\dash38'49 22\dash3.52'31 28\dash3.04 27\dash3.34'30 24\dash3.49'50	25°03'02 0.57444 AU
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max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	3688 Jun 28 22:34 3688 Jul 06 01:24 3688 Jul 08 13:02 3688 Jul 26 00:47 3688 Jul 31 07:39 3688 Aug 04 03:30 3688 Aug 18 02:51 3688 Aug 24 16:44 3688 Aug 28 16:40 3688 Sep 01 03:47 3688 Sep 01 03:47 3688 Sep 11 02:44 3688 Sep 11 02:44 3688 Sep 12:46 3688 Sep 13 21:46 3688 Sep 14 20:59 3688 Oct 02 02:56 3688 Oct 04 20:59 3688 Oct 14 00:50 3688 Oct 14 04:31 3688 Oct 18 04:29 3688 Oct 21 13:29 3688 Oct 27 06:57 3688 Nov 05 13:08 3688 Nov 27 21:21 3688 Nov 29 13:29	9°©19'48 24°©49'53 0° Ω 0° ™ 6° ™38'09 10° ™38'11 17° ™48'23 16° ™01'22 13° ™26'11 10° ™54'24 10° ™45'55 6° ™21'25 6° ™01'08 9° ™47'31 10° ™58'48 0° Ω 5° №13'11 22° №30'42 22° №47'33 0° ™ 5° ™53'00 13° ™53'00 13° ™52'17 15° ™27'58 0° ズ 0° ጜ 1° ጜ 44'26	1.32048 AU 26°20'58 0.59438 AU -4°51'57 4°51'21 18°21'26 1°23'38 1°23'16 1.40629 AU	evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3689 Jun 16 01:28 3689 Jun 20 12:22 3689 Jun 30 22:57 3689 Jul 16 20:37 3689 Jul 18 04:40 3689 Jul 30 19:42 3689 Aug 05 07:10 3689 Aug 10 08:16 3689 Aug 13 07:52 3689 Aug 13 07:52 3689 Aug 21 10:53 3689 Aug 21 10:53 3689 Sep 01 23:17 3689 Sep 06 22:37 3689 Sep 08 00:32 3689 Sep 18 19:48 3689 Sep 24 02:40 3689 Sep 27 02:03 3689 Sep 27 04:09 3689 Oct 03 17:49 3689 Oct 10 11:11 3689 Oct 10 10:53 3689 Nov 12 02:20 3689 Nov 23 16:27	0°\$\mathref{9}\$\mathref{9}\$\mathref{9}\$\mathref{9}\$\mathref{3}39'28\\ 0°\$\mathref{\alpha}\$\langle \text{3}38'49\\ 22°\$\mathref{\alpha}\$\langle \text{3}43'04\\ 27°\$\mathref{\alpha}\$\langle \text{3}49'50\\ 22°\$\mathref{\alpha}\$\langle \text{3}0'02\\ 18°\$\mathref{\alpha}\$\langle \text{3}19'51\\ 22°\$\mathref{\alpha}\$\langle \text{3}2'26\\ 28°\$\mathref{\alpha}\$\langle 25'38\\ 0°\$\mathref{m}\$\langle \text{3}0'15\\ 0°\$\mathref{\alpha}\$\langle \text{4}8'30\\ 5°\$\mathref{\alpha}\$\langle 48'30\\ 5°\$\mathref{\alpha}\$\langle 816'08\\ 25°\$\mathref{\alpha}\$\langle 16'08\\ 25°\$\mathref{\alpha}\$\langle 10'08\\ 0°\$\mathref{m}\$\langle \text{6}01'08\\ 0°\$\mathref{m}\$\langle \text{3}01'08\\ 0°\$\mathref{m}\$\langle \text{3}01'37\\ 15°\$\mathref{\alpha}\$\langle 24'52\\ 22°\$\mathref{\alpha}\$\langle 99'37\\	25°03'02 0.57444 AU -5°08'56 5°08'57 19°07'37 1°38'32 1°38'24 1.38547 AU
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3688 Jun 28 22:34 3688 Jul 06 01:24 3688 Jul 08 13:02 3688 Jul 26 00:47 3688 Jul 31 07:39 3688 Aug 04 03:30 3688 Aug 18 02:51 3688 Aug 24 16:44 3688 Aug 28 16:40 3688 Sep 01 03:47 3688 Sep 01 03:47 3688 Sep 11 02:44 3688 Sep 18 21:46 3688 Sep 18 21:46 3688 Sep 10 02:56 3688 Oct 02 02:56 3688 Oct 04 20:59 3688 Oct 14 00:50 3688 Oct 14 04:31 3688 Oct 18 04:29 3688 Oct 21 13:29 3688 Oct 27 06:57 3688 Nov 05 13:08 3688 Nov 27 21:21 3688 Nov 29 13:29 3688 Dec 10 02:28	9°519'48 24°549'53 0° Ω 0° ™ 6° ™ 38'09 10° ™ 38'11 17° ™ 48'23 16° ™ 01'22 13° ™ 26'11 10° ™ 54'24 10° ™ 45'55 6° ™ 21'25 6° ™ 01'08 9° ™ 47'31 10° ™ 58'48 0° Ω 5° № 13'11 22° № 30'42 22° № 47'33 0° ™ 5° ™ 53'00 13° ™ 32'17 15° ™ 27'58 0° ズ 0° ጜ 1° ጜ 44'26 7° ጜ 58'37	1.32048 AU 26°20'58 0.59438 AU -4°51'57 4°51'21 18°21'26 1°23'38 1°23'16 1.40629 AU	evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3689 Jun 16 01:28 3689 Jun 20 12:22 3689 Jun 30 22:57 3689 Jul 16 20:37 3689 Jul 18 04:40 3689 Jul 30 19:42 3689 Aug 05 07:10 3689 Aug 10 08:16 3689 Aug 13 07:52 3689 Aug 13 07:52 3689 Aug 21 10:53 3689 Aug 24 00:31 3689 Sep 01 23:17 3689 Sep 06 22:37 3689 Sep 08 00:32 3689 Sep 18 19:48 3689 Sep 27 02:03 3689 Sep 27 02:03 3689 Sep 27 04:09 3689 Oct 03 17:49 3689 Oct 10 11:11 3689 Oct 10 11:11 3689 Oct 14 03:59 3689 Nov 12 02:20 3689 Nov 23 16:27 3689 Nov 29 05:54	0°\$\mathref{9}\mathref{9}\mathref{9}\mathref{3}\mathref{3}\mathref{9}\mathref{2}\mathref{2}\mathref{1}\mathref{3}\mathref{3}\mathref{8}\mathref{4}\mathref{9}\mathref{2}\mathref{3}\mathref{4}\mathref{3}\mathref{4}\mathref{9}\mathref{5}\mathref{0}\mathref{2}\mathref{2}\mathref{4}\mathref{9}\mathref{4}\mathref{9}\mathref{1}\mathref{9}\mathref{1}\mathref{9}\mathref{1}\mathref{9}\mathref{1}\mathref{9}\mathref{1}\mathref{9}\mathref{1}\mathref{9}\mathref{1}\mathref{9}\mathref{1}\mathref{9}\mathref{1}\mathref{9}\mathref{1}\mathref{9}\mathref{1}\mathref{9}\mathref{1}\mathref{9}\mathref{1}\mathref{9}\mathref{1}\mathref{9}\mathref{1}\mathref{9}\mathref{1}\mathref{9}\mathref{1}\mathref{9}\mathref{9}\mathref{1}\mathref{9}\mathref{1}\mathref{9}\mathre	25°03'02 0.57444 AU -5°08'56 5°08'57 19°07'37 1°38'32 1°38'24 1.38547 AU
max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	3688 Jun 28 22:34 3688 Jul 06 01:24 3688 Jul 08 13:02 3688 Jul 26 00:47 3688 Jul 31 07:39 3688 Aug 04 03:30 3688 Aug 18 02:51 3688 Aug 24 16:44 3688 Aug 28 16:40 3688 Sep 01 03:47 3688 Sep 01 03:47 3688 Sep 11 02:44 3688 Sep 11 02:44 3688 Sep 12:46 3688 Sep 13 21:46 3688 Sep 14 20:59 3688 Oct 02 02:56 3688 Oct 04 20:59 3688 Oct 14 00:50 3688 Oct 14 04:31 3688 Oct 18 04:29 3688 Oct 21 13:29 3688 Oct 27 06:57 3688 Nov 05 13:08 3688 Nov 27 21:21 3688 Nov 29 13:29	9°©19'48 24°©49'53 0° Ω 0° ™ 6° ™38'09 10° ™38'11 17° ™48'23 16° ™01'22 13° ™26'11 10° ™54'24 10° ™45'55 6° ™21'25 6° ™01'08 9° ™47'31 10° ™58'48 0° Ω 5° №13'11 22° №30'42 22° №47'33 0° ™ 5° ™53'00 13° ™53'00 13° ™52'17 15° ™27'58 0° ズ 0° ጜ 1° ጜ 44'26	1.32048 AU 26°20'58 0.59438 AU -4°51'57 4°51'21 18°21'26 1°23'38 1°23'16 1.40629 AU	evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3689 Jun 16 01:28 3689 Jun 20 12:22 3689 Jun 30 22:57 3689 Jul 16 20:37 3689 Jul 18 04:40 3689 Jul 30 19:42 3689 Aug 05 07:10 3689 Aug 10 08:16 3689 Aug 13 07:52 3689 Aug 13 07:52 3689 Aug 21 10:53 3689 Aug 21 10:53 3689 Sep 01 23:17 3689 Sep 06 22:37 3689 Sep 08 00:32 3689 Sep 18 19:48 3689 Sep 24 02:40 3689 Sep 27 02:03 3689 Sep 27 04:09 3689 Oct 03 17:49 3689 Oct 10 11:11 3689 Oct 10 10:53 3689 Nov 12 02:20 3689 Nov 23 16:27	0°\$\mathref{9}\$\mathref{9}\$\mathref{9}\$\mathref{9}\$\mathref{3}39'28\\ 0°\$\mathref{\alpha}\$\langle \text{3}38'49\\ 22°\$\mathref{\alpha}\$\langle \text{3}43'04\\ 27°\$\mathref{\alpha}\$\langle \text{3}49'50\\ 22°\$\mathref{\alpha}\$\langle \text{3}0'02\\ 18°\$\mathref{\alpha}\$\langle \text{3}19'51\\ 22°\$\mathref{\alpha}\$\langle \text{3}2'26\\ 28°\$\mathref{\alpha}\$\langle 25'38\\ 0°\$\mathref{m}\$\langle \text{3}0'15\\ 0°\$\mathref{\alpha}\$\langle \text{4}8'30\\ 5°\$\mathref{\alpha}\$\langle 48'30\\ 5°\$\mathref{\alpha}\$\langle 816'08\\ 25°\$\mathref{\alpha}\$\langle 16'08\\ 25°\$\mathref{\alpha}\$\langle 10'08\\ 0°\$\mathref{m}\$\langle \text{6}01'08\\ 0°\$\mathref{m}\$\langle \text{3}01'08\\ 0°\$\mathref{m}\$\langle \text{3}01'37\\ 15°\$\mathref{\alpha}\$\langle 24'52\\ 22°\$\mathref{\alpha}\$\langle 99'37\\	25°03'02 0.57444 AU -5°08'56 5°08'57 19°07'37 1°38'32 1°38'24 1.38547 AU

: <i>c</i> ::	2600 D 04 10:00	120.705120	0017112		2600 N 07 01-22	CO. 7 12104	
inferior conj	3689 Dec 04 18:00	13° × 25'30	0°17'12	retrograde	3690 Nov 07 01:33	6° ₹ 12'04	
minimum elong	3689 Dec 04 17:35	13° 🖈 26'55	0°17'01	evening set	3690 Nov 13 04:58	3° ₹ 39'34	
morning rise	3689 Dec 10 05:22	7° ∡ ¹24'43			3690 Nov 16 17:05	30°RM₁	
direct	3689 Dec 13 21:19	6° ≯ 07'28		min. Earth dist.	3690 Nov 17 11:51	29°M02'29	0.66838 AU
morning max el	3689 Dec 21 09:49	10° ∡ 23'32	19°55'28	inferior conj	3690 Nov 18 20:46	27°M19'05	
	3690 Jan 05 03:51	0° ਰ		minimum elong	3690 Nov 18 21:49	27°M15'48	0°39'05
desc. node	3690 Jan 10 03:13	7° る 28'38		asc. node	3690 Nov 20 18:53	24°M58'21	
morning set	3690 Jan 16 19:11	17° る 40'53		morning rise	3690 Nov 24 15:04	21°M27'08	
	3690 Jan 24 16:49	0° ≈		direct	3690 Nov 27 19:59	20°M28'14	
max. Earth dist.	3690 Jan 28 01:37	5° ≈ 20'09	1.44092 AU	morning max el	3690 Dec 04 17:13	24°M17'23	18°59'16
					3690 Dec 09 12:34	0° ∡ ¹	
superior conj	3690 Feb 02 05:53	13° ≈ 40′13	-2°00'29	morning set	3690 Dec 27 01:58	26° ₹ 29'20	
minimum elong	3690 Feb 02 00:43	13° ≈ 19′15	2°00'13	desc. node	3690 Dec 28 00:14	27° ₹ 56'19	
	3690 Feb 12 01:48	0° ℋ			3690 Dec 29 07:53	0°る	
evening rise	3690 Feb 15 11:51	5°) 49'32		max. Earth dist.	3691 Jan 10 18:00	19° る 27'09	1.45025 AU
asc. node	3690 Mar 01 21:11	29° ∺ 15'49					
	3690 Mar 02 10:20	0 ° Υ		superior conj	3691 Jan 12 16:37	22° る 30'43	-1°34'23
evening max el	3690 Mar 05 14:05	3° Ƴ 41'50	18°12'35	minimum elong	3691 Jan 12 07:28	21° る 54'39	1°33'31
retrograde	3690 Mar 12 00:19	7° Y 06′24			3691 Jan 17 10:02	0° ≈	
evening set	3690 Mar 14 22:01	6° Y 22'30		evening rise	3691 Jan 27 17:16	16° ≈ 35'48	
inferior conj	3690 Mar 21 00:28	1° Ƴ 05'17	3°35'53		3691 Feb 04 22:57	0° ∀	
minimum elong	3690 Mar 21 01:11	1° Ƴ 03'21	3°35'50	asc. node	3691 Feb 16 18:12	16°) 46′56	
Č	3690 Mar 22 00:18	30° ₹		evening max el	3691 Feb 17 01:55	17° ¥ 06'52	18°36'14
min. Earth dist.	3690 Mar 23 15:52	28°) 13′25	0.63133 AU	retrograde	3691 Feb 23 15:58	20°) 45'04	
morning rise	3690 Mar 27 03:18	25° ¥ 00'15		evening set	3691 Feb 26 19:37	19° ¥ 48'59	
direct	3690 Apr 03 01:01	22°) 20'13		inferior conj	3691 Mar 04 13:40	14°) 13'33	3°35'34
desc. node	3690 Apr 08 02:26	23°) 34'34		minimum elong	3691 Mar 04 12:48	14°) 16'09	3°35'30
dese. Hode	3690 Apr 16 15:46	0° Υ		min. Earth dist.	3691 Mar 06 13:28	11°) (50'18	0.64902 AU
morning max el	3690 Apr 16 23:01	0° Υ 18'00	27°46'39	morning rise	3691 Mar 10 05:28	8°) (02'41	0.04702710
morning max cr	3690 May 08 16:07	0.8	27 4037	direct	3691 Mar 16 22:53	5° X 12'19	
morning sot	3690 May 21 07:30	23° 8 14'42		desc. node	3691 Mar 25 23:27	9° ∺ 06'10	
morning set		0° Ⅱ				13° X 02'38	27011144
may Forth dist	3690 May 24 14:40	0 Ⅱ 4°Ⅱ13'16	1.32759 AU	morning max el	3691 Mar 30 08:41	13 χ0238 0°Υ	2/ 1144
max. Earth dist.	3690 May 26 14:46		1.32/39 AU		3691 Apr 13 00:07		
asc. node	3690 May 28 20:27	9° Ⅱ 00'47			3691 May 01 06:23	0° と 6° と 52'25	
	2600 M 20 00 12	00 T2 1100	0001120	morning set	3691 May 04 21:22	. • .	1 22760 ATT
superior conj	3690 May 29 00:13	9° Ⅱ 21'08	0°01'39	max. Earth dist.	3691 May 09 11:49	16° 8 02'43	1.33769 AU
minimum elong	3690 May 29 00:08	9° Ⅱ 20'42	0°01'38				
behind sun begin	3690 May 28 18:54	8° ∏ 52′26		superior conj	3691 May 13 03:38	23° 8 38'47	
behind sun end	3690 May 29 05:22	9° Ⅱ 48'59		minimum elong	3691 May 13 05:01	23° 8 46'02	0°26'21
evening rise	3690 Jun 05 00:13	24° Ⅱ 27'49		asc. node	3691 May 15 17:30	29° 8 06'34	
	3690 Jun 07 15:53	0ංම			3691 May 16 03:33	$\Pi^{\circ}0$	
	3690 Jun 26 08:06	$0^{\circ}\Omega$		evening rise	3691 May 20 11:04	9° ∏ 08'57	
evening max el	3690 Jun 28 09:47	2° Ω 08'12	23°28'29		3691 May 31 10:40	0 \circ \odot	
desc. node	3690 Jul 05 01:41	7° Ω 07'34		evening max el	3691 Jun 10 02:21	12° © 37'07	21°53'02
retrograde	3690 Jul 11 23:51	8° Ω 56'19		desc. node	3691 Jun 21 22:42	18° © 49'37	
evening set	3690 Jul 15 23:43	8° Ω 21'24		retrograde	3691 Jun 22 16:48	18° © 50'56	
min. Earth dist.	3690 Jul 22 19:40		0.55839 AU	evening set	3691 Jun 25 08:50	18° © 34'59	
inferior conj	3690 Jul 24 20:15	3° Ω 59'43		inferior conj	3691 Jul 04 17:25	14° © 31'30	-3°31'44
minimum elong	3690 Jul 24 14:16	4° Ω 08'37	4°44'28	minimum elong	3691 Jul 04 09:01	14° © 43'14	3°29'19
morning rise	3690 Aug 02 07:16	0° Ω 05'24		min. Earth dist.	3691 Jul 04 06:18	14° © 47'02	0.54943 AU
	3690 Aug 02 17:27	30° ₹ ∽		morning rise	3691 Jul 13 10:42	10° © 39'41	
direct	3690 Aug 05 03:19	29° 5 45'36		direct	3691 Jul 16 15:28	10° © 17'10	
	3690 Aug 07 11:46	$0^{\circ}\Omega$		morning max el	3691 Jul 28 16:39	15° © 55'47	21°43'08
morning max el	3690 Aug 15 13:46	4° Ω 36'11	20°15'28		3691 Aug 08 11:52	$0^{\circ}\Omega$	
asc. node	3690 Aug 24 19:40	16° Ω 41'51		asc. node	3691 Aug 11 16:43	5° Ω 35'53	
	3690 Sep 01 00:16	0° m p		morning set	3691 Aug 18 10:12	18° Ω 53'56	
morning set	3690 Sep 03 00:58	4° m 05'53			3691 Aug 23 16:35	0° m	
superior conj	3690 Sep 10 16:31	19° m 45'35	1°44'19	superior conj	3691 Aug 25 16:19	4° الله 10′57	1°42'35
minimum elong	3690 Sep 10 16:55	19° m)47'37	1°44'20	minimum elong	3691 Aug 25 15:21	4° m 05'50	1°42'33
J	3690 Sep 15 21:14	0∘ <u>⊽</u>		max. Earth dist.	3691 Aug 29 12:53	12° m 07'28	1.34857 AU
max. Earth dist.	3690 Sep 15 23:59	0° £ 13'11	1.36560 AU	evening rise	3691 Sep 02 22:22	20° mp 47'11	
evening rise	3690 Sep 19 21:10	7° ≏ 29'28		5 -	3691 Sep 07 21:36	0∘ ⊽	
desc. node	3690 Oct 01 00:59	26° £ 33'06		desc. node	3691 Sep 17 22:01	16° ≏ 43'14	
					· r · ==····		
	3690 Oct 03 05:42	0° M .			3691 Sep 27 03:24	0°M₊	
evening max el	3690 Oct 03 05:42 3690 Oct 25 14:42	0°ጤ 29°ጤ06'52	25°54'49	evening max el	3691 Sep 27 03:24 3691 Oct 08 03:12	0° ጤ 12° ጤ 44'26	26°49'24
evening max el	3690 Oct 03 05:42 3690 Oct 25 14:42 3690 Oct 26 13:03	0°M 29°M06'52 0°⊀	25°54'49	evening max el retrograde	3691 Sep 27 03:24 3691 Oct 08 03:12 3691 Oct 21 05:23	0°M 12°M44'26 20°M00'13	26°49'24

	3693 Aug 06 01:03	0° m			3694 Jul 29 19:57	0° m/	
desc. node	3693 Aug 21 16:04	25° m) 37'37		desc. node	3694 Aug 08 13:05	13° m) 56'52	
dese. Hour	3693 Aug 24 22:47	0° ⊽		evening max el	3694 Aug 15 05:15	21° m) 18'25	26°53'26
evening max el	3693 Sep 02 00:38	∘ _ 9° _ 02'27	27°23'49	retrograde	3694 Aug 29 03:08	28° m) 29'41	20 33 20
•	-		21 23 49	•	· ·	-	
retrograde	3693 Sep 15 19:12	16° £ 18'06		evening set	3694 Sep 05 01:56	26° m) 23'56	0.60622.444
evening set	3693 Sep 22 23:47	13° Ω 48'28		min. Earth dist.	3694 Sep 08 19:25	23° m/45'27	0.60633 AU
min. Earth dist.	3693 Sep 26 14:29	10° £ 51'28	0.62618 AU	inferior conj	3694 Sep 12 00:25	21°Mp04'38	
inferior conj	3693 Sep 29 11:06	8° 亞 08'10	-3°39'10	minimum elong	3694 Sep 12 05:58	20° m 53'00	4°28'45
minimum elong	3693 Sep 29 16:47	7° £ 54'35	3°37'28	morning rise	3694 Sep 19 11:52	16° Mp 18'05	
morning rise	3693 Oct 06 11:22	3° ჲ 00'31		direct	3694 Sep 21 20:43	15° m 56'15	
direct	3693 Oct 08 20:57	2° ₽ 34'23		asc. node	3694 Sep 28 07:05	18° m 44'52	
asc. node	3693 Oct 11 10:02	3° ჲ 04'39		morning max el	3694 Sep 29 03:59	19° m 32'50	18°04'26
morning max el	3693 Oct 15 14:52	6° £ 01'35	17°50'46	_	3694 Oct 06 20:45	0∘ ⊽	
Č	3693 Oct 31 02:46	0°M		morning set	3694 Oct 14 22:58	14° ≏ 32'27	
morning set	3693 Oct 31 16:40	1°M01'52			3694 Oct 23 08:22	0°M	
morning sec	3073 000 31 10.10	1 1100132			3071 001 23 00.22	0 110	
superior conj	3693 Nov 12 01:06	20°M48'51	0°38'15	superior conj	3694 Oct 24 19:05	2°M35'22	1°10'18
minimum elong		20 mc48 31 21°Mc03'21		minimum elong			
J	3693 Nov 12 04:32		0°37'46	2	3694 Oct 24 23:16	2°M53'58	1°09'48
desc. node	3693 Nov 17 15:20	0° ∡ *05'45		max. Earth dist.	3694 Nov 01 10:33	15°M47'25	1.41780 AU
	3693 Nov 17 13:56	0°⊀		desc. node	3694 Nov 04 12:23	20°M52'46	
max. Earth dist.	3693 Nov 18 23:20	2° ≯ 15'42	1.43497 AU	evening rise	3694 Nov 06 22:06	24°M46'26	
evening rise	3693 Nov 26 23:05	14° ₹ 54'50			3694 Nov 10 05:12	0° ∡ ¹	
	3693 Dec 06 21:31	8°0			3694 Nov 30 19:42	8°0	
evening max el	3693 Dec 27 12:50	27° る 40'14	21°22'37	evening max el	3694 Dec 10 06:14	11° る 15'22	22°39'43
	3693 Dec 30 00:58	0° ≈		retrograde	3694 Dec 20 03:29	17° る 07'35	
retrograde	3694 Jan 05 07:54	2°≈53'24		evening set	3694 Dec 24 19:59	15° ⋜ 13′01	
asc. node	3694 Jan 07 09:18	2° ≈ 30'18		asc. node	3694 Dec 25 06:19	14° る 50'42	
evening set	3694 Jan 09 12:38	1°≈15'05		inferior conj	3694 Dec 30 04:45	8° る 50'55	1°36'48
evening set	3694 Jan 10 21:36	30°Rる		minimum elong	3694 Dec 30 02:45	8° る 57'49	1°36'03
:c:			2010/24	•		9°る08'04	
inferior conj	3694 Jan 14 20:59	24°る59'56		min. Earth dist.	3694 Dec 29 23:48		0.67990 AU
minimum elong	3694 Jan 14 18:31	25°₹08'25	2°18'39	morning rise	3695 Jan 04 09:23	2°₹41'34	
min. Earth dist.	3694 Jan 15 03:23	24° ⋜ 37'46	0.67800 AU	direct	3695 Jan 08 22:22	0° る 49'51	
morning rise	3694 Jan 20 00:13	18° る 47'27		morning max el	3695 Jan 18 00:34	6° る 09'14	21°52'41
direct	3694 Jan 25 03:56	16° る 32'54		desc. node	3695 Jan 31 11:35	23° る 06'21	
morning max el	3694 Feb 04 12:04	22° る 41'44	23°19'41		3695 Feb 05 06:23	0° ≈	
	3694 Feb 10 21:24	0° ≈		morning set	3695 Feb 19 14:10	21° ≈ 59'16	
desc. node	3694 Feb 13 14:32	3° ≈ 29'10			3695 Feb 24 12:15	0° ∀	
	3694 Mar 03 18:45	0° ∀		max. Earth dist.	3695 Feb 25 13:57	1°) (46′42	1.41421 AU
morning set	3694 Mar 11 12:09	12°) 35′11					
max. Earth dist.	3694 Mar 15 15:17		1.39277 AU	superior conj	3695 Mar 05 06:45	14° ¥ 58'16	-2°03'22
	3694 Mar 21 10:14	$0^{\circ}\Upsilon$		minimum elong	3695 Mar 05 09:41	15° ¥ 11'14	
					3695 Mar 13 14:25	0° Υ	
superior conj	3694 Mar 23 05:52	3° Y 21'12	-1°47'17	evening rise	3695 Mar 15 22:13	4° Υ 17'43	
minimum elong	3694 Mar 23 10:30	3° Υ 42'42		asc. node	3695 Mar 23 05:39	17° Υ 31'01	
•		21° Y 18'13	1 40 30	asc. node			
evening rise	3694 Apr 01 15:39				3695 Mar 31 23:43	0°8	10012102
asc. node	3694 Apr 05 08:38	28° Y 23′05		evening max el	3695 Apr 01 05:45	0°815'00	18°13'03
	3694 Apr 06 05:25	0° 8		retrograde	3695 Apr 08 04:48	3° 8 44'47	
evening max el	3694 Apr 17 21:29	17° 8 28'58	18°38'24	evening set	3695 Apr 10 17:15	3° 8 18'04	
retrograde	3694 Apr 25 18:46	21° 8 21'09			3695 Apr 15 23:45	30° ŖƳ	
evening set	3694 Apr 28 00:45	21° 8 03'23		inferior conj	3695 Apr 17 16:17	28° Y ′32'07	2°54'40
inferior conj	3694 May 05 17:52	16° 8 38'22	1°52'16	minimum elong	3695 Apr 17 19:38	28° Y 24'40	2°53'58
minimum elong	3694 May 05 21:24	16° 8 31'38	1°51'12	min. Earth dist.	3695 Apr 21 01:26	25° Ƴ 33'11	0.59794 AU
min. Earth dist.	3694 May 09 02:31	14° 8 06'10	0.57686 AU	morning rise	3695 Apr 24 19:34	22° Y ′48'44	
desc. node	3694 May 12 13:45	11° 8 52'50		desc. node	3695 Apr 29 10:47	21° Y '01'19	
morning rise	3694 May 13 14:52	11° 8 21'12		direct	3695 May 01 06:43	20° Y ′52'01	
direct	3694 May 19 07:53	9° 8 59'50		morning max el	3695 May 15 14:53	28° Y ′42'26	27°30'17
morning max el	3694 Jun 02 16:41	17° 8 35'07	26°32'20	morning man er	3695 May 16 21:26	0°8	2, 301,
morning max of	3694 Jun 12 23:34	0°Ⅱ	20 32 20		3695 Jun 06 18:44	0°H	
		0.2 0.П		morning set			
	3694 Jun 30 03:26			morning set	3695 Jun 16 03:31	18° Ⅱ 09'12	
morning set	3694 Jul 01 19:52	3°930'41		asc. node	3695 Jun 19 04:57	24° Ⅱ 38'16	
asc. node	3694 Jul 02 07:55	4° © 34'22			3695 Jun 21 16:07	ი _ა ფ	
				max. Earth dist.	3695 Jun 22 14:32	2° 5 03'04	1.32060 AU
superior conj	3694 Jul 08 19:44	18° 5 42'43	1°03'34				
minimum elong	3694 Jul 08 17:28	18° © 30'17	1°03'10	superior conj	3695 Jun 23 07:19	3° 5 35'30	0°41'57
max. Earth dist.	3694 Jul 09 02:42	19° 5 21'11	1.32151 AU	minimum elong	3695 Jun 23 05:35	3° 5 25'56	0°41'36
	3694 Jul 13 23:51	$0^{\circ}\Omega$		evening rise	3695 Jun 30 03:07	18° 5 28'17	
evening rise	3694 Jul 15 17:30	3° Ω 40′51		-	3695 Jul 05 19:03	$0^{\circ}\Omega$	
٥							

	3695 Jul 25 09:49	0° m/y		evening rise	3696 Jun 13 14:41	3°9518'14	
desc. node	3695 Jul 26 10:06	0 100 1°M004'47		evening rise	3696 Jun 27 23:15	0°Ω	
evening max el	3695 Jul 28 02:26	2° Mg 45'20	25°50'49	avaning may al	3696 Jul 08 16:56	13° Ω 29'04	24°23'58
•			23 30 49	evening max el desc. node	3696 Jul 12 07:05	15 δι 29 04 16° Ω 33'01	24 23 38
retrograde	3695 Aug 11 01:48	9° Mp 53'02				20°Ω29'03	
evening set	3695 Aug 17 06:22	8° Mp 21'54	0.505(0.AII	retrograde	3696 Jul 22 13:40	$19^{\circ} \Omega 35'51$	
min. Earth dist.	3695 Aug 21 14:41	5° Mp 45'13		evening set	3696 Jul 27 10:42		0.56602 ATT
inferior conj	3695 Aug 24 20:13	3° Mp 24'47		min. Earth dist.	3696 Aug 02 03:48	16° Ω 42'20	0.56693 AU
minimum elong	3695 Aug 24 23:04	3° Mp 19'34	5°02'52	inferior conj	3696 Aug 04 19:57	15° Ω 00'50	
	3695 Aug 30 04:23	30°R€		minimum elong	3696 Aug 04 17:20	15° Ω 04'59	5°04'38
morning rise	3695 Sep 01 18:01	29° Ω 01'30		morning rise	3696 Aug 13 02:36	10° Ω 58'35	
direct	3695 Sep 04 05:16	28° Ω 41'45		direct	3696 Aug 15 18:40	10° Ω 39'24	
	3695 Sep 08 23:16	0° m)		morning max el	3696 Aug 25 07:48	15° Ω 06′19	19°33'52
morning max el	3695 Sep 12 10:38	2°Mp37'24	18°38'24	asc. node	3696 Sep 01 01:12	23° Ω 26'40	
asc. node	3695 Sep 15 04:08	5° Mp 37′06			3696 Sep 04 23:55	0° ™	
morning set	3695 Sep 28 16:49	28° m/35'30		morning set	3696 Sep 11 18:39	13° m)01'25	
	3695 Sep 29 10:13	0∘ ⊽					
				superior conj	3696 Sep 19 17:56	29° Mp 01'05	1°41'59
superior conj	3695 Oct 07 10:30	15° ≏ 24'30	1°31'10	minimum elong	3696 Sep 19 19:18	29° m 07'47	1°41'57
minimum elong	3695 Oct 07 13:34	15° ≏ 38'53	1°30'54		3696 Sep 20 05:56	0∘ ⊽	
max. Earth dist.	3695 Oct 14 16:45	28° ჲ 35'30	1.39753 AU	max. Earth dist.	3696 Sep 25 20:56	10° ≙ 44'06	1.37678 AU
	3695 Oct 15 12:06	0° M ₊		evening rise	3696 Sep 29 15:05	17° ≏ 32'51	
evening rise	3695 Oct 18 19:02	5° M 37'41			3696 Oct 06 22:33	0° M	
desc. node	3695 Oct 22 09:25	11° M 35'14		desc. node	3696 Oct 08 06:25	2° M 09'11	
	3695 Nov 03 08:09	0° ∡ ¹			3696 Oct 27 16:49	0° ∡ ¹	
evening max el	3695 Nov 22 20:01	24° ∡ ¹53'10	23°59'38	evening max el	3696 Nov 04 08:17	8° ∡ ³34′00	25°15'40
	3695 Nov 29 05:46	0°ප		retrograde	3696 Nov 16 07:58	15° ∡ ¹29'23	
retrograde	3695 Dec 03 19:50	1° る 21'08		evening set	3696 Nov 22 03:25	13° ∡ 03'48	
C	3695 Dec 07 23:18	30°R. ✓		min. Earth dist.	3696 Nov 26 14:22	8° ∡ 106'21	0.67292 AU
evening set	3695 Dec 09 01:28	29° ∡ 10′18		inferior conj	3696 Nov 27 16:56	6° ∡ ¹40'00	-0°06'23
asc. node	3695 Dec 12 03:20	25° ₹ '52'43		minimum elong	3696 Nov 27 17:06	6° х 39′29	0°06'19
inferior conj	3695 Dec 14 11:59	22° ҂ ′45′08	0°47'51	transit middle	3696 Nov 27 17:06	6° х 39′29	0°06'19
minimum elong	3695 Dec 14 10:52	22° х 48′54	0°47'23	transit begin	3696 Nov 27 14:32	6° х 47'49	
min. Earth dist.	3695 Dec 13 20:13	23°×738'34	0.67814 AU	transit end	3696 Nov 27 19:39	6° х 31'09	
morning rise	3695 Dec 19 20:19	16° ₹ 40'46	0.07011110	asc. node	3696 Nov 28 00:22	6° ₹ 15'51	
direct	3695 Dec 23 19:27	15° × 11'43		morning rise	3696 Dec 03 07:02	0° ₹ 42'46	
morning max el	3695 Dec 31 19:56	19° × ⁷ 47'57	20°34'33	morning risc	3696 Dec 04 14:48	30°RM	
morning max ci	3696 Jan 09 04:54	0°る	20 3433	direct	3696 Dec 06 17:56	29°M33'56	
desc. node	3696 Jan 18 08:39	13° る 08'34		direct	3696 Dec 08 22:52	0° √ 1	
desc. Hode	3696 Jan 29 10:55	13 3 00 34 0° ≈		mamina may al		3° ∡ ¹37'27	10020125
		0 ≈ 0°≈19'32		morning max el greatest brilliancy	3696 Dec 13 23:13	21° x '3/2/	
morning set	3696 Jan 29 15:58 3696 Feb 07 20:03		1.43261 AU	greatest brilliancy	3696 Dec 27 03:52	21 x ·1103	-U. /III
max. Earth dist.	3090 Feb 07 20.03	14° ≈ 49'57	1.43201 AU	1 1-	3697 Jan 01 23:21	0 る 3°る28'34	
	2606 E. I. 14. 07. 41	25020142	2007122	desc. node	3697 Jan 04 05:40		
superior conj	3696 Feb 14 07:41	25°≈28'43		morning set	3697 Jan 07 13:29	8°る36'28 28°る36'55	1 44570 ATT
minimum elong	3696 Feb 14 06:02	25° ≈ 21'49	2 00 30	max. Earth dist.	3697 Jan 20 08:52		1.44570 AU
	3696 Feb 17 00:11	0°) {			3697 Jan 21 05:50	0° ≈	
evening rise	3696 Feb 26 13:01	16°) €31'41			2407.4	40 50120	1051146
_	3696 Mar 05 06:44	0°Υ		superior conj	3697 Jan 24 06:48	4°≈50'38	
asc. node	3696 Mar 09 02:39	6° Y ′09'21		minimum elong	3697 Jan 23 23:20	4°≈20'46	1°51'16
evening max el	3696 Mar 14 17:41	13° Y ′22′17	18°07'16	evening rise	3697 Feb 07 07:37	27°≈51'15	
retrograde	3696 Mar 21 05:53	16° ℃ 45'08			3697 Feb 08 14:20	0°) {	
evening set	3696 Mar 24 00:10	16° ℃ 07'55		asc. node	3697 Feb 23 23:40	24°) €08'26	
inferior conj	3696 Mar 30 09:00	11° Υ 01'42		evening max el	3697 Feb 26 06:18	26°) 42'43	18°20'28
minimum elong	3696 Mar 30 10:45	10° Y ′57'14	3°27'29		3697 Mar 03 05:40	0° Υ	
min. Earth dist.	3696 Apr 02 08:27	8° Y ′00'41	0.61957 AU	retrograde	3697 Mar 04 17:19	0° Υ 11'56	
morning rise	3696 Apr 05 19:48	5° Υ '02'00			3697 Mar 06 04:48	30° ₹	
direct	3696 Apr 12 16:08	2° Y '34'31		evening set	3697 Mar 07 17:22	29° ¥ 23′08	
desc. node	3696 Apr 15 07:48	2° Y ′54'52		inferior conj	3697 Mar 13 15:52	23° ¥ 58′05	3°37'47
morning max el	3696 Apr 26 19:25	10° Ƴ 32'41	27°51'35	minimum elong	3697 Mar 13 15:51	23° ¥ 58′07	3°37'46
	3696 May 12 00:06	0°8		min. Earth dist.	3697 Mar 16 00:48	21° ¥ 16′25	0.63925 AU
	3696 May 29 00:29	Π °0		morning rise	3697 Mar 19 13:30	17°) 49'48	
morning set	3696 May 30 06:19	2° Ⅱ 30′50		direct	3697 Mar 26 10:11	15°) €03'22	
max. Earth dist.	3696 Jun 04 23:38	14° Ⅱ 33'41	1.32375 AU	desc. node	3697 Apr 02 04:50	17°) 1 6′38	
asc. node	3696 Jun 05 01:58	14° ∏ 46′18		morning max el	3697 Apr 09 03:58	23°) €00′23	27°35'42
					3697 Apr 15 08:54	$0^{\circ}\Upsilon$	
superior conj	3696 Jun 06 17:14	18° Ⅱ 19'34	0°17'07		3697 May 05 06:26	0° 8	
minimum elong	3696 Jun 06 16:27	18° Ⅱ 15′15	0°16'58	morning set	3697 May 14 01:45	16° 8 26'55	
	3696 Jun 12 01:42	0 \circ \odot		max. Earth dist.	3697 May 19 01:51	26° 8 39'06	1.33126 AU

	3697 May 20 15:59	П°0		morning max el	3698 Mar 22 13:46 3698 Apr 10 01:39	5°) 54'49 0° Υ	26°47'47
superior conj	3697 May 21 23:36	2° Ⅱ 48′21	-0°10'12	morning set	3698 Apr 27 10:37	29° Y '48'12	
minimum elong	3697 May 22 00:07	2° Ⅲ 51′05	0°10'05		3698 Apr 27 13:05	0°8	
behind sun begin	3697 May 21 19:55	2° Ⅱ 28'39		max. Earth dist.	3698 May 01 17:52	8° 8 12'55	1.34342 AU
behind sun end	3697 May 22 04:19	3° Ⅱ 13'32					
asc. node	3697 May 22 22:59	4° Ⅱ 53'41		superior conj	3698 May 06 00:19	16° 8 55'53	
evening rise	3697 May 29 02:17	18° Ⅱ 03'42		minimum elong	3698 May 06 02:21	17° 8 06'32	0°38'32
	3697 Jun 03 23:44	0_{\circ} වෙ		asc. node	3698 May 09 20:02	24° 8 56'46	
evening max el	3697 Jun 20 06:26	23°953'28	22°47'10		3698 May 12 05:38	0° Π	
desc. node	3697 Jun 29 04:05	29°5546'13		evening rise	3698 May 13 12:06	2° ∏ 39'14	
. 1	3697 Jun 29 22:08	0° N		·	3698 May 29 02:30	0°95	21015127
retrograde	3697 Jul 03 12:58 3697 Jul 06 21:31	0° Ω 29'58 0° Ω 05'15		evening max el	3698 Jun 02 02:52	4° © 31'46 10° © 24'32	21°15'27
evening set	3697 Jul 00 21.31 3697 Jul 07 05:51	30°RS		retrograde evening set	3698 Jun 14 02:25 3698 Jun 16 09:33	10 \$24 32 10°\$12'22	
min. Earth dist.	3697 Jul 14 14:49	26°\$40'48	0.55347 AU	desc. node	3698 Jun 16 01:06	10°9515'46	
inferior conj	3697 Jul 16 00:44	25°952'07		inferior conj	3698 Jun 25 18:40	6°9513'47	-2°47'12
minimum elong	3697 Jul 15 17:00	26° © 03'15		minimum elong	3698 Jun 25 11:14	6°924'12	2°44'47
morning rise	3697 Jul 24 14:42	22° © 00'53		min. Earth dist.	3698 Jun 26 02:04	6°503'24	0.54840 AU
direct	3697 Jul 27 13:44	21° 5 640'29		morning rise	3698 Jul 04 13:21	2° © 16'23	
morning max el	3697 Aug 07 17:18	26° © 51'13	20°50'39	direct	3698 Jul 07 23:33	1° © 51'00	
	3697 Aug 10 17:27	$0^{\circ}\Omega$		morning max el	3698 Jul 20 15:35	7° © 51'53	22°25'05
asc. node	3697 Aug 18 22:15	12° Ω 00′02			3698 Aug 05 05:10	$0^{\circ}\Omega$	
morning set	3697 Aug 27 01:47	27° Ω 42'45		asc. node	3698 Aug 05 19:17	1° Ω 06′31	
	3697 Aug 28 04:20	0° т р		morning set	3698 Aug 11 12:06	12° Ω 33'18	
superior conj	3697 Sep 03 12:48	13° m 11'29	1°44'25	superior conj	3698 Aug 18 15:31	27° Ω 44'49	1°39'53
minimum elong	3697 Sep 03 12:34	13°M/10'17	1°44'25	minimum elong	3698 Aug 18 14:05	27° Ω 37'15	1°39'48
max. Earth dist.	3697 Sep 08 05:04	22°M 35'25	1.35789 AU		3698 Aug 19 17:08	0° ™	
evening rise	3697 Sep 12 06:55	0° £ 23'54		max. Earth dist.	3698 Aug 21 21:40	4° ₩ 33'46	1.34244 AU
	3697 Sep 12 01:48	0∘ ত		evening rise	3698 Aug 26 14:03	13° m 58'28	
desc. node	3697 Sep 25 03:26	22° Ω 29'49			3698 Sep 04 07:30	0∘ ⊽	
	3697 Sep 30 01:33	0°M	26020126	desc. node	3698 Sep 12 00:27	12° Ω 30'17	
evening max el	3697 Oct 17 20:42 3697 Oct 30 15:07	22°M15'31 29°M27'00	26°20'26	evening max el	3698 Sep 24 22:23	0° ጤ 5° ጤ 49'05	27°06'17
retrograde evening set	3697 Nov 06 00:01	26°M50'21		retrograde	3698 Sep 30 09:21 3698 Oct 13 16:32	13°M06'20	27 00 17
min. Earth dist.	3697 Nov 10 03:56	20°M28'19	0.66426 AU	evening set	3698 Oct 20 13:00	10°M24'42	
inferior conj	3697 Nov 11 17:45	20°M32'48		min. Earth dist.	3698 Oct 24 10:26	6°M38'31	0.65214 AU
minimum elong	3697 Nov 11 19:30	20°M27'27		inferior conj	3698 Oct 26 12:14	4°M18'24	
asc. node	3697 Nov 14 21:26	16°M57'04		minimum elong	3698 Oct 26 15:44	4°M08'32	
morning rise	3697 Nov 17 15:32	14°M45'17		C	3698 Oct 30 19:33	30° ŖΩ	
direct	3697 Nov 20 16:17	13°M53'09		morning rise	3698 Nov 01 19:24	28° ≏ 43'42	
morning max el	3697 Nov 27 09:22	17°M34'34	18°40'06	asc. node	3698 Nov 01 18:30	28° ≏ 44'47	
	3697 Dec 06 19:17	0° ∡ ″		direct	3698 Nov 04 12:18	28° ჲ 04'26	
morning set	3697 Dec 18 06:58	17° ∡ 58′52			3698 Nov 09 06:15	0° M	
desc. node	3697 Dec 22 02:41	24° ₹ 01'25		morning max el	3698 Nov 11 00:09	1°M33'24	18°07'12
	3697 Dec 25 21:42	0°る		morning set	3698 Nov 29 05:55	28°M49'54	
	2600 1 02 11 24		1015155		3698 Nov 29 22:56	0° √	
superior conj	3698 Jan 03 11:34	13°る28'11 12°る53'25		desc. node	3698 Dec 08 23:43	14° ∡ °42'36	
minimum elong	3698 Jan 03 02:42			aumariar aani	2600 Dec. 12 16:20	220.712107	0021147
max. Earth dist.	3698 Jan 03 02:23 3698 Jan 13 23:11	12°る52'09 0°≈	1.45204 AU	superior conj minimum elong	3698 Dec 13 16:38 3698 Dec 13 12:38	22° 尽 13'07 21° 尽 57'16	-0°31'47 0°31'13
evening rise	3698 Jan 19 03:04	0 ∞ 8°≈13'30		max. Earth dist.	3698 Dec 16 21:57	27° 🖈 18'29	1.45097 AU
greatest brilliancy	3698 Jan 27 01:09	20°≈53'31	-0.9m	max. Lartii dist.	3698 Dec 18 15:04	0° る	1.430)// 110
greatest similare)	3698 Feb 01 22:02	0°) €	0.5111	evening rise	3698 Dec 30 00:59	17° る 46'25	
evening max el	3698 Feb 09 17:07	10°) 10′49	18°51'41		3699 Jan 06 23:03	0° ≈	
asc. node	3698 Feb 10 20:43	11°) 16′52		greatest brilliancy	3699 Jan 12 00:08	7° ≈ 40'02	-0.7m
retrograde	3698 Feb 16 11:14	13° ¥ 58′01		evening max el	3699 Jan 23 23:59	23° ≈ 41'50	19°39'30
evening set	3698 Feb 19 17:38	12°) 56′38		asc. node	3699 Jan 28 17:46	27° ≈ 20′15	
inferior conj	3698 Feb 25 09:04	7° ∺ 14'23	3°30'45	retrograde	3699 Jan 31 08:27	27° ≈ 56'59	
minimum elong	3698 Feb 25 07:41	7°) (18′41	3°30'37	evening set	3699 Feb 03 22:21	26° ≈ 41'59	
min. Earth dist.	3698 Feb 27 02:22	5° ₩ 06'19	0.65544 AU	inferior conj	3699 Feb 09 09:23	20° ≈ 44'38	3°10'46
morning rise	3698 Mar 02 21:19	1°) €02'10		minimum elong	3699 Feb 09 07:10	20°≈51'55	3°10'21
	3698 Mar 04 04:46	30°R≈		min. Earth dist.	3699 Feb 10 11:54	19°≈17'07	0.66745 AU
direct	3698 Mar 09 11:13	28°≈11'11		morning rise	3699 Feb 14 15:45	14°≈31'01	
desa nodo	3698 Mar 15 07:29	0° ₩ 3° ₩ 32'32		direct	3699 Feb 20 18:02	11°≈48'02	25026115
desc. node	3698 Mar 20 01:53	э дэгэг		morning max el	3699 Mar 04 23:01	19° ≈ 04'30	45 30 13

morning rise	3701 Jan 14 01:02	12° ろ 02'08		direct	3702 Jan 02 18:04	24° ∡ 16'38	
direct	3701 Jan 18 22:18	9° る 57'20		morning max el	3702 Jan 11 08:44	29° ∡ 17'05	21°18'03
morning max el	3701 Jan 28 17:43	15° る 45'28	22°42'01		3702 Jan 12 01:27	8°0	
desc. node	3701 Feb 08 17:01	29° る 06'28		desc. node	3702 Jan 26 14:03	18° る 55'22	
	3701 Feb 09 08:42	0° ≈			3702 Feb 03 01:39	0° ≈	
	3701 Mar 01 08:40	0°) €		morning set	3702 Feb 11 11:20	12° ≈ 58′28	
morning set	3701 Mar 03 21:05	4° ₩ 06'15		max. Earth dist.	3702 Feb 18 16:06	24° ≈ 33'12	1.42254 AU
max. Earth dist.	3701 Mar 08 15:00	12°) €03'34	1.40204 AU		3702 Feb 21 22:55	0° ∀	
superior conj	3701 Mar 16 09:43	25° ¥ 45'54	1055!20	superior conj	3702 Feb 26 00:57	6°) € 56'04	2006/27
minimum elong	3701 Mar 16 03:43	26°\(\frac{1}{45}\)34		minimum elong	3702 Feb 26 02:18	7° ₩ 01'52	
minimum ciong	3701 Mar 18 17:12	0°Υ	1 33 01	evening rise	3702 Mar 09 07:35	26°) 57'05	2 00 33
evening rise	3701 Mar 26 07:12	14°Υ15'56		evening rise	3702 Mar 10 23:58	0°Υ	
asc. node	3701 Mar 31 11:09	23° Y 54'57		asc. node	3702 Mar 18 08:10	12° Υ 51'33	
	3701 Apr 03 22:46	0°8		evening max el	3702 Mar 25 21:37	23° Y 08'45	18°08'15
evening max el	3701 Apr 11 11:19	10° 8 12'01	18°25'08	retrograde	3702 Apr 01 14:40	26° Ƴ 33'27	
retrograde	3701 Apr 18 21:52	13° 8 52'50		evening set	3702 Apr 04 05:42	26° Y 02′26	
evening set	3701 Apr 21 06:30	13° 8 31'40		inferior conj	3702 Apr 10 22:15	21° Y 08'01	3°11'50
inferior conj	3701 Apr 28 15:34	8° 8 58'03	2°22'40	minimum elong	3702 Apr 11 01:00	21° Y 01'30	3°11'22
minimum elong	3701 Apr 28 19:17	8° 8 50'27	2°21'40	min. Earth dist.	3702 Apr 14 04:20	18° Ƴ 05′03	0.60733 AU
min. Earth dist.	3701 May 02 02:10	6° 8 11'10	0.58554 AU	morning rise	3702 Apr 17 18:13	15° Y 16'43	
morning rise	3701 May 06 05:03	3° 8 28'06		direct	3702 Apr 24 10:41	13° Y 05'27	
desc. node	3701 May 07 16:10	2° 8 47'27		desc. node	3702 Apr 24 13:12	13° Y 05′29	
direct	3701 May 12 06:39	1° 8 51'34		morning max el	3702 May 08 16:58	21° Y 00'12	27°43'49
morning max el	3701 May 26 16:06	9° 8 35'18	27°01'03		3702 May 16 11:57	0°8	
	3701 Jun 11 06:45	0° Ⅱ			3702 Jun 04 05:31	$\Pi^{\circ}0$	
morning set	3701 Jun 25 20:49	27° Ⅱ 06'37		morning set	3702 Jun 10 02:40	11° Ⅲ 38'45	
asc. node	3701 Jun 27 10:26	0°\$25'50		asc. node	3702 Jun 14 07:28	20° Ⅲ 32'09	
	3701 Jun 27 05:36	0∘ ©		max. Earth dist.	3702 Jun 16 05:47	24°Щ43'57	1.32144 AU
superior conj	3701 Jul 02 21:58	12° © 23'31	0°54'49	superior conj	3702 Jun 17 09:05	27° Ⅱ 13'38	0°31'46
minimum elong	3701 Jul 02 19:53	12° © 12'01	0°54'26	minimum elong	3702 Jun 17 07:42	27° I I06'02	0°31'29
max. Earth dist.	3701 Jul 02 18:48	12° © 06'00	1.32060 AU		3702 Jun 18 15:22	0 \circ \odot	
evening rise	3701 Jul 09 18:26	27° © 17'41		evening rise	3702 Jun 24 05:08	12° © 07'13	
	3701 Jul 11 01:27	0 ° Ω			3702 Jul 03 06:16	$0^{\circ}\Omega$	
	3701 Jul 27 23:42	0° ™		evening max el	3702 Jul 20 23:47	24° Ω 43'53	25°16'10
desc. node	3701 Aug 03 15:30	8° Mp 43'57		desc. node	3702 Jul 21 12:28	25° Ω 13'45	
evening max el	3701 Aug 08 05:34	13°Mp35'58	26°30'23		3702 Jul 28 01:46	0° m	
retrograde	3701 Aug 22 04:45	20° Mp 46'37		retrograde	3702 Aug 03 23:08	1° Mp 49'02	
evening set	3701 Aug 28 21:16	18° m 54'28	0.50545.444	evening set	3702 Aug 09 15:25	0° m/34'43	
min. Earth dist.	3701 Sep 01 19:06	16° Mp 18'55			3702 Aug 10 21:21	30°R€	0.55505.433
inferior conj	3701 Sep 05 01:40	13° Mp 44'11		min. Earth dist.	3702 Aug 14 11:36		0.57725 AU
minimum elong	3701 Sep 05 06:27	13° mp 34'43 9° mp 07'38	4°46'10	inferior conj minimum elong	3702 Aug 17 13:10	25° Ω 47'01 25° Ω 45'38	
morning rise direct	3701 Sep 12 17:43 3701 Sep 15 03:03	9 11/07 38 8° 11/04 7'04		morning rise	3702 Aug 17 13:58 3702 Aug 25 14:53	23 δ (43 38 21° Ω 32'56	3 0841
morning max el	3701 Sep 13 03:03	12° Mp 30'44	18°16'21	direct	3702 Aug 28 03:51	21° Ω 13'35	
asc. node	3701 Sep 22 16:30 3701 Sep 23 09:38	13°M)07'41	10 1021	morning max el	3702 Sep 05 21:46	25° Ω 21'28	18°59'19
use. Houe	3701 Sep 23 03:36 3701 Oct 04 12:35	0° ت		morning max er	3702 Sep 09 22:54	0° m	10 37 17
morning set	3701 Oct 08 16:20	ი — 7° ჲ 47'35		asc. node	3702 Sep 10 06:41	0° m/26'23	
				morning set	3702 Sep 22 14:01	22° m 01'54	
superior conj	3701 Oct 18 00:07	25° Ω 16'04	1°20'28	Č	3702 Sep 26 14:46	0 ° $\overline{\mathbf{v}}$	
minimum elong	3701 Oct 18 03:58	25° ჲ 33'35			•		
-	3701 Oct 20 15:08	0°M		superior conj	3702 Sep 30 22:59	8° ₽ 27'19	1°36'53
max. Earth dist.	3701 Oct 25 14:08	8°M38'31	1.40931 AU	minimum elong	3702 Oct 01 01:20	8° ₽ 38'38	1°36'44
evening rise	3701 Oct 30 08:22	16°M35'26		max. Earth dist.	3702 Oct 07 18:57	21° ഫ 08'38	1.38860 AU
desc. node	3701 Oct 30 14:50	17° M 01'50		evening rise	3702 Oct 11 15:28	27° ≏ 55'12	
	3701 Nov 07 19:55	0°⊀			3702 Oct 12 20:38	0° M	
	3701 Nov 29 12:46	0° ප		desc. node	3702 Oct 17 11:50	7° M 41'34	
evening max el	3701 Dec 03 13:06		23°13'53		3702 Nov 01 07:43	0° ∡ ″	
retrograde	3701 Dec 13 22:06	10° る 31'43		evening max el	3702 Nov 16 02:11	18° ∡ °03′10	24°33'01
evening set	3701 Dec 18 19:54	8° る 30'24		retrograde	3702 Nov 27 12:38	24° ∡ ¹43'37	
asc. node	3701 Dec 20 08:51	7°る01'24	101647	evening set	3702 Dec 03 00:04	22°×726'29	
inferior conj	3701 Dec 24 05:15	2°る06'22	1°16'47	asc. node	3702 Dec 07 05:52	17° 🗷 40'53	0.67622 : **
minimum elong	3701 Dec 24 03:34	2°る12'08	1°16'07	min. Earth dist.	3702 Dec 07 15:30	17° × 709'04	0.67632 AU
min. Earth dist.	3701 Dec 23 19:42	2° る 39'12	0.67948 AU	inferior conj	3702 Dec 08 11:44	16° √ 01'33	0°25'27
morning rise	3701 Dec 25 18:35 3701 Dec 29 11:09	30°R. ₹ 25° ₹ 58'39		minimum elong morning rise	3702 Dec 08 11:07 3702 Dec 13 22:15	16° ₹ 03'36 9° ₹ 59'45	0°25'11
morning rise	3701 DCC 29 11.09	43 X 30 39		morning rise	3702 Dec 13 22.13	2 X 3743	

morning rise direct morning max el	3704 Nov 11 15:10 3704 Nov 14 12:14 3704 Nov 21 02:18	8°M03'15 7°M17'09 10°M52'02	18°24'03	min. Earth dist. inferior conj minimum elong	3705 Oct 17 21:28 3705 Oct 20 04:36 3705 Oct 20 08:49	29° £ 55'19 27° £ 26'20 27° £ 14'54	
morning set	3704 Dec 04 15:44 3704 Dec 10 17:29	0° ҂ 9° ҂ 45'30		morning rise asc. node	3705 Oct 26 16:12 3705 Oct 27 21:04	21° £ 58'17 21° £ 33'35	
desc. node	3704 Dec 17 05:09 3704 Dec 23 10:34	20°♬08'38 0°궁		direct morning max el	3705 Oct 29 06:22 3705 Nov 04 18:16	21° £ 23'31 24° £ 50'10	17°58'23
superior conj minimum elong	3704 Dec 26 06:29 3704 Dec 25 23:10	4° ට 27'02 3°ට58'19		morning set	3705 Nov 09 00:29 3705 Nov 22 04:25 3705 Nov 27 10:50	0° ጤ 21° ጤ 11'27 0° ኦ 7	
max. Earth dist.	3704 Dec 27 11:46 3705 Jan 11 08:50	6°る21'58 29°る42'42	1.45242 AU	desc. node	3705 Dec 04 02:11	10° ₹ 52'21	
C	3705 Jan 11 13:13	0° ≈		superior conj	3705 Dec 05 18:10	13° ∡ ³33′21	
greatest brilliancy	3705 Jan 21 16:13 3705 Jan 31 11:11	15°≈53'03 0°) €	-0.8m	minimum elong behind sun begin	3705 Dec 05 16:47 3705 Dec 05 09:13	13° х 27'49 12° х 57'25	0°11'14
evening max el	3705 Feb 03 07:36	3°) 16'01	19°10'09	behind sun end	3705 Dec 06 00:21	13° x 58'11	
asc. node	3705 Feb 05 23:16	5°) 36′01		max. Earth dist.	3705 Dec 10 06:33	20° х 44'57	1.44820 AU
retrograde	3705 Feb 10 07:11	7°) 14'31			3705 Dec 16 04:09	0°ප	
evening set	3705 Feb 13 16:31	6°) €07'33	2022142	evening rise	3705 Dec 21 23:58	9° ට 01'02	
inferior conj minimum elong	3705 Feb 19 05:45 3705 Feb 19 03:57	0° 		greatest brilliancy	3706 Jan 04 19:50 3706 Jan 05 10:51	0° ≈ 0° ≈ 55'22	-0.6m
minimum clong	3705 Feb 19 03:37	0	3 23 21	evening max el	3706 Jan 17 12:18	0 ≈33 22 16°≈47'27	20°04'25
min. Earth dist.	3705 Feb 20 16:36	28° ≈ 27'04	0.66094 AU	asc. node	3706 Jan 23 20:19	21° ≈ 07'11	
morning rise	3705 Feb 24 15:04	24° ≈ 05′07		retrograde	3706 Jan 25 05:03	21° ≈ 17′18	
direct	3705 Mar 03 00:19	21° ≈ 16′14		evening set	3706 Jan 28 22:27	19° ≈ 56′25	
desc. node	3705 Mar 15 04:21	28°≈14'47	26010150	inferior conj	3706 Feb 03 08:18	13°≈53'33	2°59'08
morning max el	3705 Mar 15 18:53 3705 Mar 16 21:35	28°≈50'59 0°) €	26°19'50	minimum elong min. Earth dist.	3706 Feb 03 05:54 3706 Feb 04 05:05	14°≈01'37 12°≈43'37	2°58'35 0.67124 AU
	3705 Apr 07 20:41	0°Υ		morning rise	3706 Feb 08 13:06	7°≈39'40	0.0/124 AO
morning set	3705 Apr 20 21:18	22° Y '36'54		direct	3706 Feb 14 09:36	5° ≈ 02'40	
	3705 Apr 24 17:55	9° 8		morning max el	3706 Feb 26 03:37	12° ≈ 04'06	25°01'01
max. Earth dist.	3705 Apr 24 22:24	0° 8 21'56	1.34992 AU	desc. node	3706 Mar 02 01:23	16° ≈ 20'05	
	2705 A 20 10:22	100 00115	0051112		3706 Mar 12 13:17	0° ∀ 0° Ƴ	
superior conj minimum elong	3705 Apr 29 19:33 3705 Apr 29 22:16	10° 8 09'15		morning set	3706 Mar 31 14:21 3706 Apr 03 07:18	0° γ 4° Υ 45'49	
asc. node	3705 May 04 22:34	20° 8 46'48	0 00 15	max. Earth dist.	3706 Apr 06 22:34	11° Y ′22'36	1.36826 AU
evening rise	3705 May 07 12:32	26° 8 08'33			•		
	3705 May 09 09:47	Π °0		superior conj	3706 Apr 13 07:20	23° Y ′32'20	
evening max el	3705 May 26 05:34	26° ∏ 34'32	20°40'43	minimum elong	3706 Apr 13 11:27	23° Y ′52'31	1°18'44
ratra ara da	3705 May 30 13:23	0°50		ovenina rice	3706 Apr 16 13:23	0° 8	
retrograde evening set	3705 Jun 06 12:41 3705 Jun 08 14:09	2° © 05'33 1° © 55'15		evening rise asc. node	3706 Apr 21 15:56 3706 Apr 21 19:36	10° 8 17'34 10° 8 35'57	
desc. node	3705 Jun 11 03:33	1°5015'58		ase. Hode	3706 May 02 09:30	0°Ⅱ	
	3705 Jun 14 03:11	30°R∏		evening max el	3706 May 08 18:52	8° Ⅱ 06'35	19°32'18
inferior conj	3705 Jun 17 20:43	27° I 57'50	-1°58'03	retrograde	3706 May 18 08:01	12° ∏ 44'52	
minimum elong	3705 Jun 17 15:12	28° ∏ 05'45		evening set	3706 May 20 07:38	12° Ⅲ 33'45	
min. Earth dist. morning rise	3705 Jun 18 21:54 3705 Jun 26 15:38	27° Ⅱ 21'42 23° Ⅱ 51'25	0.54916 AU	inferior conj	3706 May 28 23:31 3706 May 28 23:33	8° П 29'10 8° П 29'07	0°00'47 0°00'46
direct	3705 Jun 30 08:12	23° II 22'03		minimum elong transit middle	3706 May 28 23:33	8° П 29'07	0°00'46
morning max el	3705 Jul 13 13:25	29° ∏ 44'10	23°08'33	transit begin	3706 May 28 19:39	8° П 35'20	0 00 10
S	3705 Jul 13 20:08	0°€		transit end	3706 May 29 03:27	8° Ⅲ 22'53	
asc. node	3705 Jul 31 21:51	26° © 42'34		desc. node	3706 May 29 00:34	8° Ⅱ 27'29	
	3705 Aug 02 13:40	$0^{\circ}\Omega$		min. Earth dist.	3706 May 31 11:52	6° Ⅱ 53'17	0.55769 AU
morning set	3705 Aug 05 14:18	6° Ω 14'48		morning rise	3706 Jun 06 12:46	3° ∏ 51'34	
superior conj	3705 Aug 12 15:41	21° Ω 22'19	1°36'09	direct morning max el	3706 Jun 11 02:35 3706 Jun 25 03:29	3° Ⅱ 04'28 10° Ⅱ 08'32	24°51'02
minimum elong	3705 Aug 12 13:54	21° Ω 12'45		morning max er	3706 Jul 10 01:35	0°95	213102
max. Earth dist.	3705 Aug 15 08:19	27° Ω 05′18	1.33708 AU	asc. node	3706 Jul 18 18:52	16° 5 21'24	
	3705 Aug 16 17:48	0° m		morning set	3706 Jul 21 02:04	21° © 08'59	
evening rise	3705 Aug 20 07:47	7° Mp 16'07			3706 Jul 25 04:35	0 ° Ω	
daga nada	3705 Sep. 07 02:52	0° 亞		gunariar cor:	3706 Jul 28 01:01	6° Ω 14'00	1°23'38
desc. node evening max el	3705 Sep 07 02:52 3705 Sep 23 15:04	8° £ 12'49 28° £ 49'35	27°18'14	superior conj minimum elong	3706 Jul 28 01:01 3706 Jul 27 22:44	6° Ω 01'32	1°23'38 1°23'20
	3705 Sep 24 21:35	0°M	y	max. Earth dist.	3706 Jul 29 12:57	9° Ω 29'30	1.32749 AU
retrograde	3705 Oct 07 02:26	6° ™ 08'07		evening rise	3706 Aug 04 05:57	21° Ω 33'46	
evening set	3705 Oct 14 02:36	3°M26'47			3706 Aug 08 11:54	0° m	
	3705 Oct 17 19:41	30°Ŗ ჲ		desc. node	3706 Aug 24 23:54	27° m) 28'27	

	3706 Aug 26 19:56	0∘ ত		evening max el	3707 Aug 19 06:41	24° m 12'48	27°00'02
evening max el	3706 Sep 06 01:15	0 — 11° Ω 50'23	27°25'31	evening max er	3707 Aug 27 07:35	2+ n y 12 +0 0° Ω	27 00 02
retrograde	3706 Sep 19 18:59	19° £ 06'12	2, 2331	retrograde	3707 Sep 02 03:58	° - 1° - 24'30	
evening set	3706 Sep 26 23:36	16° £ 34'15		renograde	3707 Sep 07 19:21	30°R.M⊅	
min. Earth dist.	3706 Sep 30 14:36	13° ჲ 33'21	0.62895 AU	evening set	3707 Sep 09 04:30	29° m) 14'17	
inferior conj	3706 Oct 03 09:32	10° £ 51'12		min. Earth dist.	3707 Sep 12 20:57	26° m 34'06	0.60944 AU
minimum elong	3706 Oct 03 15:06	10° £ 37'40	3°28'54	inferior conj	3707 Sep 16 01:06	23° m 51'51	
morning rise	3706 Oct 10 08:07	5° £ 40'32		minimum elong	3707 Sep 16 06:48	23°m/39'38	4°21'49
direct	3706 Oct 12 18:06	5° £ 13′29		morning rise	3707 Sep 23 10:57	19° m 02'03	
asc. node	3706 Oct 14 18:07	5° £ 32'31		direct	3707 Sep 25 19:46	18° m 39'41	
morning max el	3706 Oct 19 10:39	8° ≏ 39'56	17°50'24	asc. node	3707 Oct 01 15:08	21°Mp00'14	
	3706 Nov 02 11:56	0° M		morning max el	3707 Oct 03 00:24	22° m 14'04	18°01'08
morning set	3706 Nov 04 15:08	3°M45'56			3707 Oct 09 00:50	0° ت	
				morning set	3707 Oct 18 19:15	17° ≏ 10′02	
superior conj	3706 Nov 16 05:51	23°M50'57	0°32'24		3707 Oct 25 19:01	0° M	
minimum elong	3706 Nov 16 08:55	24°ML03'46	0°31'59				
	3706 Nov 19 22:54	0° ∡ ¹		superior conj	3707 Oct 28 20:07	5°M26'21	1°06'10
desc. node	3706 Nov 20 23:12	1° ∡ ³39'19		minimum elong	3707 Oct 29 00:20	5° M 44'59	1°05'39
max. Earth dist.	3706 Nov 22 23:03	4° ₹ 53'13	1.43717 AU	max. Earth dist.	3707 Nov 05 11:00	18°M30'19	1.42064 AU
evening rise	3706 Dec 01 09:33	18° ∡ 12'04		desc. node	3707 Nov 07 20:14	22°M26'16	
	3706 Dec 09 03:27	0°ರ		evening rise	3707 Nov 11 05:45	27°M55'19	
	3706 Dec 31 03:46	0° ≈			3707 Nov 12 13:10	0° ∡ ¹	
evening max el	3706 Dec 31 11:33	0° ≈ 20'05	21°11'39		3707 Dec 02 20:34	0°ප	
retrograde	3707 Jan 09 02:47	5° ≈ 27'09		evening max el	3707 Dec 14 05:32	13° る 54'15	22°27'52
asc. node	3707 Jan 10 17:21	5° ≈ 13'02		retrograde	3707 Dec 23 22:47	19° る 40'52	
evening set	3707 Jan 13 05:59	3° ≈ 51'04		evening set	3707 Dec 28 13:28	17° る 48'39	
	3707 Jan 16 20:11	30°R₹		asc. node	3707 Dec 28 14:22	17° る 46'46	
inferior conj	3707 Jan 18 14:23	27° ප 37'16	2°25'16	inferior conj	3708 Jan 02 22:03	11° る 27'13	1°43'42
minimum elong	3707 Jan 18 11:54	27°る45'50	2°24'30	minimum elong	3708 Jan 02 19:58	11° る 34'29	1°42'55
min. Earth dist.	3707 Jan 18 22:32	27° る 09'09	0.67749 AU	min. Earth dist.	3708 Jan 02 18:42	11° る 38'51	0.67986 AU
morning rise	3707 Jan 23 17:39	21° පි 24'36		morning rise	3708 Jan 08 02:20	5°る17'21	
direct	3707 Jan 28 23:36	19° る 06'52		direct	3708 Jan 12 17:26	3° る 22'19	
morning max el	3707 Feb 08 12:12	25° る 22'41	23°32'56	morning max el	3708 Jan 21 23:58	8° る 48'52	22°05'13
	3707 Feb 12 16:51	0° ≈		desc. node	3708 Feb 03 19:28	24°₹48'34	
desc. node	3707 Feb 16 22:26	5° ≈ 16′04			3708 Feb 07 10:57	0° ≈	
	3707 Mar 06 01:53	0° ∀		morning set	3708 Feb 24 00:28	25° ≈ 20'42	
morning set	3707 Mar 15 18:03	15°) 44'12			3708 Feb 26 21:04	0° ∀	
max. Earth dist.	3707 Mar 19 17:35	22°) 36′10	1.38953 AU	max. Earth dist.	3708 Feb 29 15:30	4°) 35′49	1.41114 AU
	3707 Mar 23 20:53	0 ° $\mathbf{\Upsilon}$					
				superior conj	3708 Mar 08 09:38	17° ¥ 58'49	-2°01'38
superior conj	3707 Mar 27 05:37	6° Ƴ 12'45	-1°44'05	minimum elong	3708 Mar 08 13:01	18° ∺ 13'50	2°01'28
minimum elong	3707 Mar 27 10:17	6° Ƴ 34'38	1°43'35		3708 Mar 15 00:41	0 ° Υ	
evening rise	3707 Apr 05 11:37	23° Y 59'06		evening rise	3708 Mar 18 20:12	7° Ƴ 04'53	
asc. node	3707 Apr 08 16:38	0° 8 09'29		asc. node	3708 Mar 25 13:39	19° Ƴ 21'21	
	3707 Apr 08 14:38	0°8			3708 Apr 01 10:44	0°8	
evening max el	3707 Apr 21 18:49	20° 8 17'40	18°43'52	evening max el	3708 Apr 04 02:13	2° 8 59'35	18°15'31
retrograde	3707 Apr 29 20:28	24° 8 14'47		retrograde	3708 Apr 11 03:56	6° 8 31'53	
evening set	3707 May 02 01:27	23° 8 58'08		evening set	3708 Apr 13 15:21	6° 8 06'42	
inferior conj	3707 May 09 21:29	19° 8 35'56	1°40'00	inferior conj	3708 Apr 20 16:52	1° 8 23'51	2°47'15
minimum elong	3707 May 10 00:48	19° 8 29'44	1°38'57	minimum elong	3708 Apr 20 20:22	1° 8 16'13	2°46'27
min. Earth dist.	3707 May 13 04:42	17° 8 09'53	0.57392 AU		3708 Apr 22 07:10	30° ŖƳ	
desc. node	3707 May 15 21:35	15° 8 24'38		min. Earth dist.	3708 Apr 24 02:44	28° Y 27'13	0.59464 AU
morning rise	3707 May 17 20:58	14° 8 23'36		morning rise	3708 Apr 27 22:45	25° Ƴ 43'32	
direct	3707 May 23 10:35	13° 8 07'28		desc. node	3708 May 01 18:38	24° Ƴ 09'46	
morning max el	3707 Jun 06 19:04	20° 8 39'25	26°21'05	direct	3708 May 04 07:37	23° Y 52'03	
	3707 Jun 14 20:25	$\Pi^{\circ}0$			3708 May 16 21:20	9° 8	
	3707 Jul 02 15:21	0 \circ \odot		morning max el	3708 May 18 16:24	1° 8 41'07	27°23'58
morning set	3707 Jul 05 12:56	5° © 59'39			3708 Jun 08 02:36	$\Pi^{\circ}0$	
asc. node	3707 Jul 05 15:54	6°515'18		morning set	3708 Jun 18 21:08	20° Ⅱ 40′04	
				asc. node	3708 Jun 21 12:55	26° Ⅱ 18′06	
superior conj	3707 Jul 12 12:27	21° 5 10'09	1°06'31		3708 Jun 23 05:54	0°9	
minimum elong	3707 Jul 12 10:09	20° © 57'30	1°06'08	max. Earth dist.	3708 Jun 25 10:58	4° 9 51'02	1.32043 AU
max. Earth dist.	3707 Jul 12 23:07	22° © 08'58	1.32198 AU				
	3707 Jul 16 13:18	$0^{\circ}\Omega$		superior conj	3708 Jun 26 00:08	6° © 03'33	0°45'28
evening rise	3707 Jul 19 10:51	6° Ω 10′14		minimum elong	3708 Jun 25 22:17	5° © 53'24	0°45'05
	3707 Aug 01 01:32	0° m		evening rise	3708 Jul 02 19:59	20° © 56'25	
desc. node	3707 Aug 11 20:54	15° m 56'36			3708 Jul 07 05:48	$0^{\circ}\Omega$	

	3708 Jul 25 21:15	0° m)		evening max el	3709 Jul 12 20:10	16° Ω 35'17	24°37'57
desc. node	3708 Jul 28 17:54	3°M) 16'45		desc. node	3709 Jul 15 14:54	19° Ω 01'51	24 3/3/
evening max el	3708 Jul 31 04:54	5° m) 46'33	26°01'56	retrograde	3709 Jul 26 18:01	23° Ω 37'14	
retrograde	3708 Aug 14 04:16	12° m 55'13	20 01 30	evening set	3709 Jul 31 20:15	22° Ω 38'47	
evening set	3708 Aug 20 12:27	11° m) 18'16		min. Earth dist.	3709 Aug 06 07:21	19° Ω 48'39	0.56943 AU
min. Earth dist.	3708 Aug 24 17:23	8° m 42'36	0.58873 AU	inferior conj	3709 Aug 09 02:27	18°Ω00'23	
inferior conj	3708 Aug 27 23:40	6° Mp 17'43		minimum elong	3709 Aug 09 00:46	18° Ω 03'07	
minimum elong	3708 Aug 28 03:09	6° Mp 11'15		morning rise	3709 Aug 17 07:53	13° Ω 55'18	0 0/1.
morning rise	3708 Sep 04 20:04	1° mp 51'07		direct	3709 Aug 19 22:59	13° Ω 36′11	
direct	3708 Sep 07 06:43	1° mp 31'13		morning max el	3709 Aug 29 07:01	17° Ω 57'54	19°24'15
morning max el	3708 Sep 15 08:16	5° m 23'17	18°32'00	asc. node	3709 Sep 04 09:13	25° Ω 24'01	
asc. node	3708 Sep 17 12:10	7° m) 42'26			3709 Sep 07 06:32	0° m)	
	3708 Sep 30 21:22	0∘ <u>⊽</u>		morning set	3709 Sep 15 12:28	15° m 31'40	
morning set	3708 Oct 01 11:37	1° ≏ 08'42		C	3709 Sep 22 18:12	0∘ <u>⊽</u>	
					•		
superior conj	3708 Oct 10 08:41	18° ≏ 07'09	1°28'41	superior conj	3709 Sep 23 14:04	1° ≏ 37'30	1°40'56
minimum elong	3708 Oct 10 11:59	18° ≏ 22'29	1°28'22	minimum elong	3709 Sep 23 15:41	1° ≏ 45'27	1°40'51
	3708 Oct 16 22:22	0° M		max. Earth dist.	3709 Sep 29 21:41	13° ≏ 37'10	1.37978 AU
max. Earth dist.	3708 Oct 17 17:38	1° M 24'10	1.40063 AU	evening rise	3709 Oct 03 15:56	20° ₽ 23'04	
evening rise	3708 Oct 21 23:09	8° ጤ 36'49			3709 Oct 09 07:08	0° M	
desc. node	3708 Oct 24 17:14	13° M ∙09′29		desc. node	3709 Oct 11 14:14	3° M 44'59	
	3708 Nov 04 13:27	0° ∡ ¹			3709 Oct 29 14:53	0° ∡ ¹	
evening max el	3708 Nov 25 19:40	27° ∡ ³31′21	23°47'51	evening max el	3709 Nov 08 08:05	11° ∡ 12'04	25°04'58
	3708 Nov 28 11:57	0°₹		retrograde	3709 Nov 20 04:37	18° ₹ '04'09	
retrograde	3708 Dec 06 15:46	3° る 54'50		evening set	3709 Nov 25 21:56	15° ∡ ¹40'44	
evening set	3708 Dec 11 19:20	1° る 46'23		min. Earth dist.	3709 Nov 30 10:02	10° ∡ ³37'57	0.67389 AU
	3708 Dec 13 14:28	30°Ŗ ⋌ ¹		inferior conj	3709 Dec 01 10:56	9° х 16′24	0°02'08
asc. node	3708 Dec 14 11:24	28° ∡ 58′50		minimum elong	3709 Dec 01 10:53	9° х 16′34	0°02'07
min. Earth dist.	3708 Dec 16 15:19	26° ₹ 09'34	0.67858 AU	transit middle	3709 Dec 01 10:53	9° ∡ 16'34	0°02'07
inferior conj	3708 Dec 17 05:30	25° ∡ '21'15	0°55'38	transit begin	3709 Dec 01 08:08	9° ∡ ¹25'35	
minimum elong	3708 Dec 17 04:14	25° ∡ ¹25'35	0°55'07	transit end	3709 Dec 01 13:38	9° х 07′34	
morning rise	3708 Dec 22 13:08	19° ∡ 15'58 −		asc. node	3709 Dec 01 08:28	9° ∡ ¹24'31 −	
direct	3708 Dec 26 14:11	17° ∡ ¹43'41 −		morning rise	3709 Dec 07 00:02	3° ⋌ 17'48	
morning max el	3709 Jan 03 18:14	22° ∡ ¹26′03	20°45'26	direct	3709 Dec 10 12:39	2° ⋌ ¹06'07	
	3709 Jan 10 04:29	0° ろ		morning max el	3709 Dec 17 20:20	6° ⋌ 13'52	19°38'16
desc. node	3709 Jan 20 16:31	14° る 47'30		greatest brilliancy	3709 Dec 30 23:29	23° ∡ ′36′20	-0.7m
	3709 Jan 30 18:10	0° ≈			3710 Jan 04 05:32	0°る	
morning set	3709 Feb 02 05:00	3°≈47'55	1 42012 477	desc. node	3710 Jan 07 13:31	5° る 04'59	
max. Earth dist.	3709 Feb 10 20:18	17° ≈ 30'46	1.43013 AU	morning set	3710 Jan 12 01:25	11° る 59'57	
	2700 E-L 17 14.25	20020155	2907107	Danila diat	3710 Jan 23 14:02	0°≈	1 44417 ATT
superior conj	3709 Feb 17 14:25	28°≈39'55		max. Earth dist.	3710 Jan 24 08:02	1°∞11'1/	1.44417 AU
minimum elong	3709 Feb 17 13:38	28° ≈ 36'36	20/0/		2710 I 20 17.12	000 01 1117	1055110
avanina riaa	3709 Feb 18 09:25	0° \ 19° \ 26'26		superior conj	3710 Jan 28 17:13 3710 Jan 28 10:30	8°≈11'17 7°≈44'16	
evening rise	3709 Mar 01 13:41 3709 Mar 07 13:24	19 χ 2626		minimum elong	3710 Jan 28 10.30 3710 Feb 10 22:40	/ ≈44 16 0°)	1 34 33
asc. node	3709 Mar 12 10:42	8° Υ '05'00		evening rise	3710 Feb 10 22:40 3710 Feb 11 11:30	0°) 54'04	
evening max el	3709 Mar 18 13:51	16° Υ 04'32	18°06'54	asc. node	3710 Feb 27 07:46	26° ¥ 10'44	
retrograde	3709 Mar 25 03:02	19° Υ 27'27	10 00 54	evening max el	3710 Mar 02 02:36	29°\(\)23'32	18°17'21
evening set	3709 Mar 27 20:27	18° Y 51'56		evening max er	3710 Mar 02 02:30	0° Υ	10 1/21
inferior conj	3709 Apr 03 07:10	13° Y '48'49	3°24'13	retrograde	3710 Mar 08 13:11	2°Υ50'51	
minimum elong	3709 Apr 03 09:12	13° Y '43'45	3°23'59	evening set	3710 Mar 11 12:24	2° Υ '03'47	
min. Earth dist.	3709 Apr 06 08:33	10° Y ′46′27	0.61644 AU		3710 Mar 14 08:08	30° ₽ ₩	
morning rise	3709 Apr 09 20:14	7° Y ′50'54		inferior conj	3710 Mar 17 12:12	26°) 41'31	3°37'22
direct	3709 Apr 16 15:51	5° Y ′27'12		minimum elong	3710 Mar 17 12:27	26° ¥ 40'50	3°37'23
desc. node	3709 Apr 18 15:40	5° Ƴ 38'40		min. Earth dist.	3710 Mar 19 23:28	23° ¥ 55'53	0.63657 AU
morning max el	3709 Apr 30 20:08	13° Y °25'04	27°50'45	morning rise	3710 Mar 23 11:35	20°) 34′16	
C	3709 May 14 02:27	0°8		direct	3710 Mar 30 08:49	17° ¥ 49'42	
	3709 May 31 12:17	0°II		desc. node	3710 Apr 05 12:43	19°) 40′04	
morning set	3709 Jun 03 00:48	5° Ⅱ 04'18		morning max el	3710 Apr 13 04:08	25° ¥ 47'14	27°40'10
asc. node	3709 Jun 08 09:58	16° Ⅲ 25'33		-	3710 Apr 17 01:26	0° Υ	
max. Earth dist.	3709 Jun 08 20:36	17° Ⅲ 23′06	1.32300 AU		3710 May 07 15:00	0°8	
				morning set	3710 May 17 21:31	19° 8 04'37	
superior conj	3709 Jun 10 10:26	20° Ⅱ 49'02	0°21'05	max. Earth dist.	3710 May 23 00:03	29° 8 32'36	1.32987 AU
minimum elong	3709 Jun 10 09:28	20° Ⅱ 43'48	0°20'52		3710 May 23 05:15	$\Pi^{\circ}0$	
-	3709 Jun 14 15:10	0 \circ \odot					
evening rise	3709 Jun 17 07:23	5° © 45'57		superior conj	3710 May 25 17:29	5° Ⅲ 20′35	-0°05'55
	3709 Jun 30 01:56	$0^{\circ}\Omega$		minimum elong	3710 May 25 17:47	5° Ⅲ 22'09	0°05'52

behind sun begin	3710 May 25 12:48	4° Ⅱ 55'24		max. Earth dist.	3711 May 05 17:54	11° 8 11'54	1.34132 AU
behind sun end	3710 May 25 22:46	5° Ⅱ 48'56					
asc. node	3710 May 26 07:02	6° Ⅲ 33′20		superior conj	3711 May 09 19:13	19° 8 31'47	
evening rise	3710 Jun 01 19:09	20° Ⅲ 32'36		minimum elong	3711 May 09 21:01	19° 8 41'13	0°34'10
	3710 Jun 06 09:47	0°©		asc. node	3711 May 13 04:05	26° 8 37'26	
evening max el	3710 Jun 24 09:28	27° © 00'58	23°01'37		3711 May 14 18:23	0°П	
	3710 Jun 27 21:18	0°N		evening rise	3711 May 17 05:23	5° Ⅱ 10′12	
desc. node	3710 Jul 02 11:55	2° Ω 37'57			3711 May 30 21:27	0°©	21020110
retrograde	3710 Jul 07 19:02	3° Ω 41'56		evening max el	3711 Jun 06 04:27	7°535'21	21°28'18
evening set	3710 Jul 11 08:44	3° Ω 14'03		retrograde	3711 Jun 18 09:24	13°535'39	
min. Earth dist.	3710 Jul 18 15:05 3710 Jul 18 18:33	30°₹5	0.55499 AU	desc. node	3711 Jun 19 08:58	13°533'25	
	3710 Jul 18 18:33 3710 Jul 20 09:49			evening set	3711 Jun 20 19:18 3711 Jun 30 04:35	13° © 22'23 9° © 22'27	2002140
inferior conj	3710 Jul 20 09:49 3710 Jul 20 02:36	28°\$58'07 29°\$08'37	4°28'57	inferior conj	3711 Jun 29 20:40	9° 9 33'30	3°01'19
minimum elong morning rise	3710 Jul 20 02:36 3710 Jul 28 22:45	29 \$306'05 25°\$06'05	4 28 37	minimum elong min. Earth dist.	3711 Jun 30 05:28	9° 9 33'30	0.54856 AU
direct	3710 Jul 31 20:43	23 3 00 03 24° 9 45'56		morning rise	3711 Jul 08 22:52	5° © 27'31	0.54850 AO
direct	3710 Aug 11 22:44	0°Ω		direct	3711 Jul 12 07:07	5°903'14	
morning max el	3710 Aug 11 22:44	29° 5 49'37	20°37'59	morning max el	3711 Jul 24 18:04	10° 9 56'16	22°10'14
asc. node	3710 Aug 22 06:16	13° Ω 51'37	20 37 37	morning max cr	3711 Aug 07 13:31	0°Ω	22 1014
morning set	3710 Aug 30 19:02	0° mp 11'27		asc. node	3711 Aug 07 13:31 3711 Aug 09 03:19	2° Ω 53'35	
morning set	3710 Aug 30 15:48	0°Mp		morning set	3711 Aug 15 05:00	15° Ω 01'03	
	371071 ug 30 10.10	رب. ∨		morning sec	371111 u g 13 03.00	13 0001 03	
superior conj	3710 Sep 07 07:32	15° m 43'47	1°44'32	superior conj	3711 Aug 22 09:17	0° m) 14'12	1°40'58
minimum elong	3710 Sep 07 07:31	15° m 43'44	1°44'31	minimum elong	3711 Aug 22 08:00	0° m 07'28	1°40'54
max. Earth dist.	3710 Sep 12 05:06	•	1.36051 AU	Č	3711 Aug 22 06:36	0° m/p	
	3710 Sep 14 13:17	0∘ <u>⊽</u>		max. Earth dist.	3711 Aug 25 20:27	7° m) 27'05	1.34449 AU
evening rise	3710 Sep 16 05:11	3° Ω 06'54		evening rise	3711 Aug 30 10:19	16° Mp 35'31	
desc. node	3710 Sep 28 11:15	24° ഫ 08'08		C	3711 Sep 06 16:42	0∘ ⊽	
	3710 Oct 02 06:27	0° M		desc. node	3711 Sep 15 08:17	14° ≙ 12'02	
evening max el	3710 Oct 21 20:36	24°M54'31	26°11'48		3711 Sep 26 16:56	0°M	
	3710 Oct 28 04:58	0° ∡ ¹		evening max el	3711 Oct 04 09:15	8°M29'39	27°00'52
retrograde	3710 Nov 03 12:30	2° х 03′51		retrograde	3711 Oct 17 14:42	15°M46'20	
	3710 Nov 09 03:39	30°RM		evening set	3711 Oct 24 09:44	13°M04'51	
evening set	3710 Nov 09 19:28	29°M28'39		min. Earth dist.	3711 Oct 28 08:06	9° ™ 13′29	0.65421 AU
min. Earth dist.	3710 Nov 14 00:27	25°M01'16	0.66580 AU	inferior conj	3711 Oct 30 08:06	6°M56'40	-1°56'02
inferior conj	3710 Nov 15 12:31	23°M09'57	-0°55'35	minimum elong	3711 Oct 30 11:20	6° ™ 47′26	1°54'44
minimum elong	3710 Nov 15 14:01	23°M05'20	0°54'57	asc. node	3711 Nov 05 02:32	1°M34'52	
asc. node	3710 Nov 18 05:30	19° M 59'41		morning rise	3711 Nov 05 13:46	1° M 19'57	
morning rise	3710 Nov 21 09:03	17° ™ 20'44		direct	3711 Nov 08 07:43	0°M38'58	
direct	3710 Nov 24 11:14	16°M26'16		morning max el	3711 Nov 14 19:51	4°M09'02	18°11'02
morning max el	3710 Dec 01 05:35	20°M10'07	18°46'24		3711 Dec 02 07:07	0° ∡ 7	
	3710 Dec 08 22:30	0° ∡ 7		morning set	3711 Dec 03 09:31	1° √ 48'07	
morning set	3710 Dec 22 14:57	21°×10'01		desc. node	3711 Dec 12 07:36	16° ∤ 16'15	
desc. node	3710 Dec 25 10:34	25° ₹ 36'09			2711 D 10 02 24	250 722124	0020104
To all the	3710 Dec 28 05:42	0°る	1 45162 ATT	superior conj	3711 Dec 18 03:24	25° ₹32'24	
max. Earth dist.	3711 Jan 07 01:17	13°024'11	1.45162 AU	minimum elong	3711 Dec 17 22:28	25°渘12'53 0°る	0°38'24
aumorior coni	2711 Ion 07 22:45	16° る 52'27	1924105	may Earth dist	3711 Dec 20 23:19 3711 Dec 20 20:57	29° 🖈 50'39	1.45161 AU
superior conj minimum elong	3711 Jan 07 23:45 3711 Jan 07 14:38	16 33227 16° 3 16'38		max. Earth dist. evening rise	3711 Dec 20 20.37 3712 Jan 03 11:13	29 x・30 39 21° る 03'52	1.43101 AU
illillillidii Clong	3711 Jan 07 14:38	0°≈	1 23 07	evening rise	3712 Jan 09 05:22	21 3 03 32 0° ≈	
evening rise	3711 Jan 23 10:26	0 ∞ 11° ≈ 24'30		greatest brilliancy	3712 Jan 15 18:41	10°≈03'15	-0.7m
greatest brilliancy	3711 Jan 30 03:32	22°≈13'07	-0.9m	evening max el	3712 Jan 27 21:22	26°≈21'16	19°31'23
greatest orimaney	3711 Feb 04 01:36	0° ∀	0.5111	asc. node	3712 Feb 01 01:50	29° ≈ 41'37	17 31 23
evening max el	3711 Feb 13 13:51	12° ¥ 50′36	18°45'57	use. Houe	3712 Feb 01 17:15	0° ∀	
asc. node	3711 Feb 14 04:49	13° ¥ 27′25	10 .00,	retrograde	3712 Feb 04 03:18	0°) (31'49	
retrograde	3711 Feb 20 06:20	16°) (34'18			3712 Feb 06 11:19	30°R≈	
evening set	3711 Feb 23 11:48	15°) (34'45		evening set	3712 Feb 07 16:00	29°≈18'52	
inferior conj	3711 Mar 01 04:04	9°) 54'52	3°32'42	inferior conj	3712 Feb 13 03:30	23° ≈ 23'28	3°14'32
minimum elong	3711 Mar 01 02:52	9°) 58'34	3°32'35	minimum elong	3712 Feb 13 01:23	23° ≈ 30′24	3°14'09
min. Earth dist.	3711 Mar 02 23:39	7°) 41′21	0.65330 AU	min. Earth dist.	3712 Feb 14 08:06	21° ≈ 49'47	0.66590 AU
morning rise	3711 Mar 06 17:31	3°) 43′07		morning rise	3712 Feb 18 10:33	17° ≈ 09'53	
direct	3711 Mar 13 08:46	0°) 52′06		direct	3712 Feb 24 14:43	14° ≈ 25′12	
desc. node	3711 Mar 23 09:46	5°) 40′42		morning max el	3712 Mar 07 23:26	21° ≈ 46'45	25°48'06
morning max el	3711 Mar 26 13:55	8°) 38′11	26°56'39	desc. node	3712 Mar 09 06:49	23° ≈ 08′14	
	3711 Apr 12 06:06	$0^{\circ}\Upsilon$			3712 Mar 15 03:42	0°) €	
	3711 Apr 30 00:20	0°8			3712 Apr 04 11:53	0° Y	
morning set	3711 May 01 08:13	2° 8 31'44		morning set	3712 Apr 13 04:47	15° Ƴ 13'51	

morning max el

desc. node

3713 Feb 18 08:03

3713 Feb 24 03:51

3713 Mar 09 13:31

5°≈03'17 24°24'09

11°≈37'17

0°**)**€

direct

morning max el

3714 Jan 21 17:44

3714 Jan 31 17:36

3714 Feb 10 09:44

12°**る**29'48

0°**≈**

18°る25'21 22°55'05

	2714 F 1 11 00 52	0050127			2715 F. 1. 04 07 52	00-	
desc. node	3714 Feb 11 00:52	0°≈50'37			3715 Feb 04 07:52	0° ≈	
	3714 Mar 02 16:49	0° ∀		morning set	3715 Feb 14 23:08	16° ≈ 23'02	
morning set	3714 Mar 07 04:53	7° ₩ 20'11		max. Earth dist.	3715 Feb 21 17:00	27° ≈ 17'25	1.41971 AU
max. Earth dist.	3714 Mar 11 16:51	14° ¥ 55'47	1.39884 AU		3715 Feb 23 08:12	0° ℋ	
superior conj	3714 Mar 19 10:41	28°) 40′21	-1°52'39	superior conj	3715 Mar 01 05:26	10°) 00′25	-2°05'46
minimum elong	3714 Mar 19 15:07	29° ₩ 00'37	1°52'18	minimum elong	3715 Mar 01 07:26	10°) 09'01	2°05'43
minimum viong	3714 Mar 20 04:03	0° Υ		evening rise	3715 Mar 12 06:36	29°) 46'22	2 00 .5
evening rise	3714 Mar 29 03:56	16° Y 58′28		evening rise	3715 Mar 12 00:36	25 γ (4022	
C							
asc. node	3714 Apr 02 19:10	25° Y 42'11		asc. node	3715 Mar 20 16:13	14° Y 43'14	
	3714 Apr 05 04:33	0° 8		evening max el	3715 Mar 28 17:57	25° Y 51'43	18°09'31
evening max el	3714 Apr 14 08:15	12° 8 58'08	18°29'20	retrograde	3715 Apr 04 12:48	29° Ƴ 17'47	
retrograde	3714 Apr 21 22:17	16° 8 42'29		evening set	3715 Apr 07 02:59	28° Ƴ 48'16	
evening set	3714 Apr 24 05:58	16° 8 22'35		inferior conj	3715 Apr 13 21:43	23° Y 56'47	3°06'12
inferior conj	3714 May 01 17:49	11° 8 52'05	2°12'29	minimum elong	3715 Apr 14 00:42	23° Y 49'53	3°05'40
minimum elong	3714 May 01 21:32	11° 8 44'41	2°11'27	min. Earth dist.	3715 Apr 17 05:04	20° Ƴ 54'45	0.60404 AU
min. Earth dist.	3714 May 05 04:06	9° 8 09'47	0.58245 AU	morning rise	3715 Apr 20 20:13	18° Υ 08'08	0.00101710
	-		0.36243 AU	_	*		
morning rise	3714 May 09 09:58	6° 8 26'23		desc. node	3715 Apr 26 21:06	16° Y 02'47	
desc. node	3714 May 10 00:04	6° 8 09'28		direct	3715 Apr 27 11:04	16° Y 01′50	
direct	3714 May 15 08:46	4° 8 55'06		morning max el	3715 May 11 17:59	23° Y 55′02	27°39'54
morning max el	3714 May 29 18:04	12° 8 36'13	26°51'41		3715 May 17 05:37	$6^{\circ}B$	
	3714 Jun 12 10:11	Π $^{\circ}0$			3715 Jun 05 15:36	Π $^{\circ}0$	
morning set	3714 Jun 28 14:04	29° Ⅱ 35′09		morning set	3715 Jun 12 20:38	14° Ⅱ 10′00	
	3714 Jun 28 18:48	0°95		asc. node	3715 Jun 16 15:29	22° I I11'04	
asc. node	3714 Jun 29 18:26	2°905'17		max. Earth dist.	3715 Jun 19 02:27	27° I 32'04	1.32105 AU
asc. Houe	3/14 Juli 29 16.20	2 903 17		max. Earth dist.	3/13 Juli 19 02.27	27 1132 04	1.32103 AU
superior conj	3714 Jul 05 14:43	14° © 50'14	0°58'02	superior conj	3715 Jun 20 02:05	29° ∏ 41'49	0°35'30
minimum elong	3714 Jul 05 12:34	14° © 38'21	0°57'38	minimum elong	3715 Jun 20 00:34	29° Ⅱ 33'29	0°35'11
max. Earth dist.	3714 Jul 05 15:01	14° © 51'54	1.32081 AU		3715 Jun 20 05:23	0_{\circ} වෙ	
evening rise	3714 Jul 12 11:32	29° 5 45'27		evening rise	3715 Jun 26 21:57	14° © 34'53	
	3714 Jul 12 14:18	$0^{\circ}\Omega$			3715 Jul 04 14:52	$0^{\circ}\Omega$	
	3714 Jul 29 01:09	0°m		desc. node	3715 Jul 23 20:21	27° Ω 32'05	
desc. node	3714 Aug 05 23:20	10° m) 47'44		evening max el	3715 Jul 24 02:50	27° Ω 47'41	25°28'45
	•	-	26920100	evening max er	3715 Jul 26 14:41	0° m	25 20 45
evening max el	3714 Aug 11 07:31	16° Mp 32'46	26°39'09				
retrograde	3714 Aug 25 06:21	23° m/43'40		retrograde	3715 Aug 07 02:15	4° m 53'36	
evening set	3714 Sep 01 01:19	21°Mp46'36		evening set	3715 Aug 12 23:08	3° M 33'26	
min. Earth dist.	3714 Sep 04 21:23	19° Mp 10'20	0.60054 AU	min. Earth dist.	3715 Aug 17 14:47	0° m 53′39	0.58017 AU
inferior conj	3714 Sep 08 03:32	16° Mp 33'07	-4°41'22		3715 Aug 18 22:01	30° R Ω	
minimum elong	3714 Sep 08 08:39	16° m 22'47	4°40'29	inferior conj	3715 Aug 20 18:02	28° Ω 42'31	-5°07'31
morning rise	3714 Sep 15 18:00	11° m 52'59		minimum elong	3715 Aug 20 19:37	28° Ω 39'43	5°07'27
direct	3714 Sep 18 03:04	11° m/32'03		morning rise	3715 Aug 28 18:24	24° Ω 25'12	
morning max el	3714 Sep 25 15:43	15° m 13'08	18°11'44	direct	3715 Aug 31 06:46	24° Ω 05'43	
•	•	-	10 11 44		•	28° Ω 09'03	18°51'31
asc. node	3714 Sep 25 17:39	15° Mp 17'50		morning max el	3715 Sep 08 20:03		16 31 31
	3714 Oct 05 21:17	0∘ ⊽		_	3715 Sep 10 14:43	0° m)	
morning set	3714 Oct 11 11:58	10° ≏ 22'38		asc. node	3715 Sep 12 14:43	2° m 27'28	
				morning set	3715 Sep 25 08:25	24° m 33'27	
superior conj	3714 Oct 20 23:51	28° ≏ 02'35	1°17'04		3715 Sep 28 02:51	0∘ ত	
minimum elong	3714 Oct 21 03:51	28° ഫ 20'38	1°16'37				
	3714 Oct 22 01:57	o° m ₊		superior conj	3715 Oct 03 20:15	11° ≏ 06'29	1°35'02
max. Earth dist.	3714 Oct 28 14:48	11°ML23'11	1.41234 AU	minimum elong	3715 Oct 03 22:53	11° ≏ 18'57	1°34'50
desc. node	3714 Nov 01 22:37	18°MJ34'50		max. Earth dist.	3715 Oct 10 20:10		1.39177 AU
evening rise	3714 Nov 02 14:37	19° M .40'01		max. Earth dist.	3715 Oct 14 06:33	0° M .	1.57177110
evening rise							
	3714 Nov 09 03:12	0° ∡		evening rise	3715 Oct 14 18:12	0°M49'53	
	3714 Nov 30 08:11	0°ಕ		desc. node	3715 Oct 19 19:39	9° ™ 15'35	
evening max el	3714 Dec 06 12:42	7° る 01'21	23°01'55		3715 Nov 02 11:13	0°⋪	
retrograde	3714 Dec 16 17:36	13° る 04'21		evening max el	3715 Nov 19 02:02	20° ҂ ¹40′39	24°21'27
evening set	3714 Dec 21 13:31	11° る 05'27		retrograde	3715 Nov 30 08:46	27° ҂ 16'43	
asc. node	3714 Dec 22 16:55	10° පි 01'47		evening set	3715 Dec 05 18:11	25° ₹ 01'44	
inferior conj	3714 Dec 26 22:38	4°る42'05	1°24'03	asc. node	3715 Dec 09 13:58	20° х 48′00	
minimum elong	3714 Dec 26 20:50	4°る48'17		min. Earth dist.	3715 Dec 10 10:45	19°×739'21	0.67706 AU
•		5°る09'24	0.67971 AU				0.07700 AU 0°33'32
min. Earth dist.	3714 Dec 26 14:43		0.0/9/1 AU	inferior conj	3715 Dec 11 05:26	18° 🗷 36'40	
	3714 Dec 30 15:28	30°R. ✓		minimum elong	3715 Dec 11 04:38	18° 🗷 39'22	0°33'13
morning rise	3715 Jan 01 04:02	28° ∡ 33'43		morning rise	3715 Dec 16 15:09	12° ≯ 34'01	
direct	3715 Jan 05 13:05	26° ∡ ⁴48'16		direct	3715 Dec 20 10:48	11° ⋌ 10'40	
	3715 Jan 12 06:11	ರ∘ರ		morning max el	3715 Dec 28 05:06	15° ∡ ³36'28	20°15'06
morning max el	3715 Jan 14 07:37	1°る55'07	21°29'56		3716 Jan 08 12:11	0°ರ	
desc. node	3715 Jan 28 21:53	20° る 35'18		desc. node	3716 Jan 15 18:54	10° る 42'46	
						_ :_ :0	

morning set	3716 Jan 24 21:04	24° る 34'12		morning max el	3716 Dec 10 10:32	29°M28'50	19°14'18
morning sec	3716 Jan 28 08:54	0°≈		morning mun vi	3716 Dec 10 22:43	0° %	1, 1, 10
max. Earth dist.	3716 Feb 04 01:23	10° ≈ 35′07	1.43687 AU	greatest brilliancy	3716 Dec 24 05:48	18° ∡ ′08'49	-0.7m
					3716 Dec 31 22:42	0°ರ	
superior conj	3716 Feb 09 23:10	20° ≈ 11'16	-2°04'29	desc. node	3717 Jan 01 15:56	1° る 06'47	
minimum elong	3716 Feb 09 19:50	19° ≈ 57'36	2°04'22	morning set	3717 Jan 02 22:12	3° る 04'13	
	3716 Feb 15 20:00	0° ∀		max. Earth dist.	3717 Jan 16 16:11	24° る 33'13	1.44817 AU
evening rise	3716 Feb 22 16:11	11°) 45'43					
	3716 Mar 04 10:25	0° Υ		superior conj	3717 Jan 19 15:52	29° ♂ 16'47	
asc. node	3716 Mar 06 13:16	3° Y 11'57 9° Y 03'35	18°09'04	minimum elong	3717 Jan 19 07:20	28° る 42'55 0°≈	1°43'36
evening max el	3716 Mar 11 06:25 3716 Mar 17 17:14	12° Υ 26'43	18-09-04	evening rise	3717 Jan 20 02:45 3717 Feb 03 04:34	0°≈ 22°≈49'42	
retrograde evening set	3716 Mar 20 13:12	11° Y 46'15		evening rise	3717 Feb 03 04.34 3717 Feb 07 12:36	22 ≈ 4942 0° H	
inferior conj	3716 Mar 26 18:47		3°32'20	asc. node	3717 Feb 21 10:19	20°) 58'36	
minimum elong	3716 Mar 26 20:03	6° Υ 31'13	3°32'14	evening max el	3717 Feb 22 18:46	22° H 26'37	18°27'21
min. Earth dist.	3716 Mar 29 14:26	3° Ƴ 37'16	0.62533 AU	retrograde	3717 Mar 01 06:59	25° ¥ 59'53	
morning rise	3716 Apr 02 01:36	0° Υ 32'02		evening set	3717 Mar 04 08:43	25°) €07'38	
	3716 Apr 02 19:47	30° ₹ ₩		inferior conj	3717 Mar 10 04:54	19° ∺ 37'25	3°37'18
direct	3716 Apr 08 22:55	27° ¥ 58′09		minimum elong	3717 Mar 10 04:29	19°) 38′41	3°37'18
desc. node	3716 Apr 12 18:08	28°) 40′03		min. Earth dist.	3717 Mar 12 09:25	17° ∺ 04'08	0.64406 AU
	3716 Apr 15 14:19	$0^{\circ}\Upsilon$		morning rise	3717 Mar 15 23:34	13° ∺ 27'36	
morning max el	3716 Apr 22 23:50	5° Y 56'12	27°50'46	direct	3717 Mar 22 18:51	10°) 38'48	
	3716 May 11 04:26	0°8		desc. node	3717 Mar 30 15:09	13°) ₹36'42	25025125
morning set	3716 May 26 21:41 3716 May 27 16:17	28° ႘ 25'21 0° Ⅱ		morning max el	3717 Apr 05 09:12 3717 Apr 15 01:02	18° ¥ 33'22 0° Ƴ	21°25'21
max. Earth dist.	3716 May 27 10.17 3716 Jun 01 10:11	9° П 57'32	1.32544 AU		3717 Apr 13 01:02 3717 May 04 02:37	0° 8	
asc. node	3716 Jun 02 12:32	12° Ⅱ 19'21	1.32344 AU	morning set	3717 May 04 02:37 3717 May 10 14:35	12° 8 13'22	
use. Houe	3/10 Jun 02 12.32	12 11/21		max. Earth dist.	3717 May 15 14:35	21° 8 56'10	1.33419 AU
superior conj	3716 Jun 03 11:14	14° Ⅱ 22'19	0°09'56		0,11,11 11 ,11		
minimum elong	3716 Jun 03 10:46	14° Ⅱ 19'47	0°09'49	superior conj	3717 May 18 16:18	28° 8 46'11	-0°17'55
behind sun begin	3716 Jun 03 06:39	13° Ⅱ 57′25		minimum elong	3717 May 18 17:12	28° 8 51'02	0°17'43
behind sun end	3716 Jun 03 14:53	14° Ⅱ 42′09			3717 May 19 06:10	$\Pi^{\circ}0$	
evening rise	3716 Jun 10 09:46	29° Ⅱ 24'30		asc. node	3717 May 20 09:36	2° Ⅱ 26′21	
	3716 Jun 10 16:27	0ංම		evening rise	3717 May 25 21:07	14° Ⅱ 08′22	
	3716 Jun 27 12:40	0 \circ Ω			3717 Jun 02 21:44	0ංම	
evening max el	3716 Jul 04 16:25	8° Ω 23'11	23°57'27	evening max el	3717 Jun 16 06:57	18°548'01	22°20'39
desc. node	3716 Jul 09 17:24	12° Ω 27'16		desc. node	3717 Jun 26 14:25	24°958'15	
retrograde	3716 Jul 18 10:19	15° Ω 18'07 14° Ω 34'10		retrograde	3717 Jun 29 06:29 3717 Jul 02 06:27	25°914'42	
evening set min. Earth dist.	3716 Jul 22 21:22 3716 Jul 29 02:46		0.56257 AU	evening set min. Earth dist.	3717 Jul 02 06:27 3717 Jul 10 13:31	24°954'48	0.55117 AU
inferior conj	3716 Jul 31 12:11	11° € 35'51 10° Ω 05'43		inferior conj	3717 Jul 10 13:51	20°546'34	
minimum elong	3716 Jul 31 07:54	10° Ω 12'19		minimum elong	3717 Jul 11 04:31	20°958'21	
morning rise	3716 Aug 08 21:01	6° Ω 07'55	. 0, 10	morning rise	3717 Jul 20 04:32	16°955'54	3 0, 00
direct	3716 Aug 11 14:59	5° Ω 48'29		direct	3717 Jul 23 06:04	16°934'44	
morning max el	3716 Aug 21 14:04	10° Ω 26′04	19°53'04	morning max el	3717 Aug 03 20:21	21°958'40	21°15'19
asc. node	3716 Aug 29 11:46	20° Ω 30′07			3717 Aug 10 15:32	$0^{\circ}\Omega$	
	3716 Sep 03 21:31	0° т р		asc. node	3717 Aug 16 08:48	9° Ω 13'25	
morning set	3716 Sep 08 12:00	9° m 04'40		morning set	3717 Aug 23 20:13	23° Ω 49'14	
	ARIZ G	0.40***	10.42:5		3717 Aug 26 19:11	0° m	
superior conj	3716 Sep 16 07:19	24° Mp 53'49	1°43'24	aumani ·	2717 A 21 04 42	00 m. 1 1147	1042140
minimum elong	3716 Sep 16 08:13	24° Mp 58'18 0° <u> </u>	1°43'23	superior conj	3717 Aug 31 04:42	9° Mp 11'47	1°43'48 1°43'48
max. Earth dist.	3716 Sep 18 21:28 3716 Sep 22 01:16	0 <u>₽</u> 6° ₽ 02'57	1.37131 AU	minimum elong max. Earth dist.	3717 Aug 31 04:06 3717 Sep 04 11:22	9° Mp 08'40 17° Mp 53'51	1.35322 AU
evening rise	3716 Sep 25 20:11	13° ⊆ 01'39	1.5/151 AO	evening rise	3717 Sep 04 11:22 3717 Sep 08 16:41	26° Mp 05'47	1.55522 AC
desc. node	3716 Oct 05 16:41	29° ≏ 46'40		evening rise	3717 Sep 10 18:54	0° ರ	
	3716 Oct 05 20:01	0° M		desc. node	3717 Sep 22 13:44	20° ♀ 02'34	
	3716 Oct 27 11:10	0° ∡ ¹			3717 Sep 29 06:04	0° M ₊	
evening max el	3716 Oct 31 14:18	4° ∡ ¹22'25	25°35'02	evening max el	3717 Oct 14 02:39	18°ML02'01	26°35'14
retrograde	3716 Nov 12 19:29	11° ∡ 122′55		retrograde	3717 Oct 27 01:09	25°M16'23	
evening set	3716 Nov 18 18:52	8° ≯ 53'43		evening set	3717 Nov 02 13:36	22°M37'20	
min. Earth dist.	3716 Nov 23 03:49	4° ≯ 06′10	0.67091 AU	min. Earth dist.	3717 Nov 06 15:34	18°M25'29	0.66127 AU
inferior conj	3716 Nov 24 09:28	2° ∡ 31′20		inferior conj	3717 Nov 08 08:44	16°M22'20	
minimum elong	3716 Nov 24 10:02	2° × ⁷ 29'31	0°21'40	minimum elong	3717 Nov 08 10:57	16°M15'41	1°20'07
asc. node	3716 Nov 25 11:00	1° ∡ 10′29		asc. node	3717 Nov 12 08:02	12°M05'38	
	3716 Nov 26 10:18	30°RM		morning rise	3717 Nov 14 08:59	10°M38'17	
morning rise	3716 Nov 30 01:31	26°M36'41 25°M32'50		direct	3717 Nov 17 07:16	9°M50'13 13°M27'15	18020110
direct	3716 Dec 03 09:27	25 IIG32'30		morning max el	3717 Nov 23 22:17	13 1162/113	10 29 16

direct	3719 Oct 15 15:03	7° £ 51'30		morning rise	3720 Sep 25 09:37	21° m)44'37	
asc. node	3719 Oct 17 02:04	8° Ω 01'49		direct	3720 Sep 27 18:25	21° m) 21'44	
morning max el	3719 Oct 22 06:20	11° Ω 17'18	17°50'26	asc. node	3720 Oct 02 23:08	23° m) 16'43	
<i>5</i>	3719 Nov 03 20:40	0°M		morning max el	3720 Oct 04 20:42	24° m) 54'14	17°58'18
morning set	3719 Nov 07 13:56	6°M30′22		C	3720 Oct 09 01:52	0∘ <u>⊽</u>	
Č				morning set	3720 Oct 20 15:47	19° ≏ 47'47	
superior conj	3719 Nov 19 11:10	26°M54'04	0°26'21	C	3720 Oct 26 05:41	0° M	
minimum elong	3719 Nov 19 13:47	27°M04'54	0°25'58				
	3719 Nov 21 08:07	0° ∡ ¹		superior conj	3720 Oct 30 21:37	8°M18'20	1°01'48
desc. node	3719 Nov 23 07:02	3° ∡ 12'07		minimum elong	3720 Oct 31 01:50	8°M36'48	1°01'15
max. Earth dist.	3719 Nov 25 22:38	7° ∡ ¹29'12	1.43923 AU	max. Earth dist.	3720 Nov 07 11:19	21° M 11'43	1.42334 AU
evening rise	3719 Dec 04 20:12	21° × ⁷ 29'13		desc. node	3720 Nov 09 04:03	23°M59'13	
	3719 Dec 10 09:57	0°ප			3720 Nov 12 21:30	0° ∡ ¹	
	3719 Dec 31 17:12	0° ≈		evening rise	3720 Nov 13 13:51	1° ∡ °05′02	
evening max el	3720 Jan 03 10:07	2°≈59'21	21°00'55		3720 Dec 02 22:46	0°8	
retrograde	3720 Jan 11 21:39	8° ≈ 00'35		evening max el	3720 Dec 16 04:46	16° පි 33'02	22°16'11
asc. node	3720 Jan 13 01:21	7° ≈ 53'17		retrograde	3720 Dec 25 18:05	22° る 14'07	
evening set	3720 Jan 15 23:20	6° ≈ 26'42		asc. node	3720 Dec 29 22:23	20° る 41'08	
inferior conj	3720 Jan 21 07:50	0°≈14'16	2°30'55	evening set	3720 Dec 30 06:57	20° る 24'18	
minimum elong	3720 Jan 21 05:20	0°≈22'53	2°30'11	inferior conj	3721 Jan 04 15:24	14° る 03'38	1°50'27
	3720 Jan 21 11:58	30°₹ る		minimum elong	3721 Jan 04 13:13	14°る11'12	1°49'40
min. Earth dist.	3720 Jan 21 17:44	29° る 40'10	0.67682 AU	min. Earth dist.	3721 Jan 04 13:40	14°る09'38	0.67968 AU
morning rise	3720 Jan 26 11:09	24°る01'25		morning rise	3721 Jan 09 19:22	7°る53'13	
direct	3720 Jan 31 19:17	21°る40'38	22046117	direct	3721 Jan 14 12:35	5°る54'49	22017150
morning max el	3720 Feb 11 12:27	28° る 03'32	23°46'17	morning max el	3721 Jan 23 23:36	11° る 28'53	22°17'59
desc. node	3720 Feb 13 08:42	0° ≈ 7° ≈ 03'14		desc. node	3721 Feb 05 03:17	26° ට 31'02 0°≈	
desc. node	3720 Feb 19 06:16 3720 Mar 06 08:39	0°)		morning set	3721 Feb 07 14:48 3721 Feb 26 10:13	0°≈ 28°≈40'46	
morning set	3720 Mar 17 23:23	18°) 51'18		morning set	3721 Feb 20 10:13 3721 Feb 27 05:41	20 ≈ 40 40	
max. Earth dist.	3720 Mar 21 20:10	25°) 34'31	1.38630 AU	max. Earth dist.	3721 Mar 03 17:17	7° ¥ 26′27	1.40800 AU
max. Earth dist.	3720 Mar 21 20:10 3720 Mar 24 07:31	25 χ3431 0° Υ	1.38030 AU	max. Latin dist.	3/21 Widi 03 1/.1/	/ //202/	1.40000 AU
	3/20 Wai 24 0/.31	0 1		superior conj	3721 Mar 11 12:04	20° ¥ 58'04	-1°59'37
superior conj	3720 Mar 29 04:59	9° Y '02'51	-1°40'41	minimum elong	3721 Mar 11 12:04	21° X 14'50	
minimum elong	3720 Mar 29 09:40	9° Υ 24'57		minimum crong	3721 Mar 16 11:11	0° Υ	1 37 23
evening rise	3720 Apr 07 07:23	26° Υ 39'04	1 10 10	evening rise	3721 Mar 21 17:55	9° Υ 51'13	
evening rise	3720 Apr 09 00:44	0°8		asc. node	3721 Mar 27 21:44	21° Y °11'13	
asc. node	3720 Apr 10 00:42	1° 8 55'18			3721 Apr 02 06:59	0°8	
evening max el	3720 Apr 23 16:18	23° 8 06'29	18°49'43	evening max el	3721 Apr 06 22:51	5° 8 44'46	18°18'26
retrograde	3720 May 01 22:38	27° 8 08'59		retrograde	3721 Apr 14 03:27	9° 8 19'47	
evening set	3720 May 04 02:36	26° 8 53'25		evening set	3721 Apr 16 13:52	8° 8 56'06	
inferior conj	3720 May 12 01:36	22° 8 34'00	1°26'56	inferior conj	3721 Apr 23 17:57	4° 8 16'27	2°39'03
minimum elong	3720 May 12 04:39	22° 8 28'27	1°25'56	minimum elong	3721 Apr 23 21:34	4° 8 08'44	2°38'11
min. Earth dist.	3720 May 15 07:02	20° 8 14'26	0.57113 AU	min. Earth dist.	3721 Apr 27 04:18	1° 8 22'42	0.59144 AU
desc. node	3720 May 17 05:27	18° 8 58'26			3721 Apr 28 23:49	30° ₹Ƴ	
morning rise	3720 May 20 03:30	17° 8 26'29		morning rise	3721 May 01 02:29	28° Y 39'25	
direct	3720 May 25 13:32	16° 8 15'27		desc. node	3721 May 04 02:30	27° Y ′22'09	
morning max el	3720 Jun 08 21:39	23° 8 43'59	26°09'09	direct	3721 May 07 08:56	26° Ƴ 53'10	
	3720 Jun 14 13:43	Π °0			3721 May 16 03:19	0°8	
	3720 Jul 03 02:51	0 \circ \odot		morning max el	3721 May 21 18:09	4° 8 40'40	27°16'41
asc. node	3720 Jul 06 23:57	7° 9 56'05			3721 Jun 09 09:34	Π $\circ 0$	
morning set	3720 Jul 07 05:56	8° © 27'37		morning set	3721 Jun 21 14:40	23° Ⅱ 09'58	
	2520 1 1 1 0 5 00	22252	1000100	asc. node	3721 Jun 23 21:01	27° I 57'56	
superior conj	3720 Jul 14 05:09		1°09'23		3721 Jun 24 19:40	0ಂಹ	
minimum elong	3720 Jul 14 02:50	23°523'51	1°09'00		2721 1 20 16 57	00620155	00.40152
max. Earth dist.	3720 Jul 14 19:32	24° © 55'46	1.32252 AU	superior conj	3721 Jun 28 16:57	8°930'55	0°48'53
	3720 Jul 17 03:06	0°Ω		minimum elong	3721 Jun 28 15:01	8°920'14	0°48'30
evening rise	3720 Jul 21 04:16	8° № 38'53		max. Earth dist.	3721 Jul	7° © 37'44 23° © 23'59	1.32040 AU
desc. node	3720 Aug 01 08:31 3720 Aug 13 04:45	บาเม 17° Mg 54'11		evening rise	3721 Jul 05 12:56 3721 Jul 08 17:24	23° 3 23'39	
evening max el	3720 Aug 13 04:43 3720 Aug 21 07:54	27° Mp 05'08	27°05'56		3721 Jul 08 17:24 3721 Jul 26 14:24	0° m)	
evening max ci	3720 Aug 21 07.34 3720 Aug 24 17:27	0° ⊽	21 03 30	desc. node	3721 Jul 26 14.24 3721 Jul 31 01:47	5°Mg26'11	
retrograde	3720 Sep 04 04:40	0 = 4° £ 17'34		evening max el	3721 Aug 03 07:12	8° Mg 46'04	26°12'28
evening set	3720 Sep	2° £ 03'07		retrograde	3721 Aug 03 07:12 3721 Aug 17 06:37	15° m) 55'40	20 12 20
	3720 Sep 11 00:30 3720 Sep 14 03:08	30°RM)		evening set	3721 Aug 17 00:37 3721 Aug 23 18:00	14° Mg 13'10	
min. Earth dist.	3720 Sep 14 03:00 3720 Sep 14 22:11	29° m) 20'56	0.61248 AU	min. Earth dist.	3721 Aug 27 10:00 3721 Aug 27 20:03	11° m) 38'00	0.59173 AU
inferior conj	3720 Sep 18 01:24	26° mp 37'32		inferior conj	3721 Aug 31 02:43	9° mg 09'14	
minimum elong	3720 Sep 18 07:12	26° m/24'51		minimum elong	3721 Aug 31 06:43	9° mp 01'36	
<i>G</i>	1	•		3	5 ,		

morning rise	3721 Sep 07 21:38	4°m/39'15		direct	3722 Aug 23 02:58	16° Ω 31'44	
direct	3721 Sep 10 07:43	4° m) 19'12		morning max el	3722 Sep 01 06:00	20° Ω 48'32	19°15'07
morning max el	3721 Sep 18 05:42	8° m 08'07	18°26'08	asc. node	3722 Sep 06 17:17	27° Ω 22'35	
asc. node	3721 Sep 19 20:13	9° ™ 48'52			3722 Sep 08 10:52	0° m	
	3721 Oct 02 08:06	0 o $\overline{\mathbf{v}}$		morning set	3722 Sep 18 06:28	18° m 02'28	
morning set	3721 Oct 04 06:39	3° ≏ 42'23			3722 Sep 24 06:29	0∘ ⊽	
superior coni	3721 Oct 13 07:17	20° £ 50'54	1°25'56	superior conj	3722 Sep 26 10:30	4° ≙ 14'47	1020120
superior conj minimum elong	3721 Oct 13 07:17 3721 Oct 13 10:48	20 ⊆ 30 34 21° ⊆ 07'06	1°25'36	minimum elong	3722 Sep 26 10:30 3722 Sep 26 12:23	4° £ 23'58	1°39'33
minimum ciong	3721 Oct 18 08:48	0°M	1 23 30	max. Earth dist.	3722 Sep 20 12:23 3722 Oct 02 22:35		1.38282 AU
max. Earth dist.	3721 Oct 18 08:48 3721 Oct 20 18:29	4°M11'51	1.40368 AU	evening rise	3722 Oct 02 22:33 3722 Oct 06 17:19	23° ⊆ 14'46	1.30202 AC
evening rise	3721 Oct 25 03:50	11°M237'35	1.10300110	evening rise	3722 Oct 10 16:05	0°M	
desc. node	3721 Oct 27 01:05	14°M43'34		desc. node	3722 Oct 13 22:06	5°M20'46	
	3721 Nov 05 19:23	0° ∡ 7			3722 Oct 30 14:49	0° ⊼ ¹	
	3721 Nov 28 15:25	0°⋜		evening max el	3722 Nov 11 07:58	13° ₹ ′50′29	24°53'59
evening max el	3721 Nov 28 19:20	0° る 09'48	23°35'59	retrograde	3722 Nov 23 01:08	20° ∡ ³38'45	
retrograde	3721 Dec 09 11:39	6° පි 28'29		evening set	3722 Nov 28 16:21	18° ∡ 17'35	
evening set	3721 Dec 14 13:10	4° පි 22'30		min. Earth dist.	3722 Dec 03 05:37	13° ∡ 09'35	0.67482 AU
asc. node	3721 Dec 16 19:26	2° る 04'14		asc. node	3722 Dec 03 16:29	12° ∡ ³33'47	
	3721 Dec 18 10:54	30°₹ ⋌ 7		inferior conj	3722 Dec 04 04:52	11° ∡ 52′53	0°10'35
inferior conj	3721 Dec 19 23:01	27° ₹ '57'36	1°03'19	minimum elong	3722 Dec 04 04:36	11° ₹ '53'46	0°10'28
minimum elong	3721 Dec 19 21:35	28° ₮ 02'28	1°02'45	transit middle	3722 Dec 04 04:36	11° ∡ ¹53'46	0°10'28
min. Earth dist.	3721 Dec 19 10:27	28° ҂ ¹40'35	0.67896 AU	transit begin	3722 Dec 04 02:30	12° ≯ 00'43	
morning rise	3721 Dec 25 05:59	21° 尽 51′21		transit end	3722 Dec 04 06:43	11° ∡ ¹46'48	
direct	3721 Dec 29 09:02	20° ∡ 15'44		morning rise	3722 Dec 09 17:01	5° ₹ 53'04	
morning max el	3722 Jan 06 16:44	25° ₹ 04'21	20°56'34	direct	3722 Dec 13 07:25	4° ∡ ³38'25	
	3722 Jan 11 01:30	0°ප		morning max el	3722 Dec 20 17:35	8° ∡ 750′29	19°47'18
desc. node	3722 Jan 23 00:19	16° る 26'33		greatest brilliancy	3723 Jan 03 01:07	26° ∡ ¹23'44	-0.7m
	3722 Feb 01 01:12	0° ≈			3723 Jan 05 11:09	0°る	
morning set	3722 Feb 05 17:51	7° ≈ 15'46		desc. node	3723 Jan 09 21:20	6° ප් 41'41	
max. Earth dist.	3722 Feb 13 20:36	20°≈11'59	1.42757 AU	morning set	3723 Jan 15 13:46	15° る 24'54	
	3722 Feb 19 18:41	0° ∀			3723 Jan 24 22:10	0° ≈	
	252251 20 20 25	101/10105	2005110	max. Earth dist.	3723 Jan 27 07:23	3° ≈ 46'37	1.44250 AU
superior conj	3722 Feb 20 20:35	1°) (49'25			2722 F 1 01 02 10	11020147	1050122
minimum elong	3722 Feb 20 20:37	1°) 49'32 22°) 19'47	2*07*18	superior conj	3723 Feb 01 03:10 3723 Jan 31 21:17	11°≈30'47 11°≈06'59	
evening rise	3722 Mar 04 13:54 3722 Mar 08 21:11	22 π 1947 0° γ		minimum elong	3723 Feb 12 07:16	0°) €	1 38 02
asc. node		9° Υ 59'45					
asc. Houe					2722 Eab 14 14.51	20¥55!26	
evening may el	3722 Mar 14 18:47		18°06'58	evening rise	3723 Feb 14 14:51	3°¥55'36	
evening max el	3722 Mar 21 10:06	18° Ƴ 47'05	18°06'58	asc. node	3723 Mar 01 15:49	28°) 11′53	
retrograde	3722 Mar 21 10:06 3722 Mar 28 00:26	18° Υ 47'05 22° Υ 10'20	18°06'58	asc. node	3723 Mar 01 15:49 3723 Mar 03 01:52	28°¥11'53 0°Υ	18°14'40
retrograde evening set	3722 Mar 21 10:06 3722 Mar 28 00:26 3722 Mar 30 17:01	18° Υ 47'05 22° Υ 10'20 21° Υ 36'27		asc. node evening max el	3723 Mar 01 15:49 3723 Mar 03 01:52 3723 Mar 04 22:52	28°¥11'53 0° Y 2° Y 04'39	18°14'40
retrograde evening set inferior conj	3722 Mar 21 10:06 3722 Mar 28 00:26 3722 Mar 30 17:01 3722 Apr 06 05:41	18° Y 47'05 22° Y 10'20 21° Y 36'27 16° Y 36'25	3°20'15	asc. node evening max el retrograde	3723 Mar 01 15:49 3723 Mar 03 01:52 3723 Mar 04 22:52 3723 Mar 11 09:10	28°¥11'53 0°°Y 2°°Y04'39 5°°Y30'21	18°14'40
retrograde evening set	3722 Mar 21 10:06 3722 Mar 28 00:26 3722 Mar 30 17:01 3722 Apr 06 05:41 3722 Apr 06 07:59	18° Υ 47'05 22° Υ 10'20 21° Υ 36'27	3°20'15 3°19'56	asc. node evening max el	3723 Mar 01 15:49 3723 Mar 03 01:52 3723 Mar 04 22:52 3723 Mar 11 09:10 3723 Mar 14 07:35	28° ★11'53 0° ♀ 2° ♀04'39 5° ♀30'21 4° ♀44'59	18°14'40
retrograde evening set inferior conj minimum elong min. Earth dist.	3722 Mar 21 10:06 3722 Mar 28 00:26 3722 Mar 30 17:01 3722 Apr 06 05:41 3722 Apr 06 07:59 3722 Apr 09 08:53	18°Y47'05 22°Y10'20 21°Y36'27 16°Y36'25 16°Y30'47	3°20'15	asc. node evening max el retrograde evening set	3723 Mar 01 15:49 3723 Mar 03 01:52 3723 Mar 04 22:52 3723 Mar 11 09:10	28° χ 11'53 0° Υ 2° Υ 04'39 5° Υ 30'21 4° Υ 44'59 30° R X	
retrograde evening set inferior conj minimum elong	3722 Mar 21 10:06 3722 Mar 28 00:26 3722 Mar 30 17:01 3722 Apr 06 05:41 3722 Apr 06 07:59 3722 Apr 09 08:53 3722 Apr 12 21:07	18°Y47'05 22°Y10'20 21°Y36'27 16°Y36'25 16°Y30'47 13°Y33'17	3°20'15 3°19'56	asc. node evening max el retrograde evening set inferior conj	3723 Mar 01 15:49 3723 Mar 03 01:52 3723 Mar 04 22:52 3723 Mar 11 09:10 3723 Mar 14 07:35 3723 Mar 19 20:12	28° ★11'53 0° ♀ 2° ♀04'39 5° ♀30'21 4° ♀44'59	
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	3722 Mar 21 10:06 3722 Mar 28 00:26 3722 Mar 30 17:01 3722 Apr 06 05:41 3722 Apr 06 07:59 3722 Apr 09 08:53	18°Y47'05 22°Y10'20 21°Y36'27 16°Y36'25 16°Y30'47 13°Y33'17 10°Y40'34	3°20'15 3°19'56	asc. node evening max el retrograde evening set	3723 Mar 01 15:49 3723 Mar 03 01:52 3723 Mar 04 22:52 3723 Mar 11 09:10 3723 Mar 14 07:35 3723 Mar 19 20:12 3723 Mar 20 08:46	28° ★11'53 0° ↑ 2° ↑04'39 5° ↑30'21 4° ↑44'59 30° ₹ 29° ★25'28	3°36'39
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	3722 Mar 21 10:06 3722 Mar 28 00:26 3722 Mar 30 17:01 3722 Apr 06 05:41 3722 Apr 06 07:59 3722 Apr 09 08:53 3722 Apr 12 21:07 3722 Apr 19 15:49	18°Y47'05 22°Y10'20 21°Y36'27 16°Y36'25 16°Y30'47 13°Y33'17 10°Y40'34 8°Y20'55	3°20'15 3°19'56 0.61330 AU	asc. node evening max el retrograde evening set inferior conj minimum elong	3723 Mar 01 15:49 3723 Mar 03 01:52 3723 Mar 04 22:52 3723 Mar 11 09:10 3723 Mar 14 07:35 3723 Mar 19 20:12 3723 Mar 20 08:46 3723 Mar 20 09:16	28° χ 11'53 0° Υ 2° Υ 04'39 5° Υ 30'21 4° Υ 44'59 30° R χ 29° χ 25'28 29° χ 24'05	3°36'39 3°36'37
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	3722 Mar 21 10:06 3722 Mar 28 00:26 3722 Mar 30 17:01 3722 Apr 06 05:41 3722 Apr 06 07:59 3722 Apr 09 08:53 3722 Apr 12 21:07 3722 Apr 19 15:49 3722 Apr 20 23:32	18°Y47'05 22°Y10'20 21°Y36'27 16°Y36'25 16°Y30'47 13°Y33'17 10°Y40'34 8°Y20'55 8°Y25'57	3°20'15 3°19'56 0.61330 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	3723 Mar 01 15:49 3723 Mar 03 01:52 3723 Mar 04 22:52 3723 Mar 11 09:10 3723 Mar 14 07:35 3723 Mar 19 20:12 3723 Mar 20 08:46 3723 Mar 20 09:16 3723 Mar 22 22:18	28° \ti1'53 0° \tag{2}° \tag{20}'39 5° \tag{30'21} 4° \tag{44'59} 30° \tag{2}'25'28 29° \tag{2}'24'05 26° \tag{3}'6'16	3°36'39 3°36'37
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retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise	3722 Mar 21 10:06 3722 Mar 28 00:26 3722 Mar 30 17:01 3722 Apr 06 05:41 3722 Apr 06 07:59 3722 Apr 09 08:53 3722 Apr 12 21:07 3722 Apr 19 15:49 3722 Apr 20 23:32 3722 May 03 20:54 3722 May 15 03:04 3722 Jun 01 23:42 3722 Jun 05 19:09 3722 Jun 10 18:04 3722 Jun 11 17:27 3722 Jun 13 03:36 3722 Jun 13 02:29 3722 Jun 16 04:53 3722 Jun 20 00:09 3722 Jul 01 06:46	18°Y47'05 22°Y10'20 21°Y36'27 16°Y36'25 16°Y30'47 13°Y33'17 10°Y40'34 8°Y20'55 8°Y25'57 16°Y18'02 0°B 0°II 7°I37'12 18°I05'07 20°I11'52 23°I18'17 23°I12'09 0°G 8°G13'43 0°R	3°20'15 3°19'56 0.61330 AU 27°49'04 1.32236 AU 0°24'58 0°24'44	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	3723 Mar 01 15:49 3723 Mar 03 01:52 3723 Mar 04 22:52 3723 Mar 11 09:10 3723 Mar 14 07:35 3723 Mar 19 20:12 3723 Mar 20 08:46 3723 Mar 20 09:16 3723 Mar 22 22:18 3723 Mar 26 09:58 3723 Apr 02 07:32 3723 Apr 07 20:33 3723 Apr 16 04:20 3723 Apr 17 13:18 3723 May 28 11:17 3723 May 28 11:17 3723 May 28 11:22	28° \(\) 11'53 0° \(\) 2° \(\) 04'39 5° \(\) 30'21 4° \(\) 44'59 30° \(\) \(\) 42'05 26° \(\) 36'16 23° \(\) 19'23 20° \(\) 37'06 22° \(\) 06'25 28° \(\) 34'57 0° \(\) 0° \(\) 21° \(\) 42'13 0° \(\) 1 2° \(\) 126'35 7° \(\) 152'58 7° \(\) 153'26	3°36'39 3°36'37 0.63375 AU 27°44'03 1.32856 AU -0°01'41
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise evening max el	3722 Mar 21 10:06 3722 Mar 28 00:26 3722 Mar 30 17:01 3722 Apr 06 05:41 3722 Apr 06 07:59 3722 Apr 09 08:53 3722 Apr 12 21:07 3722 Apr 19 15:49 3722 Apr 20 23:32 3722 May 03 20:54 3722 May 15 03:04 3722 Jun 01 23:42 3722 Jun 05 19:09 3722 Jun 10 18:04 3722 Jun 11 17:27 3722 Jun 13 02:29 3722 Jun 13 02:29 3722 Jun 16 04:53 3722 Jun 20 00:09 3722 Jul 01 06:46 3722 Jul 15 23:25	18°Y47'05 22°Y10'20 21°Y36'27 16°Y36'25 16°Y30'47 13°Y33'17 10°Y40'34 8°Y20'55 8°Y25'57 16°Y18'02 0°B 0°II 7°I37'12 18°I05'07 20°I11'52 23°I18'17 23°I12'09 0°S 8°S13'43 0°A 19°A41'05	3°20'15 3°19'56 0.61330 AU 27°49'04 1.32236 AU 0°24'58 0°24'44	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin	3723 Mar 01 15:49 3723 Mar 03 01:52 3723 Mar 04 22:52 3723 Mar 11 09:10 3723 Mar 14 07:35 3723 Mar 19 20:12 3723 Mar 20 08:46 3723 Mar 20 09:16 3723 Mar 20 09:16 3723 Mar 20 07:32 3723 Mar 26 09:58 3723 Apr 02 07:32 3723 Apr 07 20:33 3723 Apr 16 04:20 3723 Apr 17 13:18 3723 May 08 22:47 3723 May 20 17:06 3723 May 21 17:06 3723 May 24 18:19 3723 May 28 11:17 3723 May 28 11:22 3723 May 28 06:06	28° \(\) 11'53 0° \(\) 2° \(\) 04'39 5° \(\) 30'21 4° \(\) 44'59 30° \(\) \(\) 42'05 26° \(\) 36'16 23° \(\) 19'23 20° \(\) 37'06 22° \(\) 06'25 28° \(\) 34'57 0° \(\) 0° \(\) 21° \(\) 42'13 0° \(\) 1 2° \(\) 126'35 7° \(\) 152'58 7° \(\) 153'26 7° \(\) 125'05	3°36'39 3°36'37 0.63375 AU 27°44'03 1.32856 AU -0°01'41
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise evening max el desc. node	3722 Mar 21 10:06 3722 Mar 28 00:26 3722 Mar 30 17:01 3722 Apr 06 05:41 3722 Apr 06 07:59 3722 Apr 09 08:53 3722 Apr 12 21:07 3722 Apr 19 15:49 3722 Apr 20 23:32 3722 May 03 20:54 3722 May 15 03:04 3722 Jun 01 23:42 3722 Jun 05 19:09 3722 Jun 10 18:04 3722 Jun 11 17:27 3722 Jun 13 03:36 3722 Jun 13 02:29 3722 Jun 16 04:53 3722 Jun 20 00:09 3722 Jul 01 06:46 3722 Jul 15 23:25 3722 Jul 17 22:49	18°Y47'05 22°Y10'20 21°Y36'27 16°Y36'25 16°Y30'47 13°Y33'17 10°Y40'34 8°Y20'55 8°Y25'57 16°Y18'02 0°B 0°I 7°I37'12 18°I05'07 20°I11'52 23°I18'17 23°I12'09 0°S 8°S13'43 0°\U030'\U03	3°20'15 3°19'56 0.61330 AU 27°49'04 1.32236 AU 0°24'58 0°24'44	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end	3723 Mar 01 15:49 3723 Mar 03 01:52 3723 Mar 04 22:52 3723 Mar 11 09:10 3723 Mar 14 07:35 3723 Mar 19 20:12 3723 Mar 20 08:46 3723 Mar 20 09:16 3723 Mar 20 09:16 3723 Mar 20 07:32 3723 Apr 02 07:32 3723 Apr 07 20:33 3723 Apr 16 04:20 3723 Apr 17 13:18 3723 May 08 22:47 3723 May 20 17:06 3723 May 21 17:06 3723 May 22 11:17 3723 May 28 11:17 3723 May 28 11:22 3723 May 28 06:06 3723 May 28 16:38	28° \(\) 11'53 0° \(\) 2° \(\) 04'39 5° \(\) 30'21 4° \(\) 44'59 30° \(\) \(\) 42'05 26° \(\) 36'16 23° \(\) 19'23 20° \(\) 37'06 22° \(\) 06'25 28° \(\) 34'57 0° \(\) 0° \(\) 21' \(\) 42'13 0° \(\) 1 2° \(\) 26'35 7° \(\) 53'26 7° \(\) 152'58 7° \(\) 125'05 8° \(\) 121'48	3°36'39 3°36'37 0.63375 AU 27°44'03 1.32856 AU -0°01'41
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise evening max el desc. node retrograde	3722 Mar 21 10:06 3722 Mar 28 00:26 3722 Mar 30 17:01 3722 Apr 06 05:41 3722 Apr 06 07:59 3722 Apr 09 08:53 3722 Apr 12 21:07 3722 Apr 19 15:49 3722 Apr 20 23:32 3722 May 03 20:54 3722 May 15 03:04 3722 Jun 01 23:42 3722 Jun 05 19:09 3722 Jun 10 18:04 3722 Jun 11 17:27 3722 Jun 13 03:36 3722 Jun 13 02:29 3722 Jun 16 04:53 3722 Jun 10 06:46 3722 Jul 15 23:25 3722 Jul 17 22:49 3722 Jul 29 22:04	18°Y47'05 22°Y10'20 21°Y36'27 16°Y36'25 16°Y30'47 13°Y33'17 10°Y40'34 8°Y20'55 8°Y25'57 16°Y18'02 0°B 0°I 7°I37'12 18°I05'07 20°I11'52 23°I18'17 23°I12'09 0°S 8°S13'43 0°A 19°A41'05 21°A27'56 26°A44'29	3°20'15 3°19'56 0.61330 AU 27°49'04 1.32236 AU 0°24'58 0°24'44	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node	3723 Mar 01 15:49 3723 Mar 03 01:52 3723 Mar 04 22:52 3723 Mar 11 09:10 3723 Mar 14 07:35 3723 Mar 19 20:12 3723 Mar 20 08:46 3723 Mar 20 09:16 3723 Mar 20 09:16 3723 Mar 20 07:32 3723 Mar 26 09:58 3723 Apr 02 07:32 3723 Apr 07 20:33 3723 Apr 16 04:20 3723 Apr 17 13:18 3723 May 08 22:47 3723 May 20 17:06 3723 May 21 17:06 3723 May 22 11:17 3723 May 28 11:17 3723 May 28 11:22 3723 May 28 16:38 3723 May 28 16:38 3723 May 28 15:08	28° \(\) 11'53 0° \(\) 2° \(\) 0'4'39 5° \(\) 30'21 4° \(\) 44'59 30° \(\) \(\) 25'28 29° \(\) 24'05 26° \(\) 36'16 23° \(\) 19'23 20° \(\) 37'06 22° \(\) 406'25 28° \(\) 34'57 0° \(\) 0° \(\) 21° \(\) 42'13 0° \(\) 2° \(\) 26'35 7° \(\) 52'58 7° \(\) 53'26 7° \(\) 52'58 8° \(\) 21'48 8° \(\) 13'44	3°36'39 3°36'37 0.63375 AU 27°44'03 1.32856 AU -0°01'41
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise evening max el desc. node retrograde evening set	3722 Mar 21 10:06 3722 Mar 28 00:26 3722 Mar 30 17:01 3722 Apr 06 05:41 3722 Apr 06 07:59 3722 Apr 09 08:53 3722 Apr 12 21:07 3722 Apr 19 15:49 3722 Apr 20 23:32 3722 May 03 20:54 3722 May 15 03:04 3722 Jun 01 23:42 3722 Jun 05 19:09 3722 Jun 10 18:04 3722 Jun 11 17:27 3722 Jun 13 03:36 3722 Jun 13 02:29 3722 Jun 16 04:53 3722 Jun 17 22:49 3722 Jul 17 22:49 3722 Jul 17 22:49 3722 Jul 29 22:04 3722 Aug 04 05:22	18°Y47'05 22°Y10'20 21°Y36'27 16°Y36'25 16°Y30'47 13°Y33'17 10°Y40'34 8°Y20'55 8°Y25'57 16°Y18'02 0°B 0°I 7°I37'12 18°I05'07 20°I11'52 23°I18'17 23°I12'09 0°S 8°S13'43 0°A 19°A41'05 21°A27'56 26°A44'29 25°A40'39	3°20'15 3°19'56 0.61330 AU 27°49'04 1.32236 AU 0°24'58 0°24'44 24°51'36	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end	3723 Mar 01 15:49 3723 Mar 03 01:52 3723 Mar 04 22:52 3723 Mar 11 09:10 3723 Mar 14 07:35 3723 Mar 19 20:12 3723 Mar 20 08:46 3723 Mar 20 09:16 3723 Mar 22 22:18 3723 Mar 26 09:58 3723 Apr 07 20:33 3723 Apr 07 20:33 3723 Apr 16 04:20 3723 Apr 17 13:18 3723 May 28 22:47 3723 May 20 17:06 3723 May 24 18:19 3723 May 28 11:17 3723 May 28 11:22 3723 May 28 16:38 3723 May 28 15:08 3723 May 28 15:08 3723 May 28 15:08 3723 May 28 15:08	28° \(\) 11'53 0° \(\) 2° \(\) 00' \(\) 5° \(\) 30'21 4° \(\) 44'59 30° \(\) \(\) \(\) \(\) 25'28 29° \(\) 24'05 26° \(\) 36'16 23° \(\) 19'23 20° \(\) 37'06 22° \(\) 406'25 28° \(\) 34'57 0° \(\) 0° \(\) 21° \(\) 42'13 0° \(\) 2° \(\) 26'35 7° \(\) 53'26 7° \(\) 53'26 7° \(\) 25'05 8° \(\) 21'48 8° \(\) 113'44 23° \(\) 101'59	3°36'39 3°36'37 0.63375 AU 27°44'03 1.32856 AU -0°01'41
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist.	3722 Mar 21 10:06 3722 Mar 28 00:26 3722 Mar 30 17:01 3722 Apr 06 05:41 3722 Apr 06 07:59 3722 Apr 09 08:53 3722 Apr 12 21:07 3722 Apr 19 15:49 3722 Apr 20 23:32 3722 May 03 20:54 3722 May 15 03:04 3722 Jun 01 23:42 3722 Jun 05 19:09 3722 Jun 10 18:04 3722 Jun 11 17:27 3722 Jun 13 03:36 3722 Jun 13 02:29 3722 Jun 16 04:53 3722 Jun 17 22:49 3722 Jul 17 22:49 3722 Jul 29 22:04 3722 Aug 04 05:22 3722 Aug 09 10:54	18°Y47'05 22°Y10'20 21°Y36'27 16°Y36'25 16°Y30'47 13°Y33'17 10°Y40'34 8°Y20'55 8°Y25'57 16°Y18'02 0°B 0°I 7°I37'12 18°I05'07 20°I11'52 23°I18'17 23°I12'09 0°S 8°S13'43 0°A 19°A41'05 21°A27'56 26°A44'29 25°A40'39 22°A53'37	3°20'15 3°19'56 0.61330 AU 27°49'04 1.32236 AU 0°24'58 0°24'44 24°51'36	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node	3723 Mar 01 15:49 3723 Mar 03 01:52 3723 Mar 04 22:52 3723 Mar 11 09:10 3723 Mar 14 07:35 3723 Mar 19 20:12 3723 Mar 20 08:46 3723 Mar 20 09:16 3723 Mar 20 09:16 3723 Mar 20 07:32 3723 Apr 02 07:32 3723 Apr 07 20:33 3723 Apr 16 04:20 3723 Apr 17 13:18 3723 May 28 22:47 3723 May 20 17:06 3723 May 24 18:19 3723 May 28 11:22 3723 May 28 11:22 3723 May 28 16:38 3723 May 28 15:08 3723 May 28 15:08 3723 May 28 15:08 3723 Jun 04 12:00 3723 Jun 07 20:36	28° \(\) 11'53 0° \(\) 2° \(\) 00'4'39 5° \(\) 30'21 4° \(\) 44'59 30° \(\) \(\) \(\) 25'28 29° \(\) 22'528 29° \(\) 24'05 26° \(\) 36'16 23° \(\) 19'23 20° \(\) 37'06 22° \(\) 06'25 28° \(\) 34'57 0° \(\) 0° \(\) 21° \(\) 42'13 0° \(\) 2° \(\) 126'35 7° \(\) 152'58 7° \(\) 153'26 7° \(\) 125'05 8° \(\) 12'48 8° \(\) 113'44 23° \(\) 101'59 0° \(\)	3°36'39 3°36'37 0.63375 AU 27°44'03 1.32856 AU -0°01'41
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist. inferior conj	3722 Mar 21 10:06 3722 Mar 28 00:26 3722 Mar 30 17:01 3722 Apr 06 05:41 3722 Apr 06 07:59 3722 Apr 09 08:53 3722 Apr 12 21:07 3722 Apr 19 15:49 3722 Apr 20 23:32 3722 May 03 20:54 3722 May 15 03:04 3722 Jun 01 23:42 3722 Jun 05 19:09 3722 Jun 10 18:04 3722 Jun 11 17:27 3722 Jun 13 03:36 3722 Jun 13 02:29 3722 Jun 16 04:53 3722 Jun 17 22:49 3722 Jul 17 22:49 3722 Jul 29 22:04 3722 Aug 04 05:22 3722 Aug 09 10:54 3722 Aug 12 08:32	18°Y47'05 22°Y10'20 21°Y36'27 16°Y36'25 16°Y30'47 13°Y33'17 10°Y40'34 8°Y20'55 8°Y25'57 16°Y18'02 0°H 7°H37'12 18°H05'07 20°H11'52 23°H18'17 23°H12'09 0°G 8°G13'43 0°A 19°A41'05 21°A27'56 26°A44'29 25°A40'39 22°A53'37 20°A58'59	3°20'15 3°19'56 0.61330 AU 27°49'04 1.32236 AU 0°24'58 0°24'44 24°51'36 0.57204 AU -5°08'46	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node evening rise	3723 Mar 01 15:49 3723 Mar 03 01:52 3723 Mar 04 22:52 3723 Mar 11 09:10 3723 Mar 14 07:35 3723 Mar 19 20:12 3723 Mar 20 08:46 3723 Mar 20 09:16 3723 Mar 20 09:16 3723 Mar 20 09:16 3723 Mar 20 09:32 3723 Apr 02 07:32 3723 Apr 07 20:33 3723 Apr 16 04:20 3723 Apr 17 13:18 3723 May 08 22:47 3723 May 20 17:06 3723 May 24 18:19 3723 May 25 22:10 3723 May 28 11:17 3723 May 28 11:22 3723 May 28 16:38 3723 May 28 16:38 3723 May 28 15:08 3723 Jun 04 12:00 3723 Jun 07 20:36 3723 Jun 07 20:36 3723 Jun 27 08:51	28° \(\) 11'53 0° \(\) 2° \(\) 00'4'39 5° \(\) 30'21 4° \(\) 44'59 30° \(\) \(\) \(\) 42'52 29° \(\) 42'05 26° \(\) 36'16 23° \(\) 19'23 20° \(\) 37'06 22° \(\) 06'25 28° \(\) 34'57 0° \(\) 0° \(\) 21° \(\) 42'13 0° \(\) 1 2° \(\) 126'35 7° \(\) 152'58 7° \(\) 153'26 7° \(\) 125'05 8° \(\) 21'48 8° \(\) 113'44 23° \(\) 101'59 0° \(\) 0	3°36'39 3°36'37 0.63375 AU 27°44'03 1.32856 AU -0°01'41 0°01'40
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise evening max el desc. node retrograde evening set min. Earth dist.	3722 Mar 21 10:06 3722 Mar 28 00:26 3722 Mar 30 17:01 3722 Apr 06 05:41 3722 Apr 06 07:59 3722 Apr 09 08:53 3722 Apr 12 21:07 3722 Apr 19 15:49 3722 Apr 20 23:32 3722 May 03 20:54 3722 May 15 03:04 3722 Jun 01 23:42 3722 Jun 05 19:09 3722 Jun 10 18:04 3722 Jun 11 17:27 3722 Jun 13 03:36 3722 Jun 13 02:29 3722 Jun 16 04:53 3722 Jun 17 22:49 3722 Jul 17 22:49 3722 Jul 29 22:04 3722 Aug 04 05:22 3722 Aug 09 10:54	18°Y47'05 22°Y10'20 21°Y36'27 16°Y36'25 16°Y30'47 13°Y33'17 10°Y40'34 8°Y20'55 8°Y25'57 16°Y18'02 0°B 0°I 7°I37'12 18°I05'07 20°I11'52 23°I18'17 23°I12'09 0°S 8°S13'43 0°A 19°A41'05 21°A27'56 26°A44'29 25°A40'39 22°A53'37	3°20'15 3°19'56 0.61330 AU 27°49'04 1.32236 AU 0°24'58 0°24'44 24°51'36 0.57204 AU -5°08'46	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node	3723 Mar 01 15:49 3723 Mar 03 01:52 3723 Mar 04 22:52 3723 Mar 11 09:10 3723 Mar 14 07:35 3723 Mar 19 20:12 3723 Mar 20 08:46 3723 Mar 20 09:16 3723 Mar 20 09:16 3723 Mar 20 07:32 3723 Apr 02 07:32 3723 Apr 07 20:33 3723 Apr 16 04:20 3723 Apr 17 13:18 3723 May 28 22:47 3723 May 20 17:06 3723 May 24 18:19 3723 May 28 11:22 3723 May 28 11:22 3723 May 28 16:38 3723 May 28 15:08 3723 May 28 15:08 3723 May 28 15:08 3723 Jun 04 12:00 3723 Jun 07 20:36	28° \(\) 11'53 0° \(\) 2° \(\) 00'4'39 5° \(\) 30'21 4° \(\) 44'59 30° \(\) \(\) \(\) 25'28 29° \(\) 22'528 29° \(\) 24'05 26° \(\) 36'16 23° \(\) 19'23 20° \(\) 37'06 22° \(\) 06'25 28° \(\) 34'57 0° \(\) 0° \(\) 21° \(\) 42'13 0° \(\) 2° \(\) 126'35 7° \(\) 152'58 7° \(\) 153'26 7° \(\) 125'05 8° \(\) 12'48 8° \(\) 113'44 23° \(\) 101'59 0° \(\)	3°36'39 3°36'37 0.63375 AU 27°44'03 1.32856 AU -0°01'41 0°01'40

	2722 I1 11 00.40	CO O 5 4112			2724 I 20 16-24	1600-17151	
retrograde	3723 Jul 11 00:49	6° £ 54'13		retrograde	3724 Jun 20 16:24	16°547'54	
evening set	3723 Jul 14 19:57	6° £ 22'42	0.55675 ATT	desc. node	3724 Jun 20 16:51	16°547'54	
min. Earth dist.	3723 Jul 21 22:13		0.55675 AU	evening set	3724 Jun 23 05:28	16°933'16	2010125
inferior conj	3723 Jul 23 18:38	2° Ω 03'45		inferior conj	3724 Jul 02 14:31	12° © 31'33	
minimum elong	3723 Jul 23 12:03	2° Ω 13′27	4°38'09	minimum elong	3724 Jul 02 06:16	12°5643'04	
	3723 Jul 27 11:18	30° ₹ 5		min. Earth dist.	3724 Jul 02 08:54	12° © 39'24	0.54896 AU
morning rise	3723 Aug 01 06:32	28° © 10'37		morning rise	3724 Jul 11 08:17	8°538'32	
direct	3723 Aug 04 03:29	27° © 50'39		direct	3724 Jul 14 14:39	8° © 15'14	
	3723 Aug 11 04:33	$0^{\circ}\Omega$		morning max el	3724 Jul 26 20:22	14° © 00'22	21°55'31
morning max el	3723 Aug 14 19:02	2° Ω 47'15	20°25'39		3724 Aug 07 20:14	$0 {\circ} \Omega$	
asc. node	3723 Aug 24 14:19	15° Ω 44'17		asc. node	3724 Aug 10 11:22	4° Ω 41'43	
	3723 Sep 01 04:46	O° My		morning set	3724 Aug 16 21:53	17° Ω 28'59	
morning set	3723 Sep 02 12:19	2° Mp 40'26			3724 Aug 22 19:58	O° My	
superior conj	3723 Sep 10 02:24	18° Mp 16'34	1°44'27	superior conj	3724 Aug 24 03:06	2° Mp 44'01	1°41'55
minimum elong	3723 Sep 10 02:38	18° m 17'41	1°44'28	minimum elong	3724 Aug 24 01:59	2°m/38'10	1°41'51
max. Earth dist.	3723 Sep 15 05:20	28° Mp 25'35	1.36325 AU	max. Earth dist.	3724 Aug 27 19:19	10° m 20'31	1.34666 AU
	3723 Sep 16 01:00	0。 亚		evening rise	3724 Sep 01 06:47	19° m 13'15	
evening rise	3723 Sep 19 03:47	5° £ 50'45			3724 Sep 07 02:22	0∘ ⊽	
desc. node	3723 Sep 30 19:09	25° ≏ 46'20		desc. node	3724 Sep 16 16:11	15° £ 53'41	
	3723 Oct 03 12:09	0°M,			3724 Sep 26 14:13	0° M ₊	
evening max el	3723 Oct 24 20:28	27°M33'05	26°02'46	evening max el	3724 Oct 06 09:01	11° M 09'31	26°54'56
<i>y</i>	3723 Oct 27 13:20	0° ∡ 7		retrograde	3724 Oct 19 12:44	18° M ₊25'46	
retrograde	3723 Nov 06 09:40	4° √ 40'09		evening set	3724 Oct 26 06:13	15° M 44'37	
evening set	3723 Nov 12 14:44	2° ∡ 06'25		min. Earth dist.	3724 Oct 30 05:28	11°ML48'04	0.65616 AU
e renning see	3723 Nov 14 18:50	30°RM		inferior conj	3724 Nov 01 03:42	9°MJ34'35	
min. Earth dist.	3723 Nov 14 10:30	27°M33'47	0.66727 AU	minimum elong	3724 Nov 01 05:42	9°M26'00	
inferior conj	3723 Nov 18 20:43	25°M46'42		asc. node	3724 Nov 01 00:40	4°M27'01	1 43 30
minimum elong	3723 Nov 18 07:07 3723 Nov 18 08:22	25°M42'50	0°46'04	morning rise	3724 Nov 00 10:32 3724 Nov 07 07:56	3°M55'59	
C		23°M03'35	0 40 04	•			
asc. node	3723 Nov 20 13:31			direct	3724 Nov 10 02:57	3°M13'17	10015115
morning rise	3723 Nov 24 02:26	19°M55'58		morning max el	3724 Nov 16 15:34	6°M44'44	18°15'15
direct	3723 Nov 27 06:04	18°M59'07	10050106		3724 Dec 02 14:51	0° ∡ 7	
morning max el	3723 Dec 04 01:52	22°M45'40	18°53'06	morning set	3724 Dec 05 13:39	4° ≯ ¹48'13	
	3723 Dec 09 23:46	0° ∡		desc. node	3724 Dec 13 15:25	17° ≯ 50′22	
morning set	3723 Dec 25 23:32	24° ≯ 23'12					
desc. node	3723 Dec 27 18:22	27° ҂ 11'07		superior conj	3724 Dec 20 14:31	28° ₹ 53'15	-0°46'19
	3723 Dec 29 13:28	0°ප		minimum elong	3724 Dec 20 08:40	28° ₹ ³30′13	0°45'32
max. Earth dist.	3724 Jan 10 00:16	17° る 56'58	1.45098 AU		3724 Dec 21 07:28	0°ප	
				max. Earth dist.	3724 Dec 22 19:47	2°る22'47	1.45205 AU
superior conj	3724 Jan 11 11:48	20°る16'42	-1°29'55	evening rise	3725 Jan 05 21:05	24° る 20'59	
minimum elong	3724 Jan 11 02:36	19° る 40'27	1°29'00		3725 Jan 09 11:59	0° ≈	
	3724 Jan 17 15:20	0° ≈		greatest brilliancy	3725 Jan 17 12:19	12° ≈ 23'52	-0.7m
evening rise	3724 Jan 26 17:15	14° ≈ 34'37		evening max el	3725 Jan 29 18:35	29° ≈ 01'01	19°23'34
	3724 Feb 05 06:25	0° ∀			3725 Jan 30 18:43	0° ℋ	
evening max el	3724 Feb 16 10:27	15°) 30′47	18°40'36	asc. node	3725 Feb 02 09:50	2° 升 01'30	
asc. node	3724 Feb 16 12:49	15°) 36'48		retrograde	3725 Feb 05 22:09	3° ₩ 07'13	
retrograde	3724 Feb 23 01:31	19° ℋ 11'22		evening set	3725 Feb 09 09:38	1° ¥ 56'21	
evening set	3724 Feb 26 06:02	18° ¥ 13'39		C	3725 Feb 11 15:09	30°R≈	
inferior conj	3724 Mar 02 23:13	12°) 36′09	3°34'21	inferior conj	3725 Feb 14 21:41	26° ≈ 03'01	3°17'59
minimum elong	3724 Mar 02 22:12	12°) €39'14	3°34'16	minimum elong	3725 Feb 14 19:40	26° ≈ 09'34	3°17'40
min. Earth dist.	3724 Mar 04 21:03	10°) (17′20	0.65102 AU	min. Earth dist.	3725 Feb 16 04:26	24°≈23'07	0.66427 AU
morning rise	3724 Mar 08 13:54	6° ¥ 24'52	0.00102110	morning rise	3725 Feb 20 05:28	19°≈49'27	0.00.27110
direct	3724 Mar 15 06:22	3°) (34'07		direct	3725 Feb 26 11:26	17°≈03'10	
desc. node	3724 Mar 13 00:22	7° ∺ 51'18		morning max el	3725 Mar 10 23:47	24°≈29'37	25°59'33
	3724 Mar 28 14:04	11° H 22'35	27905104	desc. node	3725 Mar 10 23:47 3725 Mar 11 14:35	25°≈07'29	23 3933
morning max el	3724 Mar 28 14:04 3724 Apr 12 09:21	0° Υ	4/ 03 04	acsc. Hour	3725 Mar 11 14:35 3725 Mar 15 23:03	25° ≈ 0729 0° ∺	
	•	0°8				0° Υ	
morning4	3724 Apr 30 11:07			morning	3725 Apr 16 04:26	18° Y 04'26	
morning set	3724 May 03 05:29	5° 8 14'56	1 22021 ***	morning set	3725 Apr 16 04:26		1 25464 411
max. Earth dist.	3724 May 07 17:43	14° 8 11'13	1.33931 AU	max. Earth dist.	3725 Apr 20 01:55	25° Y 26'03 0° と	1.35464 AU
superior conj	3724 May 11 13:54	22° 8 07'36	-0.30,08		3725 Apr 22 10:02	v O	
minimum elong	3724 May 11 15:34 3724 May 11 15:28	22° 8 15'50		superior conj	3725 Apr 25 09:01	5° 8 55'15	0°50'05
C	•	28° 8 18'34	U 4240		•	6° 8 11'09	
asc. node	3724 May 14 12:08			minimum elong	3725 Apr 25 12:10	_	0 3031
arramiri-	3724 May 15 07:14	0° Ⅱ 7° Ⅱ 41!26		asc. node	3725 May 01 09:10	18° 8 16'05	
evening rise	3724 May 18 22:33	7° Ⅱ 41'26		evening rise	3725 May 03 05:49	22° 8 05'57	
evening max el	3724 May 30 20:55	0°95	21041120		3725 May 07 04:16	0°Ⅱ 210Ⅲ41147	20010140
	3724 Jun 08 06:14	10~9640'17	21°41'30	evening max el	3725 May 21 10:28	21° Ⅱ 41'47	20°19'48

retrograde	3725 Jun 01 05:54	26° ∏ 58′08			3726 May 01 02:00	0° I I	
evening set	3725 Jun 03 05:39	26° I I48'10		evening max el	3726 May 04 02:54	3° ∏ 24'51	19°16'49
desc. node	3725 Jun 07 13:50	25° I I25'10		retrograde	3726 May 13 05:31	7° Ⅱ 50'35	-, -, -,
inferior conj	3725 Jun 12 09:08	22° ∏ 49'53	-1°25'06	evening set	3726 May 15 06:01	7° Ⅱ 38'27	
minimum elong	3725 Jun 12 05:08	22° ∏ 55'46		inferior conj	3726 May 23 16:36	3° Ⅱ 29'41	0°30'41
min. Earth dist.	3725 Jun 13 21:08	21° ∏ 57′08	0.55059 AU	minimum elong	3726 May 23 17:52	3° Ⅱ 27'34	0°30'14
morning rise	3725 Jun 21 03:24	18° Ⅱ 36′17		desc. node	3726 May 25 10:50	2° Ⅱ 19'19	
direct	3725 Jun 25 01:06	18° Ⅱ 03′20		min. Earth dist.	3726 May 26 11:55	1° Ⅱ 38'22	0.56148 AU
morning max el	3725 Jul 08 13:14	24° Ⅱ 37'48	23°37'20		3726 May 29 06:00	30° ₹ 8	
	3725 Jul 13 11:55	0ಂತಾ		morning rise	3726 Jun 01 02:40	28° 8 41'57	
asc. node	3725 Jul 28 08:24	24°505'54		direct	3726 Jun 05 22:56	27° 8 47'57	
	3725 Jul 31 06:05	$0^{\circ}\Omega$			3726 Jun 13 13:53	\mathfrak{I} 0°	
morning set	3725 Aug 01 09:19	2° Ω 22'41		morning max el	3726 Jun 20 03:19	5° Ⅱ 01'40	25°18'00
					3726 Jul 08 02:16	0°ಅ	
superior conj	3725 Aug 08 09:40	17° Ω 28′21	1°33'15	asc. node	3726 Jul 15 05:28	13° 5 49'38	
minimum elong	3725 Aug 08 07:42	17° Ω 17'43	1°33'03	morning set	3726 Jul 16 21:01	17° © 16'36	
max. Earth dist.	3725 Aug 10 18:08	22° Ω 30′24	1.33399 AU		3726 Jul 22 17:52	$0^{\circ}\Omega$	
	3725 Aug 14 08:22	0° m					
evening rise	3725 Aug 15 22:10	3° Mp 11'13		superior conj	3726 Jul 23 19:48	2° Ω 22'10	1°19'25
	3725 Aug 30 21:30	0∘ ⊽		minimum elong	3726 Jul 23 17:28	2° Ω 09'23	1°19'05
desc. node	3725 Sep 03 13:12	5° ≏ 34'52		max. Earth dist.	3726 Jul 25 00:30	4° Ω 59'05	1.32548 AU
evening max el	3725 Sep 18 20:42	24° ≏ 29'07	27°23'17	evening rise	3726 Jul 30 22:28	17° Ω 34'56	
	3725 Sep 26 03:04	o° m ₊			3726 Aug 06 05:53	O° Mp	
retrograde	3725 Oct 02 09:59	1°M47'15		desc. node	3726 Aug 21 10:11	24° m 39'14	
	3725 Oct 08 05:24	30° ₹ Ω			3726 Aug 25 12:38	0∘ ত	
evening set	3725 Oct 09 12:12	29° ♀ 07'05		evening max el	3726 Sep 01 05:41	7° £ 20′13	27°21'52
min. Earth dist.	3725 Oct 13 05:37	25° ≏ 44'59	0.64153 AU	retrograde	3726 Sep 15 00:49	14° ≏ 35'39	
inferior conj	3725 Oct 15 16:12	23° £ 11'12	-2°47'50	evening set	3726 Sep 22 05:16	12° ≏ 08'11	
minimum elong	3725 Oct 15 20:52	22° ჲ 58'57	2°46'09	min. Earth dist.	3726 Sep 25 19:49	9° ≏ 14'23	0.62373 AU
morning rise	3725 Oct 22 06:47	17° ≏ 47'51		inferior conj	3726 Sep 28 17:49	6° £ 30'24	-3°46'01
asc. node	3725 Oct 24 07:35	17° ≏ 16'49		minimum elong	3726 Sep 28 23:35	6° £ 16'49	3°44'21
direct	3725 Oct 24 19:33	17° ≏ 15'33		morning rise	3726 Oct 05 19:34	1° ≏ 25'25	
morning max el	3725 Oct 31 07:58	20° ≏ 41'07	17°54'25	direct	3726 Oct 08 04:49	1° ≏ 00'02	
	3725 Nov 07 09:04	0° M,		asc. node	3726 Oct 11 04:39	1° ≏ 41'13	
morning set	3725 Nov 17 07:45	16°M34'36		morning max el	3726 Oct 15 00:02	4° ≙ 27 ' 57	17°51'27
	3725 Nov 25 06:48	0° ∡ ¹		morning set	3726 Oct 30 23:53	29° ≙ 24'32	
					3726 Oct 31 07:48	0° M	
superior conj	3725 Nov 30 07:53	8° ⊀ 16'42	0°01'20				
minimum elong	3725 Nov 30 08:02	8° ₰ 17'19	0°01'18	superior conj	3726 Nov 11 03:09	18°M56'44	
behind sun begin	3725 Nov 29 21:59	7° ∡ ³36'30		minimum elong	3726 Nov 11 06:49	19°M12'19	0°42'12
behind sun end	3725 Nov 30 18:06	8° ₹ 58'04		desc. node	3726 Nov 17 09:30	29°M22'44	
desc. node	3725 Nov 30 12:28	8° ₹ 35'16			3726 Nov 17 18:39	0° ∡ ¹	
max. Earth dist.	3725 Dec 05 14:18	16° ∡ ⁴43'38	1.44576 AU	max. Earth dist.	3726 Nov 18 05:16	0° ∡ 743′12	1.43302 AU
	3725 Dec 14 01:48	0°ಕ		evening rise	3726 Nov 25 20:01	12° ҂ 749′06	
evening rise	3725 Dec 16 09:03	3° る 33'04			3726 Dec 07 04:03	0° ප	
	3726 Jan 03 01:05	0° ≈		evening max el	3726 Dec 26 19:25	26° る 05'26	21°32'02
evening max el	3726 Jan 12 21:44	12° ≈ 32′29	20°21'46		3726 Dec 31 11:34	0° ≈	
asc. node	3726 Jan 20 06:51	17° ≈ 10'46		retrograde	3727 Jan 04 17:48	1°≈23'52	
retrograde	3726 Jan 20 20:16	17° ≈ 12′29		asc. node	3727 Jan 07 03:53	0° ≈ 52'01	
evening set	3726 Jan 24 16:12	15° ≈ 47'27		evening set	3727 Jan 08 23:55	29° る 43'32	
inferior conj	3726 Jan 30 01:26	9° ≈ 41'03	2°50'43		3727 Jan 08 15:17	30°Rる	
minimum elong	3726 Jan 29 22:58	9° ≈ 49'26	2°50'07	inferior conj	3727 Jan 14 08:13	23° ප් 27'12	
min. Earth dist.	3726 Jan 30 18:33	8° ≈ 42'54	0.67335 AU	minimum elong	3727 Jan 14 05:48	23° る 35'35	
morning rise	3726 Feb 04 05:32	3° ≈ 27'13		min. Earth dist.	3727 Jan 14 13:08	23° ろ 10'11	0.67848 AU
direct	3726 Feb 09 22:00	0° ≈ 55'10		morning rise	3727 Jan 19 11:29	17° 云 14'56	
morning max el	3726 Feb 21 08:28	7°≈45'17	24°37'10	direct	3727 Jan 24 13:17	15°る03'11	
desc. node	3726 Feb 26 11:38	13°≈28'31		morning max el	3727 Feb 03 17:35	21° る 05'54	23°08'14
	3726 Mar 10 18:03	0° ∀			3727 Feb 11 08:59	0° ≈	
morning set	3726 Mar 29 08:41	29°) 55'52		desc. node	3727 Feb 13 08:41	2°≈35'57	
	3726 Mar 29 09:37	0° Υ		_	3727 Mar 04 00:32	0° ∀	
max. Earth dist.	3726 Apr 02 00:04	6° Υ 27'20	1.37397 AU	morning set	3727 Mar 10 12:03	10°) 32′55	
				max. Earth dist.	3727 Mar 14 18:51	17°) 49'56	1.39560 AU
superior conj	3726 Apr 08 17:29	19° Y 07′28			3727 Mar 21 14:44	$\mathbf{\gamma}_{\circ}$	
minimum elong	3726 Apr 08 21:52	19° Y 28'45	1°25'58		0.000	1000	10.40:
	3726 Apr 14 05:41	0° 8		superior conj	3727 Mar 22 11:16	1° Y 34'24	
evening rise	3726 Apr 17 07:24	6° 8 08'16		minimum elong	3727 Mar 22 15:50		1°49'22
asc. node	3726 Apr 18 06:11	8° 8 01'26		evening rise	3727 Apr 01 00:26	19° Ƴ 41'00	

aga mada	2727 Amr. 05, 02:12	27° Ƴ 29'43		aca mada	2729 Mar 22 00:16	16° Ƴ 34'59	
asc. node	3727 Apr 05 03:13	0° 8		asc. node	3728 Mar 22 00:16	28° Υ 36'05	10011112
avanina may al	3727 Apr 06 11:53 3727 Apr 17 05:21	15° 8 45'55	18°34'00	evening max el	3728 Mar 30 14:24	0° 8	18°11'13
evening max el retrograde	3727 Apr 17 03:21 3727 Apr 24 23:10	19° 8 34'16	18 34 00	ratragrada	3728 Apr 01 04:38 3728 Apr 06 11:22	2° 8 03'59	
evening set	3727 Apr 24 23:10 3727 Apr 27 05:55	19° 8 15'33		retrograde evening set	3728 Apr 09 00:38	1° 8 35'59	
inferior conj	3727 May 04 20:35	14° 8 48'02	2°01'32	evening set	3728 Apr 12 00:14	1 O 33 39 30° R Υ	
minimum elong	3727 May 05 00:13	14° 8 40'58	2°00'28	inferior conj	3728 Apr 12 00:14 3728 Apr 15 21:39	26° Y 47'28	2°59'58
min. Earth dist.	3727 May 08 06:10	12° 8 10'56	0.57940 AU	minimum elong	3728 Apr 15 21:39 3728 Apr 16 00:51	26°\dagger40'13	2°59'20
desc. node	3727 May 08 00:10 3727 May 12 07:52	9° 8 36'09	0.57740 AO	min. Earth dist.	3728 Apr 10 00:31	23° Y 46'53	0.60076 AU
morning rise	3727 May 12 07:32 3727 May 12 15:22	9° 8 26'53		morning rise	3728 Apr 22 22:44	21° Υ '01'33	0.00070710
direct	3727 May 12 13:22 3727 May 18 11:08	8° 8 00'56		desc. node	3728 Apr 28 04:54	19° Υ 05'00	
morning max el	3727 Jun 01 20:12	15° 8 39'00	26°41'38	direct	3728 Apr 29 11:39	19° Υ '00'25	
morning max or	3727 Jun 13 11:23	0°II	20 1130	morning max el	3728 May 13 19:16	26° Y ′52'04	27°35'04
	3727 Jun 30 07:28	0°©		morning max or	3728 May 16 18:32	0°8	27 33 01
morning set	3727 Jul 01 07:18	2° © 04'37			3728 Jun 06 00:49	0°II	
asc. node	3727 Jul 02 02:31	3°5946'14		morning set	3728 Jun 14 14:30	16° ∏ 41'32	
ase. noue	3/2/ 041 02 02.31	301.		asc. node	3728 Jun 17 23:34	23° I 51'00	
superior conj	3727 Jul 08 07:30	17° © 18'03	1°01'10	use. noue	3728 Jun 20 19:19	0.2 2.100	
minimum elong	3727 Jul 08 05:17	17° © 05'49	1°00'46	max. Earth dist.	3728 Jun 20 23:05	0°920'40	1.32079 AU
max. Earth dist.	3727 Jul 08 11:21	17°539'20	1.32111 AU	max. Darm dist.	3720 Juli 20 23.03	0 020 10	1.52075110
max. Earth dist.	3727 Jul 14 03:19	0°Ω	1.52111110	superior conj	3728 Jun 21 19:02	2° © 10'19	0°39'08
evening rise	3727 Jul 15 04:46	2° Ω 14'40		minimum elong	3728 Jun 21 17:23	2°501'16	0°38'48
evening rise	3727 Jul 30 04:18	0° m)		evening rise	3728 Jun 28 14:49	17°503'06	0 30 10
desc. node	3727 Aug 08 07:13	12° m) 50'54		evening rise	3728 Jul 05 00:22	0°Ω	
evening max el	3727 Aug 14 09:23	19° m) 29'49	26°47'13	desc. node	3728 Jul 25 04:13	29° Ω 48'13	
retrograde	3727 Aug 28 07:46	26° m/40'51	20 1, 15	4000. 11040	3728 Jul 25 08:54	0° m	
evening set	3727 Sep 04 04:54	24° m/39'03		evening max el	3728 Jul 26 05:43	0° mp 50'52	25°40'49
min. Earth dist.	3727 Sep 07 01:31 3727 Sep 07 23:28	22° mp 01'44	0.60367 AU	retrograde	3728 Aug 09 05:05	7° mp 57'36	23 10 17
inferior conj	3727 Sep 11 05:04	19° m) 22'25		evening set	3728 Aug 15 06:16	6° mp 31'28	
minimum elong	3727 Sep 11 10:27	19° m) 11'18		min. Earth dist.	3728 Aug 19 17:47	3° m 53'34	0.58314 AU
morning rise	3727 Sep 11 10:27 3727 Sep 18 17:56	14° mp 38'45	13110	inferior conj	3728 Aug 22 22:23	1° Mp 37'18	
direct	3727 Sep 21 02:50	14° mp 17'21		minimum elong	3728 Aug 23 00:43	1° mp 33'08	
asc. node	3727 Sep 28 01:44	17° mp 30'36		g	3728 Aug 25 06:32	30°R Ω	0 00 22
morning max el	3727 Sep 28 12:30	17° mp 55'58	18°07'34	morning rise	3728 Aug 30 21:25	27° Ω 16'46	
morning max or	3727 Oct 07 04:30	0° ⊽	10 07 5 1	direct	3728 Sep 02 09:09	26° Ω 57'09	
morning set	3727 Oct 14 07:52	12° ♀ 59'23		4.1.001	3728 Sep 09 16:53	0° m)	
morning sec	3727 Oct 23 12:39	0°M		morning max el	3728 Sep 10 18:05	0° m/56'12	18°44'15
	3727 300 23 12.37	0 110		asc. node	3728 Sep 13 22:48	4° mp 30'24	1010
superior conj	3727 Oct 24 00:05	0°M51'21	1°13'23	morning set	3728 Sep 27 02:57	27° mp 05'55	
minimum elong	3727 Oct 24 04:12		1°12'55	morning sec	3728 Sep 28 14:36	0∘ ⊽	
max. Earth dist.	3727 Oct 31 15:29	14°M08'05	1.41534 AU		3720 Sep 20 11.50	~	
desc. node	3727 Nov 04 06:32	20°M08'55	1	superior conj	3728 Oct 05 17:51	13° ≏ 47'14	1°32'56
evening rise	3727 Nov 05 21:25	22°M46'50		minimum elong	3728 Oct 05 20:43	14° ⊆ 00'47	
e vennig rise	3727 Nov 10 10:39	0° ⊼ 7		max. Earth dist.	3728 Oct 12 21:23	26° £ 51'06	1.39488 AU
	3727 Dec 01 06:05	0°る		man. Darun uibt.	3728 Oct 14 16:35	0°M	1.59 100 110
evening max el	3727 Dec 09 12:16	9° ට 40'34	22°49'59	evening rise	3728 Oct 16 21:26	3°M46'29	
retrograde	3727 Dec 19 13:03	15° る 37'45	22 ., 0,	desc. node	3728 Oct 21 03:33	10°M50'25	
evening set	3727 Dec 24 07:08	13° る 41'12		4000. 11040	3728 Nov 02 15:23	0° ⊼	
asc. node	3727 Dec 25 00:57	13° る 01'22		evening max el	3728 Nov 21 01:49	23° √ 18'51	24°09'48
inferior conj	3727 Dec 29 16:02	7° る 18'30	1°31'15	retrograde	3728 Dec 02 04:50	29° х 50'36	_, ,,
minimum elong	3727 Dec 29 14:08	7° る 25'06	1°30'31	evening set	3728 Dec 07 12:14	27° ⋌ ³37'48	
min. Earth dist.	3727 Dec 29 09:43	7° る 40'22		asc. node	3728 Dec 10 22:00	23° × 755'37	
morning rise	3728 Jan 03 21:00	1° る 09'37		min. Earth dist.	3728 Dec 12 05:57	22° ✓ 10'25	0.67768 AU
	3728 Jan 05 15:16	30°R. ✓		inferior conj	3728 Dec 12 23:05	21° x 12'38	0°41'35
direct	3728 Jan 08 08:10	29° ₹ 20'45		minimum elong	3728 Dec 12 22:07	21° 🖈 12'56	0°41'10
	3728 Jan 11 05:21	0°る		morning rise	3728 Dec 18 08:02	15° ₹ 09'06	0 1110
morning max el	3728 Jan 17 06:45	[°] ਰ34'14	21°42'05	direct	3728 Dec 22 05:33	13° ∡ 42'41	
desc. node	3728 Jan 31 05:45	22° ට 16'30		morning max el	3728 Dec 30 03:06		20°25'25
	3728 Feb 05 13:24	0°≈			3729 Jan 08 14:38	0°중	
morning set	3728 Feb 18 10:31	19° ≈ 47'24		desc. node	3729 Jan 17 02:46	12°る20'47	
	3728 Feb 24 17:13	0° ∀		morning set	3729 Jan 27 10:14	28° පි 02'16	
max. Earth dist.	3728 Feb 24 18:20	0°) €04'38	1.41676 AU		3729 Jan 28 16:34	0° ≈	
max. Darm dist.	3/20100 27 10.20	0 MU+30	1.710/0 AU	max. Earth dist.	3729 Feb 06 01:31	0 ∞ 13°≈14'29	1.43461 AU
superior conj	3728 Mar 03 09:26	13°) €04'13	-2°04'35	max. Latin dist.	5/2/100 00 01.51	15 ~1447	1.75701 AU
minimum elong	3728 Mar 03 11:59	13° X 15'22		superior conj	3729 Feb 12 06:59	23° ≈ 25'05	-2°05'49
minimum clong	3728 Mar 12 19:24	13 γ (13 22	2 UT 3U	minimum elong	3729 Feb 12 00:39 3729 Feb 12 04:36	23°≈15'09	
evening rise	3728 Mar 14 05:18	0 1 2° Υ 35'44		mmmum ciong	3729 Feb 12 04.36 3729 Feb 16 05:12	23 ≈ 13 09	2 03 40
Croning 1150	3/20 Mai 17 03.10	4 1 JJ 11			5127100 10 UJ.12	υ Λ	

evening rise	3729 Feb 24 17:42 3729 Mar 05 14:39	14°) 42'35 0° Υ		max. Earth dist.	3730 Jan 19 15:12 3730 Jan 21 11:04	27° පි 06'21 0°≈	1.44692 AU
asc. node	3729 Mar 08 21:18	5°Υ08'54	10007155		2720 1 22 02 02	20 20157	10.4012.0
evening max el	3729 Mar 14 02:36	11° Υ 45'10	18°07'55	superior conj	3730 Jan 23 03:03	2°≈38'57	
retrograde	3729 Mar 20 14:04	15°Υ08'03		minimum elong	3730 Jan 22 19:02	2°≈07'04	1°48'02
evening set	3729 Mar 23 09:08	14° Y 29'21 9° Y 20'33	2920151	evening rise	3730 Feb 06 09:25	25°≈54'39 0°) €	
inferior conj	3729 Mar 29 16:25 3729 Mar 29 17:57	9° Υ 16'34	3°29'51 3°29'42	asc. node	3730 Feb 08 20:19 3730 Feb 23 18:19	0° X 23° ¥ 02'13	
minimum elong min. Earth dist.	3729 Apr 01 14:06	6° Υ 21'07	0.62225 AU	evening max el	3730 Feb 25 15:04	25°\(\frac{102}{13}\)	18°23'28
	•	3° Υ 19'27	0.62223 AU	-	3730 Mar 04 02:35	28°\(\frac{1}{3}\) 37'25	16 23 26
morning rise direct	3729 Apr 05 01:21 3729 Apr 11 22:11	3 1 1927 0° Υ 48'57		retrograde evening set	3730 Mar 07 03:24	28 X 37 23 27° X 47'02	
desc. node	3729 Apr 15 01:56	1° Υ 17'49		inferior conj	3730 Mar 13 00:47	27 X 4702 22° X 19'35	2027127
morning max el	3729 Apr 26 00:26	8° Υ 47'09	27°51'33	minimum elong	3730 Mar 13 00:47	22°\(\frac{1933}{20'10}\)	
morning max er	3729 May 12 08:59	。14709 0° と	27 31 33	min. Earth dist.	3730 Mar 15 07:42	19°) (41'36	0.64151 AU
	3729 May 29 04:38	0°II		morning rise	3730 Mar 18 21:01	16° X 10'29	0.04131 AU
morning set	3729 May 29 16:30	1° I I00'01		direct	3730 Mar 25 17:05	13° H 22'49	
max. Earth dist.	3729 Jun 04 07:35	12° Ⅱ 48'41	1.32452 AU	desc. node	3730 Apr 01 22:59	15°) 54'58	
asc. node	3729 Jun 04 20:36	13° I I58'52	1.32432 AO	morning max el	3730 Apr 08 09:22	21° H 18'55	27°31'15
asc. node	3/2/Juli 04 20.30	13 11 36 32		morning max ci	3730 Apr 15 22:34	0° Υ	27 31 13
superior conj	3729 Jun 06 04:36	16° Ⅱ 52'30	0°13'58		3730 May 05 12:06	0°8	
minimum elong	3729 Jun 06 03:57	16° Ⅱ 48'56	0°13'50	morning set	3730 May 13 10:47	14° 8 52'16	
behind sun begin	3729 Jun 06 01:23	16° Ⅱ 34'57	0 13 30	max. Earth dist.	3730 May 18 08:47	24° 8 50'53	1.33255 AU
behind sun end	3729 Jun 06 06:31	10 H 3437		max. Earth dist.	3730 May 20 19:33	0°II	1.55255 AO
belling sun eng	3729 Jun 12 05:26	0°9			3730 Way 20 19.33	υц	
evening rise	3729 Jun 13 02:31	1° 9 52'39		superior conj	3730 May 21 10:22	1° Ⅱ 18'50	-0°13'36
evening rise	3729 Jun 28 10:34	0°Ω		minimum elong	3730 May 21 10:22	1° Ⅱ 22'29	
evening max el	3729 Jul 28 10:34 3729 Jul 07 19:40	11° Ω 29'59	24°11'43	behind sun begin	3730 May 21 11:03 3730 May 21 08:07	1° I I06'50	0 1327
desc. node	3729 Jul 12 01:13	11 8€ 29 39	24 11 43	behind sun end	3730 May 21 14:00	1° I I38'10	
retrograde	3729 Jul 21 15:10	13° Ω 27'48		asc. node	3730 May 22 17:37	4° I 105'53	
evening set	3729 Jul 26 07:40	17° Ω 38'57		evening rise	3730 May 28 14:00	16° I I37'13	
min. Earth dist.	3729 Aug 01 06:19		0.56486 AU	evening rise	3730 Jun 04 05:54	0° 9	
inferior conj	3729 Aug 03 19:29	13°Ω07'01		evening max el	3730 Jun 19 09:34	21° 9 54'20	22°34'51
minimum elong	3729 Aug 03 16:06	13°Ω12'18		desc. node	3730 Jun 28 22:13	27°956'28	22 3431
morning rise	3729 Aug 12 03:10	9° Ω 06'58	3 01 37	retrograde	3730 Jul 02 13:05	28°\$26'34	
direct	3729 Aug 12 03:10 3729 Aug 14 20:06	8° Ω 47'41		evening set	3730 Jul 02 13:03	28° 5 04'14	
morning max el	3729 Aug 24 13:47	13° Ω 19'24	19°42'35	min. Earth dist.	3730 Jul 13 17:11	24°934'56	0.55232 AU
asc. node	3729 Aug 31 19:50	22°Ω25'39	17 42 33	inferior conj	3730 Jul 14 22:19	23°953'26	
asc. node	3729 Sep 05 06:38	0° m		minimum elong	3730 Jul 14 14:15	24° © 04'57	
morning set	3729 Sep 03 00:38 3729 Sep 11 05:38	11° m)34'19		morning rise	3730 Jul 23 13:05	24 3 0437 20° 5 02'39	4 09 29
morning set	3727 Sep 11 03.30	11 11/13-17		direct	3730 Jul 26 13:15	19° 5 41'55	
superior conj	3729 Sep 19 03:01	27° mp 28'57	1°42'41	morning max el	3730 Aug 06 21:49	24°\$58'46	21°01'53
minimum elong	3729 Sep 19 04:10	27° m/34'40	1°42'38	morning max or	3730 Aug 11 11:06	0°Ω	21 0133
minimum ciong	3729 Sep 19 04:10 3729 Sep 20 09:42	ე∘ ი	1 42 30	asc. node	3730 Aug 18 16:51	11° Ω 03'29	
max. Earth dist.	3729 Sep 25 01:56	° – 8° ≏ 56'56	1.37420 AU	morning set	3730 Aug 26 13:15	26° Ω 17'02	
evening rise	3729 Sep 28 20:16	15° ≏ 49'29	1.5 / 1.20 110	morning sec	3730 Aug 28 08:11	0° m	
evening noe	3729 Oct 07 03:58	0°M			575011 48 20 00.11	∵. γ	
desc. node	3729 Oct 08 00:34	1°M23'09		superior conj	3730 Sep 02 23:03	11° m 42'47	1°44'12
	3729 Oct 28 05:05	0° ∡ ¹		minimum elong	3730 Sep 02 22:39	11° m)40'44	1°44'11
evening max el	3729 Nov 03 14:03	7° ∡ 00'14	25°24'44	max. Earth dist.	3730 Sep 07 10:51	20° m 47'26	1.35569 AU
retrograde	3729 Nov 15 16:20	13° ₹ 58'12		evening rise	3730 Sep 11 14:16	28° m 46'30	
evening set	3729 Nov 21 13:37	11° ∡ ³30'54		Č	3730 Sep 12 05:59	0∘ <u>⊽</u>	
min. Earth dist.	3729 Nov 25 23:37	6° ≯ ³38'02	0.67202 AU	desc. node	3730 Sep 24 21:34	21° ≏ 41'30	
inferior conj	3729 Nov 27 03:37	5° ∡ 07'39	-0°13'13		3730 Sep 30 09:24	0°M	
minimum elong	3729 Nov 27 03:58	5° х 06'34		evening max el	3730 Oct 17 02:25	20°M40'42	26°27'27
transit middle	3729 Nov 27 03:58	5° ∡ ¹06'34	0°13'04	retrograde	3730 Oct 29 22:50	27°M53'41	
transit begin	3729 Nov 27 02:19	5° √ 11'53		evening set	3730 Nov 05 09:20	25°M15'54	
transit end	3729 Nov 27 05:37	5° ∡ 01'14		min. Earth dist.	3730 Nov 09 12:21	20°M58'33	0.66291 AU
asc. node	3729 Nov 27 19:02	4° ≯ 18'09		inferior conj	3730 Nov 11 03:43	18°M59'25	
	3729 Dec 01 16:46	30°RM₊		minimum elong	3730 Nov 11 05:40	18°M53'29	1°11'04
morning rise	3729 Dec 02 18:37	29°M11'36		asc. node	3730 Nov 14 16:03	15°M04'49	•
direct	3729 Dec 06 04:07	28°M05'09		morning rise	3730 Nov 17 02:38	13°M13'28	
	3729 Dec 10 22:40	0° ∡ ¹		direct	3730 Nov 20 02:12	12°M23'15	
morning max el	3729 Dec 13 07:24	2° ₹ '05'01	19°22'22	morning max el	3730 Nov 26 18:17	16°M02'36	18°34'56
greatest brilliancy	3729 Dec 26 16:38	20° ₹ 00'47	-0.7m	<i>3</i>	3730 Dec 07 03:26	0° ∡ 7	
<u> </u>	3730 Jan 02 05:38	ිප 0°ප		morning set	3730 Dec 17 06:13	15° ₹ 57'34	
desc. node	3730 Jan 03 23:49	2° る 42'39		desc. node	3730 Dec 21 20:51	23° х 16′30	
morning set	3730 Jan 06 09:12	6° る 24'36			3730 Dec 26 03:03	0°る	
<u> </u>							

superior conj	3731 Jan 02 06:36	11° る 13'50	-1°12'//3	morning set	3731 Nov 28 08:49	26°M59'14	
minimum elong	3731 Jan 02 00:30	11 3 13 30	1°11'43	morning set	3731 Nov 28 08:49 3731 Nov 30 04:29	20 II c 39 14 0° √	
max. Earth dist.	3731 Jan 02 09:01	10 3 4023	1.45233 AU	desc. node	3731 Nov 30 04.29	13° х 58'23	
max. Lartii dist.	3731 Jan 14 04:47	0°≈	1.43233710	desc. node	3731 Dec 00 17.33	13 × 3023	
evening rise	3731 Jan 18 01:49	6°≈09'18		superior conj	3731 Dec 12 13:19	20° ∡ °04'11	-0°25'53
greatest brilliancy	3731 Jan 26 18:59	20°≈00'33	-0.8m	minimum elong	3731 Dec 12 10:05	19° х 51'20	0°25'26
greatest oriniancy	3731 Feb 02 07:56	0° ∀	0.0111	max. Earth dist.	3731 Dec 12 10:03	25° × ⁷ 48'31	1.45031 AU
evening max el	3731 Feb 02 07:30	8°) 34′23	18°56'55	max. Earth dist.	3731 Dec 18 20:21	0°중	1.43031710
asc. node	3731 Feb 10 15:20	10° ₩ 03'03	10 20 33	evening rise	3731 Dec 28 21:29	ა ප 15° පි 37'15	
retrograde	3731 Feb 15 21:02	12° ∺ 24'45		evening rise	3732 Jan 07 06:02	0°≈	
evening set	3731 Feb 19 21:02	11°) (21'44		greatest brilliancy	3732 Jan 11 09:14	6°≈13'58	-0.7m
inferior conj	3731 Feb 24 19:01	5°) 37′27	3°28'53	evening max el	3732 Jan 23 07:38	22°≈05'39	19°46'43
minimum elong	3731 Feb 24 17:30	5°) (42'11	3°28'43	asc. node	3732 Jan 28 12:22	25°≈57'31	17 40 45
min. Earth dist.	3731 Feb 24 17:30	3°) (34'09	0.65718 AU	retrograde	3732 Jan 30 18:27	26°≈24'58	
mm. Latti dist.	3731 Mar 01 15:03	30°R≈	0.03710 AC	evening set	3732 Feb 03 09:24	25°≈08'11	
morning rise	3731 Mar 02 06:19	29° ≈ 24'48		inferior conj	3732 Feb 08 20:02	19°≈09'10	3°07'35
direct	3731 Mar 02 00:15	26°≈34'09		minimum elong	3732 Feb 08 20:02	19°≈16'43	3°07'08
direct	3731 Mar 17 00:17	20 ≈ 3409		min. Earth dist.	3732 Feb 08 17:43 3732 Feb 09 20:49	17°≈46'53	0.66871 AU
daga mada		2° ¥ 21'52				17 ≈40 33 12°≈55'29	0.008/1 AU
desc. node	3731 Mar 19 20:01	4°\dagger 15'38	26920149	morning rise direct	3732 Feb 14 01:53	12 ≈33 29 10°≈14'05	
morning max el	3731 Mar 21 19:14	4°π15'38 0°Υ	20-3948		3732 Feb 20 02:30		25925152
	3731 Apr 10 09:18			morning max el	3732 Mar 03 04:14	17°≈26'09	25°25'52
morning set	3731 Apr 26 18:01	28° Y 08'14		desc. node	3732 Mar 05 17:04	20°≈08'06	
	3731 Apr 27 17:27	0°8			3732 Mar 13 16:29	0°) €	
max. Earth dist.	3731 Apr 30 23:17	6° 8 20'16	1.34520 AU		3732 Apr 02 09:01	0°Υ	
		4.		morning set	3732 Apr 08 09:40	10° Y 34'28	
superior conj	3731 May 05 10:09	15° 8 23'00		max. Earth dist.	3732 Apr 12 02:30	17° Y 24'53	1.36245 AU
minimum elong	3731 May 05 12:24	15° 8 34'36	0°42'01				
asc. node	3731 May 09 14:39	24° 8 08'10		superior conj	3732 Apr 18 01:11	28° Y 56'46	
	3731 May 12 09:46	$\Pi^{\circ}0$		minimum elong	3732 Apr 18 04:55	29° Y 15′23	1°10'28
evening rise	3731 May 12 23:24	1° Ⅱ 10'53			3732 Apr 18 13:52	9° 8	
	3731 May 29 20:47	0 \circ		asc. node	3732 Apr 25 11:41	14° 8 01'00	
evening max el	3731 Jun 01 07:23	2° © 36'54	21°04'50	evening rise	3732 Apr 26 04:34	15° 8 26'40	
retrograde	3731 Jun 13 02:15	8° 5 23'19			3732 May 03 18:01	Π $\circ 0$	
evening set	3731 Jun 15 07:18	8°911'55		evening max el	3732 May 13 16:58	13° Ⅱ 55'56	19°50'37
desc. node	3731 Jun 15 19:13	8° 5 06'19		retrograde	3732 May 23 18:14	18° ∏ 49'16	
inferior conj	3731 Jun 24 15:57	4°গু14'05	-2°33'33	evening set	3732 May 25 17:21	18° Ⅲ 38'54	
minimum elong	3731 Jun 24 08:59	4° 5 23'54	2°31'12	desc. node	3732 Jun 01 16:15	15° Ⅱ 47'13	
min. Earth dist.	3731 Jun 25 04:45	3° 9 56'03	0.54840 AU	inferior conj	3732 Jun 03 14:30	14° Ⅲ 37'40	-0°34'11
morning rise	3731 Jul 03 10:47	0°9514'22		minimum elong	3732 Jun 03 12:56	14° Ⅱ 40′04	0°33'35
	3731 Jul 04 14:20	30° Ŗ Ⅱ		min. Earth dist.	3732 Jun 05 17:44	13° Ⅲ 19'21	0.55419 AU
direct	3731 Jul 06 22:48	29° Ⅱ 47'54		morning rise	3732 Jun 12 06:25	10° Ⅱ 10'51	
	3731 Jul 09 06:26	0ංම		direct	3732 Jun 16 13:23	9° Ⅱ 30'19	
morning max el	3731 Jul 19 19:00	5° © 55'21	22°37'57	morning max el	3732 Jun 30 09:40	16° Ⅱ 22'37	24°21'14
C	3731 Aug 05 11:02	$0^{\circ}\Omega$		Č	3732 Jul 11 08:48	0°ಅ	
asc. node	3731 Aug 05 13:54	0° Ω 13'39		asc. node	3732 Jul 22 10:57	19° © 46'51	
morning set	3731 Aug 10 23:51	11° Ω 08'47		morning set	3732 Jul 25 11:38	26°503'09	
8				3 3 3 3 3	3732 Jul 27 08:00	$0^{\circ}\Omega$	
superior conj	3731 Aug 18 02:36	26° Ω 18'55	1°38'55			• ••	
minimum elong	3731 Aug 18 01:04	26° Ω 10'45	1°38'49	superior conj	3732 Aug 01 10:56	11° Ω 07'51	1°27'57
viong	3731 Aug 19 20:26	0° m)	1 30 .	minimum elong	3732 Aug 01 08:45	10°Ω55'59	1°27'42
max. Earth dist.	3731 Aug 21 04:37	2° Mp 48'01	1.34079 AU	max. Earth dist.	3732 Aug 03 07:11		1.32991 AU
evening rise	3731 Aug 25 23:06	12° m) 26'20	1.5 1075 110	evening rise	3732 Aug 08 18:41	26° Ω 36'26	1.52))1710
evening rise	3731 Sep 04 13:03	0° ⊡		evening rise	3732 Aug 10 11:16	0° m	
desc. node	3731 Sep	0 — 11° ≏ 39'01			3732 Aug 27 21:23	0∘ ʊ بالا	
desc. Hode	3731 Sep 11 18:33 3731 Sep 25 13:49	0° M		desc. node	3732 Aug 27 21:23 3732 Aug 28 15:36	0 = 1° ⊆ 06'02	
avanina may al	3731 Sep 23 13:49 3731 Sep 29 14:59	4°ML12'20	27°10'19	evening max el	3732 Aug 28 13:30 3732 Sep 11 02:02	17° £ 22'03	27926125
evening max el		11°ML30'00	2/ 1019	•	=	24° £ 38'24	27 20 33
retrograde	3731 Oct 12 23:32 3731 Oct 19 21:09	8°M48'23		retrograde	3732 Sep 24 17:55 3732 Oct 01 22:06	24° £ 38′24 22° £ 02'22	
evening set			0.65027 411	evening set			0.62420 411
min. Earth dist.	3731 Oct 23 17:51		0.65037 AU	min. Earth dist.	3732 Oct 05 13:55	18° £ 53'15	0.63439 AU
inferior conj	3731 Oct 25 21:13	2°M43'41		inferior conj	3732 Oct 08 05:29	16° £ 13'58	
minimum elong	3731 Oct 26 00:56	2°M33'19	2~11'18	minimum elong	3732 Oct 08 10:44	16° Ω 00'47	5 11 22
	3731 Oct 28 10:53	30° ₹ Ω		morning rise	3732 Oct 15 00:44	10° £ 57'49	
morning rise	3731 Nov 01 05:41	27° £ 10′50		direct	3732 Oct 17 11:47	10° £ 28'42	
asc. node	3731 Nov 01 13:05	27° £ 02'39		asc. node	3732 Oct 18 10:09	10° £ 32'58	1505015
direct	3731 Nov 03 21:42	26° £ 32'59		morning max el	3732 Oct 24 02:01	13° £ 54'02	17~50'51
	3731 Nov 10 08:59	0°M	1000		3732 Nov 04 04:48	0°M	
morning max el	3731 Nov 10 09:26	0°M01'06	18°04'09	morning set	3732 Nov 09 13:09	9° M 15′27	

superior conj	3732 Nov 21 17:05	29°M58'33	0°20'03		3733 Oct 09 21:47	0∘ ⊽	
minimum elong	3732 Nov 21 19:10	0° ₰ 07'06	0°19'45	morning set	3733 Oct 23 12:41	22° ≏ 26′19	
	3732 Nov 21 17:26	0° ∡ ¹			3733 Oct 27 16:21	0° M	
desc. node	3732 Nov 24 14:55	4° ≯ ¹44'46					
max. Earth dist.	3732 Nov 27 22:09	10° ≯ 04'21	1.44113 AU	superior conj	3733 Nov 02 23:45	11°M11'56	0°57'07
evening rise	3732 Dec 07 07:02	24° ∡ ¹46′29		minimum elong	3733 Nov 03 03:54	11°M29'59	0°56'35
	3732 Dec 10 16:54	0°ප		max. Earth dist.	3733 Nov 10 11:31	23°M51'55	1.42597 AU
	3732 Dec 31 12:09	0° ≈		desc. node	3733 Nov 11 11:56	25°M32'04	
evening max el	3733 Jan 05 08:33	5° ≈ 38'12	20°50'26		3733 Nov 14 06:08	0° ∡ ¹	
retrograde	3733 Jan 13 16:32	10° ≈ 33'48		evening rise	3733 Nov 16 22:31	4° ⋌ 16'05	
asc. node	3733 Jan 14 09:24	10° ≈ 31'05			3733 Dec 04 02:08	0°ප	
evening set	3733 Jan 17 16:42	9° ≈ 02'10		evening max el	3733 Dec 19 03:54	19° る 11'25	22°04'32
inferior conj	3733 Jan 23 01:19	2°≈51'07	2°36'24	retrograde	3733 Dec 28 13:22	24° පි 46'54	
minimum elong	3733 Jan 22 22:49	2°≈59'43	2°35'41	asc. node	3734 Jan 01 06:28	23° る 32'57	
min. Earth dist.	3733 Jan 23 13:01	2°≈10'57	0.67604 AU	evening set	3734 Jan 02 00:24	22° る 59'32	
	3733 Jan 25 04:07	30°R₹		inferior conj	3734 Jan 07 08:46	16° る 39'46	1°57'04
morning rise	3733 Jan 28 04:46	26° පි 38'00		minimum elong	3734 Jan 07 06:30	16° る 47'37	1°56'16
direct	3733 Feb 02 15:04	24° る 14'16		min. Earth dist.	3734 Jan 07 08:42	16°る39'58	0.67948 AU
	3733 Feb 12 18:53	0° ≈		morning rise	3734 Jan 12 12:28	10°る28'46	
morning max el	3733 Feb 13 12:49	0°≈44'23	23°59'36	direct	3734 Jan 17 07:51	8°중26'55	
desc. node	3733 Feb 20 14:07	8°≈50'57		morning max el	3734 Jan 26 23:23	14° る 08'35	22°30'48
	3733 Mar 07 15:02	0° ∀		desc. node	3734 Feb 07 11:09	28° ♂ 13'44	
morning set	3733 Mar 21 04:05	21°) 56'14		dese. Hode	3734 Feb 08 17:54	0°≈	
max. Earth dist.	3733 Mar 24 22:49	28°) 33'35	1.38308 AU		3734 Feb 28 14:15	0° ∀	
max. Earth dist.	3733 Mar 25 18:08	0°Υ	1.50500110	morning set	3734 Mar 01 19:18	1° ¥ 58'11	
	3733 Wai 23 10.00	0 1		max. Earth dist.	3734 Mar 06 19:00		1.40483 AU
superior conj	3733 Apr 01 03:59	11° Υ 51'25	-1°37'10	max. Lartii dist.	3734 Wai 00 17.00	10 /(1045	1.40405 710
minimum elong	3733 Apr 01 08:38	12° Υ 13'31		superior conj	3734 Mar 14 13:58	23° ¥ 55′00	-1°57'23
evening rise	3733 Apr 10 02:57	29° Υ 17'58	1 30 30	minimum elong	3734 Mar 14 18:01	24° X 13'16	
evening rise	3733 Apr 10 02:37	0° 8		minimum clong	3734 Mar 17 21:57	0° Υ	1 37 00
asc. node	3733 Apr 10 11:32 3733 Apr 12 08:44	3° 8 40'09		evening rise	3734 Mar 24 15:17	12° Υ 35'39	
evening max el	3733 Apr 26 13:59	25° 8 55'39	18°56'02	asc. node	3734 Mar 30 05:46	22° Υ 59'34	
evening max er	3733 Apr 20 13.39 3733 May 03 23:39	0° Ⅱ	18 30 02	asc. nouc	3734 Mai 30 03:40 3734 Apr 03 08:19	0° 8	
ratragrada	3733 May 05 23:39 3733 May 05 01:16	0° П 03'50		evening max el	3734 Apr 09 19:34	8° 8 29'45	18°21'50
retrograde	3733 May 05 01:10 3733 May 06 03:12	30°R B		retrograde	3734 Apr 17 03:16	12° 8 07'45	18 21 30
ovening set	3733 May 07 04:13	29° 8 49'16		evening set	3734 Apr 17 03:10 3734 Apr 19 12:42	12 8 07 43	
evening set inferior conj	3733 May 07 04:13	25° 8 32'38	1°13'08	inferior conj	3734 Apr 26 19:26	7° 8 09'04	2°30'12
minimum elong	3733 May 15 08:55	25° 8 27'51	1°12'13	minimum elong	*	7° 8 09'04	
Č	3733 May 18 09:32			e e	3734 Apr 26 23:08		0.58824 AU
min. Earth dist.		23 8 1934 22° 8 34'11	0.56846 AU	min. Earth dist.	3734 Apr 30 06:03	1° 8 35'41	0.38824 AU
desc. node morning rise	3733 May 19 13:17 3733 May 23 10:25	22 8 3411		morning rise desc. node	3734 May 04 06:38 3734 May 06 10:19	0° 8 37'38	
•	•	19° 8 23'47		desc. node	•	30°RΥ	
direct	3733 May 28 16:51 3733 Jun 12 00:26	26° 8 48'52	25957140	J:4	3734 May 09 00:25 3734 May 10 10:33	30° √ 1 29° ⋎ 54'37	
morning max el	3733 Jun 15 01:49	20 O 48 32 0° Ⅱ	23 30 40	direct	•	0° 8	
	3733 Jul 13 01:49 3733 Jul 04 13:49	0°9		mamina may al	3734 May 11 21:00	7° 8 40'19	27909142
				morning max el	3734 May 24 19:59	0° I	27 08 43
asc. node	3733 Jul 09 08:01	9°536'34			3734 Jun 10 15:30		
morning set	3733 Jul 09 22:57	10°955'06		morning set	3734 Jun 24 08:08	25° Ⅲ 39'17 29° Ⅲ 37'20	
superior coni	3733 Jul 16 21:57	26°902'51	1012110	asc. node	3734 Jun 26 05:04 3734 Jun 26 09:18	29 H 3720	
superior conj		26 \$02 31 25°\$49'58			3/34 Juli 20 09.18	0 29	
minimum elong	3733 Jul 16 19:36				2724 I1 01 00.47	100057150	0953114
max. Earth dist.	3733 Jul 17 16:01	27°542'08	1.32313 AU	superior conj	3734 Jul 01 09:47	10°957'59	
	3733 Jul 18 17:10	0° Ω		minimum elong	3734 Jul 01 07:45	10°546'49	0°51'51
evening rise	3733 Jul 23 21:50	11° Ω 07'25		max. Earth dist.	3734 Jul 01 03:36	10°523'51	1.32040 AU
1 1	3733 Aug 02 16:38	0° Mp		evening rise	3734 Jul 08 05:58	25°951'29	
desc. node	3733 Aug 15 12:36	19° m 49'58			3734 Jul 10 05:36	Ω°	
	3733 Aug 24 10:38	0° ⊽	27011100	1 1	3734 Jul 27 11:26	0°M) 70m-22122	
evening max el	3733 Aug 24 08:59	29° M 56'06	2/°11'08	desc. node	3734 Aug 02 09:37	7° m 33'23	0.00000
retrograde	3733 Sep 07 05:19	7° Ω 09'28		evening max el	3734 Aug 06 09:26	11° Mp 44'42	26~22729
evening set	3733 Sep 14 08:19	4° £ 51'06	0.61542.411	retrograde	3734 Aug 20 08:47	18° m 55'03	
min. Earth dist.	3733 Sep 17 23:18		0.61543 AU	evening set	3734 Aug 26 23:06	17° Mp 07'14	0.50452.137
	3733 Sep 20 08:33	30°₹ ™	4000120	min. Earth dist.	3734 Aug 30 22:40	-	0.59476 AU
inferior conj	3733 Sep 21 01:22	29° Tp 22'21		inferior conj	3734 Sep 03 05:24	11° m 59'52	
minimum elong	3733 Sep 21 07:15	29° m 09'18	4~07'02	minimum elong	3734 Sep 03 09:52	11° Mp 51'11	4~50/38
morning rise	3733 Sep 28 07:57	24° m/26'21		morning rise	3734 Sep 10 22:48	7° My 26'25	
direct	3733 Sep 30 16:45	24° m 02'56		direct	3734 Sep 13 08:25	7° Mp 06'07	10000110
asc. node	3733 Oct 05 07:14	25° Mp 35'00	17055157	morning max el	3734 Sep 21 03:01	10° m 52'10	18°20'40
morning max el	3733 Oct 07 16:58	27° Mp 33'53	1/~55'5/	asc. node	3734 Sep 22 04:17	11° m 56'40	

morning set	3734 Oct 03 18:17 3734 Oct 07 01:55	0° ჲ 6° ჲ 16'26		morning set	3735 Sep 21 00:35 3735 Sep 25 18:48	20° № 33'14 0° ₽	
superior conj	3734 Oct 16 06:19	23° ჲ 35′28	1°22'58	superior conj	3735 Sep 29 07:12	6° ≙ 52'25	1°38'10
minimum elong	3734 Oct 16 10:01	23° ≏ 52'27	1°22'35	minimum elong	3735 Sep 29 09:22	7° ≏ 02'48	1°38'02
	3734 Oct 19 19:28	0° M		max. Earth dist.	3735 Oct 05 23:39	19° ≏ 22'20	1.38594 AU
max. Earth dist.	3734 Oct 23 19:14	6°M58′06	1.40675 AU	evening rise	3735 Oct 09 19:10	26° ≏ 07'17	
evening rise	3734 Oct 28 09:08	14° ™ 39'37			3735 Oct 12 01:30	0°M	
desc. node	3734 Oct 29 08:58	16°M17'15		desc. node	3735 Oct 16 05:58	6°M55'46	
	3734 Nov 07 01:59	0°る			3735 Oct 31 16:26	0° ⊼ 16°. ⊼ 20922	24942145
evening max el	3734 Nov 29 03:44 3734 Dec 01 19:00		23°24'01	evening max el retrograde	3735 Nov 14 07:53 3735 Nov 25 21:29	16° ₹ 28'23 23° ₹ 12'28	24°42'45
retrograde	3734 Dec 01 19:00 3734 Dec 12 07:25	2 3 47 34 9° る 01'19	23 24 01	evening set	3735 Nov 23 21:29 3735 Dec 01 10:38	20° x 53'30	
evening set	3734 Dec 17 06:55	6° る 57'51		min. Earth dist.	3735 Dec 01 10:36	15° х 40′25	0.67570 AU
asc. node	3734 Dec 19 03:30	5° る 07'36		asc. node	3735 Dec 06 00:31	15° ∡ 42'13	
min. Earth dist.	3734 Dec 22 05:33	1° る 10'53	0.67934 AU	inferior conj	3735 Dec 06 22:42	14° ∡ °28'37	0°18'56
inferior conj	3734 Dec 22 16:29	0° る 33'19	1°10'53	minimum elong	3735 Dec 06 22:14	14° ∡ °30′10	0°18'44
minimum elong	3734 Dec 22 14:55	0° る 38'42	1°10'16	morning rise	3735 Dec 12 09:56	8° ∡ 727'42	
	3734 Dec 23 02:13	30°R. ✓		direct	3735 Dec 16 02:10	7° ∡ 10′00	
morning rise	3734 Dec 27 22:52	24° ₹ 26'14		morning max el	3735 Dec 23 15:00	11° ∡ ¹26'36	19°56'41
direct	3735 Jan 01 03:59	22° х 47'11	21005152		3736 Jan 06 16:16	0°る	
morning max el	3735 Jan 09 15:21 3735 Jan 11 18:56	27°ダ42'02 0°る	21°07′53	desc. node	3736 Jan 12 05:14	8°る18'30 18°る50'32	
desc. node	3735 Jan 11 18:56 3735 Jan 25 08:12	18° そ 05'38		morning set	3736 Jan 19 02:27 3736 Jan 26 06:21	0°≈	
desc. Hode	3735 Feb 02 08:07	0°≈		max. Earth dist.	3736 Jan 30 07:02	6°≈22'49	1.44068 AU
morning set	3735 Feb 09 06:19	10° ≈ 41'49		man. Barur dist.	5750 tan 50 07.02	0.022.0	1.1.000110
max. Earth dist.	3735 Feb 16 20:57	22° ≈ 53'02	1.42493 AU	superior conj	3736 Feb 04 12:37	14° ≈ 48'30	-2°00'58
	3735 Feb 21 04:05	0°) €		minimum elong	3736 Feb 04 07:37	14° ≈ 28′08	2°00'44
					3736 Feb 13 16:11	0° ∀	
superior conj	3735 Feb 24 02:06	4°) 56′20	-2°07'06	evening rise	3736 Feb 17 17:43	6° ⊁ 55′27	
minimum elong	3735 Feb 24 02:53	4° ¥ 59'41	2°07'05	asc. node	3736 Mar 02 23:48	0° Υ 11'07	
evening rise	3735 Mar 07 13:38	25°) 10′51			3736 Mar 02 20:35	0° Υ	
1	3735 Mar 10 05:55	0° Υ 11° Υ 52'37		evening max el	3736 Mar 06 19:05	4° Υ 45'18 8° Υ 09'42	18°12'19
asc. node evening max el	3735 Mar 17 02:48 3735 Mar 24 06:20	21° Y $29'07$	18°07'30	retrograde evening set	3736 Mar 13 05:18 3736 Mar 16 02:54	8° γ 09'42 7° Υ 26'02	
retrograde	3735 Mar 30 22:02	24° Y '53'01	16 0/ 30	inferior conj	3736 Mar 22 05:33	2° Υ 09'14	3°35'26
evening set	3735 Apr 02 13:46	24° Υ 20'42		minimum elong	3736 Mar 22 06:19	2° Υ 07'09	3°35'24
inferior conj	3735 Apr 09 04:30	19° Y 23'43	3°15'43		3736 Mar 24 05:00	30° ₹	
minimum elong	3735 Apr 09 07:03	19° Ƴ 17'34	3°15'20	min. Earth dist.	3736 Mar 24 21:16	29°) 16′53	0.63088 AU
min. Earth dist.	3735 Apr 12 09:20	16° Ƴ 20'23	0.61007 AU	morning rise	3736 Mar 28 08:39	26° ∺ 04′20	
morning rise	3735 Apr 15 22:21	13° Y '30'14		direct	3736 Apr 04 06:19	23° ∺ 24'46	
direct	3735 Apr 22 15:55	11° Υ 14'58		desc. node	3736 Apr 09 04:23	24°) ₹35'06	
desc. node	3735 Apr 23 07:21	11° Υ 16'09	27046120		3736 Apr 16 18:24	0° Υ	250 45105
morning max el	3735 May 06 21:41 3735 May 16 01:39	19° Ƴ 10'58 0° ႘	2/*46/39	morning max el	3736 Apr 18 04:35 3736 May 09 05:58	1° Y 22'42 0° と	2/4/0/
	3735 May 10 01:39 3735 Jun 03 10:43	0°U		morning set	3736 May 22 12:23	24° 8 17'57	
morning set	3735 Jun 08 13:20	10° Ⅱ 09'10		morning set	3736 May 25 07:22	0°Ⅱ	
asc. node	3735 Jun 13 02:05	19° Ⅱ 44'01		max. Earth dist.	3736 May 27 20:02		1.32740 AU
max. Earth dist.	3735 Jun 14 14:12	23° I I00'09	1.32179 AU	asc. node	3736 May 29 23:06	9° Ⅱ 52'33	
superior conj	3735 Jun 15 20:40	25° ∏ 46'51	0°28'48	superior conj	3736 May 30 04:53	10° Ⅱ 23'49	0°02'33
minimum elong	3735 Jun 15 19:24	25° I I39'53	0°28'32	minimum elong	3736 May 30 04:46	10 II 23 49 10° II 23'08	0°02'31
minimum clong	3735 Jun 17 18:47	0° ©	0 28 32	behind sun begin	3736 May 29 23:34	9° I I55'03	0 02 31
evening rise	3735 Jun 22 16:54	10°5541'09		behind sun end	3736 May 30 09:58	10° ∏ 51'15	
* · · · · · · · · · · · · · · · · · · ·	3735 Jul 02 13:20	$0^{\circ}\Omega$		evening rise	3736 Jun 06 04:45	25° Ⅲ 30′07	
evening max el	3735 Jul 19 02:41	22° Ω 46′24	25°05'03	C	3736 Jun 08 08:18	0°ಅ	
desc. node	3735 Jul 20 06:38	23° Ω 50′57			3736 Jun 26 13:56	0 ° Ω	
retrograde	3735 Aug 02 01:51	29° Ω 50'48		evening max el	3736 Jun 29 15:52	3° Ω 16′20	23°30'35
evening set	3735 Aug 07 14:04	28° Ω 41'22		desc. node	3736 Jul 06 03:37	8° Ω 10′23	
min. Earth dist.	3735 Aug 12 14:21	25° Ω 57'11	0.57479 AU	retrograde	3736 Jul 13 06:12	10° Ω 04'57	
inferior conj	3735 Aug 15 14:15	23° Ω 56'29		evening set	3736 Jul 17 06:57	9° £ 29'22	0.55067.417
minimum elong	3735 Aug 15 14:22 3735 Aug 23 17:06	23° Ω 56'17 19° Ω 45'09	5~09~16	min. Earth dist.	3736 Jul 24 01:45 3736 Jul 26 03:01	6° λ 120'27 5° Ω 07'15	0.55867 AU
morning rise direct	3735 Aug 23 17:06 3735 Aug 26 06:38	19° ∂ (45'09) 19° Ω 25'56		inferior conj minimum elong	3736 Jul 25 03:01 3736 Jul 25 21:10	5° Ω 15'59	
morning max el	3735 Sep 04 04:43	23° Ω 37'56	19°06'24	morning rise	3736 Aug 03 13:51	1° Ω 12'44	T TUU/
asc. node	3735 Sep 09 01:19	29° Ω 21'50	-	direct	3736 Aug 06 09:48	0° £ 52'57	
	3735 Sep 09 12:03	0° mp		morning max el	3736 Aug 16 19:25	5° Ω 42'35	20°13'50

,	2726 1 25 22 21	170 026145		1	2727 4 12 10 24	60 0 20124	
asc. node	3736 Aug 25 22:21	17° Ω 36'45		asc. node	3737 Aug 12 19:24	6° Ω 29'24	
marning aat	3736 Sep 01 16:19	0° т 5° т 08'39		morning set	3737 Aug 19 14:47	19° Ω 56′03	
morning set	3736 Sep 04 05:39	5°11008'39			3737 Aug 24 09:27	0°Щ	
	2726 8 11 21-26	200 m 4015 4	1°44'14		2727 A 26 21-02	50 m 12122	1042142
superior conj	3736 Sep 11 21:26	20° m/48'54		superior conj	3737 Aug 26 21:03	5° Mp 13'22	1°42'43
minimum elong	3736 Sep 11 21:54	20° m 51'12	1°44'13	minimum elong	3737 Aug 26 20:06	5° Mp 08'28	1°42'41
F 4 F 4	3736 Sep 16 13:06	0∘ ⊽	1 26601 444	max. Earth dist.	3737 Aug 30 18:18	13° Mp 13'07	1.34885 AU
max. Earth dist.	3736 Sep 17 05:43	1° £ 19'48	1.36601 AU	evening rise	3737 Sep 04 03:30	21° m 50'52	
evening rise	3736 Sep 21 02:41	8° ≏ 34'32			3737 Sep 08 12:39	0∘ 亚	
desc. node	3736 Oct 02 02:58	27° ≙ 23'05		desc. node	3737 Sep 18 23:58	17° Ω 33'38	
	3736 Oct 03 18:46	0° M ₊			3737 Sep 27 13:48	0°M	
	3736 Oct 26 15:54	0° ∡ ⊓		evening max el	3737 Oct 09 08:44	13°M48'25	26°48'32
evening max el	3736 Oct 26 20:15	0° ≯ 10'38	25°53'25	retrograde	3737 Oct 22 10:42	21°M04'16	
retrograde	3736 Nov 08 06:42	7° ∡ 15′29		evening set	3737 Oct 29 02:31	18° ™ 23'37	
evening set	3736 Nov 14 09:49	4° ∡ °43'14		min. Earth dist.	3737 Nov 02 02:40	14° M 21'50	0.65799 AU
min. Earth dist.	3736 Nov 18 16:53	0° ∡ 05'25	0.66860 AU	inferior conj	3737 Nov 03 23:09	12°M11'45	-1°37'35
	3736 Nov 18 18:37	30°RML		minimum elong	3737 Nov 04 01:51	12°M03'50	1°36'28
inferior conj	3736 Nov 20 01:34	28°M22'35	-0°37'43	asc. node	3737 Nov 08 18:37	7° M 20'30	
minimum elong	3736 Nov 20 02:34	28° ™ 19'27	0°37'17	morning rise	3737 Nov 10 01:58	6°M31'17	
asc. node	3736 Nov 21 21:34	26°M07'51		direct	3737 Nov 12 22:05	5° ™ 46'48	
morning rise	3736 Nov 25 19:42	22°M30'27		morning max el	3737 Nov 19 11:24	9° ™ 19'59	18°19'52
direct	3736 Nov 29 00:50	21°MJ31'11			3737 Dec 03 22:16	0° ∡ ¹	
morning max el	3736 Dec 05 22:17	25°M20'42	19°00'13	morning set	3737 Dec 08 18:28	7° ∡ ¹49'42	
•	3736 Dec 09 22:26	0° ∡ ¹		desc. node	3737 Dec 15 23:18	19° ∡ °24′09	
morning set	3736 Dec 28 08:51	27° ∡ ³38′04			3737 Dec 22 15:46	0°ರ	
desc. node	3736 Dec 29 02:16	28° ∡ ¹46′07					
	3736 Dec 29 21:11	0°₹		superior conj	3737 Dec 24 02:02	2° る 14'49	-0°53'28
max. Earth dist.	3737 Jan 11 23:24	20° る 29'49	1.45015 AU	minimum elong	3737 Dec 23 19:20		0°52'37
		_,,		max. Earth dist.	3737 Dec 25 18:35	4° ප 54'04	1.45232 AU
superior conj	3737 Jan 13 23:48	23° る 40'27	-1°35'25	evening rise	3738 Jan 09 06:37	27° ට 36'46	
minimum elong	3737 Jan 13 14:40	23° る 04'27		evening rise	3738 Jan 10 19:09	0°≈	
minimum ciong	3737 Jan 17 23:38	0°≈	1 5455	greatest brilliancy	3738 Jan 20 04:57	14°≈40'14	-0.8m
evening rise	3737 Jan 28 23:39	17° ≈ 43'19		greatest orimaney	3738 Jan 31 03:01	0° ∀	0.0111
evening rise	3737 Feb 05 12:24	0° ₩		evening max el	3738 Feb 01 15:43	1°) 40′16	19°16'08
asc. node	3737 Feb 17 20:50	17° ¥ 44'07		asc. node	3738 Feb 04 17:52	4°)(19'04	19 10 08
evening max el	3737 Feb 17 20:50 3737 Feb 18 06:57	17 X 44 07 18°¥ 10'23	18°35'33	retrograde	3738 Feb 04 17:32 3738 Feb 08 17:03	5°) (42'13	
-	3737 Feb 18 00.37 3737 Feb 24 20:51	21°\(\dagger)48'12	18 33 33	•		3 K 42 13 4° H 33′27	
retrograde				evening set	3738 Feb 12 03:23		
evening set	3737 Feb 28 00:22	20°) 52′23	2025120		3738 Feb 16 15:43	30°R≈	2021114
inferior conj	3737 Mar 05 18:32	15°) 17'18		inferior conj	3738 Feb 17 16:03		3°21'14
minimum elong	3737 Mar 05 17:43	15° ¥ 19'45		minimum elong	3738 Feb 17 14:09	28°≈48'28	3°20'56
min. Earth dist.	3737 Mar 07 18:41	12° ¥ 53'16	0.64869 AU	min. Earth dist.	3738 Feb 19 00:59	26°≈56'13	0.66256 AU
morning rise	3737 Mar 11 10:33	9° ₩ 06'27		morning rise	3738 Feb 23 00:38	22°≈28'49	
direct	3737 Mar 18 04:05	6° ₩ 16'12		direct	3738 Mar 01 08:22	19° ≈ 41'05	
desc. node	3737 Mar 27 01:27	10°) €03'34		desc. node	3738 Mar 13 22:30	27°≈07'58	
morning max el	3737 Mar 31 14:14	14° 米 06′55	27°12'46	morning max el	3738 Mar 14 00:10	27°≈12'10	26°10'34
	3737 Apr 13 11:36	0° Υ			3738 Mar 16 15:14	0° ∀	
	3737 May 01 21:43	0° 8			3738 Apr 07 03:16	0° Υ	
morning set	3737 May 06 02:26	7° 8 56'08		morning set	3738 Apr 19 03:43	20° Y 53′09	
max. Earth dist.	3737 May 10 17:15	17° 8 08'44	1.33745 AU	max. Earth dist.	3738 Apr 23 03:06	28° Y 27′05	1.35208 AU
					3738 Apr 23 22:08	9° 8	
superior conj	3737 May 14 08:23	24° 8 41'36					
minimum elong	3737 May 14 09:43	24° 8 48'37	0°25'28	superior conj	3738 Apr 28 04:50	8° 8 33'52	-0°54'44
asc. node	3737 May 16 20:07	29° 8 58'12		minimum elong	3738 Apr 28 07:45	8° 8 48'41	0°54'12
	3737 May 16 20:27	$\Pi^{\circ}0$		asc. node	3738 May 03 17:10	19° 8 57'07	
evening rise	3737 May 21 15:37	10° Ⅱ 11'11		evening rise	3738 May 05 23:32	24° 8 38'19	
	3737 May 31 23:57	0 \circ \odot			3738 May 08 14:52	Π $^{\circ}0$	
evening max el	3737 Jun 11 08:09	13° 5 44'11	21°54'54	evening max el	3738 May 24 10:38	24° Ⅱ 40′28	20°30'51
desc. node	3737 Jun 23 00:38	19° © 56'55			3738 Jun 03 03:34	0°€	
retrograde	3737 Jun 23 23:16	19° © 58'59		retrograde	3738 Jun 04 12:27	0°9504'48	
evening set	3737 Jun 26 15:51	19° 5 942'46			3738 Jun 05 21:50	30°Ŗ Ⅱ	
min. Earth dist.	3737 Jul 05 12:19	15° © 55'44	0.54955 AU	evening set	3738 Jun 06 12:55	29° Ⅱ 54'45	
inferior conj	3737 Jul 06 00:17	15° © 38'58		desc. node	3738 Jun 09 21:41	28° Ⅱ 57'26	
minimum elong	3737 Jul 05 15:52	15° © 50'46		inferior conj	3738 Jun 15 18:12	25° Ⅱ 57'05	-1°43'24
morning rise	3737 Jul 14 17:25	11° © 47'19		minimum elong	3738 Jun 15 13:20	26° Ⅱ 04'08	1°41'37
direct	3737 Jul 17 22:00	11° © 24'53		min. Earth dist.	3738 Jun 17 00:27	25° Ⅱ 13'18	0.54970 AU
morning max el	3737 Jul 29 22:27	17° © 02'25	21°41'13	morning rise	3738 Jun 24 12:52	21° Ⅱ 47'33	
<i>5</i>	3737 Aug 09 01:12	0° Ω	-	direct	3738 Jun 28 07:44	21° I I16'37	
		- 00			20 07.11		

morning max el	3738 Jul 11 16:20	27° Ⅱ 44'37	23°21'54	transit begin	3739 May 26 21:55	6° ∏ 34'51	
morning max ci	3738 Jul 11 10:20 3738 Jul 13 22:09	0°95	23 21 34	transit ocgin	3739 May 20 21:35 3739 May 27 01:36	6° ∏ 28'52	
asc. node	3738 Jul 30 16:26	25° © 50'14		desc. node	3739 May 27 01:30	6° П 00'57	
ase. node	3738 Aug 01 18:17	0°Ω		min. Earth dist.	3739 May 27 16:45 3739 May 29 14:54	4° П 49'45	0.55934 AU
morning set	3738 Aug 04 02:04	4°Ω49'35		morning rise	3739 Jun 04 10:59	1°П50'38	0.0030.110
morning sec	373011 ug 01 02.01	. 00., 50		direct	3739 Jun 09 03:46	1° П 00'25	
superior conj	3738 Aug 11 02:55	19° Ω 56'07	1°34'54	morning max el	3739 Jun 23 06:24	8°∏09'09	25°03'39
minimum elong	3738 Aug 11 01:03	19° Ω 46'04	1°34'45	Ü	3739 Jul 09 09:28	$0 \circ \mathfrak{S}$	
max. Earth dist.	3738 Aug 13 15:46	25° Ω 20′17	1.33558 AU	asc. node	3739 Jul 17 13:29	15° © 31'42	
	3738 Aug 15 21:21	0° m		morning set	3739 Jul 19 13:52	19° 5 344'16	
evening rise	3738 Aug 18 17:18	5° m 44'42			3739 Jul 24 07:49	$0^{\circ}\Omega$	
	3738 Sep 01 03:47	0० ट					
desc. node	3738 Sep 05 20:59	7° ≏ 19'36		superior conj	3739 Jul 26 12:42	4° Ω 49'28	1°21'48
evening max el	3738 Sep 21 20:40	27° ≙ 11'34	27°20'52	minimum elong	3739 Jul 26 10:23	4° Ω 36′50	1°21'30
	3738 Sep 25 01:44	0°M₊		max. Earth dist.	3739 Jul 27 21:15	7° Ω 47'01	1.32652 AU
retrograde	3738 Oct 05 09:00	4°M30'06		evening rise	3739 Aug 02 16:32	20° Ω 05'50	
evening set	3738 Oct 12 10:09	1° M 49'11			3739 Aug 07 16:30	0° m)	
	3738 Oct 14 13:03	30° ₹ Ω		desc. node	3739 Aug 23 18:01	26° Mp 30'41	
min. Earth dist.	3738 Oct 16 04:19	28° ≙ 22'05	0.64389 AU		3739 Aug 26 08:01	0∘ ⊽	
inferior conj	3738 Oct 18 13:04	25° £ 50'46		evening max el	3739 Sep 04 06:20		27°24'07
minimum elong	3738 Oct 18 17:29	25° £ 38'56	2°37'03	retrograde	3739 Sep 18 00:46	17° Ω 23'59	
morning rise	3738 Oct 25 02:02	20° £ 24'53		evening set	3739 Sep 25 05:23	14° £ 54'03	0.62660.444
asc. node	3738 Oct 26 15:41	19° £ 56'25		min. Earth dist.	3739 Sep 28 20:08	11° Ω 56'27	
direct	3738 Oct 27 15:30	19° £ 51'19	17056122	inferior conj	3739 Oct 01 16:30	9° £ 13'19	
morning max el	3738 Nov 03 03:36	23° £ 17'25	17°56'23	minimum elong	3739 Oct 01 22:11	8° £ 59'44	3°35'54
	3738 Nov 08 11:39	0°M		morning rise	3739 Oct 08 16:34	4° £ 05'13	
morning set	3738 Nov 20 08:43	19° M .25'02 0° ∡ 7		direct	3739 Oct 11 02:10	3° Ω 38'59	
desc. node	3738 Nov 26 15:56 3738 Dec 02 20:18	0 x . 10° x ⁷ 08'18		asc. node morning max el	3739 Oct 13 12:44 3739 Oct 17 19:53	4° £ 06'53 7° £ 06'03	17°50'38
desc. node	3738 DCC 02 20.18	10 × 00 10		morning max ci	3739 Oct 17 19:33 3739 Nov 01 17:27	0°M	17 30 38
superior conj	3738 Dec 03 16:11	11° ∡ 728'35	-0°05'43	morning set	3739 Nov 01 17.27 3739 Nov 02 21:59	2°M06'46	
minimum elong	3738 Dec 03 15:30	11° × 26'55'	0°05'37	morning sec	3737 NOV 02 21.37	2 11000 40	
behind sun begin	3738 Dec 03 05:48	10°× 7 46'42	0 03 37	superior conj	3739 Nov 14 07:19	21°M56'18	0°37'05
behind sun end	3738 Dec 04 01:12	12°×704'56		minimum elong	3739 Nov 14 10:41	22°M10'28	0°36'38
max. Earth dist.	3738 Dec 08 13:10	19° × 15'50	1.44714 AU	minimum crong	3739 Nov 19 03:46	0°×7	0 30 30
man. Darm uist.	3738 Dec 15 09:34	0°ਰ	1.11,11110	desc. node	3739 Nov 19 17:20	0° х 55′26	
evening rise	3738 Dec 19 20:06	6° る 51'39		max. Earth dist.	3739 Nov 21 04:50	3° √ 19'36	1.43533 AU
greatest brilliancy	3739 Jan 03 09:55	28° る 53'45	-0.6m	evening rise	3739 Nov 29 06:06	16° ₹ 04'23	
e ,	3739 Jan 04 04:02	0° ≈		S	3739 Dec 08 09:55	0° ට	
evening max el	3739 Jan 15 19:42	15° ≈ 11'48	20°12'18	evening max el	3739 Dec 29 18:14	28° පි 44'31	21°21'03
asc. node	3739 Jan 22 14:57	19° ≈ 40'48			3739 Dec 31 01:10	0° ≈	
retrograde	3739 Jan 23 15:07	19° ≈ 46′20		retrograde	3740 Jan 07 12:45	3° ≈ 56'48	
evening set	3739 Jan 27 09:40	18° ≈ 23'33		asc. node	3740 Jan 09 12:00	3° ≈ 35'40	
inferior conj	3739 Feb 01 19:12	12° ≈ 19′00	2°55'29	evening set	3740 Jan 11 17:18	2° ≈ 18'46	
minimum elong	3739 Feb 01 16:46	12° ≈ 27'14	2°54'54		3740 Jan 14 01:26	30°Rる	
min. Earth dist.	3739 Feb 02 14:17	11° ≈ 14'29	0.67227 AU	inferior conj	3740 Jan 17 01:37	26° る 03'49	2°20'38
morning rise	3739 Feb 06 23:38	6° ≈ 05'07		minimum elong	3740 Jan 16 23:10	26° る 12'19	2°19'51
direct	3739 Feb 12 18:18	3° ≈ 30'17		min. Earth dist.	3740 Jan 17 08:17	25° ⋜ 40'48	0.67797 AU
morning max el	3739 Feb 24 08:54	10° ≈ 26'44	24°50'04	morning rise	3740 Jan 22 04:51	19° る 51'19	
desc. node	3739 Feb 28 19:33	15°≈20'36		direct	3740 Jan 27 08:53	17° る 36'17	
	3739 Mar 11 21:54	0° ∀		morning max el	3740 Feb 06 17:38	23°₹46′04	23°21'31
. ,	3739 Mar 30 19:25	0°Υ 20 % 54140		1 1	3740 Feb 12 06:14	0°≈ 40~ •2114€	
morning set	3739 Apr 01 11:11	2° Y 54'48	1 2700 C ATT	desc. node	3740 Feb 15 16:35	4°≈21'46	
max. Earth dist.	3739 Apr 05 02:16	9° Y 28′01	1.37086 AU		3740 Mar 04 07:59	0°) {	
superior conj	3739 Apr 11 15:11	21° Y 52'37	1022120	morning set max. Earth dist.	3740 Mar 12 18:36 3740 Mar 16 21:08	13°) 43'38 20°) 45'46	1.39231 AU
minimum elong	3739 Apr 11 19:25	21° 73237 22° Υ $13'21$		max. Earth dist.	3740 Mar 10 21:08 3740 Mar 22 01:25	20 γ (43 40	1.39231 AU
mmmium ciong	3739 Apr 15 17:36	0° 8	1 22 00		5770 Mai 22 01.23	V I	
evening rise	3739 Apr 20 02:11	8° 8 44'57		superior conj	3740 Mar 24 11:26	4° Υ 27'09	-1°46'43
asc. node	3739 Apr 20 02:11 3739 Apr 20 14:14	9° 8 45'08		minimum elong	3740 Mar 24 11:20	4° Υ 48'47	
	3739 May 01 21:25	0°Ⅱ		evening rise	3740 Apr 02 20:41	22° Υ 22'42	
evening max el	3739 May 07 01:29	6° Ⅱ 18'21	19°24'58	asc. node	3740 Apr 06 11:17	29° Y 16'37	
retrograde	3739 May 16 09:44	10° I I50'45			3740 Apr 06 20:32	0°8	
evening set	3739 May 18 09:39	10° Ⅲ 39'14		evening max el	3740 Apr 19 02:39	18° 8 34'19	18°39'06
inferior conj	3739 May 26 23:09	6° Ⅱ 32'51	0°14'19	retrograde	3740 Apr 27 00:31	22° 8 27'12	
minimum elong	3739 May 26 23:45	6° Ⅱ 31'52	0°14'05	evening set	3740 Apr 29 06:19	22° 8 09'37	
transit middle	3739 May 26 23:45	6° Ⅱ 31'52	0°14'05	inferior conj	3740 May 06 23:52	17° 8 44'59	1°49'51

minimum elong min. Earth dist. desc. node morning rise	3740 May 07 03:22 3740 May 10 08:21 3740 May 13 15:46 3740 May 14 21:13	17° 8 38'21 15° 8 13'39 13° 8 05'54 12° 8 28'32	1°48'46 0.57642 AU	min. Earth dist. morning rise desc. node direct	3741 Apr 22 07:10 3741 Apr 26 01:36 3741 Apr 30 12:47 3741 May 02 12:24	26°Y39'51 23°Y55'27 22°Y10'27 21°Y59'32	0.59746 AU
direct morning max el	3740 May 20 13:45 3740 Jun 03 22:31 3740 Jun 13 10:10 3740 Jun 30 19:46	11° 엉 07'55 18° 엉 42'42 0°耳 0°郅	26°30'52	morning max el	3741 May 16 20:40 3741 May 17 00:49 3741 Jun 07 09:14 3741 Jun 17 08:13	29°Y49'46 0° 8 0° I 19° I 12'30	27°29'27
morning set asc. node	3740 Jul 03 00:28 3740 Jul 03 10:32	4°\$33'37 5°\$26'45		asc. node	3741 Jun 20 07:34 3741 Jun 22 09:12	25°∏30'33 0°©	
superior conj	3740 Jul 10 00:16	19°545'25	1°04'12	superior conj	3741 Jun 24 11:53	4°538'22	0°42'43
minimum elong max. Earth dist.	3740 Jul 09 22:00 3740 Jul 10 07:46	19°532'56 20°526'46	1°03'48 1.32154 AU	minimum elong max. Earth dist.	3741 Jun 24 10:08 3741 Jun 23 19:36	4°528'41 3°508'42	0°42'21 1.32058 AU
max. Lartii dist.	3740 Jul 14 16:43	0°Ω	1.52154 AU	evening rise	3741 Jul 01 07:41	19° 9 31'05	1.32030 AO
evening rise	3740 Jul 16 22:06	4° Ω 43'46		C	3741 Jul 06 10:43	$0^{\circ}\Omega$	
	3740 Jul 30 09:10	0° m)			3741 Jul 25 15:33	0° Тф	
desc. node	3740 Aug 09 15:02	14° m 51'35		desc. node	3741 Jul 27 12:03	2°M01'52	
evening max el	3740 Aug 16 11:02	22° m/24'58	26°54'24	evening max el	3741 Jul 29 08:21	3° M 52'46	25°52'23
retrograde	3740 Aug 30 08:49	29° Mp 36'12		retrograde	3741 Aug 12 07:40	11° Mp 00'30	
evening set min. Earth dist.	3740 Sep 06 07:53 3740 Sep 10 01:13	27° m) 29'47 24° m) 51'05	0.60680 AU	evening set min. Earth dist.	3741 Aug 18 12:49 3741 Aug 22 20:37	9° Mp 28'29 6° Mp 52'00	0.58612 AU
inferior conj	3740 Sep 10 01:13	22° m) 10'05		inferior conj	3741 Aug 26 02:15	4° m) 30'59	
minimum elong	3740 Sep 13 11:41	21° m 58'19		minimum elong	3741 Aug 26 05:14	4° m/ 25'30	
morning rise	3740 Sep 20 17:21	17° m 23'03		morning rise	3741 Sep 02 23:53	0° Mp 07′14	
direct	3740 Sep 23 02:10	17° m)01'10			3741 Sep 03 12:08	30°R Ω	
asc. node	3740 Sep 29 09:46	19° m 44'19		direct	3741 Sep 05 11:01	29° Ω 47'29	
morning max el	3740 Sep 30 09:03	20° m/37'26	18°03'53		3741 Sep 07 08:53	0° M)	10027120
marning sat	3740 Oct 07 10:02	0° ჲ 15° ჲ 36'13		morning max el asc. node	3741 Sep 13 15:52	3° Mp 42'38	18°37'28
morning set	3740 Oct 16 03:57 3740 Oct 23 23:24	0°M		morning set	3741 Sep 16 06:47 3741 Sep 29 21:37	6° Mp 34'30 29° Mp 38'52	
	3740 001 23 23.24	O IIO		morning set	3741 Sep 29 21:57 3741 Sep 30 01:58	ე∘ ი	
superior conj	3740 Oct 26 00:43	3°M40'57	1°09'28		T I		
minimum elong	3740 Oct 26 04:54	3°M59'32	1°08'58	superior conj	3741 Oct 08 15:45	16° ≏ 29'08	1°30'39
max. Earth dist.	3740 Nov 02 16:07	16°M51'53	1.41823 AU	minimum elong	3741 Oct 08 18:51	16° ≏ 43'42	1°30'22
desc. node	3740 Nov 05 14:21	21°M42'13		max. Earth dist.	3741 Oct 15 22:26	29° ≏ 41'11	1.39798 AU
evening rise	3740 Nov 08 04:40	25°M54'28			3741 Oct 16 02:44	0°M	
	3740 Nov 10 18:29 3740 Dec 01 06:01	0° ♂ 5°0		evening rise desc. node	3741 Oct 20 01:07 3741 Oct 23 11:21	6°M44'38 12°M24'54	
evening max el	3740 Dec 11 11:41	0 8 12° る 19'26	22°38'06	desc. node	3741 Nov 03 20:13	0° √	
retrograde	3740 Dec 21 08:24	18° る 10'55	22 30 00	evening max el	3741 Nov 24 01:29	25° ₹ '57'06	23°58'00
evening set	3740 Dec 26 00:39	16° ප 16'39		Č	3741 Nov 28 18:29	0°ರ	
asc. node	3740 Dec 26 09:02	15° る 58'42		retrograde	3741 Dec 05 00:48	2° る 24'31	
inferior conj	3740 Dec 31 09:22		1°38'14	evening set	3741 Dec 10 06:09	0° ರ 14'01	
minimum elong	3740 Dec 31 07:21	10° る 01'37	1°37'29		3741 Dec 10 12:35	30°Ŗ ⋌ 7	
min. Earth dist.	3740 Dec 31 04:38	10°る11'03	0.67988 AU	asc. node	3741 Dec 13 06:02	27°×702'33	0.67022 ATT
morning rise direct	3741 Jan 05 13:57 3741 Jan 10 03:14	3°る45'16 1°る53'02		min. Earth dist. inferior conj	3741 Dec 15 01:04 3741 Dec 15 16:38	24° ₹ 41'35 23° ₹ 48'48	0.67823 AU 0°49'27
morning max el	3741 Jan 19 06:02	7°る13'28	21°54'28	minimum elong	3741 Dec 15 15:29	23° × 48 48 23° × 52'41	0°48'59
desc. node	3741 Feb 01 13:36	23° る 58'02	21 0.20	morning rise	3741 Dec 21 00:51	17° ×1 44'20	0 100)
	3741 Feb 05 18:25	0° ≈		direct	3741 Dec 25 00:15	16° ∡ 14'49	
morning set	3741 Feb 20 21:17	23° ≈ 09'58		morning max el	3742 Jan 02 01:14	20° ₹ 51'52	20°36'01
	3741 Feb 25 02:09	0° ∀			3742 Jan 09 15:25	0°ප	
max. Earth dist.	3741 Feb 26 19:49	2°) 52'48	1.41375 AU	desc. node	3742 Jan 19 10:36	13° る 59'17	
:	2741 Mar. 06 12:47	160105150	2002107		3742 Jan 29 23:58	0°≈ 1°≈ •20/27	
superior conj minimum elong	3741 Mar 06 12:47 3741 Mar 06 15:50	16° 米 05'59 16° 米 19'24		morning set max. Earth dist.	3742 Jan 30 23:19 3742 Feb 09 01:36	1°≈30'27 15°≈54'10	1.43227 AU
minimum ciong	3741 Mar 14 05:32	10 γ (1924 0° γ	2 02 38	max. Earth dist.	3742100 09 01.30	13 ~34 10	1.43227 AU
evening rise	3741 Mar 17 03:35	5° Υ 23'38		superior conj	3742 Feb 15 14:09	26° ≈ 37'10	-2°06'44
asc. node	3741 Mar 24 08:20	18° Y °25′54		minimum elong	3742 Feb 15 12:39	26°≈30'55	
	3741 Apr 01 04:24	0°B			3742 Feb 17 14:25	0° ∀	
evening max el	3741 Apr 02 10:51	1° 8 20'21	18°13'21	evening rise	3742 Feb 27 18:40	17°) 37′59	
retrograde	3741 Apr 09 10:14	4° 8 50'28		_	3742 Mar 06 20:33	0° Υ	
evening set	3741 Apr 11 22:31	4° 8 24'00	2052102	asc. node	3742 Mar 11 05:21	7° Υ 05'02	10007112
inferior conj	3741 Apr 18 21:56	29° Y 38'28 29° Y 30'59	2°53'03	evening max el	3742 Mar 16 22:42	14° Y 26'45 17° Y 49'36	18°07'13
minimum elong	3741 Apr 19 01:18 3741 Apr 18 12:11	29°₹30′59 30° ₹丫	2°52'20	retrograde evening set	3742 Mar 23 11:02 3742 Mar 26 05:11	17° γ ′49'36 17° γ ′12'38	
	5, 11 ripi 10 12.11	20 IV I		croning set	5, 12 11101 20 UJ.11	1, 11230	

	2742 4 01 14 17	12000000151	2027140		27/23/4 07 22 15	100015140	
inferior conj	3742 Apr 01 14:17	12° Υ 06'51		retrograde	3743 Mar 06 22:15	1°Υ15'40	
minimum elong	3742 Apr 01 16:05	12° Y 02'15	3°26'39	evening set	3743 Mar 09 22:12	0° Υ 27'05	
min. Earth dist.	3742 Apr 04 14:00	9° Ƴ 05'36	0.61912 AU		3743 Mar 10 16:26	30° ₹ ₩	
morning rise	3742 Apr 08 01:24	6° Ƴ 07′20		inferior conj	3743 Mar 15 20:52	25° ₩ 02'27	3°37'34
direct	3742 Apr 14 21:37	3° Ƴ 40′24		minimum elong	3743 Mar 15 20:54	25°) €02′20	3°37'35
desc. node	3742 Apr 17 09:48	3° Y 58'37		min. Earth dist.	3743 Mar 18 06:09	22° ∺ 20′07	0.63887 AU
morning max el	3742 Apr 29 01:03	11° Ƴ 38'37	27°51'33	morning rise	3743 Mar 21 18:45	18° ¥ 54'15	
•	3742 May 13 12:16	0° ႘		direct	3743 Mar 28 15:30	16° ₩ 08'06	
	3742 May 30 16:36	0° I I		desc. node	3743 Apr 04 06:51	18° ¥ 16'10	
morning set	3742 Jun 01 11:07	3° Ⅱ 34'16		morning max el	3743 Apr 11 09:31	24°) €05'17	27°36'24
max. Earth dist.	3742 Jun 07 04:45	15° I I39'13	1.32361 AU	morning max cr	3743 Apr 16 17:13	0°Υ	27 3021
asc. node	3742 Jun 07 04:45	15° I I38′26	1.52501 AC		3743 May 06 20:56	0°8	
asc. noue	3/42 Juli 0/ 04.30	13 1136 20			•		
	27.12.1	100 T2010 0	0015150	morning set	3743 May 16 06:44	17° 8 30'55	1 22100 177
superior conj	3742 Jun 08 21:51	19° Ⅱ 22'29	0°17'58	max. Earth dist.	3743 May 21 07:09	27° 8 45'15	1.33100 AU
minimum elong	3742 Jun 08 21:02	19° Ⅱ 17'58	0°17'47		3743 May 22 08:46	Π °0	
	3742 Jun 13 18:40	0 \circ \odot					
evening rise	3742 Jun 15 19:13	4° 5 20'49		superior conj	3743 May 24 04:20	3° Ⅱ 51'42	-0°09'18
	3742 Jun 29 11:31	$0^{\circ}\Omega$		minimum elong	3743 May 24 04:47	3° Ⅱ 54'11	0°09'12
evening max el	3742 Jul 10 22:58	14° Ω 37'21	24°26'00	behind sun begin	3743 May 24 00:22	3° Ⅲ 30′33	
desc. node	3742 Jul 14 09:03	17° Ω 33'42		behind sun end	3743 May 24 09:13	4° Ⅱ 17'50	
retrograde	3742 Jul 24 19:52	21° Ω 37'39		asc. node	3743 May 25 01:39	5° Ⅱ 45'58	
evening set	3742 Jul 29 17:43	20° Ω 43'41		evening rise	3743 May 31 06:51	19° Ⅱ 06'31	
min. Earth dist.	3742 Aug 04 09:54	17°Ω50'41	0.56725 AU	evening rise	3743 Jun 05 15:12	0°95	
inferior conj	3742 Aug 07 02:27	16°Ω08'15		evening max el	3743 Jun 22 12:29	25° © 02'13	22°49'19
·	Č	16° Ω 12'08		evening max er		23 3 02 13	22 49 19
minimum elong	3742 Aug 07 00:01		3 03 28		3743 Jun 29 05:16		
morning rise	3742 Aug 15 08:56	12° Ω 05'38		desc. node	3743 Jul 01 06:05	0° Ω 51'51	
direct	3742 Aug 18 00:52	11° Ω 46′27		retrograde	3743 Jul 05 19:30	1° Ω 39'25	
morning max el	3742 Aug 27 13:18	16° Ω 12'42	19°32'30	evening set	3743 Jul 09 04:49	1° Ω 14'15	
asc. node	3742 Sep 03 03:49	24° Ω 22'38			3743 Jul 12 17:35	30°ષ્ટ્રજી	
	3742 Sep 06 14:11	0° mp		min. Earth dist.	3743 Jul 16 20:57	27° © 50'40	0.55365 AU
morning set	3742 Sep 13 23:21	14° Mp 04'52		inferior conj	3743 Jul 18 07:41	27° © 00'45	-4°22'26
				minimum elong	3743 Jul 18 00:01	27° © 11'48	4°20'51
superior conj	3742 Sep 21 22:57	0° ჲ 05'22	1°41'46	morning rise	3743 Jul 26 21:27	23° © 09'26	
minimum elong	3742 Sep 22 00:22	0° £ 12'21	1°41'41	direct	3743 Jul 29 20:22	22° 5 49'03	
	3742 Sep 21 21:52	0∘ ত		morning max el	3743 Aug 09 23:04	27° 9 58'48	20°48'48
max. Earth dist.	3742 Sep 28 02:39	11° £ 51'00	1.37719 AU		3743 Aug 11 23:11	$0^{\circ}\Omega$	
evening rise	3742 Oct 01 20:47	18° ≏ 39'12		asc. node	3743 Aug 21 00:52	12° Ω 54'54	
evening 1150	3742 Oct 08 12:14	0°M		morning set	3743 Aug 29 06:26	28° Ω 46'03	
desc. node	3742 Oct 10 08:22	2°M59'34		morning sec	3743 Aug 29 20:46	0° m)	
uese. Houe	3742 Oct 10 08:22 3742 Oct 29 01:42	2 11 6 3934			3743 Aug 29 20.40	V III	
			25014107		27/2 0 05 17-20	1.40 m, 1.511.2	1044105
evening max el	3742 Nov 06 13:49		25°14'07	superior conj	3743 Sep 05 17:38		1°44'25
retrograde	3742 Nov 18 13:05	16° ₹ 33'27		minimum elong	3743 Sep 05 17:27	14° Mp 14'16	1°44'26
evening set	3742 Nov 24 08:12	14° ∡ *08′13		max. Earth dist.	3743 Sep 10 10:43	23° m 42'40	1.35828 AU
min. Earth dist.	3742 Nov 28 19:19	9° ∡ 10′02	0.67311 AU		3743 Sep 13 17:14	0∘ ত	
inferior conj	3742 Nov 29 21:40	7° √ 44'17	-0°04'36	evening rise	3743 Sep 14 12:16	1° 9 29'13	
minimum elong	3742 Nov 29 21:47	7° ∡ ¹43'54	0°04'33	desc. node	3743 Sep 27 05:24	23° ≏ 20'33	
transit middle	3742 Nov 29 21:47	7° ∡¹ 43'54	0°04'33		3743 Oct 01 13:38	0° M ₊	
transit begin	3742 Nov 29 19:07	7° ∡ ¹52'36		evening max el	3743 Oct 20 02:16	23°M19'59	26°19'10
transit end	3742 Nov 30 00:27	7° ∡ ³35'13			3743 Oct 29 18:49	0° ∡ ¹	
asc. node	3742 Nov 30 03:02	7° ∡ ¹26'49		retrograde	3743 Nov 01 20:20	0° ∡ 31′07	
morning rise	3742 Dec 05 11:37	1° ∡ 746'51		C	2742 N 04 17-29	30°RM₊	
direct					3/43 NOV U4 1/:38		
				evening set	3743 Nov 04 17:38 3743 Nov 08 04:56		
morning may el	3742 Dec 08 22:47	0° ∡ ³37'37	19°30'42	evening set	3743 Nov 08 04:56	27°M54'43	0.66453 AU
morning max el	3742 Dec 08 22:47 3742 Dec 16 04:22	0° х 37'37 4° х 41'37	19°30'42	min. Earth dist.	3743 Nov 08 04:56 3743 Nov 12 09:01	27°M54'43 23°M31'54	0.66453 AU
morning max el greatest brilliancy	3742 Dec 08 22:47 3742 Dec 16 04:22 3742 Dec 29 08:47	0° ₹37'37 4° ₹41'37 22° ₹13'27	19°30'42 -0.7m	min. Earth dist.	3743 Nov 08 04:56 3743 Nov 12 09:01 3743 Nov 13 22:36	27°M54'43 23°M31'54 21°M36'56	-1°02'47
greatest brilliancy	3742 Dec 08 22:47 3742 Dec 16 04:22 3742 Dec 29 08:47 3743 Jan 03 12:04	0°ダ37'37 4°ダ41'37 22°ダ13'27 0°る		min. Earth dist. inferior conj minimum elong	3743 Nov 08 04:56 3743 Nov 12 09:01 3743 Nov 13 22:36 3743 Nov 14 00:17	27°M.54'43 23°M.31'54 21°M.36'56 21°M.31'44	
greatest brilliancy desc. node	3742 Dec 08 22:47 3742 Dec 16 04:22 3742 Dec 29 08:47 3743 Jan 03 12:04 3743 Jan 06 07:39	0° 조37'37 4° 조41'37 22° 조13'27 0° 중 4° 중19'01		min. Earth dist. inferior conj minimum elong asc. node	3743 Nov 08 04:56 3743 Nov 12 09:01 3743 Nov 13 22:36 3743 Nov 14 00:17 3743 Nov 17 00:05	27°M54'43 23°M31'54 21°M36'56 21°M31'44 18°M06'24	-1°02'47
desc. node morning set	3742 Dec 08 22:47 3742 Dec 16 04:22 3742 Dec 29 08:47 3743 Jan 03 12:04 3743 Jan 06 07:39 3743 Jan 09 20:40	0° 373737 4° 3741'37 22° 3713'27 0° 37 4° 3719'01 9° 3746'46	-0.7m	min. Earth dist. inferior conj minimum elong asc. node morning rise	3743 Nov 08 04:56 3743 Nov 12 09:01 3743 Nov 13 22:36 3743 Nov 14 00:17 3743 Nov 17 00:05 3743 Nov 19 20:12	27°M54'43 23°M31'54 21°M36'56 21°M31'44 18°M06'24 15°M49'10	-1°02'47
greatest brilliancy desc. node	3742 Dec 08 22:47 3742 Dec 16 04:22 3742 Dec 29 08:47 3743 Jan 03 12:04 3743 Jan 06 07:39 3743 Jan 09 20:40 3743 Jan 22 14:13	0°조37'37 4°조41'37 22°조13'27 0°उ 4°उ19'01 9°उ46'46 29°उ40'08		min. Earth dist. inferior conj minimum elong asc. node morning rise direct	3743 Nov 08 04:56 3743 Nov 12 09:01 3743 Nov 13 22:36 3743 Nov 14 00:17 3743 Nov 17 00:05 3743 Nov 19 20:12 3743 Nov 22 21:09	27°M54'43 23°M31'54 21°M36'56 21°M31'44 18°M06'24 15°M49'10 14°M56'43	-1°02'47 1°02'04
desc. node morning set	3742 Dec 08 22:47 3742 Dec 16 04:22 3742 Dec 29 08:47 3743 Jan 03 12:04 3743 Jan 06 07:39 3743 Jan 09 20:40	0° 373737 4° 3741'37 22° 3713'27 0° 37 4° 3719'01 9° 3746'46	-0.7m	min. Earth dist. inferior conj minimum elong asc. node morning rise	3743 Nov 08 04:56 3743 Nov 12 09:01 3743 Nov 13 22:36 3743 Nov 14 00:17 3743 Nov 17 00:05 3743 Nov 19 20:12	27°M54'43 23°M31'54 21°M36'56 21°M31'44 18°M06'24 15°M49'10 14°M56'43 18°M38'24	-1°02'47
desc. node morning set	3742 Dec 08 22:47 3742 Dec 16 04:22 3742 Dec 29 08:47 3743 Jan 03 12:04 3743 Jan 06 07:39 3743 Jan 09 20:40 3743 Jan 22 14:13	0°조37'37 4°조41'37 22°조13'27 0°उ 4°उ19'01 9°उ46'46 29°उ40'08	-0.7m	min. Earth dist. inferior conj minimum elong asc. node morning rise direct	3743 Nov 08 04:56 3743 Nov 12 09:01 3743 Nov 13 22:36 3743 Nov 14 00:17 3743 Nov 17 00:05 3743 Nov 19 20:12 3743 Nov 22 21:09	27°M54'43 23°M31'54 21°M36'56 21°M31'44 18°M06'24 15°M49'10 14°M56'43	-1°02'47 1°02'04
desc. node morning set	3742 Dec 08 22:47 3742 Dec 16 04:22 3742 Dec 29 08:47 3743 Jan 03 12:04 3743 Jan 06 07:39 3743 Jan 09 20:40 3743 Jan 22 14:13	0°조37'37 4°조41'37 22°조13'27 0°उ 4°उ19'01 9°उ46'46 29°उ40'08	-0.7m 1.44555 AU	min. Earth dist. inferior conj minimum elong asc. node morning rise direct	3743 Nov 08 04:56 3743 Nov 12 09:01 3743 Nov 13 22:36 3743 Nov 14 00:17 3743 Nov 17 00:05 3743 Nov 19 20:12 3743 Nov 22 21:09 3743 Nov 29 14:23	27°M54'43 23°M31'54 21°M36'56 21°M31'44 18°M06'24 15°M49'10 14°M56'43 18°M38'24	-1°02'47 1°02'04
desc. node morning set max. Earth dist.	3742 Dec 08 22:47 3742 Dec 16 04:22 3742 Dec 29 08:47 3743 Jan 03 12:04 3743 Jan 06 07:39 3743 Jan 09 20:40 3743 Jan 22 14:13 3743 Jan 22 19:14	0°♂37'37 4°♂41'37 22°♂13'27 0°♂ 4°♂19'01 9°♂46'46 29°♂40'08 0°≈	-0.7m 1.44555 AU -1°52'31	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3743 Nov 08 04:56 3743 Nov 12 09:01 3743 Nov 13 22:36 3743 Nov 14 00:17 3743 Nov 17 00:05 3743 Nov 19 20:12 3743 Nov 22 21:09 3743 Nov 29 14:23 3743 Dec 08 07:27	27°M.54'43 23°M.31'54 21°M.36'56 21°M.31'44 18°M.06'24 15°M.49'10 14°M.56'43 18°M.38'24 0° 🗷	-1°02'47 1°02'04
desc. node morning set max. Earth dist.	3742 Dec 08 22:47 3742 Dec 16 04:22 3742 Dec 29 08:47 3743 Jan 03 12:04 3743 Jan 06 07:39 3743 Jan 09 20:40 3743 Jan 22 14:13 3743 Jan 22 19:14 3743 Jan 26 13:47	0°♂37'37 4°♂41'37 22°♂13'27 0°♂ 4°♂19'01 9°♂46'46 29°♂40'08 0°≈ 6°≈00'26	-0.7m 1.44555 AU -1°52'31	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	3743 Nov 08 04:56 3743 Nov 12 09:01 3743 Nov 13 22:36 3743 Nov 14 00:17 3743 Nov 17 00:05 3743 Nov 19 20:12 3743 Nov 22 21:09 3743 Nov 29 14:23 3743 Dec 08 07:27 3743 Dec 20 13:35	27°M54'43 23°M31'54 21°M36'56 21°M31'44 18°M06'24 15°M49'10 14°M56'43 18°M38'24 0° 🗷 19° 🞜 '07'20	-1°02'47 1°02'04
desc. node morning set max. Earth dist. superior conj minimum elong	3742 Dec 08 22:47 3742 Dec 16 04:22 3742 Dec 29 08:47 3743 Jan 03 12:04 3743 Jan 06 07:39 3743 Jan 09 20:40 3743 Jan 22 14:13 3743 Jan 22 19:14 3743 Jan 26 13:47 3743 Jan 26 06:26	0° 🗷 37'37 4° 🗷 41'37 22° 🗷 13'27 0° 云 4° 云 19'01 9° 云 46'46 29° 云 40'08 0° ≈ 6° ≈ 00'26 5° ≈ 31'02	-0.7m 1.44555 AU -1°52'31	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	3743 Nov 08 04:56 3743 Nov 12 09:01 3743 Nov 13 22:36 3743 Nov 14 00:17 3743 Nov 17 00:05 3743 Nov 19 20:12 3743 Nov 22 21:09 3743 Nov 29 14:23 3743 Dec 08 07:27 3743 Dec 20 13:35 3743 Dec 24 04:42	27°M.54'43 23°M.31'54 21°M.36'56 21°M.31'44 18°M.06'24 15°M.49'10 14°M.56'43 18°M.38'24 0° 🗷 19° 🗷 07'20 24° 🗷 51'26	-1°02'47 1°02'04
desc. node morning set max. Earth dist. superior conj minimum elong	3742 Dec 08 22:47 3742 Dec 16 04:22 3742 Dec 29 08:47 3743 Jan 03 12:04 3743 Jan 06 07:39 3743 Jan 09 20:40 3743 Jan 22 14:13 3743 Jan 22 19:14 3743 Jan 26 13:47 3743 Jan 26 06:26 3743 Feb 09 13:41	0° 🗷 37'37 4° 🗷 41'37 22° 🗷 13'27 0° 云 4° 云 19'01 9° 云 46'46 29° 云 40'08 0° ≈ 6° ≈ 00'26 5° ≈ 31'02 28° ≈ 58'29	-0.7m 1.44555 AU -1°52'31	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set	3743 Nov 08 04:56 3743 Nov 12 09:01 3743 Nov 13 22:36 3743 Nov 14 00:17 3743 Nov 17 00:05 3743 Nov 19 20:12 3743 Nov 22 21:09 3743 Nov 29 14:23 3743 Dec 08 07:27 3743 Dec 20 13:35 3743 Dec 24 04:42	27°M.54'43 23°M.31'54 21°M.36'56 21°M.31'44 18°M.06'24 15°M.49'10 14°M.56'43 18°M.38'24 0° 🗷 19° 🗷 07'20 24° 🗷 51'26	-1°02'47 1°02'04 18°40'54
desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	3742 Dec 08 22:47 3742 Dec 16 04:22 3742 Dec 29 08:47 3743 Jan 03 12:04 3743 Jan 06 07:39 3743 Jan 09 20:40 3743 Jan 22 14:13 3743 Jan 22 19:14 3743 Jan 26 06:26 3743 Feb 09 13:41 3743 Feb 10 04:22 3743 Feb 26 02:22	0° 🗷 37'37 4° 🗷 41'37 22° 🗷 13'27 0° 云 4° 云 19'01 9° 云 46'46 29° 云 40'08 0° ≈ 6° ≈ 00'26 5° ≈ 31'02 28° ≈ 58'29 0° 光	-0.7m 1.44555 AU -1°52'31	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	3743 Nov 08 04:56 3743 Nov 12 09:01 3743 Nov 13 22:36 3743 Nov 14 00:17 3743 Nov 17 00:05 3743 Nov 19 20:12 3743 Nov 22 21:09 3743 Nov 29 14:23 3743 Dec 08 07:27 3743 Dec 20 13:35 3743 Dec 24 04:42 3743 Dec 27 11:01	27°M54'43 23°M31'54 21°M36'56 21°M31'44 18°M06'24 15°M49'10 14°M56'43 18°M38'24 0°\$\textstyle{A}\$ 19°\$\textstyle{A}\$07'20 24°\$\textstyle{A}\$51'26 0°\$\textstyle{A}\$	-1°02'47 1°02'04 18°40'54
greatest brilliancy desc. node morning set max. Earth dist. superior conj minimum elong evening rise	3742 Dec 08 22:47 3742 Dec 16 04:22 3742 Dec 29 08:47 3743 Jan 03 12:04 3743 Jan 06 07:39 3743 Jan 09 20:40 3743 Jan 22 14:13 3743 Jan 22 19:14 3743 Jan 26 06:26 3743 Feb 09 13:41 3743 Feb 10 04:22	0°¾37'37 4°¾41'37 22°¾13'27 0°♂ 4°♂19'01 9°♂46'46 29°♂40'08 0°≈ 6°≈00'26 5°≈31'02 28°≈58'29 0° 升 25°升05'15	-0.7m 1.44555 AU -1°52'31 1°52'00	min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	3743 Nov 08 04:56 3743 Nov 12 09:01 3743 Nov 13 22:36 3743 Nov 14 00:17 3743 Nov 17 00:05 3743 Nov 19 20:12 3743 Nov 22 21:09 3743 Nov 29 14:23 3743 Dec 08 07:27 3743 Dec 20 13:35 3743 Dec 24 04:42 3743 Dec 27 11:01	27°M54'43 23°M31'54 21°M36'56 21°M31'44 18°M06'24 15°M49'10 14°M56'43 18°M38'24 0°\$\textstyle{A}'' 19°\$\textstyle{A}''07'20 24°\$\textstyle{A}''51'26 0°\$\textstyle{B}'' 14°\textstyle{B}''38'35	-1°02'47 1°02'04 18°40'54

	3744 Jan 15 12:37	0° ≈		minimum elong	3744 Dec 14 19:29	23° ∡ ¹06'02	0°32'35
evening rise	3744 Jan 21 09:39	9° ≈ 21'57		max. Earth dist.	3744 Dec 18 03:19	28° ∡ ¹21'15	1.45108 AU
greatest brilliancy	3744 Jan 29 04:27	21° ≈ 49'32	-0.9m		3744 Dec 19 04:26	ರ°0	
	3744 Feb 03 10:12	0°) €		evening rise	3744 Dec 31 07:57	18° ප 555'37	
evening max el	3744 Feb 11 22:12	11°) 14'49	18°50'51	Č	3745 Jan 07 11:54	0° ≈	
asc. node	3744 Feb 12 23:23	12°) € 15'24		greatest brilliancy	3745 Jan 13 05:08	8° ≈ 42'30	-0.7m
retrograde	3744 Feb 18 16:04	15° ₩ 01'26		evening max el	3745 Jan 25 05:10	24°≈45'45	19°38'19
evening set	3744 Feb 21 22:21	14°)(00'17		asc. node	3745 Jan 29 20:27	28° ≈ 21'00	
inferior conj	3744 Feb 27 13:52	8°) €18'24	3°31'05	retrograde	3745 Feb 01 13:15	29° ≈ 00'14	
minimum elong	3744 Feb 27 12:32	8°) 22'34		evening set	3745 Feb 05 03:01	27°≈45'28	
min. Earth dist.	3744 Feb 29 07:31	6° ∺ 09'29	0.65514 AU	inferior conj	3745 Feb 10 14:04	21°≈48'24	3°11'31
morning rise	3744 Mar 04 02:18	2° \ 06'13	0.03314710	minimum elong	3745 Feb 10 11:53	21°≈55'37	3°11'05
morning rise	3744 Mar 07 06:21	30°R≈		min. Earth dist.	3745 Feb 11 16:54	20°≈19'59	0.66726 AU
direct	3744 Mar 10 16:24	29°≈15'13		morning rise	3745 Feb 15 20:33	15°≈34'46	0.00720710
direct	3744 Mar 10 10:24 3744 Mar 14 08:14	0° \		direct	3745 Feb 21 23:05	13 ≈5440 12°≈51'33	
desc. node	3744 Mar 21 03:55	4° ¥ 29'13		morning max el	3745 Mar 06 04:37	20°≈08'44	25°37'56
morning max el	3744 Mar 23 19:21	6° ¥ 59'20	26940107	desc. node	3745 Mar 08 00:57	20 ≈08 44 22°≈05'09	23 37 30
morning max er		0 γ (3920	20 49 07	desc. Hode		0° \	
	3744 Apr 10 14:10	0°8			3745 Mar 14 15:32	0°Υ	
. ,	3744 Apr 28 04:43	_			3745 Apr 03 17:34		
morning set	3744 Apr 28 15:53	0° 8 53'07	1 24206 444	morning set	3745 Apr 11 10:12	13° Y 27'43	1.25060 444
max. Earth dist.	3744 May 02 23:27	9° O 19'52	1.34306 AU	max. Earth dist.	3745 Apr 15 04:29	20° Y 28′07	1.35968 AU
					3745 Apr 20 01:59	9° 8	
superior conj	3744 May 07 05:12	17° 8 59'52					
minimum elong	3744 May 07 07:12	18° 8 10'16	0°37'38	superior conj	3745 Apr 20 21:44	1° 8 38'37	
asc. node	3744 May 10 22:42	25° 8 49'24		minimum elong	3745 Apr 21 01:16	1° 8 56'21	1°06'14
	3744 May 12 22:15	Π °0		asc. node	3745 Apr 27 19:45	15° 8 44'00	
evening rise	3744 May 14 16:44	3° ∏ 42′29		evening rise	3745 Apr 28 22:42	18° 8 01'28	
	3744 May 29 11:28	0			3745 May 05 01:21	Π °0	
evening max el	3744 Jun 03 08:42	5° © 39'57	21°17'20	evening max el	3745 May 16 16:23	16° Ⅱ 52′28	20°00'21
retrograde	3744 Jun 15 09:05	11° © 33'55		retrograde	3745 May 26 23:55	21° Ⅱ 53'46	
desc. node	3744 Jun 17 03:06	11° © 26'47		evening set	3745 May 28 23:02	21° Ⅱ 43'38	
evening set	3744 Jun 17 16:35	11° © 21'35		desc. node	3745 Jun 04 00:09	19° Ⅱ 25'55	
inferior conj	3744 Jun 27 01:44	7° © 22'50	-2°50'37	inferior conj	3745 Jun 06 22:36	17° Ⅱ 43'38	-0°52'07
minimum elong	3744 Jun 26 18:12	7° © 33'24	2°48'09	minimum elong	3745 Jun 06 20:11	17° Ⅱ 47'17	0°51'13
min. Earth dist.	3744 Jun 27 08:09	7° © 13'50	0.54839 AU	min. Earth dist.	3745 Jun 08 20:45	16° Ⅱ 34'12	0.55276 AU
morning rise	3744 Jul 05 20:18	3°\$25'53		morning rise	3745 Jun 15 15:32	13° Ⅱ 21'44	
direct	3744 Jul 09 06:17	3° 5 00'38		direct	3745 Jun 19 19:10	12° Ⅱ 44′07	
morning max el	3744 Jul 21 21:34	9° © 00'18	22°22'57	morning max el	3745 Jul 03 12:52	19° Ⅱ 30′16	24°06'04
Z .	3744 Aug 05 20:07	$0^{\circ}\Omega$		C	3745 Jul 12 08:33	0ංම	
asc. node	3744 Aug 06 21:57	2° Ω 00'33		asc. node	3745 Jul 24 19:01	21° © 30'31	
morning set	3744 Aug 12 16:43	13° Ω 36'30		morning set	3745 Jul 28 04:25	28°530'38	
Z .	Ü			C	3745 Jul 28 21:16	$0^{\circ}\Omega$	
superior conj	3744 Aug 19 20:15	28° Ω 48'07	1°40'05				
minimum elong	3744 Aug 19 18:51	28° Ω 40'44	1°40'01	superior conj	3745 Aug 04 04:01	13° Ω 35'23	1°29'56
g	3744 Aug 20 09:51	0° m)	1 10 01	minimum elong	3745 Aug 04 01:53	13° Ω 23'55	1°29'43
max. Earth dist.	3744 Aug 23 03:09	5° m) 40'43	1.34276 AU	max. Earth dist.	3745 Aug 06 04:29	17°Ω56'40	1.33121 AU
evening rise	3744 Aug 27 19:08	15° m 02'54	1.5 1270 110	evening rise	3745 Aug 11 13:19	29° Ω 08'44	1.55121710
e vennig rise	3744 Sep 04 21:52	ე∘ ი		evening rise	3745 Aug 11 23:29	0° m)	
desc. node	3744 Sep 13 02:24	13° ≏ 21'29			3745 Aug 29 00:29	0∘ ⊽	
dese. Hode	3744 Sep 25 06:06	0°M		desc. node	3745 Aug 30 23:26	° – 2° • 53'52	
evening max el	3744 Oct 01 14:56	6°M53'37	27°05'29	evening max el	3745 Sep 14 02:17	20° ♀ 07'14	27°26'08
retrograde	3744 Oct 14 21:51	14°M10'43	27 03 2)	retrograde	3745 Sep 27 17:14	27° £ 24'12	27 20 00
evening set	3744 Oct 21 18:06	11°M29'09		evening set	3745 Oct 04 20:55	24° Ω 46'26	
min. Earth dist.	3744 Oct 25 15:42	7°M42'11	0.65247 AU	min. Earth dist.	3745 Oct 04 20:33	21° ⊆ 33'01	0.63694 AU
	3744 Oct 27 17:15	5°M22'31			3745 Oct 11 03:06	21 = 33 01 18° £ 55'25	
inferior conj				inferior conj			
minimum elong	3744 Oct 27 20:42	5°M12'46	2 02 07	minimum elong	3745 Oct 11 08:09	18° £ 42'30	3 02 27
asc. node	3744 Nov 02 21:10	29° £ 51'17		morning rise	3745 Oct 17 20:42	13° £ 36'43	
	3744 Nov 02 14:31	30° ₹ Ω		direct	3745 Oct 20 08:18	13° ♀ 06'32	
morning rise	3744 Nov 03 00:12	29° Ω 47'32		asc. node	3745 Oct 20 18:13	13° ♀ 07'24	17051145
direct	3744 Nov 05 17:15	29° Ω 08'01		morning max el	3745 Oct 26 21:43	16° ≙ 31'41	17°51'45
	3744 Nov 08 20:41	0°M	10005:20		3745 Nov 05 11:46	0°M	
morning max el	3744 Nov 12 05:06	2°M37'03	18°07'39	morning set	3745 Nov 12 12:49	12°M02'55	
morning set	3744 Nov 30 11:54	29°M56'20			3745 Nov 23 02:32	0° ∡ ¹	
	3744 Nov 30 12:48	0° ∡ 7					
desc. node	3744 Dec 10 01:42	15° ∡ ³32′08		superior conj	3745 Nov 24 23:41	3° ∡ ¹06'07	
				minimum elong	3745 Nov 25 01:09	3° ∡ 12'05	0°13'20
superior conj	3744 Dec 14 23:39	23° ₹ 22'36	-0°33'10	behind sun begin	3745 Nov 24 19:36	2° ∡ 749'19	

behind sun end	3745 Nov 25 06:42	3° ∡ ³34'50			3746 Oct 29 02:40	0° M	
desc. node	3745 Nov 26 22:43	6° ∡ 18′04					
max. Earth dist.	3745 Nov 30 21:38	12° ∡ ¹40′03	1.44290 AU	superior conj	3746 Nov 06 02:24	14° M 07'54	0°52'12
evening rise	3745 Dec 10 18:04	28° ₰ 05'20		minimum elong	3746 Nov 06 06:27	14°ML25'18	0°51'40
	3745 Dec 11 23:55	ರ°ರ		max. Earth dist.	3746 Nov 13 11:26	26°M31'29	1.42852 AU
	3746 Jan 01 10:10	0° ≈		desc. node	3746 Nov 13 19:44	27°ML05'24	
evening max el	3746 Jan 08 06:51	8° ≈ 17'52	20°40'08		3746 Nov 15 14:44	0°⊀	
retrograde	3746 Jan 16 11:26	13° ≈ 07'56		evening rise	3746 Nov 20 07:38	7° ∡ 129'15	
asc. node	3746 Jan 16 17:30	13° ≈ 07'35			3746 Dec 05 06:09	0°ප	
evening set	3746 Jan 20 10:06	11° ≈ 38'35		evening max el	3746 Dec 22 02:57	21°る50'40	21°52'59
inferior conj	3746 Jan 25 18:53	5° ≈ 29'00	2°41'41	retrograde	3746 Dec 31 08:32	27° る 20'21	
minimum elong	3746 Jan 25 16:23	5° ≈ 37'34	2°41'00	asc. node	3747 Jan 03 14:31	26° る 23'23	
min. Earth dist.	3746 Jan 26 08:25	4° ≈ 42'40	0.67521 AU	evening set	3747 Jan 04 17:49	25° る 35'28	
	3746 Jan 30 04:01	30°Ŗる		inferior conj	3747 Jan 10 02:07	19°₹16'46	2°03'29
morning rise	3746 Jan 30 22:30	29° る 15'36		minimum elong	3747 Jan 09 23:48	19° る 24'50	2°02'42
direct	3746 Feb 05 10:57	26° る 48'56		min. Earth dist.	3747 Jan 10 03:47	19° る 10'59	0.67923 AU
	3746 Feb 12 17:56	0° ≈		morning rise	3747 Jan 15 05:37	13°る05'11	
morning max el	3746 Feb 16 13:15		24°12'46	direct	3747 Jan 20 03:12	10°る59'51	22012111
desc. node	3746 Feb 22 21:58	10°≈40'22		morning max el	3747 Jan 29 23:13	16° る 48'59	22°43'44
. ,	3746 Mar 08 20:41	0° ∺ 25° ∺ 00'00		desc. node	3747 Feb 09 18:58	29° る 57'40	
morning set	3746 Mar 24 08:09	25°π00'00 0°Υ			3747 Feb 09 19:39	0° ≈	
E d Ed	3746 Mar 27 04:24		1 27000 ATT	. ,	3747 Mar 01 22:25	0°) €	
max. Earth dist.	3746 Mar 28 01:18	1° Ƴ 33'28	1.37989 AU	morning set	3747 Mar 05 03:41	5° 光 14'21 13° 光 08'13	1 40161 ATT
aumorior comi	2746 Amm 04 02:24	14° Ƴ 39'21	1922120	max. Earth dist.	3747 Mar 09 20:41	13° \(\pi\)08'13	1.40161 AU
superior conj	3746 Apr 04 02:34 3746 Apr 04 07:09	14 + 3921 15° \gamma 01'19		avmariar agni	3747 Mar 17 15:22	26° ¥ 51'14	1954152
minimum elong	3746 Apr 11 22:38	0° 8	1 32 33	superior conj minimum elong	3747 Mar 17 13:22 3747 Mar 17 19:39	20 X 31 14 27° X 10'44	
evening rise	3746 Apr 12 22:15	1° 8 56'40		minimum clong	3747 Mar 17 19:39 3747 Mar 19 08:38	27 γ (1044 0° γ	1 34 34
asc. node	3746 Apr 14 16:47	5° 8 25'24		evening rise	3747 Mar 19 08:38 3747 Mar 27 12:17	15° Y 19'43	
evening max el	3746 Apr 29 11:50	28° 8 46'17	19°02'50	asc. node	3747 Apr 01 13:49	24° Υ 48'11	
evening max er	3746 Apr 30 20:38	0°Ⅱ	17 02 30	asc. node	3747 Apr 04 12:32	0°8	
retrograde	3746 May 08 04:20	3° I I00'23		evening max el	3747 Apr 04 12:32 3747 Apr 12 16:23		18°25'42
evening set	3746 May 10 06:17	2° I I46'47		retrograde	3747 Apr 20 03:25	14° 8 57'31	10 23 12
e venning sec	3746 May 16 07:39	30°R 8		evening set	3747 Apr 22 11:53	14° 8 36'34	
inferior conj	3746 May 18 11:19	28° 8 32'57	0°58'39	inferior conj	3747 Apr 29 21:21	10° 8 03'23	2°20'35
minimum elong	3746 May 18 13:34	28° 8 29'02	0°57'51	minimum elong	3747 Apr 30 01:04	9° 8 55'49	2°19'35
min. Earth dist.	3746 May 21 12:10	26° 8 27'24	0.56590 AU	min. Earth dist.	3747 May 03 07:56	7° 8 17'07	0.58506 AU
desc. node	3746 May 21 21:11	26° 8 12'31		morning rise	3747 May 07 11:12	4° 8 34'02	
morning rise	3746 May 26 17:40	23° 8 35'25		desc. node	3747 May 08 18:11	3° 8 57'49	
direct	3746 May 31 20:32	22° 8 33'40		direct	3747 May 13 12:25	2° 8 58'14	
morning max el	3746 Jun 15 03:18	29° 8 55'08	25°43'38	morning max el	3747 May 27 21:52	10° 8 41'39	26°59'55
	3746 Jun 15 05:19	$\Pi^{\circ}0$			3747 Jun 11 19:44	$\Pi^{\circ}0$	
	3746 Jul 05 23:49	0ං ව		morning set	3747 Jun 27 01:28	28° II 09'00	
asc. node	3746 Jul 11 16:02	11° © 17'59			3747 Jun 27 22:30	0ංම	
morning set	3746 Jul 12 15:52	13°523'08		asc. node	3747 Jun 28 13:04	1°517'33	
superior conj	3746 Jul 19 14:43	28° © 29'54	1°14'51	superior conj	3747 Jul 04 02:32	13° © 25'41	0°55'32
minimum elong	3746 Jul 19 12:22	28°917'00	1°14'29	minimum elong	3747 Jul 04 00:26	13°©14'05	0°55'08
	3746 Jul 20 07:08	$0^{\circ}\Omega$		max. Earth dist.	3747 Jul 03 23:50	13°©10'45	1.32056 AU
max. Earth dist.	3746 Jul 20 12:28		1.32383 AU	evening rise	3747 Jul 10 23:01	28° © 19'56	
evening rise	3746 Jul 26 15:29	13° Ω 37'01			3747 Jul 11 18:05	0 $^{\circ}$ Ω	
	3746 Aug 04 01:28	0° m)			3747 Jul 28 11:13	0° m)	
desc. node	3746 Aug 17 20:28	21° m/45'23		desc. node	3747 Aug 04 17:29	9° m/39'25	
	3746 Aug 24 15:51	0° ⊽	25015120	evening max el	3747 Aug 09 11:28	14° Mp 42'50	26°31'45
evening max el	3746 Aug 27 09:53	2° £ 46'52	27°15'38	retrograde	3747 Aug 23 10:37	21° m 53'30	
retrograde	3746 Sep 10 05:52	10° £ 01'13		evening set	3747 Aug 30 03:32	20° Mp 00'37	0.50700 ATT
evening set	3746 Sep 17 09:36	7° Ω 39'19	0.61022 411	min. Earth dist.	3747 Sep 03 01:04	17° Mp 25'01	0.59788 AU
min. Earth dist.	3746 Sep 21 00:13		0.61833 AU	inferior conj	3747 Sep 06 07:35	14° M) 49'55	
inferior conj	3746 Sep 24 01:00	2° £ 07'21		minimum elong	3747 Sep 06 12:26	14° Mp 40'16	4 43 20
minimum elong	3746 Sep 24 06:53	1° Ω 54'00	3 39 13	morning rise direct	3747 Sep 13 23:26	10° Mp 12'50	
morning rise	3746 Sep 26 11:30 3746 Oct 01 05:55	30° ዪ		morning max el	3747 Sep 16 08:41 3747 Sep 24 00:02	9° Mp 52'14 13° Mp 35'35	18°15'39
direct	3746 Oct 01 05:55 3746 Oct 03 14:47	26° Mp 44'14		asc. node	3747 Sep 24 00:02 3747 Sep 24 12:16	13° 11/35'35 14° 11/05'58	10 13 39
asc. node	3746 Oct 03 14.47 3746 Oct 07 15:15	20 m/44 14 27° m/55'52		asc. Houc	3747 Sep 24 12.16 3747 Oct 05 03:32	0° ம	
ase. node	3746 Oct 07 13:13 3746 Oct 10 07:20	0° ʊ		morning set	3747 Oct 03 03.32 3747 Oct 09 21:19	0 == 8° £ 51'12	
morning max el	3746 Oct 10 07:20	0° - 0° - 13'57	17°54'00		5, 1, 500 07 21.17	5 -51 12	
morning set	3746 Oct 26 09:52	25° ≏ 06'31	1, 2100	superior conj	3747 Oct 19 05:41	26° £ 21'16	1°19'46
				- ·· r · · · · · · · · · · · · · · · · ·			

asc. node

morning set

3748 Sep 10 09:18

3748 Sep 22 18:48

3748 Sep 26 06:57

 1° M 22'05

23° Mp 04'24

0∘**⊽**

asc. node

morning set

3749 Aug 28 06:21

3749 Sep 03 03:05

3749 Sep 06 23:04

19°**Ω**30′08

7° m/37'26

0° M

3751 Aug 03 05:53

 $0^{\circ}\Omega$

morning set	3751 Aug 06 18:52	7° Ω 16'39		morning rise	3752 Jun 06 19:31	4° Ⅱ 59'19	
				direct	3752 Jun 11 08:52	4° Ⅱ 12'41	
superior conj	3751 Aug 13 20:19	22° Ω 24'16	1°36'27	morning max el	3752 Jun 25 09:27	11° Ⅱ 15'52	24°49'01
minimum elong	3751 Aug 13 18:33	22° Ω 14'50	1°36'19		3752 Jul 09 15:19	0ಂ ತಾ	
max. Earth dist.	3751 Aug 16 13:39	28° Ω 10'47	1.33729 AU	asc. node	3752 Jul 18 21:34	17° © 13'40	
	3751 Aug 17 10:33	O° m y		morning set	3752 Jul 21 06:39	22° © 10'56	
evening rise	3751 Aug 21 12:42	8° m 19'01			3752 Jul 24 21:48	$0 {\circ} \Omega$	
	3751 Sep 02 10:59	0∘ ত					
desc. node	3751 Sep 08 04:53	9° ჲ 03'46		superior conj	3752 Jul 28 05:36	7° Ω 15'52	
	3751 Sep 24 23:23	0°M₊		minimum elong	3752 Jul 28 03:19		1°23'49
evening max el	3751 Sep 24 20:38	29° ≙ 53′29	27°17'45	max. Earth dist.	3752 Jul 29 18:07	10° Ω 34'29	1.32763 AU
retrograde	3751 Oct 08 07:50	7°M11'59		evening rise	3752 Aug 04 10:41	22° Ω 36′11	
evening set	3751 Oct 15 07:48	4°M30'39			3752 Aug 08 03:46	0° m	
min. Earth dist.	3751 Oct 19 02:50	0°M58'24	0.64624 AU	desc. node	3752 Aug 25 01:53	28° Tp 20'29	
	3751 Oct 20 00:36	30° ₹ Ω	2020120		3752 Aug 26 06:30	0° ™	27025141
inferior conj	3751 Oct 21 09:42	28° £ 29'49		evening max el	3752 Sep 06 06:53	12° Ω 54'59	2/°25'41
minimum elong	3751 Oct 21 13:52	28° £ 18'28	2°27'53	retrograde	3752 Sep 20 00:29	20° £ 10'44	
morning rise	3751 Oct 27 21:05	23° Ω 01'25		evening set min. Earth dist.	3752 Sep 27 05:05	17° Ω 38'30	0.62027 ATT
asc. node direct	3751 Oct 28 23:41 3751 Oct 30 11:21	22° △ 38'01 22° △ 26'27			3752 Sep 30 20:09 3752 Oct 03 14:51	14° £ 37'01 11° £ 55'02	0.62937 AU
morning max el	3751 Nov 05 23:12	25° £ 53'09	17°58'41	inferior conj minimum elong	3752 Oct 03 14.31 3752 Oct 03 20:25	11 2 33 02	
morning max er	3751 Nov 09 10:58	0°M	1/ 3641	morning rise	3752 Oct 10 13:14	6° £ 43'57	3 2/19
morning set	3751 Nov 09 10:38 3751 Nov 23 10:11	22°M16'32		direct	3752 Oct 10 13:14 3752 Oct 12 23:15	6° £ 16'46	
morning set	3751 Nov 28 01:03	0° × ⁷		asc. node	3752 Oct 12 23:13	6° £ 33'53	
desc. node	3751 Dec 05 04:09	11° х 41'00		morning max el	3752 Oct 19 15:36	9° ≏ 43'06	17°50'18
dese. node	3731 Bec 03 01.07	11 % 1100		morning max or	3752 Nov 02 02:41	0°M	17 30 10
superior conj	3751 Dec 07 01:01	14° × ⁷ 41'34	-0°12'49	morning set	3752 Nov 04 20:26	4°M49'39	
minimum elong	3751 Dec 06 23:28	14° × 35'22	0°12'35	morning sec	37021101 01 20.20		
behind sun begin	3751 Dec 06 16:50	14° ₹ 08'47		superior conj	3752 Nov 16 12:04	24°M57'14	0°31'14
behind sun end	3751 Dec 07 06:05	15° ∡ 701'55		minimum elong	3752 Nov 16 15:02	25° ™ 09'40	0°30'49
max. Earth dist.	3751 Dec 11 11:54	21° ∡ ⁴47'00	1.44839 AU		3752 Nov 19 13:03	0° ∡ ¹	
	3751 Dec 16 17:35	8°0		desc. node	3752 Nov 21 01:09	2° ∡ ¹27'48	
evening rise	3751 Dec 23 07:02	10° ට 09'44		max. Earth dist.	3752 Nov 23 04:28	5° ∡ ¹55'39	1.43749 AU
	3752 Jan 05 08:14	0° ≈		evening rise	3752 Dec 01 16:30	19° ∡ ¹20'14	
greatest brilliancy	3752 Jan 06 17:02	2° ≈ 01'19	-0.6m		3752 Dec 08 16:17	8°0	
evening max el	3752 Jan 18 17:33	17° ≈ 50'45	20°03'07		3752 Dec 30 09:34	0° ≈	
asc. node	3752 Jan 24 22:58	22° ≈ 08′20		evening max el	3752 Dec 31 16:53	1° ≈ 23′15	21°10'11
retrograde	3752 Jan 26 09:52	22° ≈ 19′50		retrograde	3753 Jan 09 07:36	6° ≈ 29'31	
evening set	3752 Jan 30 03:07	20°≈59'13		asc. node	3753 Jan 10 19:59	6°≈16'57	
inferior conj	3752 Feb 04 12:59	14° ≈ 56'39	2°59'59	evening set	3753 Jan 13 10:37	4° ≈ 53'43	
minimum elong	3752 Feb 04 10:36	15° ≈ 04'39	2°59'27		3753 Jan 17 19:42	30°Ŗる	
min. Earth dist.	3752 Feb 05 10:04	13° ≈ 45'47	0.67109 AU	inferior conj	3753 Jan 18 19:01	28° る 40'07	2°26'24
morning rise	3752 Feb 09 17:51	8°≈42'46		minimum elong	3753 Jan 18 16:32	28°る48'42	
direct	3752 Feb 15 14:40	6°≈05'25	25002140	min. Earth dist.	3753 Jan 19 03:24	28°る11'10	0.67738 AU
morning max el	3752 Feb 27 09:14	13°≈07'41	25°02'49	morning rise	3753 Jan 23 22:16	22° る 27'26	
desc. node	3752 Mar 02 03:22	17°≈13'04		direct	3753 Jan 29 04:31	20°පි09'16 26°පි26'08	22924150
	3752 Mar 12 00:50	0° ℋ 0° Ƴ		morning max el	3753 Feb 08 17:47		23*34*30
morning set	3752 Mar 31 05:03 3752 Apr 03 13:07	5° Υ 51'36		desc. node	3753 Feb 12 00:41 3753 Feb 17 00:22	0° ≈ 6° ≈ 07'40	
max. Earth dist.	3752 Apr 07 04:25		1.36784 AU	desc. Hode	3753 Mar 05 15:08	0 ∞ 07 40	
man. Darui Uist.	3132 Apr 07 04.23	12 1203/	1.50/04 AU	morning set	3753 Mar 16 00:25	0 X 16° ¥ 51'44	
superior conj	3752 Apr 13 12:33	24° Y 36'23	-1°18'34	max. Earth dist.	3753 Mar 10 00.25		1.38907 AU
minimum elong	3752 Apr 13 16:38	24° Υ 56'27		man. Darm dige.	3753 Mar 23 12:09	0°Υ	1.50507110
	3752 Apr 16 05:45	0°8	, -, -				
evening rise	3752 Apr 21 20:46	11° 8 20'29		superior conj	3753 Mar 27 11:08	7° Y 17'51	-1°43'27
asc. node	3752 Apr 21 22:19	11° 8 28'17		minimum elong	3753 Mar 27 15:49	7° Y ′39'50	
	3752 May 01 22:08	0°II		evening rise	3753 Apr 05 16:38	25° Y ′02'50	
evening max el	3752 May 09 00:15	9° Ⅱ 12′02	19°33'30	-	3753 Apr 08 06:14	0°8	
retrograde	3752 May 18 14:16	13° Ⅱ 51′24		asc. node	3753 Apr 08 19:20	1° 8 02'24	
evening set	3752 May 20 13:46	13° Ⅱ 40′22		evening max el	3753 Apr 22 00:01	21° 8 22'22	18°44'37
inferior conj	3752 May 29 06:05	9° Ⅱ 36′04	-0°02'35	retrograde	3753 Apr 30 02:18	25° 8 20'15	
			0000100		2552) (02 05 05	25° 8 03'46	
minimum elong	3752 May 29 05:58	9° Ⅱ 36′15	0°02'33	evening set	3753 May 02 07:07	25 003 40	
minimum elong transit middle	3752 May 29 05:58 3752 May 29 05:58	9° Д 36'15 9° Д 36'15	0°02'33 0°02'33	inferior conj	3753 May 10 03:36	20° 8 41'56	1°37'22
_	3752 May 29 05:58 3752 May 29 02:07	9° Ⅱ 36'15 9° Ⅱ 42'23		inferior conj minimum elong	3753 May 10 03:36 3753 May 10 06:52	20° 8 41'56 20° 8 35'52	1°36'19
transit middle transit begin transit end	3752 May 29 05:58 3752 May 29 02:07 3752 May 29 09:50	9°П36'15 9°П42'23 9°П30'06		inferior conj minimum elong min. Earth dist.	3753 May 10 03:36 3753 May 10 06:52 3753 May 13 10:33	20° 8 41'56 20° 8 35'52 18° 8 16'49	
transit middle transit begin	3752 May 29 05:58 3752 May 29 02:07	9° Ⅱ 36'15 9° Ⅱ 42'23		inferior conj minimum elong	3753 May 10 03:36 3753 May 10 06:52	20° 8 41'56 20° 8 35'52	1°36'19

direct	3753 May 23 16:33	14° 8 14'52		desc. node	3754 May 02 20:36	25° Ƴ 18'35	
morning max el	3753 Jun 07 00:58	21° 8 46'15	26°19'26	desc. node direct	3754 May 05 13:21	23 1 18 33 24°Υ58'37	
morning max er	3753 Jun 14 06:05	0°II	20 19 20	direct	3754 May 16 20:10	0° 8	
	3753 Jul 14 00:03 3753 Jul 02 07:41	0°©		morning max el	3754 May 19 22:12	2° 8 47'27	27°22'50
morning set	3753 Jul 02 07.41 3753 Jul 05 17:31	0 € 7°901'18		morning max er	3754 Jun 08 16:57	2 0 4727 0° Ⅱ	21 22 39
asc. node	3753 Jul 05 17:31 3753 Jul 05 18:36	7°906'58		morning sot	3754 Jun 20 01:48	21° II 42'12	
asc. Houe	3/33 Jul 03 18.30	/ 900 38		morning set asc. node	3754 Jun 20 01.48 3754 Jun 22 15:37	27° I 109'46	
aumorior coni	2752 Iul. 12 16:50	2200211122	1°07'08	asc. node	3754 Jun 22 13:37 3754 Jun 23 23:07	27 п 0946	
superior conj	3753 Jul 12 16:59	22°911'32		max. Earth dist.		5° 9 55'23	1 22042 ATT
minimum elong	3753 Jul 12 14:41	21°958'51	1°06'45	max. Earth dist.	3754 Jun 26 16:00	3-95523	1.32043 AU
max. Earth dist.	3753 Jul 13 04:09	23°913'05	1.32204 AU		2754 1 27 04 42	70505121	0046112
	3753 Jul 16 06:30	0° Ω		superior conj	3754 Jun 27 04:42	7°505'21	0°46'12
evening rise	3753 Jul 19 15:27	7° Ω 11'53		minimum elong	3754 Jun 27 02:50	6°955'05	0°45'50
	3753 Jul 31 15:33	0° m)		evening rise	3754 Jul 04 00:34	21°958'10	
desc. node	3753 Aug 11 22:54	16° mp 50'00			3754 Jul 07 21:59	0° N	
evening max el	3753 Aug 19 12:27	25° mp 18'01	27°00'58		3754 Jul 26 05:36	0° m)	
	3753 Aug 25 12:35	0∘ ⊽		desc. node	3754 Jul 29 19:55	4° m 12'40	
retrograde	3753 Sep 02 09:38	2° ≏ 29'48		evening max el	3754 Aug 01 10:48	6° My 52'54	26°03'27
evening set	3753 Sep 09 10:23	0° ჲ 18'59		retrograde	3754 Aug 15 10:10	14° m 01'41	
	3753 Sep 09 22:30	30°R, Mp		evening set	3754 Aug 21 18:51	12° m 23'55	
min. Earth dist.	3753 Sep 13 02:42	27° m 38'33	0.60983 AU	min. Earth dist.	3754 Aug 25 23:21	9° ™ 48'21	0.58912 AU
inferior conj	3753 Sep 16 06:43	24° m 56'11		inferior conj	3754 Aug 29 05:40	7° Mp 22'58	
minimum elong	3753 Sep 16 12:28	24° Mp 43'51	4°20'40	minimum elong	3754 Aug 29 09:16	7° Mp 16'16	4°58'58
morning rise	3753 Sep 23 16:21	20° m 05'57		morning rise	3754 Sep 06 01:53	2° M 55'55	
direct	3753 Sep 26 01:08	19° m 43'33		direct	3754 Sep 08 12:25	2° Mp 36'01	
asc. node	3753 Oct 01 17:46	21° m 59'04		morning max el	3754 Sep 16 13:29	6° Mp 27′42	18°31'11
morning max el	3753 Oct 03 05:27	23° m 17'42	18°00'43	asc. node	3754 Sep 18 14:49	8° m 39'21	
	3753 Oct 08 13:12	0∘ ত			3754 Oct 01 13:08	0∘ ⊽	
morning set	3753 Oct 19 00:17	18° ≏ 13'17		morning set	3754 Oct 02 16:29	2° £ 11'36	
	3753 Oct 25 10:13	0° M .					
				superior conj	3754 Oct 11 14:02	19° ≏ 11'27	1°28'06
superior conj	3753 Oct 29 01:51	6°ML31'37	1°05'17	minimum elong	3754 Oct 11 17:22	19° ≏ 26'57	1°27'48
minimum elong	3753 Oct 29 06:04	6°M50'12	1°04'46	•	3754 Oct 17 13:14	0°M	
max. Earth dist.	3753 Nov 05 16:40	19°MJ34'28	1.42101 AU	max. Earth dist.	3754 Oct 18 23:21	2°M29'14	1.40105 AU
desc. node	3753 Nov 07 22:11	23°M15'05		evening rise	3754 Oct 23 05:22	9°M43'35	
evening rise	3753 Nov 11 12:25	29°ML03'06		desc. node	3754 Oct 25 19:14	13°M58'43	
8	3753 Nov 12 02:44	0° ∡ ¹			3754 Nov 05 01:57	0° ∡ 7	
	3753 Dec 02 07:35	5°0		evening max el	3754 Nov 27 01:09	28° ₹ ³34'48	23°46'08
evening max el	3753 Dec 14 10:59	14° る 57'46	22°26'13	5 · · · · · · · · · · · · · · · · · · ·	3754 Nov 28 12:41	0°る	
retrograde	3753 Dec 24 03:41	20° පි 43'38		retrograde	3754 Dec 07 20:44	4°る57'39	
evening set	3753 Dec 28 18:07	18° ප 51'43		evening set	3754 Dec 13 00:01	2° る 49'33	
asc. node	3753 Dec 28 17:00	18° る 53'59		asc. node	3754 Dec 15 14:02	0° ට 08'14	
inferior conj	3754 Jan 03 02:41	12° る 30'23	1°45'06	use. noue	3754 Dec 15 16:44	30°R. ✓	
minimum elong	3754 Jan 03 00:34	12° る 37'42	1°44'20	inferior conj	3754 Dec 18 10:09	26°×724'25	0°57'16
min. Earth dist.	3754 Jan 02 23:32	12°る41'15	0.67986 AU	minimum elong	3754 Dec 18 08:50	26° × 24 25 26° × 28'51	0°56'43
morning rise	3754 Jan 08 06:54	6°る20'27	0.07700710	min. Earth dist.	3754 Dec 17 00:30	27°×12'02	0.67869 AU
direct	3754 Jan 12 22:18	4°る24'54		morning rise	3754 Dec 23 17:40	20°×18'59	0.07007710
morning max el	3754 Jan 22 05:28	9° ප 52'31	22°06'59	direct	3754 Dec 27 19:01	18° х 46'13	
desc. node	3754 Feb 03 21:24	25° る 39'21	22 00 37	morning max el	3755 Jan 04 23:33	23°×729'21	20°46'53
desc. node	3754 Feb 06 22:55	0° ≈		morning max cr	3755 Jan 10 14:18	0°る	20 4033
morning set	3754 Feb 24 07:26	0 ~ 26°≈30'07		desc. node	3755 Jan 21 18:27	0 0 15° る 37'29	
morning set	3754 Feb 24 07:20 3754 Feb 26 11:03	20 ≈3007 0° ∺		desc. node	3755 Jan 31 07:20	13 O 3729	
max. Earth dist.			1.41071 AU	morning sat		0 ∞ 4°≈57'53	
max. Earm dist.	3754 Mar 01 21:19	3 X 41 02	1.410/1 AU	morning set max. Earth dist.	3755 Feb 03 12:18		1 42000 ATT
	275434 00 15 22	100 100 110	2001110	max. Earm dist.	3755 Feb 12 01:46	18 ≈33 30	1.42980 AU
superior conj	3754 Mar 09 15:33	19° 米 05'12 19° 米 20'35			2755 F 1 10 20 47	20047111	200711.4
minimum elong	3754 Mar 09 19:01	19° π 2035	2 01 08	superior conj	3755 Feb 18 20:47	29°≈47'11	
	3754 Mar 15 16:02			minimum elong	3755 Feb 18 20:09	29°≈44'32	2-0/14
evening rise	3754 Mar 20 01:29	8° Y 09'33			3755 Feb 18 23:49	0° ∀	
asc. node	3754 Mar 26 16:20	20° Y 15′09		evening rise	3755 Mar 02 19:14	20°) € 31'34	
	3754 Apr 01 20:14	0°8	10015155	,	3755 Mar 08 03:50	0° Υ	
evening max el	3754 Apr 05 07:18	4° 8 03'55	18°15'55	asc. node	3755 Mar 13 13:21	8°Υ59'32	1000 (17.5
retrograde	3754 Apr 12 09:26	7° 8 36'35		evening max el	3755 Mar 19 18:51	17° Y 08'09	18°06'56
evening set	3754 Apr 14 20:41	7° 8 11'39	2045:22	retrograde	3755 Mar 26 08:11	20° Υ 31'08	
inferior conj	3754 Apr 21 22:34	2° 8 29'14		evening set	3755 Mar 29 01:29	19° Y 55'52	
minimum elong	3754 Apr 22 02:05	2° 8 21'35	2°44'42	inferior conj	3755 Apr 04 12:28	14° Y 53'13	3°23'21
	3754 Apr 24 19:30	30° Ŗ ♈		minimum elong	3755 Apr 04 14:32	14° Y 48′01	3°23'05
min. Earth dist.	3754 Apr 25 08:29	29° Y 33′02	0.59420 AU	min. Earth dist.	3755 Apr 07 14:08	11°Υ50'38	0.61594 AU
morning rise	3754 Apr 29 04:51	26° Ƴ 49'20		morning rise	3755 Apr 11 01:52	8° Ƴ 55'33	

direct	3755 Apr 17 21:19	6° Ƴ 32'28		minimum elong	3756 Mar 17 17:31	27°) (44'43	3°37'08
desc. node	3755 Apr 19 17:38	6°Υ42'18		min. Earth dist.	3756 Mar 20 04:50	24° H 59'19	0.63614 AU
morning max el	3755 May 02 01:46	14° Υ 30'24	27°50'41	morning rise	3756 Mar 23 16:52	21°) (3919	0.03014710
morning max cr	3755 May 14 14:08	0°8	27 30 41	direct	3756 Mar 30 14:09	18°) 54'11	
	3755 Jun 01 04:18	0°II		desc. node	3756 Apr 05 14:41	20°) 39'45	
morning set	3755 Jun 04 05:37	6° Ⅱ 07'27		morning max el	3756 Apr 13 09:42	26° H 51'56	27°40'52
asc. node	3755 Jun 09 12:41	17° I I17'37		morning man vi	3756 Apr 16 08:19	0°Υ	27 .002
max. Earth dist.	3755 Jun 10 01:47	18° Ⅱ 28'34	1.32284 AU		3756 May 07 05:17	0°8	
man. Darvir alov.	3700 van 10 01.17	10 2203.	1.52201110	morning set	3756 May 18 02:29	20° 8 08'25	
superior conj	3755 Jun 11 15:04	21° ∏ 51'44	0°21'55		3756 May 22 22:01	0°II	
minimum elong	3755 Jun 11 14:05	21° I I46'17		max. Earth dist.	3756 May 23 05:22	0° ∏ 38'41	1.32962 AU
	3755 Jun 15 08:17	0°ಅ	·		,		-10-2, 0-110
evening rise	3755 Jun 18 11:57	6°5948'23		superior conj	3756 May 25 22:12	6° Ⅱ 23'42	-0°05'02
	3755 Jun 30 15:08	0°Ω		minimum elong	3756 May 25 22:27	6° Ⅱ 25'03	0°04'59
evening max el	3755 Jul 14 02:17	17° Ω 43'34	24°39'59	behind sun begin	3756 May 25 17:22	5° I I57'45	0 0.25
desc. node	3755 Jul 16 16:56	20°Ω01'56	,	behind sun end	3756 May 26 03:33	6° ∏ 52'23	
retrograde	3755 Jul 28 00:16	24° Ω 45'42		asc. node	3756 May 26 09:43	7° I I25'35	
evening set	3755 Aug 02 03:18	23°Ω46'26		evening rise	3756 Jun 01 23:42	21° I 35'14	
min. Earth dist.	3755 Aug 07 13:30	20°Ω56'49	0.56981 AU	evening rise	3756 Jun 06 01:40	0ಂತ	
inferior conj	3755 Aug 10 08:59	19° Ω 07'36		evening max el	3756 Jun 24 15:32	28° © 09'32	23°03'45
minimum elong	3755 Aug 10 07:29	19° Ω 10′03		evening man er	3756 Jun 26 16:28	0°N	25 05 .5
morning rise	3755 Aug 18 14:14	15° Ω 02'05	0 0/02	desc. node	3756 Jul 02 13:58	3° Ω 42'36	
direct	3755 Aug 21 05:13	14° Ω 42'57		retrograde	3756 Jul 08 01:30	4°Ω51'05	
morning max el	3755 Aug 30 12:32	19° Ω 04'00	19°22'52	evening set	3756 Jul 11 16:02	4°Ω22'39	
asc. node	3755 Sep 05 11:54	26° Ω 20'00	1, 2202	min. Earth dist.	3756 Jul 19 00:41		0.55525 AU
use. Houe	3755 Sep 07 20:05	0°m/		inferior conj	3756 Jul 20 16:44	0°Ω06'20	
morning set	3755 Sep 16 17:14	16° Mp 34'43		minimum elong	3756 Jul 20 09:36	0°Ω16'43	
morning sec	3755 Sep 23 10:18	0∘ ಹ		mmmum vieng	3756 Jul 20 21:05	30°R.55	. 5101
	5700 5 0 p 2 5 10.10	· —		morning rise	3756 Jul 29 05:29	26°514'10	
superior conj	3755 Sep 24 19:09	2° £ 41'24	1°40'37	direct	3756 Aug 01 03:20	25°954'01	
minimum elong	3755 Sep 24 20:50	2° £ 49'36	1°40'33	4.1.001	3756 Aug 10 22:24	0°Ω	
max. Earth dist.	3755 Oct 01 03:26	14° £ 43'23	1.38025 AU	morning max el	3756 Aug 12 00:02	0° Ω 56'39	20°36'08
evening rise	3755 Oct 04 21:45	21° ♀ 29'04	1.50020110	asc. node	3756 Aug 22 08:58	14° Ω 46'27	20 30 00
	3755 Oct 09 21:11	0°M			3756 Aug 30 09:10	0° mp	
desc. node	3755 Oct 12 16:16	4°ML34'52		morning set	3756 Aug 30 23:40	1° m)14'10	
***************************************	3755 Oct 30 00:50	0° ∡ ¹					
evening max el	3755 Nov 09 13:39	12° ∡ 15'49	25°03'21	superior conj	3756 Sep 07 12:22	16° Mp 46'55	1°44'29
retrograde	3755 Nov 21 09:43	19° ∡ 07'20		minimum elong	3756 Sep 07 12:25	16° m 47'07	1°44'29
evening set	3755 Nov 27 02:42	16° ∡ 744'17		max. Earth dist.	3756 Sep 12 10:43	26° m 36'48	1.36095 AU
min. Earth dist.	3755 Dec 01 14:59	11° ∡ °40'46	0.67407 AU		3756 Sep 14 04:58	0∘ <u>⊽</u>	
asc. node	3755 Dec 02 11:05	10° ∡ ³34'52		evening rise	3756 Sep 16 10:34	4° £ 11'38	
inferior conj	3755 Dec 02 15:40	10° √ 19'50	0°03'55	desc. node	3756 Sep 28 13:18	24° ≏ 58'29	
minimum elong	3755 Dec 02 15:34	10° ≯ ⁷ 20′10	0°03'52		3756 Oct 01 19:03	0°M	
transit middle	3755 Dec 02 15:34	10° ≯ ⁷ 20′10	0°03'52	evening max el	3756 Oct 22 02:09	25°M58'14	26°10'32
transit begin	3755 Dec 02 12:52	10° ₹ ¹29'00		•	3756 Oct 26 19:57	0° ∡ ¹	
transit end	3755 Dec 02 18:15	10° √ 11′20		retrograde	3756 Nov 03 17:41	3° ҂ 107'16	
morning rise	3755 Dec 08 04:37	4° ∡ 121'05		evening set	3756 Nov 10 00:22	0° ∡ ³32'19	
direct	3755 Dec 11 17:30	3° ∡ ¹08'57			3756 Nov 10 15:10	30°₽ M J	
morning max el	3755 Dec 19 01:29	7° ∡ 17'15	19°39'27	min. Earth dist.	3756 Nov 14 05:31	26°M04'12	0.66603 AU
greatest brilliancy	3756 Jan 01 04:48	24° ∡ ³39'27	-0.7m	inferior conj	3756 Nov 15 17:21	24°M13'26	-0°53'45
	3756 Jan 04 18:16	ರ∘ರ		minimum elong	3756 Nov 15 18:48	24°M08'58	0°53'08
desc. node	3756 Jan 08 15:30	5° る 54'49		asc. node	3756 Nov 18 08:09	21°ML08'44	
morning set	3756 Jan 13 08:40	13° る 09'50		morning rise	3756 Nov 21 13:42	18°M24'01	
	3756 Jan 24 03:34	0° ≈		direct	3756 Nov 24 16:05	17° M 29'14	
max. Earth dist.	3756 Jan 25 13:27	2° ≈ 14'06	1.44397 AU	morning max el	3756 Dec 01 10:36	21°M13'23	18°47'16
					3756 Dec 08 10:08	0° ∡ ¹	
superior conj	3756 Jan 30 00:10	9° ≈ 20′25	-1°55'57	morning set	3756 Dec 22 21:38	22° ≯ 18′23	
minimum elong	3756 Jan 29 17:35	8° ≈ 53'57	1°55'33	desc. node	3756 Dec 25 12:32	26° ₹ 25'49	
-	3756 Feb 11 12:54	0°) €			3756 Dec 27 19:03	5°0	
evening rise	3756 Feb 12 17:31	2°) €00'42		max. Earth dist.	3757 Jan 07 06:39	16° る 26'59	1.45153 AU
asc. node	3756 Feb 28 10:24	27°) €06'44					
	3756 Mar 01 21:03	$0^{\circ}\mathbf{\Upsilon}$		superior conj	3757 Jan 08 06:59	18° る 02'35	-1°25'14
evening max el	3756 Mar 02 07:37	0° Υ 27'12	18°16'58	minimum elong	3757 Jan 07 21:50	17° る 26'36	1°24'16
retrograde	3756 Mar 08 18:07	3° Y 54'13		-	3757 Jan 15 20:44	0° ≈	
evening set	2756 M 11 17 14	3° Ƴ 07'24			2757 I 22 16.59	12°≈32'45	
	3756 Mar 11 17:14	3 10/24		evening rise	3757 Jan 23 16:58	12 ~32 43	
	3756 Mar 11 17:14 3756 Mar 15 15:25	30°R) €		greatest brilliancy	3757 Jan 29 14:31	22°≈03'24	-0.9m
inferior conj			3°37'09	=			-0.9m

evening max el	3757 Feb 13 18:56	13° ¥ 54'40	18°45'09	asc. node	3758 Feb 01 04:29	0°) 41′56	
asc. node	3757 Feb 14 07:27	14° ∺ 25'37		retrograde	3758 Feb 04 08:06	1° ∺ 35′02	
retrograde	3757 Feb 20 11:11	17°) 37′53		evening set	3758 Feb 07 20:39	0°) 22′21	
evening set	3757 Feb 23 16:32	16°) 38′33			3758 Feb 08 08:50	30° R ≈	
inferior conj	3757 Mar 01 08:55	10° ¥ 59'01	3°32'56	inferior conj	3758 Feb 13 08:12	24° ≈ 27'14	3°15'08
minimum elong	3757 Mar 01 07:45	11°) €02'36	3°32'50	minimum elong	3758 Feb 13 06:07	24° ≈ 34'05	3°14'47
min. Earth dist.	3757 Mar 03 04:49	8°){ 44'42	0.65299 AU	min. Earth dist.	3758 Feb 14 13:07	22° ≈ 52'39	0.66571 AU
morning rise	3757 Mar 06 22:32	4°)(47'18		morning rise	3758 Feb 18 15:21	18° ≈ 13'37	
direct	3757 Mar 13 13:57	1° ¥ 56′20		direct	3758 Feb 24 19:45	15°≈28'42	
desc. node	3757 Mar 13 13:37	6° ₩ 37'39		morning max el	3758 Mar 09 05:00	22°≈50'59	25°49'41
	3757 Mar 26 19:28	9°) (42'47	26°57'54	desc. node	3758 Mar 10 08:44	24°≈02'45	23 4941
morning max el		9 π4247 0° Υ	20 37 34	desc. node		24 ≈ 02 43 0° ∀	
	3757 Apr 11 18:14				3758 Mar 15 12:40	0° Υ	
	3757 Apr 29 15:50	0° 8			3758 Apr 05 01:49		
morning set	3757 May 01 13:24	3° 8 36'17		morning set	3758 Apr 14 10:15	16° Y 19′02	
max. Earth dist.	3757 May 05 23:26	12° 8 18'39	1.34102 AU	max. Earth dist.	3758 Apr 18 06:10	23° Y 30'23	1.35694 AU
					3758 Apr 21 14:09	9° 8	
superior conj	3757 May 10 00:03	20° 8 35'21					
minimum elong	3757 May 10 01:48	20° 8 44'33	0°33'16	superior conj	3758 Apr 23 18:00	4° 8 19'02	-1°02'33
asc. node	3757 May 13 06:45	27° 8 29'51		minimum elong	3758 Apr 23 21:19	4° 8 35'47	1°01'58
	3757 May 14 11:07	Π $\circ 0$		asc. node	3758 Apr 30 03:48	17° 8 26'13	
evening rise	3757 May 17 09:58	6° Ⅱ 13'04		evening rise	3758 May 01 16:40	20° 8 35'14	
	3757 May 30 08:33	0 \circ \odot			3758 May 06 10:12	Π°	
evening max el	3757 Jun 06 10:14	8°9542'58	21°30'09	evening max el	3758 May 19 16:03	19° ∏ 49'41	20°10'36
retrograde	3757 Jun 18 15:56	14°9544'24		retrograde	3758 May 30 06:00	24° Ⅱ 59'07	
desc. node	3757 Jun 19 10:58	14°9542'56		evening set	3758 Jun 01 05:18	24° Ⅱ 49'09	
evening set	3757 Jun 21 02:18	14°930'56		desc. node	3758 Jun 06 07:56	23° I I02'59	
inferior conj	3757 Jun 30 11:33	10°930'47	-3°06'57	inferior conj	3758 Jun 10 07:04	20° I 50'11	-1°10'21
minimum elong	3757 Jun 30 03:33	10°93047	3°04'28	minimum elong	3758 Jun 10 03:46	20° I 55'05	1°09'07
min. Earth dist.	3757 Jun 30 03:33	10°930'51	0.54860 AU	min. Earth dist.	3758 Jun 11 23:51	19° Ⅱ 49'44	0.55147 AU
	3757 Jul 09 05:42	6°936'12	0.54800 AU		3758 Jun 19 00:46	16° ∏ 32'57	0.33147 AU
morning rise				morning rise		16 П 32 37 15° П 57'58	
direct	3757 Jul 12 13:45	6°512'02	22000110	direct	3758 Jun 23 01:10		22050146
morning max el	3757 Jul 24 23:57	12° © 03'54	22°08'10	morning max el	3758 Jul 06 16:02	22° I 37'56	23°50'46
_	3757 Aug 07 03:59	$0^{\circ}\Omega$		_	3758 Jul 13 04:34	0°€	
asc. node	3757 Aug 09 06:01	3° Ω 47'32		asc. node	3758 Jul 27 03:03	23°514'41	
morning set	3757 Aug 15 09:35	16° Ω 03'40			3758 Jul 30 10:08	$0^{\circ}\Omega$	
	3757 Aug 21 23:23	0° т р		morning set	3758 Jul 30 21:10	0° Ω 58'06	
						_	
superior conj	3757 Aug 22 13:58	1° Mp 16'59	1°41'10	superior conj	3758 Aug 06 21:07	16° Ω 03'12	
minimum elong	3757 Aug 22 12:44	1° Mp 10'27	1°41'05	minimum elong	3758 Aug 06 19:05	15° Ω 52'11	1°31'37
max. Earth dist.	3757 Aug 26 01:52	8° m 33'20	1.34480 AU	max. Earth dist.	3758 Aug 09 01:55	20° Ω 46'40	1.33262 AU
evening rise	3757 Aug 30 15:23	17° m ∕39'26			3758 Aug 13 12:01	0° m)	
	3757 Sep 06 07:21	0∘ ⊽		evening rise	3758 Aug 14 08:06	1°Mp41'36	
desc. node	3757 Sep 15 10:19	15° ♀ 03'12			3758 Aug 30 04:56	0∘ ত	
	3757 Sep 26 01:55	0°M		desc. node	3758 Sep 02 07:19	4° ≙ 40'57	
evening max el	3757 Oct 04 14:48	9°M33'50	27°00'04	evening max el	3758 Sep 17 02:20	22° ♀ 51'12	27°24'53
retrograde	3757 Oct 17 20:01	16°M50'27			3758 Sep 28 22:21	0° M ₊	
evening set	3757 Oct 24 14:49	14°ML09'03		retrograde	3758 Sep 30 16:23	0°ML08'53	
min. Earth dist.	3757 Oct 28 13:18		0.65450 AU		3758 Oct 02 09:27	30°R ≏	
inferior conj	3757 Oct 30 13:04	8°M00'34		evening set	3758 Oct 07 19:22	27° £ 29'43	
minimum elong	3757 Oct 30 16:16	7°M51'27		min. Earth dist.	3758 Oct 11 12:14		0.63946 AU
asc. node	3757 Nov 05 05:13	2°M41'38	1 32 30	inferior conj	3758 Oct 11 12:14 3758 Oct 14 00:22	21° ⊆ 36'02	
morning rise	3757 Nov 05 05:13	2°M23'36		minimum elong	3758 Oct 14 00:22 3758 Oct 14 05:13	21° ⊆ 30′02 21° ⊆ 23′27	
•				•	3758 Oct 14 05:15 3758 Oct 20 16:22		2 33 20
direct	3757 Nov 08 12:39	1°M42'24		morning rise	1/18 UCL /U In://	16° ≏ 14'49	
morning max el	277731 15 00 40	50M 10125	10011122	12		1.50 0 40100	
	3757 Nov 15 00:49	5°M12'35	18°11'32	direct .	3758 Oct 23 04:33	15° ≙ 43'33	
_	3757 Dec 01 20:53	0° ₹	18°11'32	asc. node	3758 Oct 23 04:33 3758 Oct 23 02:14	15° ≏ 43'36	
morning set	3757 Dec 01 20:53 3757 Dec 03 15:33	0° ҂ 2° ҂ 754'41	18°11'32		3758 Oct 23 04:33 3758 Oct 23 02:14 3758 Oct 29 17:22	15° £ 43'36 19° £ 08'47	17°53'00
morning set desc. node	3757 Dec 01 20:53	0° ₹	18°11'32	asc. node morning max el	3758 Oct 23 04:33 3758 Oct 23 02:14 3758 Oct 29 17:22 3758 Nov 06 17:29	15° ഫ 43'36 19° ഫ 08'47 0° സ	17°53'00
•	3757 Dec 01 20:53 3757 Dec 03 15:33 3757 Dec 12 09:34	0° ҂ 2° ҂ 754'41	18°11'32	asc. node	3758 Oct 23 04:33 3758 Oct 23 02:14 3758 Oct 29 17:22 3758 Nov 06 17:29 3758 Nov 15 12:54	15° Ω 43'36 19° Ω 08'47 0° M 14° M 51'07	17°53'00
desc. node superior conj	3757 Dec 01 20:53 3757 Dec 03 15:33	0° ҂ 2° ҂ 754'41		asc. node morning max el	3758 Oct 23 04:33 3758 Oct 23 02:14 3758 Oct 29 17:22 3758 Nov 06 17:29	15° ഫ 43'36 19° ഫ 08'47 0° സ	17°53'00
desc. node	3757 Dec 01 20:53 3757 Dec 03 15:33 3757 Dec 12 09:34	0° 🗷 2° 🗷 54'41 17° 🗷 05'48	-0°40'27	asc. node morning max el	3758 Oct 23 04:33 3758 Oct 23 02:14 3758 Oct 29 17:22 3758 Nov 06 17:29 3758 Nov 15 12:54	15° Ω 43'36 19° Ω 08'47 0° M 14° M 51'07	17°53'00
desc. node superior conj	3757 Dec 01 20:53 3757 Dec 03 15:33 3757 Dec 12 09:34 3757 Dec 18 10:27	0° ₹ 2° ₹ 54'41 17° ₹ 05'48 26° ₹ 41'57	-0°40'27	asc. node morning max el	3758 Oct 23 04:33 3758 Oct 23 02:14 3758 Oct 29 17:22 3758 Nov 06 17:29 3758 Nov 15 12:54	15° Ω 43'36 19° Ω 08'47 0° M 14° M 51'07	
desc. node superior conj	3757 Dec 01 20:53 3757 Dec 03 15:33 3757 Dec 12 09:34 3757 Dec 18 10:27 3757 Dec 18 05:20	0° 전 2° 전 54'41 17° 전 05'48 26° 전 41'57 26° 전 21'46 0° 중	-0°40'27	asc. node morning max el morning set	3758 Oct 23 04:33 3758 Oct 23 02:14 3758 Oct 29 17:22 3758 Nov 06 17:29 3758 Nov 15 12:54 3758 Nov 24 11:41	15° Ω 43'36 19° Ω 08'47 0° M 14° M 51'07 0° X	0°06'50
desc. node superior conj minimum elong	3757 Dec 01 20:53 3757 Dec 03 15:33 3757 Dec 12 09:34 3757 Dec 18 10:27 3757 Dec 18 05:20 3757 Dec 20 12:42	0° 전 2° 전 54'41 17° 전 05'48 26° 전 41'57 26° 전 21'46 0° 중	-0°40'27 0°39'45	asc. node morning max el morning set superior conj	3758 Oct 23 04:33 3758 Oct 23 02:14 3758 Oct 29 17:22 3758 Nov 06 17:29 3758 Nov 15 12:54 3758 Nov 24 11:41 3758 Nov 28 06:52	15° Ω 43'36 19° Ω 08'47 0° M 14° M .51'07 0° √ 6° √ 15'04	0°06'50
desc. node superior conj minimum elong max. Earth dist.	3757 Dec 01 20:53 3757 Dec 03 15:33 3757 Dec 12 09:34 3757 Dec 18 10:27 3757 Dec 18 05:20 3757 Dec 20 12:42 3757 Dec 21 02:19	0° 조 2° 조 54'41 17° 조 05'48 26° 조 41'57 26° 조 21'46 0° 중 0° 중 53'34	-0°40'27 0°39'45	asc. node morning max el morning set superior conj minimum elong	3758 Oct 23 04:33 3758 Oct 23 02:14 3758 Oct 29 17:22 3758 Nov 06 17:29 3758 Nov 15 12:54 3758 Nov 24 11:41 3758 Nov 28 06:52 3758 Nov 28 07:38	15° № 43'36 19° № 08'47 0° № 14° № 51'07 0° ৵ 6° ৵ 15'04 6° ৵ 18'10	0°06'50
desc. node superior conj minimum elong max. Earth dist. evening rise	3757 Dec 01 20:53 3757 Dec 03 15:33 3757 Dec 12 09:34 3757 Dec 18 10:27 3757 Dec 18 05:20 3757 Dec 20 12:42 3757 Dec 21 02:19 3758 Jan 03 18:07 3758 Jan 08 18:22	0°\$\frac{1}{2}\cdot\frac{1}{	-0°40'27 0°39'45 1.45170 AU	asc. node morning max el morning set superior conj minimum elong behind sun begin	3758 Oct 23 04:33 3758 Oct 23 02:14 3758 Oct 29 17:22 3758 Nov 06 17:29 3758 Nov 15 12:54 3758 Nov 24 11:41 3758 Nov 28 06:52 3758 Nov 28 07:38 3758 Nov 27 22:32 3758 Nov 28 16:44	15° Ω 43'36 19° Ω 08'47 0° M 14° M .51'07 0° x ⁷ 6° x ⁷ 15'04 6° x ⁷ 18'10 5° x ⁷ 41'00	0°06'50
desc. node superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	3757 Dec 01 20:53 3757 Dec 03 15:33 3757 Dec 12 09:34 3757 Dec 18 10:27 3757 Dec 18 05:20 3757 Dec 20 12:42 3757 Dec 21 02:19 3758 Jan 03 18:07 3758 Jan 08 18:22 3758 Jan 15 23:36	0° 🖈 2° 🗷 54'41 17° 🗷 05'48 26° 🗷 41'57 26° 🗷 21'46 0° ට 0° ට 53'34 22° ට 12'55 0° ≈ 11° ≈05'28	-0°40'27 0°39'45 1.45170 AU -0.7m	asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node	3758 Oct 23 04:33 3758 Oct 23 02:14 3758 Oct 29 17:22 3758 Nov 06 17:29 3758 Nov 15 12:54 3758 Nov 24 11:41 3758 Nov 28 06:52 3758 Nov 28 07:38 3758 Nov 27 22:32 3758 Nov 28 16:44 3758 Nov 29 06:36	15° №43'36 19° №08'47 0° M. 14° M.51'07 0° \$\tilde{X}\$ 6° \$\tilde{X}\$15'04 6° \$\tilde{X}\$18'10 5° \$\tilde{X}\$41'00 6° \$\tilde{X}\$55'15 7° \$\tilde{X}\$51'34	0°06'50 0°06'43
desc. node superior conj minimum elong max. Earth dist. evening rise	3757 Dec 01 20:53 3757 Dec 03 15:33 3757 Dec 12 09:34 3757 Dec 18 10:27 3757 Dec 18 05:20 3757 Dec 20 12:42 3757 Dec 21 02:19 3758 Jan 03 18:07 3758 Jan 08 18:22	0°\$\frac{1}{2}\cdot\frac{1}{	-0°40'27 0°39'45 1.45170 AU -0.7m	asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end	3758 Oct 23 04:33 3758 Oct 23 02:14 3758 Oct 29 17:22 3758 Nov 06 17:29 3758 Nov 15 12:54 3758 Nov 24 11:41 3758 Nov 28 06:52 3758 Nov 28 07:38 3758 Nov 27 22:32 3758 Nov 28 16:44	15° Ω 43'36 19° Ω 08'47 0° M . 14° M .51'07 0° ₹ 6° ₹ 15'04 6° ₹ 18'10 5° ₹ 41'00 6° ₹ 55'15	0°06'50

evening rise	3758 Dec 14 05:07	1° る 23'58		desc. node	3759 Nov 16 03:39	28°M39'05	
evening rise	3759 Jan 02 10:35	0°≈		max. Earth dist.	3759 Nov 16 03:39 3759 Nov 16 11:07	29°M09'33	1.43101 AU
evening max el	3759 Jan 11 04:58	0 ~ 10° ≈ 56'55	20°30'06	max. Lartii dist.	3759 Nov 16 23:31	20° √	1.43101 AC
retrograde	3759 Jan 19 06:16	15°≈41'34	20 30 00	evening rise	3759 Nov 23 17:07	10° х 43′21	
asc. node	3759 Jan 19 01:29	15°≈41'20		evening rise	3759 Dec 06 10:56	0°る	
evening set	3759 Jan 23 03:27	14°≈14'31		evening max el	3759 Dec 25 01:55	24° る 30'03	21°41'39
inferior conj	3759 Jan 28 12:28	8°≈06'35	2°46'46	retrograde	3760 Jan 03 03:38	29° る 53'43	2157
minimum elong	3759 Jan 28 09:59	8°≈15'03	2°46'07	asc. node	3760 Jan 05 22:30	29° ට 11'39	
min. Earth dist.	3759 Jan 29 03:54	7°≈13'53	0.67429 AU	evening set	3760 Jan 07 11:11	28° る 11'19	
morning rise	3759 Feb 02 16:19	1° ≈ 52'53		inferior conj	3760 Jan 12 19:28	21° る 53'50	2°09'48
	3759 Feb 05 11:05	30°R₹		minimum elong	3760 Jan 12 17:05	22° る 02'06	2°09'01
direct	3759 Feb 08 06:54	29° る 23'17		min. Earth dist.	3760 Jan 12 22:53	21° පි 42'01	0.67887 AU
	3759 Feb 11 07:34	0° ≈		morning rise	3760 Jan 17 22:49	15° る 41'51	
morning max el	3759 Feb 19 13:39	6° ≈ 07'37	24°25'53	direct	3760 Jan 22 22:40	13° る 33'02	
desc. node	3759 Feb 25 05:47	12° ≈ 30′20		morning max el	3760 Feb 01 23:09	19° る 29'33	22°56'51
	3759 Mar 10 01:47	0°) €			3760 Feb 10 19:56	0° ≈	
morning set	3759 Mar 27 11:38	28° ∺ 01'52		desc. node	3760 Feb 12 02:50	1° ≈ 42'39	
	3759 Mar 28 14:31	0 ° $\mathbf{\Upsilon}$			3760 Mar 02 06:17	0° ∀	
max. Earth dist.	3759 Mar 31 03:36	4° Υ 33'12	1.37666 AU	morning set	3760 Mar 07 11:27	8° ∺ 29'00	
				max. Earth dist.	3760 Mar 11 22:36	16° ∺ 01'39	1.39837 AU
superior conj	3759 Apr 07 00:47	17° Y 26′04					
minimum elong	3759 Apr 07 05:17	17° Ƴ 47'44	1°29'08	superior conj	3760 Mar 19 16:20	29°) (46′32	
	3759 Apr 13 10:07	0°8		minimum elong	3760 Mar 19 20:48	0° Υ 07'01	1°51'47
evening rise	3759 Apr 15 17:20	4° 8 34'28			3760 Mar 19 19:16	0°Υ 100 0 000000	
asc. node	3759 Apr 17 00:49	7° 8 09'59		evening rise	3760 Mar 29 09:01	18° Y ′03'09	
	3759 Apr 30 20:40	0° П	10010111	asc. node	3760 Apr 02 21:50	26° Ƴ 36'08	
evening max el	3759 May 02 09:54	1° Ⅱ 37'58	19°10'11		3760 Apr 04 18:50	0°8	10020101
retrograde	3759 May 11 07:49	5° Ⅱ 58'17		evening max el	3760 Apr 14 13:23	14° 8 03'36	18°30'01
evening set	3759 May 13 08:53	5°П45'32 1°П34'29	0042122	retrograde	3760 Apr 22 03:57	17° 8 48'33	
inferior conj	3759 May 21 16:55	1° П 34 29	0°43'22 0°42'46	evening set	3760 Apr 24 11:29	17° 8 28'31	2°10'15
minimum elong desc. node	3759 May 21 18:40 3759 May 24 04:57	29° 8 52'55	0-4246	inferior conj minimum elong	3760 May 01 23:45 3760 May 02 03:27	12° 8 51'27	2°09'12
desc. node	3759 May 24 00:41	29 0 32 33		min. Earth dist.	3760 May 05 09:57	12 8 31 27	0.58196 AU
min. Earth dist.	3759 May 24 14:58	29° 8 36'27	0.56342 AU	morning rise	3760 May 09 16:16	7° 8 33'45	0.38190 AO
morning rise	3759 May 24 14:38 3759 May 30 01:18	26° 8 42'12	0.30342 AU	desc. node	3760 May 10 01:59	7° 8 22'00	
direct	3759 Jun 04 00:36	25° 8 44'42		direct	3760 May 15 14:38	6° 8 03'15	
ancer	3759 Jun 14 17:34	0°II		morning max el	3760 May 29 23:55	13° 8 43'58	26°50'22
morning max el	3759 Jun 18 06:14	3° I I02'13	25°30'05	morning man er	3760 Jun 11 22:13	0°Ⅱ	20 00 22
morning man or	3759 Jul 07 08:50	0.2 20212	20 30 00		3760 Jun 28 11:23	0.ee	
asc. node	3759 Jul 14 00:04	13°9500'08		morning set	3760 Jun 28 18:43	0° © 38'28	
morning set	3759 Jul 15 08:44	15° © 51'21		asc. node	3760 Jun 29 21:07	2° © 58'15	
	3759 Jul 21 21:03	$0^{\circ}\Omega$					
				superior conj	3760 Jul 05 19:17	15° © 53'19	0°58'42
superior conj	3759 Jul 22 07:31	0° Ω 57'22	1°17'27	minimum elong	3760 Jul 05 17:06	15° 5 641'20	0°58'19
minimum elong	3759 Jul 22 05:10	0° Ω 44'31	1°17'06	max. Earth dist.	3760 Jul 05 20:05	15° © 57'47	1.32082 AU
max. Earth dist.	3759 Jul 23 08:59	3° Ω 16′51	1.32465 AU		3760 Jul 12 06:56	0 $^{\circ}\Omega$	
evening rise	3759 Jul 29 09:15	16° Ω 07'21		evening rise	3760 Jul 12 16:09	0° Ω 48'40	
	3759 Aug 05 10:59	0° m p			3760 Jul 28 13:17	0° m)	
desc. node	3759 Aug 20 04:19	23° m 39'40		desc. node	3760 Aug 06 01:19	11° m)43'28	
	3759 Aug 25 04:06	0∘ ʊ		evening max el	3760 Aug 11 13:24	17° m/40'08	26°40'22
evening max el	3759 Aug 30 10:39	5° Ω 36'53	27°19'18	retrograde	3760 Aug 25 12:09	24° TQ 50'56	
retrograde	3759 Sep 13 06:15	12° £ 51'54		evening set	3760 Sep 01 07:28	22° m 53'10	0.60100.111
evening set	3759 Sep 20 10:26	10° £ 26'53	0.60106.433	min. Earth dist.	3760 Sep 05 03:17	20° m 16'46	0.60100 AU
min. Earth dist.	3759 Sep 24 00:55	7° Ω 36'08		inferior conj	3760 Sep 08 09:21	17° Mp 39'16	
inferior conj	3759 Sep 27 00:15	4° £ 51'44		minimum elong	3760 Sep 08 14:32	17° Mp 28'46	4°39'31
minimum elong	3759 Sep 27 06:06	4° Ω 38'13	3-310/	morning rise	3760 Sep. 18 08:37	12° M 58'35	
morning rise	3759 Oct 03 16:09 3759 Oct 04 03:29	30°RM) 20°m/40'27		direct asc. node	3760 Sep. 25, 20:10	12° Mp 37'36	
morning rise direct	3759 Oct 04 03:29 3759 Oct 06 12:31	29° mp 49'27 29° mp 24'46		asc. node morning max el	3760 Sep 25 20:19 3760 Sep 25 20:52	16° Mp 17'03 16° Mp 18'23	18°11'06
ancei	3759 Oct 06 12:31 3759 Oct 09 07:29	29°11∤24'46 0° Ω		morning max er	3760 Sep 25 20:52 3760 Oct 05 11:38	0° ⊡	10 11 00
asc. node	3759 Oct 09 07.29 3759 Oct 09 23:16	0° 亞 18'31		morning set	3760 Oct 03 11:38 3760 Oct 11 16:57	0 <u>≈</u> 11° ≏ 26'50	
morning max el	3759 Oct 13 09:07	2° £ 53'29	17°52'26	morning set	5700 000 11 10.57	11 -20 30	
morning set	3759 Oct 13 09:07 3759 Oct 29 07:20	2 = 33 29 27° ⊆ 47'27	1, 5220	superior conj	3760 Oct 21 05:27	29° ≏ 08'28	1°16'18
g set	3759 Oct 29 07:20 3759 Oct 30 12:47	0°M		minimum elong	3760 Oct 21 09:28	29° Ω 26'34	1°15'51
	3.2, 30, 30, 12.1/	~ 11 0			3760 Oct 21 16:53	0° ™	
superior conj	3759 Nov 09 05:34	17°M05'12	0°47'02	max. Earth dist.	3760 Oct 28 20:29	12°M28'36	1.41280 AU
minimum elong	3759 Nov 09 09:26	17°M21'41		desc. node	3760 Nov 02 00:40	19°M25'01	
-							

evening rise	3760 Nov 02 21:09	20° M 48'27		minimum elong	3761 Oct 04 04:08	12° £ 23'46	1°34'23
	3760 Nov 08 16:11	0° ∡ ″		max. Earth dist.	3761 Oct 11 01:57	25° ჲ 06′20	1.39217 AU
	3760 Nov 29 17:10	5°0			3761 Oct 13 21:00	0° M	
evening max el	3760 Dec 06 18:12	8° る 05'43	23°00'13	evening rise	3761 Oct 15 00:14	1°M56'52	
retrograde	3760 Dec 16 22:32	14° る 07'53		desc. node	3761 Oct 19 21:41	10°M05'55	
evening set	3760 Dec 21 18:12	12° る 09'18			3761 Nov 01 22:44	0° ∡	
asc. node	3760 Dec 22 19:33	11° る 10'49		evening max el	3761 Nov 19 07:36	21° х ⁴45′13	24°19'49
inferior conj	3760 Dec 27 03:17	5° る 46'00	1°25'36	retrograde	3761 Nov 30 13:48	28° ∡ ¹20'45	
minimum elong	3760 Dec 27 01:28	5° る 52'17	1°24'53	evening set	3761 Dec 05 22:56	26° ₰ 06'05	
min. Earth dist.	3760 Dec 26 19:34	6° る 12'36	0.67978 AU	asc. node	3761 Dec 09 16:36	21° ₹ 59'07	
	3760 Dec 31 22:06	30°₹ ⋌ 7		min. Earth dist.	3761 Dec 10 15:39	20° ∡ °43′02	0.67716 AU
morning rise	3761 Jan 01 08:37	29° ∡ 37'35		inferior conj	3761 Dec 11 10:08	19° ∡ ′40′59	0°35'17
direct	3761 Jan 05 17:59	27° ∡ *51'37		minimum elong	3761 Dec 11 09:18	19° ∡ ⁴43'48	0°34'55
	3761 Jan 11 03:13	0°ಕ		morning rise	3761 Dec 16 19:43	13° ∡ ³38'13	
morning max el	3761 Jan 14 13:04	2° る 59'20	21°31'34	direct	3761 Dec 20 15:40	12° ∡ 14′25	
desc. node	3761 Jan 28 23:53	21° る 26'43		morning max el	3761 Dec 28 10:24	16° ∡ 40′55	20°16'33
	3761 Feb 03 20:17	0° ≈			3762 Jan 07 23:35	0°る	
morning set	3761 Feb 15 06:18	17° ≈ 33'33		desc. node	3762 Jan 15 20:57	11° る 33'57	
max. Earth dist.	3761 Feb 21 22:45	28° ≈ 22'41	1.41932 AU	morning set	3762 Jan 25 04:35	25° る 45'50	
	3761 Feb 22 22:15	0° ∀			3762 Jan 27 22:02	0° ≈	
				max. Earth dist.	3762 Feb 04 07:01	11° ≈ 39'45	1.43661 AU
superior conj	3761 Mar 01 11:33	11° ∺ 07'56					
minimum elong	3761 Mar 01 13:39	11°) 17'04	2°05'34	superior conj	3762 Feb 10 05:53	21° ≈ 20'42	
evening rise	3761 Mar 12 12:00	0° Y 51'58		minimum elong	3762 Feb 10 02:45	21° ≈ 07'44	2°04'43
	3761 Mar 12 00:37	0° Υ			3762 Feb 15 10:12	0° ∀	
asc. node	3761 Mar 20 18:52	15° Ƴ 37'52		evening rise	3762 Feb 22 22:02	12° ¥ 52'45	
evening max el	3761 Mar 28 23:00	26° Y 56′28	18°09'43		3762 Mar 04 23:11	0° Υ	
	3761 Apr 02 12:28	0°8		asc. node	3762 Mar 07 15:54	4° Υ ′07'42	
retrograde	3761 Apr 04 18:08	0° 8 22'45		evening max el	3762 Mar 12 11:27	10° Y °07′57	18°08'48
evening set	3761 Apr 07 08:10	29° Y 53'28		retrograde	3762 Mar 18 22:20	13° Y 30′59	
	3761 Apr 07 00:42	30° ₹ Υ		evening set	3762 Mar 21 18:10	12° Y ′50'47	
inferior conj	3761 Apr 14 03:14	25° Y 02'24	3°04'53	inferior conj	3762 Mar 27 23:59	7° Y ′39'27	3°31'42
minimum elong	3761 Apr 14 06:15	24° Y 55′25	3°04'18	minimum elong	3762 Mar 28 01:17	7° Y 36′00	3°31'36
min. Earth dist.	3761 Apr 17 10:44	22° Y 00'33	0.60358 AU	min. Earth dist.	3762 Mar 30 19:56	4° Υ 41'48	0.62494 AU
morning rise	3761 Apr 21 02:07	19° Y 14′05		morning rise	3762 Apr 03 07:08	1° Y '37'03	
desc. node	3761 Apr 26 23:02	17° Y 10′05			3762 Apr 05 23:47	30° ₹	
direct	3761 Apr 27 16:41	17° Y 08'34		direct	3762 Apr 10 04:20	29°) €03'40	
morning max el	3761 May 11 23:42	25° Y 01'33	27°39'17	desc. node	3762 Apr 13 20:06	29°) 42′29	
	3761 May 16 13:14	0°B			3762 Apr 14 14:45	0° Υ	
	3761 Jun 05 06:41	Π $^{\circ}0$		morning max el	3762 Apr 24 05:27	7° Y ′01'44	27°50'54
morning set	3761 Jun 13 01:19	15° Ⅱ 12'59			3762 May 11 17:27	0°8	
asc. node	3761 Jun 16 18:10	23° I I03'25		morning set	3762 May 28 02:30	29° 8 28'36	
max. Earth dist.	3761 Jun 19 07:30	28° Ⅲ 37′21	1.32101 AU		3762 May 28 08:42	Π °0	
	3761 Jun 19 22:34	0		max. Earth dist.	3762 Jun 02 15:21	11° Ⅱ 02'54	1.32528 AU
				asc. node	3762 Jun 03 15:13	13° Ⅱ 11'25	
superior conj	3761 Jun 20 06:39	0° © 44'25	0°36'16			_	
minimum elong	3761 Jun 20 05:06	0°535'55	0°35'57	superior conj	3762 Jun 04 15:52	15° Ⅱ 24'59	
evening rise	3761 Jun 27 02:29	15° © 37'21		minimum elong	3762 Jun 04 15:21	15° Ⅱ 22'13	0°10'39
	3761 Jul 04 06:01	0° Ω		behind sun begin	3762 Jun 04 11:28	15° ∏ 01'08	
desc. node	3761 Jul 23 22:19	28° Ω 29'55		behind sun end	3762 Jun 04 19:15	15° ∏ 43'19	
evening max el	3761 Jul 24 08:49	28° Ω 55'18	25°30'30		3762 Jun 11 09:15	0°95	
	3761 Jul 25 12:54	0° m		evening rise	3762 Jun 11 14:17	0°\$26'48	
retrograde	3761 Aug 07 08:11	6° Mp 01'16			3762 Jun 27 23:02	0°N	
evening set	3761 Aug 13 05:46	4° Mp 40'11		evening max el	3762 Jul 05 22:25	9° Ω 31'07	23°59'29
min. Earth dist.	3761 Aug 17 20:48	2° Mp 00'43	0.58056 AU	desc. node	3762 Jul 10 19:20	13° Ω 28'40	
	3761 Aug 20 17:55	30°R€		retrograde	3762 Jul 19 16:33	16°Ω26'30	
inferior conj	3761 Aug 21 00:12	29° Ω 48'55		evening set	3762 Jul 24 04:27	15° Ω 41'49	0.5/205 : **
minimum elong	3761 Aug 21 01:57	29° Ω 45'51	5°07'24	min. Earth dist.	3762 Jul 30 08:48	12° Ω 41'48	0.56285 AU
morning rise	3761 Aug 29 00:24	25° Ω 31'09		inferior conj	3762 Aug 01 18:46	11°Ω12'56	
direct	3761 Aug 31 12:40	25° Ω 11'39	1005000	minimum elong	3762 Aug 01 14:38	11° Ω 19'19	4°58'32
morning max el	3761 Sep 09 01:20	29° £ 14′26	18°50'30	morning rise	3762 Aug 10 03:26	7° Ω 14'53	
_	3761 Sep 09 19:47	0° m)		direct	3762 Aug 12 21:16	6° Ω 55'27	
asc. node	3761 Sep 12 17:24	3° Mp 24′28		morning max el	3762 Aug 22 19:36	11° Ω 32'15	19°51'36
morning set	3761 Sep 25 13:12	25° m 36'53		asc. node	3762 Aug 30 14:28	21° Ω 25'39	
	3761 Sep 27 18:47	0∘ ⊽			3762 Sep 04 12:47	0° m/	
				morning set	3762 Sep 09 16:40	10° m 07'37	
superior conj	3761 Oct 04 01:28	12° ≙ 11'05	1°34'35				

superior conj	3762 Sep 17 12:14	25° m 57'28	1°43'15	superior conj	3763 Sep 01 09:28	10° Mp 15'11	1°43'53
minimum elong	3762 Sep 17 13:11	26° Mp 02'13	1°43'13	minimum elong	3763 Sep 01 08:54	10° m 12'18	1°43'52
	3762 Sep 19 13:23	0∘ ত		max. Earth dist.	3763 Sep 05 16:56	19° m 00'48	1.35357 AU
max. Earth dist.	3762 Sep 23 06:56	7° Ω 09'32	1.37168 AU	evening rise	3763 Sep 09 21:55	27° Mp 10'35	
evening rise	3762 Sep 27 01:44	14° £ 07'09			3763 Sep 11 10:08	0∘ ⊽	
desc. node	3762 Oct 06 09:28 3762 Oct 06 18:41	0° ጤ 0° ጤ 37'03		desc. node	3763 Sep 23 15:42 3763 Sep 29 17:29	20° £ 53'21 0° IL	
desc. node	3762 Oct 06 18:41 3762 Oct 27 18:20	0 11€3703 0° ⊼ 1		evening max el	3763 Oct 15 08:11	19°M06'16	26°34'07
evening max el	3762 Nov 01 19:50	5°×726'40	25°33'36	retrograde	3763 Oct 28 06:24	26°M20'26	20 3407
retrograde	3762 Nov 14 00:38	12° × ⁷ 26'53	20 0000	evening set	3763 Nov 03 18:34	23°M41'36	
evening set	3762 Nov 19 23:42	9° ∡ 757'58		min. Earth dist.	3763 Nov 07 20:41	19°M28'56	0.66154 AU
min. Earth dist.	3762 Nov 24 08:46	5° ₹ 09'42	0.67108 AU	inferior conj	3763 Nov 09 13:36	17°M26'20	-1°19'13
inferior conj	3762 Nov 25 14:13	3° ∡ ³35′24	-0°20'07	minimum elong	3763 Nov 09 15:47	17° M 19'49	1°18'17
minimum elong	3762 Nov 25 14:44	3° х ³33'44	0°19'52	asc. node	3763 Nov 13 10:43	13°M14'01	
asc. node	3762 Nov 26 13:40	2° ₹ 21'00		morning rise	3763 Nov 15 13:40	11°M41'59	
	3762 Nov 28 13:49	30°RM₊		direct	3763 Nov 18 12:07	10°M53'37	
morning rise	3762 Dec 01 06:07	27°M40'35		morning max el	3763 Nov 25 03:16	14°M30'55	18°30'00
direct	3762 Dec 04 14:16	26°M36'21			3763 Dec 06 11:01	0° ₹	
mamina may al	3762 Dec 11 02:10	0° ҂ 0° ҂ 32'50	19°15'24	morning set desc. node	3763 Dec 15 05:56 3763 Dec 20 14:58	13° 尽 58′06 22° 尽 32′03	
morning max el greatest brilliancy	3762 Dec 11 15:39 3762 Dec 25 08:29	0 x ·32 30 19° x ⁷ 02'36	-0.7m	desc. node	3763 Dec 25 08:15	22 x・3203	
greatest of illiancy	3762 Dec 23 08:29	0°る	-0.7111		3703 Dec 23 00.13	0 0	
desc. node	3763 Jan 02 17:58	0 3 1° る 57'16		superior conj	3763 Dec 31 01:42	9° ට 00'14	-1°07'20
morning set	3763 Jan 04 05:18	4°る14'18		minimum elong	3763 Dec 30 17:37	8° る 28'28	1°06'21
max. Earth dist.	3763 Jan 17 21:38	25° る 36'39	1.44804 AU	max. Earth dist.	3763 Dec 31 15:41	9° ප් 55'01	1.45246 AU
					3764 Jan 13 10:18	0° ≈	
superior conj	3763 Jan 20 23:02	0° ≈ 27'07	-1°45'11	evening rise	3764 Jan 16 00:16	4° ≈ 05'05	
minimum elong	3763 Jan 20 14:34	29° る 53'32	1°44'30	greatest brilliancy	3764 Jan 25 10:47	19° ≈ 00'09	-0.8m
	3763 Jan 20 16:12	0°≈			3764 Feb 01 18:31	0° ∀	
evening rise	3763 Feb 04 10:51	23°≈57'34		evening max el	3764 Feb 07 09:40	6° ¥ 59'01	19°02'25
	3763 Feb 08 02:23	0°) (55120		asc. node	3764 Feb 09 09:58	8°) 49'16	
asc. node	3763 Feb 22 12:56	21° H 55'38 23° H 30'37	1000/142	retrograde	3764 Feb 14 06:56	10°) 52'48 9°) 48'06	
evening max el	3763 Feb 23 23:48 3763 Mar 02 11:53	23° X 30'37 27° X 03'30	18°26'43	evening set	3764 Feb 17 15:05 3764 Feb 23 05:07	9° 1 748′06 4° 1 7€01′45	3°26'51
retrograde evening set	3763 Mar 05 13:29	26° X 11'31		inferior conj minimum elong	3764 Feb 23 03:07 3764 Feb 23 03:29	4° X 06'54	3°26'39
inferior conj	3763 Mar 11 09:51	20°) (41'42	3°37'15	min. Earth dist.	3764 Feb 24 18:34	2°\(\)(00'34'	0.65885 AU
minimum elong	3763 Mar 11 09:28	20°) (42'49	3°37'15	mm. Darm dige.	3764 Feb 26 11:51	30°R≈	0.000000110
min. Earth dist.	3763 Mar 13 14:44	18°) €07'39	0.64373 AU	morning rise	3764 Feb 28 15:32	27° ≈ 48'44	
morning rise	3763 Mar 17 04:45	14°) €31'54		direct	3764 Mar 06 02:43	24°≈58'41	
direct	3763 Mar 24 00:08	11°) 43′17			3764 Mar 16 05:53	0° ∀	
desc. node	3763 Mar 31 17:09	14°) 35′17		desc. node	3764 Mar 17 14:10	1°) 13′20	
morning max el	3763 Apr 06 14:47	19° ∺ 38'11	27°26'19	morning max el	3764 Mar 19 00:40	2°) 37′34	26°31'26
	3763 Apr 15 11:04	0°Υ			3764 Apr 08 16:27	0° Υ	
	3763 May 04 17:31	0° 8		morning set	3764 Apr 24 01:10	26° Y 27'55	
morning set	3763 May 11 19:39	13° 8 17'24	1 22200 ATT	E d E d	3764 Apr 25 21:39	0°8	1 24710 ATT
max. Earth dist.	3763 May 16 15:31	23° 8 02'14	1.33390 AU	max. Earth dist.	3764 Apr 28 04:34	4° O 2/54	1.34718 AU
superior conj	3763 May 19 21:03	29° 8 49'24	-0°17'00	superior conj	3764 May 02 19:52	13° 8 50'03	-0°45'57
minimum elong	3763 May 19 21:55	29° 8 54'00		minimum elong	3764 May 02 17:32 3764 May 02 22:18	14° 8 02'36	
g	3763 May 19 23:03	0°II	0 1000	asc. node	3764 May 07 09:16	23° 8 19'44	0 .52)
asc. node	3763 May 21 12:15	3° Ⅱ 18'27		evening rise	3764 May 10 10:40	29° 8 42'41	
evening rise	3763 May 27 01:41	15° Ⅱ 10'58			3764 May 10 14:01	Π $^{\circ}0$	
	3763 Jun 03 12:26	0ංම			3764 May 28 19:11	0 \circ \odot	
evening max el	3763 Jun 17 12:54	19° © 56'15	22°22'43	evening max el	3764 May 29 12:00	0° 5 42'13	20°54'15
desc. node	3763 Jun 27 16:21	26° © 04'56		retrograde	3764 Jun 10 01:57	6° © 22'07	
retrograde	3763 Jun 30 13:05	26°©23'51		evening set	3764 Jun 12 05:13	6° ॐ 11'17	
evening set	3763 Jul 03 13:41	26°503'37	0.55120 ***	desc. node	3764 Jun 13 13:23	5°954'01	2010/27
min. Earth dist.	3763 Jul 11 19:37	22°529'19		inferior conj	3764 Jun 21 13:10	2°©13'53	
inferior conj minimum elong	3763 Jul 12 19:49 3763 Jul 12 11:30	21°S55'04 22°S06'51	-4°01'44 3°59'42	minimum elong min. Earth dist.	3764 Jun 21 06:44 3764 Jun 22 07:22	2°\$23'00 1°\$48'03	0.54862 AU
morning rise	3763 Jul 12 11:30 3763 Jul 21 11:19	18°504'29	3 3944	mm. Darui uist.	3764 Jun 25 15:25	1°948°03 30°R∏	0.54004 AU
direct	3763 Jul 24 12:41	18 \$04 29 17°\$43'22		morning rise	3764 Jun 30 08:02	28° ∏ 11′28	
morning max el	3763 Aug 05 02:11	23°506'19	21°13'23	direct	3764 Jul 03 22:00	27° I I43'49	
5	3763 Aug 11 01:54	0°N			3764 Jul 11 16:56	0ಂಣ	
asc. node	3763 Aug 17 11:30	10° Ω 08'11		morning max el	3764 Jul 16 22:14	3° © 57'42	22°51'04
morning set	3763 Aug 25 00:50	24° Ω 52'17		asc. node	3764 Aug 03 08:32	29° 5 21'02	
	3763 Aug 27 11:49	0° m			3764 Aug 03 16:35	$0^{\circ}\Omega$	

morning set	2764 Aug 09 11:29	9° Ω 44'07		morning set	2765 Iul 22 22:25	24° © 38'16	
morning set	3764 Aug 08 11:38	9 6644 07		morning set	3765 Jul 23 23:25 3765 Jul 26 11:29	24 \$38 10 0°Ω	
superior conj	3764 Aug 15 13:45	24° Ω 53'00	1°37'52		3/03 Jul 20 11.29	0 06	
minimum elong	3764 Aug 15 12:06	24° Ω 44'16	1°37'45	superior conj	3765 Jul 30 22:31	9° Ω 43'00	1°26'18
minimum ciong	3764 Aug 17 23:47	0° m	1 37 43	minimum elong	3765 Jul 30 20:17	9° Ω 30'52	1°26'02
max. Earth dist.	3764 Aug 18 11:40	1° m 02'07	1.33914 AU	max. Earth dist.	3765 Aug 01 15:09	13°Ω23'19	1.32883 AU
evening rise	3764 Aug 23 08:17	10° mp 54'24	1.55)11110	evening rise	3765 Aug 07 05:00	25°Ω07'40	1.52005 110
evening rise	3764 Sep 02 18:48	0ಂ ರ		evening rise	3765 Aug 09 15:22	0° m)	
desc. node	3764 Sep 09 12:43	10° ≏ 47'26		desc. node	3765 Aug 27 09:43	0° ₽ 09'50	
	3764 Sep 24 06:56	0°M			3765 Aug 27 06:58	0∘ ত	
evening max el	3764 Sep 26 20:36	2°M35'30	27°14'02	evening max el	3765 Sep 09 07:20	15° ≏ 41'33	27°26'31
retrograde	3764 Oct 10 06:28	9°M53'38		retrograde	3765 Sep 23 00:00	22° ≏ 57'32	
evening set	3764 Oct 17 05:10	7° M .12'07		evening set	3765 Sep 30 04:27	20° ≏ 23'12	
min. Earth dist.	3764 Oct 21 01:05	3°M34'42	0.64848 AU	min. Earth dist.	3765 Oct 03 19:55	17° £ 17'39	0.63207 AU
inferior conj	3764 Oct 23 06:04	1° M 09'06	-2°20'13	inferior conj	3765 Oct 06 12:55	14° ≏ 37'05	-3°20'18
minimum elong	3764 Oct 23 10:00	0° M 58'18	2°18'42	minimum elong	3765 Oct 06 18:19	14° ≙ 23'43	3°18'34
	3764 Oct 24 07:28	30° ₹ Ω		morning rise	3765 Oct 13 09:37	9° £ 23'12	
morning rise	3764 Oct 29 15:53	25° ≏ 38'16		direct	3765 Oct 15 20:09	8° £ 55'00	
asc. node	3764 Oct 30 07:45	25° ≙ 22'21		asc. node	3765 Oct 17 04:47	9° ഫ 03'58	
direct	3764 Nov 01 07:03	25° ≏ 01'48		morning max el	3765 Oct 22 11:18	12° ≏ 20'44	17°50'27
morning max el	3764 Nov 07 18:47	28° ≏ 29'12	18°01'26		3765 Nov 03 11:07	0° M.	
	3764 Nov 09 04:31	0°M₊		morning set	3765 Nov 07 19:20	7° M 34'43	
morning set	3764 Nov 25 12:10	25°M10'22					
	3764 Nov 28 09:47	0°⊀		superior conj	3765 Nov 19 17:31	28°M01'08	0°25'07
desc. node	3764 Dec 06 12:00	13° ∡ 14'37		minimum elong	3765 Nov 19 20:01	28° ™ 11'32	0°24'45
					3765 Nov 20 22:13	0° ∡ ¹	
superior conj	3764 Dec 09 10:22	17° ∡ 756′57	-0°20'00	desc. node	3765 Nov 23 09:02	4° ₰ 01'07	
minimum elong	3764 Dec 09 07:54	17° ∡ 747'06	0°19'40	max. Earth dist.	3765 Nov 26 04:08	8° ₰ ³32'24	1.43952 AU
max. Earth dist.	3764 Dec 13 10:45	24° ҂ 19'21	1.44949 AU	evening rise	3765 Dec 05 03:14	22° ҂ 37'59	
	3764 Dec 17 01:31	0°ಕ			3765 Dec 09 22:49	0°ಕ	
evening rise	3764 Dec 25 17:50	13° る 28'26			3765 Dec 31 01:23	0° ≈	
	3765 Jan 05 13:05	0° ≈		evening max el	3766 Jan 03 15:26	4°≈02'44	20°59'26
greatest brilliancy	3765 Jan 08 17:13	4° ≈ 44'48	-0.6m	retrograde	3766 Jan 12 02:27	9° ≈ 03'09	
evening max el	3765 Jan 20 15:15	20° ≈ 30′26	19°54'11	asc. node	3766 Jan 13 04:02	8°≈56'56	
asc. node	3765 Jan 26 07:00	24°≈34'37		evening set	3766 Jan 16 03:57	7°≈29'33	
retrograde	3765 Jan 28 04:32	24°≈54'07		inferior conj	3766 Jan 21 12:26		2°32'02
evening set	3765 Jan 31 20:33	23°≈35'34	200 417	minimum elong	3766 Jan 21 09:57	1°≈25'54	2°31'18
inferior conj	3765 Feb 06 06:48	17°≈34'56	3°04'17	min. Earth dist.	3766 Jan 21 22:35	0°≈42'21	0.67674 AU
minimum elong	3765 Feb 06 04:28	17°≈42'42	3°03'47		3766 Jan 22 10:57	30°Rる	
min. Earth dist.	3765 Feb 07 05:53 3765 Feb 11 12:10	16°≈17'52	0.66984 AU	morning rise direct	3766 Jan 26 15:47 3766 Feb 01 00:14	25°る04'24 22°る43'11	
morning rise		11°≈21'09 8°≈41'31			3766 Feb 11 18:02	22 34311 29° る 07'07	23°48'07
direct morning max el	3765 Feb 17 11:04 3765 Mar 01 09:31	8 ≈4131 15°≈49'11	25°15'19	morning max el	3766 Feb 11 18.02 3766 Feb 12 14:34	29 3 0707 0° ≈	23 48 07
desc. node	3765 Mar 04 11:11	13 ≈4911 19°≈07'19	23 13 19	desc. node	3766 Feb 19 08:14	0 ∞ 7°≈55'11	
dese. node	3765 Mar 13 02:25	0° ∺		desc. node	3766 Mar 06 21:41	0° ∺	
	3765 Apr 01 14:14	0° Υ		morning set	3766 Mar 19 05:34	19°) 58'16	
morning set	3765 Apr 06 14:26	8° Υ 46'59		max. Earth dist.	3766 Mar 23 02:03	26°) (40'36	1.38585 AU
max. Earth dist.	3765 Apr 10 06:26	15° Υ 30'44	1.36492 AU	man Barm digt.	3766 Mar 24 22:42	0°Υ	1.50505110
	-r5 00.20						
superior conj	3765 Apr 16 09:32	27° Ƴ 19'28	-1°14'27	superior conj	3766 Mar 30 10:23	10° Ƴ 07'32	-1°40'04
minimum elong	3765 Apr 16 13:26	27° Ƴ 38'47		minimum elong	3766 Mar 30 15:04	10° Ƴ 29'41	1°39'31
C	3765 Apr 17 17:49	0° ႘		evening rise	3766 Apr 08 12:18	27° Ƴ 42'27	
asc. node	3765 Apr 24 06:17	13° 8 11'17			3766 Apr 09 16:33	0°8	
evening rise	3765 Apr 24 15:06	13° 8 55'45		asc. node	3766 Apr 11 03:20	2° 8 47'56	
	3765 May 03 02:04	$\Pi^{\circ}0$		evening max el	3766 Apr 24 21:30	24° 8 11'16	18°50'36
evening max el	3765 May 11 23:13	12° Ⅱ 06'59	19°42'30	retrograde	3766 May 03 04:32	28° 8 14'36	
retrograde	3765 May 21 19:11	16° Ⅲ 53'42		evening set	3766 May 05 08:19	27° 8 59'12	
evening set	3765 May 23 18:25	16° Ⅱ 43′04		inferior conj	3766 May 13 07:46	23° 8 40'10	1°24'12
desc. node	3765 May 31 10:23	13° Ⅱ 22'16		minimum elong	3766 May 13 10:44	23° 8 34'45	1°23'13
inferior conj	3765 Jun 01 13:25	12° Ⅱ 40′31	-0°19'57	min. Earth dist.	3766 May 16 12:53	21° 8 21'36	0.57072 AU
minimum elong	3765 Jun 01 12:31	12° ∏ 41′55	0°19'36	desc. node	3766 May 18 07:24	20° 8 11'47	
min. Earth dist.	3765 Jun 03 20:43	11° Ⅱ 14'38	0.55563 AU	morning rise	3766 May 21 09:58	18° 8 33'22	
morning rise	3765 Jun 10 04:15	8° Ⅱ 09'12		direct	3766 May 26 19:31	17° 8 23'01	
direct	3765 Jun 14 14:13	7° Ⅱ 25'55		morning max el	3766 Jun 10 03:34	24° 8 51'04	26°07'31
morning max el	3765 Jun 28 12:31		24°34'09		3766 Jun 14 21:35	$\Pi^{\circ}0$	
	3765 Jul 10 19:07	0 \circ			3766 Jul 03 18:52	0 \circ	
asc. node	3765 Jul 21 05:33	18° 9 56'25		morning set	3766 Jul 08 10:33	9° 9 29'50	

March Marc	morning set	3768 Jun 05 23:56	8° Ⅱ 39'56		morning max el	3769 Apr 16 09:53	29° ¥ 39'04	27044132
Part	•				morning max er	1		21 44 32
Semiprice of 1988				1 32222 AII		•		
	max. Lattii dist.	3700 Juli 11 22.33	21 11030	1.32222 AC	morning set			
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	evening rise					•		
Sees 1968 1968 1969 1972 1972 1972 1972 1973 1973 1974 1973 1974	evening max el			24°53'38	_			0 00 10
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sint Earth dist. 378 A Aug 10 17-02 (1902) 24/20/10 0 5724 AU 579 A Aug 10 15-00 (1902) ○©\$ intification conjo 3768 Aug 12 14-25 (22/20/08) 8 5/09/12 (1902) cenning max 2 1376 Aug 30 1900 (17/42/73) 3769 Aug 10 14-214-3 (1902) 1/21/614 (23/18/09) direct 3768 Aug 30 1900 (17/42/73) desc. node 3760 Jul 0 4 21-45 (67/28/73) 67/28/73 soc. node 3768 Sep 0 10 15-27 (23/23) 17/48/73 meming set 3760 Jul 1 5 0305 7/29/76 soc. node 3768 Sep 0 16-57 (23/23) 19/18/18 19/18/18 min Earth dist. 3760 Jul 1 5 0305 7/29/76 soc. node 3768 Sep 18 11-12 19/18/45 inferior conj 3769 Jul 2 40 12.1 3761 Jul 1 5 0305 7/29/76 soprior conj 3768 Sep 16 15-16 55/418/8 1/39/19 decc. node 3760 Aug 0 10 0511 3760 Aug 0 10 0510 3760 Aug 0 10 0510 <td>•</td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td>	•					•		
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greatest brilliancy 3769 Jan 03 07:31 27° x30'13 -0.6m inferior conj 3769 Nov 18 11:56 26° M.49'45 -0°44'47 desc. node 3769 Jan 04 23:49 0° 3 minimum elong 3769 Nov 18 13:08 26° M.46'02 0°44'15 desc. node 3769 Jan 19 23:23 7° 31'20 asc. node 3769 Nov 21 16:13 24° M.12'22 morning set 3769 Jan 15 21:05 16° 34'33 morning rise 3769 Nov 24 07:04 20° M.58'50 direct 3769 Nov 24 07:04 20° M.58'50 direct 3769 Nov 27 10:55 20° M.01'39 morning max. Earth dist. 3769 Jan 24 11:47 0° ≈ direct 3769 Nov 27 10:55 20° M.01'39 max. Earth dist. 3769 Jan 24 11:47 0° ≈ direct 3769 Dec 09 10:35 0° ₹ 23° M.48'32 18° 54'02 3769 Dec 09 10:35 0° ₹ 3770 Dec 09 10:35 0° ₹ 3770 Dec 09 1	direct	3768 Dec 13 12:15	5° ∡ ¹40'36			3769 Nov 15 22:01	30°RML	
Max. Earth dist. 3769 Feb 1 1 11:40 11 11:40 3769 Feb 1 1 11:40 3769 Mar 20 10:31 3769 Mar 20 10:33 3769 Mar 20 10:35 3769 Mar 20 10:49 3769 Mar 2	morning max el	3768 Dec 20 22:46	9° ∡ 753'14	19°48'32	min. Earth dist.	3769 Nov 17 01:47	28°M36'18	0.66747 AU
desc. node 3769 Jan 09 23:23 7°♂31'20 asc. node 3769 Nov 20 16:13 24°\lambda \text{L12'22} morning set 3769 Jan 15 21:05 16°\data{33'33} morning rise 3769 Nov 24 07:04 20°\lambda \text{L2'25} become a sec. node 3769 Nov 27 10:55 20°\lambda \text{L12'22} become a sec. node 3769 Nov 27 10:55 20°\lambda \text{L12'22} become a sec. node 3769 Nov 27 10:55 20°\lambda \text{L12'22} become a sec. node 3769 Nov 27 10:55 20°\lambda \text{L12'22} become a sec. node 3769 Nov 27 10:55 20°\lambda \text{L12'22} become a sec. node 3769 Dec 04 06:55 23°\lambda \text{L12'32} become a sec. node 3769 Dec 09 10:35 0°\lambda \text{L12'22} become a sec. node 3769 Dec 09 10:35 0°\lambda \text{L12'22} become a sec. node 3769 Dec 09 10:35 0°\lambda \text{L12'22} become a sec. node 3769 Pec 01 04:20 12°\sigma \text{L12'22} become a sec. node 3769 Dec 26 06:22 25°\lambda \text{L12'3'} also become a sec. node 3769 Feb 11 21:40 0°\text{L12'34} become a sec. node 3769 Dec 29 02:55 0°\data \text{L12'34} become a sec. node 3769 Mar 10 18:28 29°\text{L12'14'13} become a sec. node 3769 Mar 10 18:28 29°\text{L12'14'13} become a sec. node 3770 Jan 10 05:44 18°\data \text{L12'22} become a sec. node 3770 Jan 11 19:04 21°\data \text{L12'22} become a sec. node 3770 Jan 11 19:04 21°\data \text{L12'25'19} -1°\data \text{L13'101} become a sec. node 3769 Mar 11 14:08 6°\text{L12'32} become a sec. node 3770 Jan 11 09:51 20°\data \text{L12'30'05} become a sec. node 3770 Feb 16 15:32 16°\text{L12'30'0} become a sec. node 3770 Feb 16 15:32 16°\text{L14'08} become a sec. node 3770 Feb 16 15:32 16°\text{L14'08} become a sec. node 3770 Feb 16 15:32 16°\text{L14'08} become a sec. node 3770 Feb 16 15:32 16°\text{L14'08} become a sec. node 3770 Feb 16 15:32 16°\text{L14'08} become a sec. node 3770 Feb 16 15:32 16°\text{L14'08} become a sec. node 3770 Feb 16 15:32 16°\text{L14'08} become a sec. node 3770 Feb 16 15:32 16°\text{L14'08} become a sec. node 3770 Feb 16 15:32 16°\text{L14'08} become a sec. node 3770 Feb 16 15:32 16°\text{L14'08} become a sec. node 3770 F	greatest brilliancy	3769 Jan 03 07:31	27° ∡ ³30′13	-0.6m	inferior conj	3769 Nov 18 11:56	26°M49'45	-0°44'47
morning set 3769 Jan 15 21:05 16° ₹34'33		3769 Jan 04 23:49	ರ∘ರ		minimum elong	3769 Nov 18 13:08	26°M46'02	0°44'15
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max. Earth dist. 3769 Jan 27 12:53 4°≈49'19 1.44226 AU morning max el 3769 Dec 04 06:55 23°IL48'32 18°54'02 3769 Dec 09 10:35 0°₺ 3769 Dec 09 10:35 3769 Dec 09	morning set	3769 Jan 15 21:05	16° පි 34'33		morning rise	3769 Nov 24 07:04	20°M58'50	
superior conj 3769 Feb 01 10:05 12°≈39'26 -1°58'56 morning set 3769 Dec 09 10:35 0°₹ 37128 minimum elong 3769 Feb 01 04:20 12°≈16'12 1°58'38 desc. node 3769 Dec 27 20:23 28°₹00'25 0°€ evening rise 3769 Feb 11 21:40 0°₩ 3769 Feb 12 21:40 0°₩ 3769 Dec 29 02:55 0°€ max. Earth dist. 3770 Jan 10 05:44 18°₹59'28 1.45090 AU asc. node 3769 Mar 01 18:28 29°₩07'14 superior conj 3770 Jan 11 19:04 21°₹56'19 -1°31'01 evening max el 3769 Mar 02 10:33 0°Ψ superior conj 3770 Jan 11 19:04 21°₹56'19 -1°31'01 evening set 3769 Mar 11 14:08 6°Ψ33'20 superior conj 3770 Jan 11 09:51 20°₹50'03 1°30'05 retrograde 3769 Mar 11 14:08 6°Ψ33'20 superior conj 3770 Jan 17 05:00 0°≈ evening set 3769 Mar 20 13:49 0°Ψ29'04 3°36'16 superior conj 3770 Feb 04 19:46 0°₩ minimum elong 3769 Mar 20 14:22 0°Ψ27'32 3°36'15 evening max el 3770 Feb 16 15:32 16°₩34'00 18°39'48 minimum elong 3769 Mar 20 0:19 30°R₩ asc. node 3770 Feb 23 06:24 20°₩14'08 morning rise 3769 Mar 26 15:18 24°₩23'06 evening set 3770 Feb 26 10:46 19°₩16'39 direct 3769 Apr 02 12:53 21°₩41'13 sinferior conj 3770 Mar 04 04:05 13°₩39'30 3°34'30		3769 Jan 24 11:47	0° ≈		direct	3769 Nov 27 10:55	20°ML01'39	
superior conj 3769 Feb 01 10:05 12°≈39'26 -1°58'56 morning set 3769 Dec 26 06:22 25° ₹31'28 desc. node 3769 Dec 27 20:23 28° ₹00'25 28° ₹00'25 40° ₹ 3769 Dec 29 02:55 0°₹ 3769 Dec 29 02:55 0°₹ 40° ₹ <td>max. Earth dist.</td> <td>3769 Jan 27 12:53</td> <td>4°≈49'19</td> <td>1.44226 AU</td> <td>morning max el</td> <td>3769 Dec 04 06:55</td> <td>23°M48'32</td> <td>18°54'02</td>	max. Earth dist.	3769 Jan 27 12:53	4° ≈ 49'19	1.44226 AU	morning max el	3769 Dec 04 06:55	23°M48'32	18°54'02
minimum elong 3769 Feb 01 04:20 12°≈16'12 1°58'38 desc. node 3769 Dec 27 20:23 28° ₹00'25 0° ₹ evening rise 3769 Feb 11 21:40 0° ₹ max. Earth dist. 3770 Jan 10 05:44 18° ₹59'28 1.45090 AU asc. node 3769 Mar 01 18:28 29° ₹07'14 3769 Mar 02 10:33 0° ♀ superior conj 3770 Jan 11 19:04 21° ₹26'19 -1°31'01 evening max el 3769 Mar 05 03:54 3° ♀07'55 18° 14'15 minimum elong 3770 Jan 11 19:04 21° ₹26'19 -1°31'01 evening set 3769 Mar 11 14:08 6° ♀33'20 evening set 3769 Mar 14 12:26 5° ♀48'12 evening rise 3770 Jan 17 05:00 0° ≈ inferior conj 3769 Mar 20 13:49 0° ♀29'04 3° 36'16 270 ₹26'19 10:19 30° ₹26'19 10:19 30° ₹ ₹26'19 10:19 30° ₹26'19 10:					-	3769 Dec 09 10:35	0° ∡ ¹	
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uesc. node 3/09 Apr 0/ 22:34 25 π00 15 minimum elong 3//0 Mar 04 03:06 15 π42/2/ 3°34/26		-			3			
	uesc. node	3/09 Apr 0/ 22:34	23° 大 06'13		minimum elong	3//U IVIAT U4 U3:U6	13 ⁻ 大42'2/	3 34 20

i matri	2770) (00 02 10	1101/10152	0.65074.411	· P d F ·	2771 5 1 17 00 20	250 - 25106	0.66406.444
min. Earth dist.	3770 Mar 06 02:16		0.65074 AU	min. Earth dist.	3771 Feb 17 09:30	25°≈25'06	0.66406 AU
morning rise	3770 Mar 09 18:58	7°) €28'12		morning rise	3771 Feb 21 10:19	20°≈52'18	
direct	3770 Mar 16 11:34	4°) €37'33		direct	3771 Feb 27 16:32	18° ≈ 05'49	
desc. node	3770 Mar 25 19:36	8°) 47′57		morning max el	3771 Mar 12 05:24	25° ≈ 33'04	26°01'06
morning max el	3770 Mar 29 19:37	12° ∺ 26′20	27°06'07	desc. node	3771 Mar 12 16:37	26° ≈ 01'41	
	3770 Apr 12 21:19	0° Υ			3771 Mar 16 07:10	0° ∀	
	3770 May 01 02:42	$0^{\circ}S$			3771 Apr 06 09:40	0° Υ	
morning set	3770 May 04 10:36	6° 8 18'02		morning set	3771 Apr 17 09:53	19° Y 08'52	
max. Earth dist.	3770 May 08 23:10	15° 8 16'27	1.33906 AU	max. Earth dist.	3771 Apr 21 07:37	26° Ƴ 32'03	1.35425 AU
					3771 Apr 23 02:17	$8^{\circ 0}$	
superior conj	3770 May 12 18:41	23° 8 09'45					
minimum elong	3770 May 12 20:12	23° 8 17'44	0°28'55	superior conj	3771 Apr 26 14:01	6° 8 58'22	-0°58'14
asc. node	3770 May 15 14:45	29° 8 09'31		minimum elong	3771 Apr 26 17:06	7° 8 14'04	0°57'39
	3770 May 16 00:16	Π $^{\circ}0$		asc. node	3771 May 02 11:48	19° 8 07'36	
evening rise	3770 May 20 03:06	8° Ⅱ 42'56		evening rise	3771 May 04 10:30	23° 8 08'12	
	3770 May 31 09:45	0 \circ \odot			3771 May 07 20:12	Π $^{\circ}0$	
evening max el	3770 Jun 09 11:59	11° © 46'22	21°43'19	evening max el	3771 May 22 16:01	22° Ⅱ 47'49	20°21'22
retrograde	3770 Jun 21 22:52	17° © 55'08		retrograde	3771 Jun 02 12:26	28° Ⅲ 05′24	
desc. node	3770 Jun 21 18:47	17° 9 55'04		evening set	3771 Jun 04 12:12	27° Ⅲ 55'27	
evening set	3770 Jun 24 12:24	17° 5 340'18		desc. node	3771 Jun 08 15:49	26° Ⅲ 37'44	
inferior conj	3770 Jul 03 21:21	13° © 38'19	-3°22'37	inferior conj	3771 Jun 13 15:58	23° Ⅲ 57'17	-1°28'42
minimum elong	3770 Jul 03 13:04	13° © 49'55	3°20'09	minimum elong	3771 Jun 13 11:48	24° Ⅱ 03'24	1°27'10
min. Earth dist.	3770 Jul 03 14:51	13° © 47'25	0.54899 AU	min. Earth dist.	3771 Jun 15 03:08	23° Ⅱ 05'50	0.55040 AU
morning rise	3770 Jul 12 14:59	9° © 45'36		morning rise	3771 Jun 22 10:14	19° ∏ 44'20	
direct	3770 Jul 15 21:09	9° © 22'23		direct	3771 Jun 26 07:33	19° Ⅱ 11'40	
morning max el	3770 Jul 28 02:10	15°506'30	21°53'38	morning max el	3771 Jul 09 19:14	25° Ⅱ 45'14	23°35'15
morning man or	3770 Aug 08 10:12	0°N	21 0000	monning man er	3771 Jul 13 19:28	0°9	20 00 10
asc. node	3770 Aug 11 14:00	5° Ω 34'35		asc. node	3771 Jul 29 11:02	24°958'24	
morning set	3770 Aug 18 02:27	18° Ω 30'40		use. Houe	3771 Jul 31 22:40	0°Ω	
morning sec	3770 Aug 23 12:55	0° m)		morning set	3771 Aug 02 13:54	3° Ω 24'50	
	3770 Aug 23 12.33	V Vy		morning sec	3771 Aug 02 13.54	3 0 6 2 4 3 0	
superior conj	3770 Aug 25 07:47	3° Mp 45'57	1°42'04	superior conj	3771 Aug 09 14:18	18° Ω 30'34	1°33'35
minimum elong	3770 Aug 25 06:43	3° mp 40'18	1°42'02	minimum elong	3771 Aug 09 12:21	18° Ω 20'04	1°33'25
max. Earth dist.	3770 Aug 29 00:46	11° m) 26'03	1.34691 AU	max. Earth dist.	3771 Aug 11 23:25	23° Ω 35'58	1.33417 AU
evening rise	3770 Sep 02 11:51	20° m 16'24	1.5 10) 1 110	max. Earth dist.	3771 Aug 15 00:56	0° m	1.55 117 110
evening rise	3770 Sep 02 11:31 3770 Sep 07 17:23	0° <u>م</u>		evening rise	3771 Aug 17 03:04	4° Mp 14'16	
desc. node	3770 Sep 07 17:25 3770 Sep 17 18:05	16° ≏ 43'36		evening rise	3771 Aug 31 10:43	0° ⊡	
dese. Hode	3770 Sep 27 00:17	0°M		desc. node	3771 Sep 04 15:07	6° £ 26'02	
evening max el	3770 Sep 27 00:17 3770 Oct 07 14:33	12°M 13'05	26°54'05	evening max el	3771 Sep 04 13:07 3771 Sep 20 02:17	25° Ω 33'29	27°22'58
retrograde	3770 Oct 07 14:33	19°M29'19	20 34 03	evening max er	3771 Sep 25 13:34	0° ™	27 22 30
evening set	3770 Oct 20 18:02 3770 Oct 27 11:16	16°M48'15		retrograde	3771 Oct 03 15:27	2°M51'43	
min. Earth dist.	3770 Oct 27 11:10 3770 Oct 31 10:39	12°M50'59	0.65643 AU	evening set	3771 Oct 03 13:27 3771 Oct 10 17:30	0°M11'28	
inferior conj	3770 Oct 31 10.39 3770 Nov 02 08:40	12 1163039 10°M37'55		evening set	3771 Oct 10 17:30 3771 Oct 10 23:30	0 IIC11 28 30°RΩ	
minimum elong	3770 Nov 02 08:40 3770 Nov 02 11:35	10°M29'27		min. Earth dist.	3771 Oct 10 23:30 3771 Oct 14 11:02	30 K== 26° £ 48'38	0.64190 AU
asc. node	3770 Nov 02 11:33 3770 Nov 07 13:14	5°M33'36	1 43 40	inferior conj	3771 Oct 14 11:02 3771 Oct 16 21:22	20 = 48 38 24° £ 15'10	
		4°M59'04		3		24° ⊆ 1310 24° ⊆ 02'59	
morning rise	3770 Nov 08 12:42			minimum elong	3771 Oct 17 02:00		2-44-22
direct	3770 Nov 11 07:51 3770 Nov 17 20:34	4°M16'07 7°M47'45	18°15'50	morning rise asc. node	3771 Oct 23 11:45 3771 Oct 25 10:16	18° £ 51'27	
morning max el			18 13 30			18° £ 20'49	
. ,	3770 Dec 03 04:38	0° ⊀ ⁷		direct	3771 Oct 26 00:35	18° £ 19'00	17054127
morning set	3770 Dec 06 19:50	5° 🖈 54'29		morning max el	3771 Nov 01 12:56	21° Ω 44'35	17°54'37
desc. node	3770 Dec 14 17:23	18° ∡ ³39'09			3771 Nov 07 21:38	0°M 170 m 2012 €	
	2550 5 21 21 20		00.45144	morning set	3771 Nov 18 13:24	17°M39'36	
superior conj	3770 Dec 21 21:39	0° る 02'19			3771 Nov 25 21:00	0° ∡ 7	
minimum elong	3770 Dec 21 15:38	29° ∡ 38'38	0°46'53			.	
	3770 Dec 21 21:04	0°る		superior conj	3771 Dec 01 14:37	9° ∡ ¹24'47 −	
max. Earth dist.	3770 Dec 24 01:11	3° る 24'56	1.45215 AU	minimum elong	3771 Dec 01 14:36	9° ∡ ¹24'42 −	0°00'03
evening rise	3771 Jan 07 03:56	25° る 29'06		behind sun begin	3771 Dec 01 04:56	8° ₹ 45'32	
	3771 Jan 10 01:20	0° ≈		behind sun end	3771 Dec 02 00:15	10° ₹ 03'49	
greatest brilliancy	3771 Jan 18 16:52	13° ≈ 23'51	-0.7m	desc. node	3771 Dec 01 14:25	9° ∡ ²24'01	
	3771 Jan 30 22:11	0° ∀		max. Earth dist.	3771 Dec 06 19:39	17° ∡ 45′52	1.44603 AU
evening max el	3771 Jan 30 23:43	0°) €03'58	19°22'30		3771 Dec 14 15:06	0°る	
asc. node	3771 Feb 03 12:31	3°) €00'34		evening rise	3771 Dec 17 16:08	4° ਰ 41'48	
retrograde	3771 Feb 07 02:58	4°) €09'31			3772 Jan 03 12:48	0° ≈	
evening set	3771 Feb 10 14:19	2° ¥ 58'56		evening max el	3772 Jan 14 02:59	13° ≈ 35'33	20°20'25
	3771 Feb 13 18:36	30° R ≈		asc. node	3772 Jan 21 09:33	18° ≈ 12′28	
inferior conj	3771 Feb 16 02:26	27° ≈ 05'55	3°18'36	retrograde	3772 Jan 22 01:05	18° ≈ 14'45	
minimum elong	3771 Feb 16 00:27	27° ≈ 12'22	3°18'16	evening set	3772 Jan 25 20:51	16° ≈ 50′00	

minimum elong	3773 Dec 29 18:43	8° 궁 28'29	1°31'58	evening set	3774 Dec 08 16:57	28° ∡ ¹41'37	
min. Earth dist.	3773 Dec 29 14:33	8° ਰ 42'56	0.67989 AU	asc. node	3774 Dec 12 00:39	25° ₹ '05'55	
morning rise	3774 Jan 04 01:33	2°る12'52	0.07707110	min. Earth dist.	3774 Dec 13 10:49	23°× 13'33	0.67780 AU
direct	3774 Jan 08 13:02	0°る23'30		inferior conj	3774 Dec 14 03:45	22°×16'23	0°43'14
morning max el	3774 Jan 17 12:12	5° ਰ 37'53	21°43'47	minimum elong	3774 Dec 14 02:45	22° х 19'49	0°42'49
desc. node	3774 Jan 31 07:44	23° る 07'23		morning rise	3774 Dec 19 12:35	16° х 12'45	
	3774 Feb 05 01:46	0° ≈		direct	3774 Dec 23 10:23	14° ∡ °45'53	
morning set	3774 Feb 18 17:35	20° ≈ 57'01		morning max el	3774 Dec 31 08:23	19° √ 17'52	20°26'51
Č	3774 Feb 24 07:21	0° ∀		C	3775 Jan 09 01:36	0° ට	
max. Earth dist.	3774 Feb 25 00:04	1° ₩ 09'16	1.41640 AU	desc. node	3775 Jan 18 04:45	13° る 11'21	
				morning set	3775 Jan 28 17:39	29° る 13'09	
superior conj	3774 Mar 04 15:26	14° ℋ 10'44	-2°04'22	•	3775 Jan 29 05:44	0°≈	
minimum elong	3774 Mar 04 18:05	14°) 22'21	2°04'17	max. Earth dist.	3775 Feb 07 07:05	14° ≈ 18′23	1.43434 AU
	3774 Mar 13 10:40	$0^{\circ}\mathbf{\Upsilon}$					
evening rise	3774 Mar 15 10:37	3° Ƴ 40′20		superior conj	3775 Feb 13 13:34	24° ≈ 33'32	-2°06'05
asc. node	3774 Mar 23 02:57	17° Ƴ 28'50		minimum elong	3775 Feb 13 11:20	24° ≈ 24'17	2°06'01
evening max el	3774 Mar 31 19:25	29° Ƴ 39'51	18°11'27		3775 Feb 16 19:30	0° ∀	
	3774 Apr 01 03:49	0°8		evening rise	3775 Feb 25 23:25	15°) 48′42	
retrograde	3774 Apr 07 16:42	3° 8 08'01			3775 Mar 06 04:14	$0^{\circ}\Upsilon$	
evening set	3774 Apr 10 05:48	2° 8 40'16		asc. node	3775 Mar 09 23:58	6° Ƴ 04'08	
	3774 Apr 14 15:56	30° ŖƳ		evening max el	3775 Mar 15 07:34	12° Ƴ 48'58	18°07'45
inferior conj	3774 Apr 17 03:10	27° Y 52'08	2°58'29	retrograde	3775 Mar 21 19:08	16° Ƴ 11'47	
minimum elong	3774 Apr 17 06:23	27° Ƴ 44'50	2°57'51	evening set	3775 Mar 24 14:04	15° Y 33'20	
min. Earth dist.	3774 Apr 20 11:43	24° Ƴ 51'47	0.60030 AU	inferior conj	3775 Mar 30 21:36		3°29'07
morning rise	3774 Apr 24 04:37	22° Y 06'35		minimum elong	3775 Mar 30 23:11	10° Y 20′50	3°28'58
desc. node	3774 Apr 29 06:56	20° Ƴ 11'55		min. Earth dist.	3775 Apr 02 19:37	7° Y 25'09	0.62182 AU
direct	3774 Apr 30 17:14	20° Y 06′12		morning rise	3775 Apr 06 06:52	4° Y 23'58	
morning max el	3774 May 15 00:58	27° Y 57'42	27°34'25	direct	3775 Apr 13 03:35	1° Y 54'01	
	3774 May 17 00:20	0°8		desc. node	3775 Apr 16 03:58	2° Y 20'23	
	3774 Jun 06 15:45	Π $^{\circ}0$		morning max el	3775 Apr 27 06:03		27°51'39
morning set	3774 Jun 15 19:11	17° Ⅱ 43'55			3775 May 12 21:37	0°B	
asc. node	3774 Jun 19 02:13	24° Ⅱ 42'34			3775 May 29 20:56	0°II	
	3774 Jun 21 12:35	0°©		morning set	3775 May 30 21:18	2° Ⅱ 03'03	
max. Earth dist.	3774 Jun 22 04:08	1° © 25'21	1.32069 AU	max. Earth dist.	3775 Jun 05 12:44	13° II 53'55	1.32432 AU
	2774 1 22 22 25	20512120	0020155	asc. node	3775 Jun 05 23:15	14° Ⅱ 50′39	
superior conj	3774 Jun 22 23:35	3°512'20	0°39'55		2775 1 07 00 12	170T c 4150	001.4140
minimum elong	3774 Jun 22 21:55	3°503'09	0°39'34	superior conj	3775 Jun 07 09:13	17° Ⅱ 54'59	0°14'49
evening rise	3774 Jun 29 19:21	18°905'03		minimum elong	3775 Jun 07 08:32	17° Ⅱ 51'13	0°14'40
	3774 Jul 05 15:59	0° Ω		behind sun begin	3775 Jun 07 06:31	17° Ⅱ 40'17	
desc. node	3774 Jul 25 12:42 3774 Jul 26 06:12	0° Т р 0° Тр 45'24		behind sun end	3775 Jun 07 10:32 3775 Jun 12 22:22	18°Ⅲ02'10 0°©	
evening max el	3774 Jul 27 11:43	1°Mp58'11	25°42'36	evening rise	3775 Jun 14 07:01	0 3 2° 9 54'51	
retrograde	3774 Aug 10 11:04	9° Mp 05'07	23 42 30	evening rise	3775 Jun 28 22:13	2 3 34 31	
evening set	3774 Aug 10 11:04 3774 Aug 16 12:54	7° Mp 38'05		evening max el	3775 Jul	12° Ω 38'19	24013152
min. Earth dist.	3774 Aug 10 12:34 3774 Aug 20 23:48	5° Mp 00'29	0.58352 AU	desc. node	3775 Jul 13 03:13	12 0 €3619	24 13 32
inferior conj	3774 Aug 20 23:40	2° m 43'31		retrograde	3775 Jul 22 21:30	19° Ω 36'34	
minimum elong	3774 Aug 24 07:02	2° m 39'06		evening set	3775 Jul 27 14:49	18° Ω 46'56	
minimum ciong	3774 Aug 28 07:29	2 m/3>00 30°RΩ	3 03 10	min. Earth dist.	3775 Aug 02 12:25		0.56516 AU
morning rise	3774 Sep 01 03:25	28° Ω 22'35		inferior conj	3775 Aug 02 12:23 3775 Aug 05 02:07	13° Ω 30'35	
direct	3774 Sep 01 05:23	28° Ω 02'57		minimum elong	3775 Aug 04 22:55	14° Ω 19'37	
	3774 Sep 09 13:03	0° m		morning rise	3775 Aug 13 09:38	10° Ω 14'12	
morning max el	3774 Sep 11 23:24	2° m/01'30	18°43'15	direct	3775 Aug 16 02:24	9° £ 54'57	
asc. node	3774 Sep 15 01:25	5° m/27'20		morning max el	3775 Aug 25 19:21	14° Ω 25'55	19°41'06
morning set	3774 Sep 28 07:46	28° m 09'14		asc. node	3775 Sep 01 22:28	23° Ω 21'19	
	3774 Sep 29 06:28	0∘ <u>⊽</u>			3775 Sep 05 21:21	0° m/y	
	1			morning set	3775 Sep 12 10:19	12° m/37'27	
superior conj	3774 Oct 06 23:07	14° ≙ 51'46	1°32'27	Č	•		
minimum elong	3774 Oct 07 02:02	15° ≏ 05'31	1°32'12	superior conj	3775 Sep 20 08:00	28° m 32'50	1°42'28
max. Earth dist.	3774 Oct 14 03:09	27° ≏ 57'08	1.39532 AU	minimum elong	3775 Sep 20 09:12	28° m 38'49	1°42'25
	3774 Oct 15 07:12	0°M₊		S	3775 Sep 21 01:41	0∘ ⊽	
evening rise	3774 Oct 18 03:32	4°M53'25		max. Earth dist.	3775 Sep 26 07:40	10° ჲ 03'40	1.37465 AU
desc. node	3774 Oct 22 05:29	11°ML40'00		evening rise	3775 Sep 30 01:54	16° ≏ 55'17	
	3774 Nov 03 03:19	0°⊀			3775 Oct 07 17:39	0° M	
evening max el	3774 Nov 22 07:21	24° ∡ ¹22'55	24°08'05	desc. node	3775 Oct 09 02:31	2°M13'07	
	3774 Nov 29 16:37	0°రె			3775 Oct 28 13:35	0° ⊼ °	
retrograde	3774 Dec 03 09:51	0° ප 54'05		evening max el	3775 Nov 04 19:34	8° ₰ 04'07	25°23'13
	3774 Dec 06 19:57	30°R ✓		retrograde	3775 Nov 16 21:27	15° ∡ 01'42	

ovening get	2775 Nov. 22, 19:24	120.724142			2776 San 11 21:24	0° ⊽	
evening set min. Earth dist.	3775 Nov 22 18:24 3775 Nov 27 04:34	12° 尽 34'42 7° 尽 41'05	0.67222 AU	desc. node	3776 Sep 11 21:24	22° £ 32'06	
inferior conj	3775 Nov 28 08:22	6° √ 11'18		desc. node	3776 Sep 24 23:32 3776 Sep 29 21:18	0°M	
minimum elong	3775 Nov 28 08:39	6° ₹ 10′22		evening max el	3776 Sep 29 21.18 3776 Oct 17 07:58	21°M44'52	26026116
transit middle	3775 Nov 28 08:39	6° ₹ 10′22	0°11'18	retrograde	3776 Oct 17 07:38 3776 Oct 30 04:03	28°M57'36	20 20 10
transit begin	3775 Nov 28 06:39	6° ₹ 16'50	0 11 16	evening set	3776 Nov 05 14:17	26°M20'04	
transit end	3775 Nov 28 00:39	6° ₹ 10 30		min. Earth dist.	3776 Nov 09 17:27	20°M01'55	0.66317 AU
asc. node	3775 Nov 28 10:37	5°×728'25		inferior conj	3776 Nov 11 08:35	20°M03'19	
morning rise	3775 Dec 03 23:11	0° ₹ 15'04		minimum elong	3776 Nov 11 10:29	19°M57'32	1°09'14
morning rise	3775 Dec 04 08:58	30°RM		asc. node	3776 Nov 14 18:43	16°M13'36	1 07 14
direct	3775 Dec 07 08:55	29°M08'13		morning rise	3776 Nov 17 07:18	14°ML17'07	
ancer	3775 Dec 10 12:14	0°×7		direct	3776 Nov 20 07:04	13°M26'36	
morning max el	3775 Dec 14 12:30	3° ₹ ′08'38	19°23'27	morning max el	3776 Nov 26 23:17	17° M 06'11	18°35'40
greatest brilliancy	3775 Dec 27 20:29	20° ₹ 58'49	-0.7m	morning man er	3776 Dec 06 15:58	0° ⊼ ¹	10 32 10
greatest stimume)	3776 Jan 02 18:33	0°ਰ	0.7111	morning set	3776 Dec 17 12:42	17° ₹ 05'32	
desc. node	3776 Jan 05 01:46	3° る 32'40		desc. node	3776 Dec 21 22:47	24°×706'10	
morning set	3776 Jan 07 16:19	7° る 34'27			3776 Dec 25 16:24	0°ප	
max. Earth dist.	3776 Jan 20 20:34	28° る 09'26	1.44673 AU		2770 200 20 10.21	• •	
man. Darun dist.	3776 Jan 22 00:31	0°≈	1075110	superior conj	3777 Jan 02 13:49	12° る 24'03	-1°13'56
	5770 tun 22 00.51	0.0		minimum elong	3777 Jan 02 05:12	11° る 50'15	
superior conj	3776 Jan 24 10:06	3° ≈ 48'54	-1°49'26	max. Earth dist.	3777 Jan 02 14:17	12° る 25'51	1.45229 AU
minimum elong	3776 Jan 24 02:12	3°≈17'24			3777 Jan 13 18:09	0°≈	
evening rise	3776 Feb 07 15:36	27°≈02'14	1 1001	evening rise	3777 Jan 18 08:27	7°≈17'54	
	3776 Feb 09 10:14	0° ∀		greatest brilliancy	3777 Jan 26 22:59	20°≈59'35	-0.8m
asc. node	3776 Feb 24 21:00	23°) 59'23		8	3777 Feb 01 19:35	0°) €	******
evening max el	3776 Feb 26 20:06	26°) 10'39	18°22'57	evening max el	3777 Feb 09 06:31	9°) (38'41	18°56'04
retrograde	3776 Mar 04 07:31	29°) (41'20		asc. node	3777 Feb 10 18:01	11°) (02'10	
evening set	3776 Mar 07 08:12	28°) 51'13		retrograde	3777 Feb 16 01:52	13° ¥ 28′30	
inferior conj	3776 Mar 13 05:45	23°) (24'12	3°37'31	evening set	3777 Feb 19 09:01	12°) 25'43	
minimum elong	3776 Mar 13 05:36	23°) 24'37	3°37'31	inferior conj	3777 Feb 24 23:49	6°) 41'49	3°29'16
min. Earth dist.	3776 Mar 15 13:01	20°) (45'31	0.64112 AU	minimum elong	3777 Feb 24 22:21	6°) 46′25	3°29'06
morning rise	3776 Mar 19 02:14	17°) 15'10		min. Earth dist.	3777 Feb 26 15:33	4°) (37'39	0.65688 AU
direct	3776 Mar 25 22:23	14°)(27'44		morning rise	3777 Mar 02 11:17	0°) 29′12	
desc. node	3776 Apr 02 00:58	16°) 54′24		3	3777 Mar 03 01:08	30°R≈	
morning max el	3776 Apr 08 14:57	22°) 24'08	27°32'05	direct	3777 Mar 09 00:05	27°≈38'30	
	3776 Apr 15 07:32	$_{0}$ ° γ			3777 Mar 15 16:56	0°) €	
	3776 May 05 02:41	0°8		desc. node	3777 Mar 19 22:00	3°) 18′31	
morning set	3776 May 13 15:48	15° 8 56'33		morning max el	3777 Mar 22 00:47	5° ¥ 20′25	26°41'10
max. Earth dist.	3776 May 18 14:08		1.33231 AU		3777 Apr 09 21:57	$_{0}^{\circ}\Upsilon$	
	3776 May 20 12:19	0°П		morning set	3777 Apr 26 23:16	29° Ƴ 13'17	
				3	3777 Apr 27 09:05	0°8	
superior conj	3776 May 21 15:07	2° ∏ 22'22	-0°12'42	max. Earth dist.	3777 May 01 04:53	7° 8 27'28	1.34492 AU
minimum elong	3776 May 21 15:45	2° I 125'46					
behind sun begin	3776 May 21 12:23	2° I 107'50		superior conj	3777 May 05 15:02	16° 8 26'58	-0°41'34
behind sun end	3776 May 21 19:07	2° Ⅱ 43'44		minimum elong	3777 May 05 17:13	16° 8 38'20	0°41'07
asc. node	3776 May 22 20:17	4° ∏ 58′20		asc. node	3777 May 09 17:19	25° 8 00'50	
evening rise	3776 May 28 18:34	17° Ⅱ 40′10			3777 May 12 02:18	0°Ⅲ	
· ·	3776 Jun 03 21:05	0°ಲ		evening rise	3777 May 13 04:01	2° Ⅱ 14′03	
evening max el	3776 Jun 19 15:34	23°902'51	22°36'54	Č	3777 May 29 04:01	0ಂತಾ	
desc. node	3776 Jun 29 00:13	29° © 02'31		evening max el	3777 Jun 01 13:04	3° 5 44'15	21°06'30
retrograde	3776 Jul 02 19:35	29° © 35'49		retrograde	3777 Jun 13 08:42	9° 5 31'43	
evening set	3776 Jul 06 00:47	29° © 13'04		evening set	3777 Jun 15 14:05	9° 5 20'10	
min. Earth dist.	3776 Jul 13 23:20	25°5944'37	0.55251 AU	desc. node	3777 Jun 15 21:14	9° © 16'56	
inferior conj	3776 Jul 15 05:15	25° © 01'55	-4°13'44	inferior conj	3777 Jun 24 22:50	5° © 22'14	-2°36'55
minimum elong	3776 Jul 14 21:14	25° © 13'23	4°11'55	minimum elong	3777 Jun 24 15:45	5° © 32'13	2°34'31
morning rise	3776 Jul 23 19:50	21°5911'06		min. Earth dist.	3777 Jun 25 10:45	5° © 05'28	0.54842 AU
direct	3776 Jul 26 19:51	20°950'24		morning rise	3777 Jul 03 17:34	1° © 22'56	
morning max el	3776 Aug 07 03:36	26°506'14	21°00'00	direct	3777 Jul 07 05:24	0° © 56'36	
-	3776 Aug 10 19:06	$0^{\circ}\Omega$		morning max el	3777 Jul 20 00:54	7° © 02'56	22°35'54
asc. node	3776 Aug 18 19:30	11° Ω 58′06		-	3777 Aug 05 02:23	$0^{\circ}\Omega$	
morning set	3776 Aug 26 17:54	27° Ω 20′07		asc. node	3777 Aug 05 16:33	1° Ω 07'07	
-	3776 Aug 28 00:44	0° m		morning set	3777 Aug 11 04:27	12° Ω 11'24	
	-	-		-	-		
superior conj	3776 Sep 03 03:52	12°M/46'16	1°44'13	superior conj	3777 Aug 18 07:16	27° Ω 21'42	1°39'09
minimum elong	3776 Sep 03 03:31	12° m 44'27	1°44'13	minimum elong	3777 Aug 18 05:46	27° Ω 13'42	1°39'04
max. Earth dist.	3776 Sep 07 16:26	21° m 54'15	1.35607 AU	-	3777 Aug 19 13:11	0° m p	
evening rise	3776 Sep 11 19:35	29° m 51'29		max. Earth dist.	3777 Aug 21 09:58	3° m 54'03	1.34103 AU

	2777 1 26 04 06	1207 2011			2770 4 00 22 20	270 020147	
evening rise	3777 Aug 26 04:06	13°Mp30'11		evening rise	3778 Aug 09 23:29	27° Ω 39'47	
	3777 Sep 04 03:18	0∘ ⊽			3778 Aug 11 03:20	0° m)	
desc. node	3777 Sep 11 20:33	12° £ 30′23			3778 Aug 28 09:09	0° ⊽	
	3777 Sep 24 20:34	0°M₊		desc. node	3778 Aug 29 17:36	1° ≏ 58'38	
evening max el	3777 Sep 29 20:35		27°09'44	evening max el	3778 Sep 12 07:41	18° ≏ 27'32	27°26'37
retrograde	3777 Oct 13 04:55	12°M34'50		retrograde	3778 Sep 25 23:25	25° ≏ 43'59	
evening set	3777 Oct 20 02:19	9° ™ 53'16		evening set	3778 Oct 03 03:32	23° ≙ 07'44	
min. Earth dist.	3777 Oct 23 23:09	6° ™ 10'43	0.65064 AU	min. Earth dist.	3778 Oct 06 19:26	19° ≏ 58'01	0.63472 AU
inferior conj	3777 Oct 26 02:16	3°M48'17	-2°10'55	inferior conj	3778 Oct 09 10:46	17° ≏ 18'59	-3°11'27
minimum elong	3777 Oct 26 05:56	3°M38'02	2°09'29	minimum elong	3778 Oct 09 15:59	17° ≙ 05'50	3°09'42
	3777 Oct 29 19:59	30° Ŗ Ω		morning rise	3778 Oct 16 05:48	12° ≏ 02'28	
morning rise	3777 Nov 01 10:32	28° £ 15′08		direct	3778 Oct 18 16:54	11° ≏ 33'14	
asc. node	3777 Nov 01 15:45	28° ഫ 09'15		asc. node	3778 Oct 19 12:49	11° ≏ 36'37	
direct	3777 Nov 04 02:41	27° ₽ 37'04		morning max el	3778 Oct 25 07:01	14° £ 58'32	17°50'58
	3777 Nov 09 10:15	0°M		morning mun vi	3778 Nov 04 18:43	0°M	1, 5050
morning max el	3777 Nov 10 14:25	1°M05'18	18°04'38	morning set	3778 Nov 10 18:40	10°M21'10	
morning set	3777 Nov 10 14:23	28°M06'13	10 0430	morning set	3778 Nov 10 18:40	0°×7	
morning set		20 IIC00 13 0° 🔏			3778 NOV 22 07.22	0 🗴	
	3777 Nov 29 18:18				2770 N 22 22 26	10 707110	0010146
desc. node	3777 Dec 08 19:49	14° ≯ 48'11		superior conj	3778 Nov 22 23:36	1°× 7 07'10	
				minimum elong	3778 Nov 23 01:33	1° ≯ 15'13	0°18'29
superior conj	3777 Dec 12 20:21	21° ≯ 14'14		desc. node	3778 Nov 25 16:52	5° ∡ ³34'29	
minimum elong	3777 Dec 12 16:57	21° 尽 00'41	0°26'49	max. Earth dist.	3778 Nov 29 03:43	11° ⊀ 08'39	1.44143 AU
max. Earth dist.	3777 Dec 16 09:48	26° ₹ 52'16	1.45045 AU	evening rise	3778 Dec 08 14:11	25° ₹ 56'34	
	3777 Dec 18 09:35	0°る			3778 Dec 11 05:40	0°ප	
evening rise	3777 Dec 29 04:32	16° ප් 47'11			3778 Dec 31 21:33	0° ≈	
	3778 Jan 06 18:38	0° ≈		evening max el	3779 Jan 06 13:52	6° ≈ 42'28	20°48'54
greatest brilliancy	3778 Jan 11 14:17	7°≈17'04	-0.7m	retrograde	3779 Jan 14 21:22	11° ≈ 37'15	
evening max el	3778 Jan 23 12:52	23°≈10'08	19°45'28	asc. node	3779 Jan 15 12:05	11° ≈ 35'11	
asc. node	3778 Jan 28 15:03	26°≈59'04		evening set	3779 Jan 18 21:20	10° ≈ 05'53	
retrograde	3778 Jan 30 23:17	27° ≈ 28'41		inferior conj	3779 Jan 24 05:59	3°≈55'01	2°37'27
evening set	3778 Feb 03 14:05	26°≈12'09		minimum elong	3779 Jan 24 03:28	4°≈03'37	2°36'45
inferior conj	3778 Feb 09 00:44	20°≈13'26	3°08'21	min. Earth dist.	3779 Jan 24 17:56	3°≈13'59	0.67600 AU
minimum elong	3778 Feb 08 22:30	20°≈20'54	3°07'54	mm. Lattii dist.	3779 Jan 27 05:16	30°R₹	0.07000710
min. Earth dist.	3778 Feb 10 01:50	20 ≈20 34 18°≈50'14	0.66854 AU	mamina rica	3779 Jan 27 03:10 3779 Jan 29 09:26	30 KO 27° 石 41'51	
			0.00834 AU	morning rise		27 3 41 31 25° る 17'41	
morning rise	3778 Feb 14 06:41	13°≈59'43		direct	3779 Feb 03 20:03		
direct	3778 Feb 20 07:35	11°≈18′05	25025122		3779 Feb 12 21:04	0°≈	2.400.4122
morning max el	3778 Mar 04 09:51		25°27'33	morning max el	3779 Feb 14 18:26	1°≈48'47	24°01'22
desc. node	3778 Mar 06 19:03	21°≈02'42		desc. node	3779 Feb 21 16:06	9° ≈ 43'48	
	3778 Mar 14 02:39	0° ∀			3779 Mar 08 03:41	0° ∀	
	3778 Apr 02 23:09	$0^{\circ}\Upsilon$		morning set	3779 Mar 22 10:12	23°) €03'39	
morning set	3778 Apr 09 15:18	11° Ƴ 40'38		max. Earth dist.	3779 Mar 26 04:36	29°) 40′02	1.38261 AU
max. Earth dist.	3778 Apr 13 08:20	18° Ƴ 32'27	1.36206 AU		3779 Mar 26 09:05	0 ° $\mathbf{\Upsilon}$	
superior conj	3778 Apr 19 06:16	0° 8 01'23	-1°10'15	superior conj	3779 Apr 02 09:20	12° Y 56'37	-1°36'30
minimum elong	3778 Apr 19 09:58	0° ප 19'52	1°09'38	minimum elong	3779 Apr 02 13:59	13° Ƴ 18'46	1°35'56
	3778 Apr 19 05:59	0° ႘		evening rise	3779 Apr 11 07:50	0° 8 21'59	
asc. node	3778 Apr 26 14:21	14° 8 54'06		Č	3779 Apr 11 03:22	0°8	
evening rise	3778 Apr 27 09:18	16° 8 30'17		asc. node	3779 Apr 13 11:25	4° 8 33'41	
e vennig 115e	3778 May 04 08:24	0° Ⅱ		evening max el	3779 Apr 27 19:12	27° 8 01'27	18°57'02
evening max el	3778 May 14 22:25		19°51'57	evening max er	3779 May 01 18:21	0°II	10 37 02
retrograde	3778 May 25 00:34	19° Ⅱ 57'01	17 31 37	retrograde	3779 May 06 07:17	1° Ⅱ 10'35	
•	•			•	•	0° П 56'12	
evening set	3778 May 26 23:39	19° Ⅱ 46'43		evening set	3779 May 08 10:02		
desc. node	3778 Jun 02 18:17	17° Ⅱ 01'45	0007120		3779 May 11 02:38	30°R 8	1010116
inferior conj	3778 Jun 04 21:10	15° Ⅱ 45'37		inferior conj	3779 May 16 12:29	26° 8 40'00	1°10'16
minimum elong	3778 Jun 04 19:27	15° Ⅱ 48'16		minimum elong	3779 May 16 15:05	26° 8 35'22	1°09'23
min. Earth dist.	3778 Jun 06 23:40	14° Ⅱ 28'37	0.55397 AU	min. Earth dist.	3779 May 19 15:27	24° 8 28'19	0.56800 AU
morning rise	3778 Jun 13 13:11	11° Ⅱ 19'34		desc. node	3779 May 20 15:18	23° 8 48'56	
direct	3778 Jun 17 19:44	10° ∏ 39′25		morning rise	3779 May 24 16:57	21° 8 38'10	
morning max el	3778 Jul 01 15:39	17° Ⅱ 30'46	24°19'10	direct	3779 May 29 22:52	20° 8 32'36	
	3778 Jul 11 20:35	0 \circ \odot		morning max el	3779 Jun 13 06:23	27° 8 57'14	25°54'58
asc. node	3778 Jul 23 13:36	20° © 39'54			3779 Jun 15 06:44	0° I I	
morning set	3778 Jul 26 16:11	27°905'52			3779 Jul 05 05:16	0ංම	
<i>3</i>	3778 Jul 28 00:53	0° Ω		asc. node	3779 Jul 10 10:40	10° 5 29'39	
	5,,0041 20 00.55	~ UC		morning set	3779 Jul 10 10:40	11°958'29	
superior conj	3778 Aug 02 15:31	12° Ω 10'31	1°28'23	morning set	5,7, Jul 11 05.55	11 -3029	
	-	12 δ ε10 31 11° Ω 58'44	1°28'08	superior comi	3779 Jul 18 02:31	27° 5 06'04	1°12'46
minimum elong	3778 Aug 02 13:21	11° δ(38°44') 16° Ω 12'59	1.33006 AU	superior conj	3779 Jul 18 02:31 3779 Jul 18 00:10	26°953'11	1°12'46 1°12'23
max. Earth dist.	3778 Aug 04 12:22	10 061239	1.55000 AU	minimum elong	5117 Jul 10 00.10	۱۱ در ت ۲۵	1 1443

E d F	2770 1 1 10 21 00	200540122	1 22210 444	P. d. F.	2700 1 1 01 00 20	110520125	1 22020 444
max. Earth dist.	3779 Jul 18 21:08	28°9948'23 0°Ω	1.32319 AU	max. Earth dist.	3780 Jul 01 08:39	11°529'35	1.32039 AU
	3779 Jul 19 10:12			evening rise	3780 Jul 08 10:31	26°954'26	
evening rise	3779 Jul 25 02:31 3779 Aug 03 07:06	12° Ω 10'58			3780 Jul 09 21:59 3780 Jul 26 22:12	0° Ω 0° m	
dasa mada		0°Mp 20°m-44!22		desc. node		0 ių 8° Mo 29'44	
desc. node	3779 Aug 16 14:37	20° Mp 44'32 0° <u>₽</u>			3780 Aug 02 11:38 3780 Aug 06 15:18	12° m 52'00	26°23'51
avaning may al	3779 Aug 24 12:54	0 <u>≈</u> 1° Ω 02'48	27°11'49	evening max el	Č	~	20 23 31
evening max el	3779 Aug 25 14:44	8° £ 16'16	2/ 1149	retrograde	3780 Aug 20 14:37	20° Mp 02'17	
retrograde	3779 Sep 08 11:02 3779 Sep 15 14:08	5° £ 57'20		evening set min. Earth dist.	3780 Aug 27 05:21	18° Mp 13'42	0.50524.411
evening set	-		0.61500 ATT		3780 Aug 31 04:37	15° Mp 38'29	
min. Earth dist.	3779 Sep 19 05:04			inferior conj	3780 Sep 03 11:18	13° m 05'53 12° m 57'00	
inferior conj	3779 Sep 22 06:58	0° Ω 28'07		minimum elong	3780 Sep 03 15:51	~	4-49-52
minimum elong	3779 Sep 22 12:51	0° Ω 14'59	4-05 40	morning rise	3780 Sep 11 04:31	8° Mp 31'52	
	3779 Sep 22 19:36	30°R Mp		direct	3780 Sep 13 14:02	8° Mp 11'34	10010150
morning rise	3779 Sep 29 13:20	25° m 31'39		morning max el	3780 Sep 21 08:10	11° Mp 57'14	18°19'52
direct	3779 Oct 01 22:07	25° m 08'10		asc. node	3780 Sep 22 06:54	12° m 54'54	
asc. node	3779 Oct 06 09:52	26° Mp 36'01	15055126		3780 Oct 03 09:24	0° ⊽	
morning max el	3779 Oct 08 22:03	28° m 38'56	17°55'36	morning set	3780 Oct 07 06:47	7° ≏ 19'56	
	3779 Oct 10 04:47	0∘ ⊽			2000 0 . 16 11 14	240 2 40120	1000110
morning set	3779 Oct 24 17:50	23° £ 31'01		superior conj	3780 Oct 16 11:44	24° £ 40'30	1°22'18
	3779 Oct 28 07:18	0°M₊		minimum elong	3780 Oct 16 15:28	24° £ 57'35	1°21'55
					3780 Oct 19 10:23	0°M	
superior conj	3779 Nov 04 05:42	12°M18'52	0°56'08	max. Earth dist.	3780 Oct 24 00:50	8°M03'03	1.40722 AU
minimum elong	3779 Nov 04 09:50	12°M36'46		evening rise	3780 Oct 28 15:28	15°M47'08	
max. Earth dist.	3779 Nov 11 17:04	24°M56'27	1.42639 AU	desc. node	3780 Oct 29 10:55	17°M06'52	
desc. node	3779 Nov 12 13:54	26°M21'50			3780 Nov 06 14:47	0° ∡	
	3779 Nov 14 19:41	0° ∡			3780 Nov 28 10:40	0°ಕ	
evening rise	3779 Nov 18 05:24	5° ₹ 25'23		evening max el	3780 Dec 02 00:29	3° 云 51'56	23°22'23
	3779 Dec 04 13:43	0°₹		retrograde	3780 Dec 12 12:22	10° る 04'39	
evening max el	3779 Dec 20 09:20	20° る 15'42	22°02'51	evening set	3780 Dec 17 11:35	8° ප 01'31	
retrograde	3779 Dec 29 18:15	25° る 50'21		asc. node	3780 Dec 19 06:09	6° ප 16'58	
asc. node	3780 Jan 02 09:08	24° る 40'01		inferior conj	3780 Dec 22 21:07	1° る 37'04	1°12'26
evening set	3780 Jan 03 05:03	24° る 03'19		minimum elong	3780 Dec 22 19:32	1° る 42'32	1°11'48
inferior conj	3780 Jan 08 13:23	17° る 43'41	1°58'23	min. Earth dist.	3780 Dec 22 10:24	2° る 13'53	0.67938 AU
minimum elong	3780 Jan 08 11:07	17° る 51'34	1°57'36		3780 Dec 24 01:41	30°R. ✓	
min. Earth dist.	3780 Jan 08 13:34	17° る 43'03	0.67951 AU	morning rise	3780 Dec 28 03:24	25° ₹ 29'53	
morning rise	3780 Jan 13 17:03	11° る 32'35		direct	3781 Jan 01 08:50	23° ₹ 50′18	
direct	3780 Jan 18 12:45	9° ට 30'13		morning max el	3781 Jan 09 20:43	28° ₹ 46'04	21°09'31
morning max el	3780 Jan 28 04:54	15° ठ 12'53	22°32'32		3781 Jan 11 01:07	0°ಕ	
desc. node	3780 Feb 08 13:08	29° る 05'33		desc. node	3781 Jan 25 10:09	18° ප 56'39	
	3780 Feb 09 04:58	0° ≈			3781 Feb 01 20:49	0° ≈	
	3780 Feb 29 03:54	0° ∀		morning set	3781 Feb 09 13:40	11°≈52'56	
morning set	3780 Mar 02 02:03	3° ∺ 07'30		max. Earth dist.	3781 Feb 17 02:38	23°≈58'01	1.42454 AU
max. Earth dist.	3780 Mar 07 00:44	11°) 22′14	1.40439 AU		3781 Feb 20 18:11	0° ℋ	
	2700 M 14 10-44	250 1125	105(157		2701 E-L 24 00:25	6°) 04'34	2007105
superior conj	3780 Mar 14 19:44	25° ₩ 01'25		superior conj	3781 Feb 24 08:25		
minimum elong	3780 Mar 14 23:50	25° ¥ 19'59 0° Ƴ	1°56'41	minimum elong	3781 Feb 24 09:21 3781 Mar 07 19:11	6° ₩ 08'31 26° ₩ 16'58	2°07'04
	3780 Mar 17 13:13			evening rise		20°π1038 0°Υ	
evening rise	3780 Mar 24 20:26	13° Υ 40'27		1	3781 Mar 09 20:41		
asc. node	3780 Mar 30 08:27	23° Y 53'42		asc. node	3781 Mar 17 05:29	12° Y 47'49	10007122
ovenie 1	3780 Apr 02 21:17	0° と 9° と 34'44	10022121	evening max el	3781 Mar 24 11:22	22° Υ 33'51 25° Υ 57'49	18°07'33
evening max el	3780 Apr 10 00:39	_	18°22'21	retrograde	3781 Mar 31 03:15		
retrograde	3780 Apr 17 08:48	13° 8 13'12		evening set	3781 Apr 02 18:52	25° Υ 25'43	201.412.5
evening set	3780 Apr 19 18:04	12° 8 51'09	202011.4	inferior conj	3781 Apr 09 09:53		3°14'35
inferior conj	3780 Apr 27 01:12	8° 8 15'14		minimum elong	3781 Apr 09 12:29	20°Υ22'55	3°14'10
minimum elong	3780 Apr 27 04:54	8° 8 07'34		min. Earth dist.	3781 Apr 12 14:57	17° Υ 25'51	0.60962 AU
min. Earth dist.	3780 Apr 30 11:50		0.58773 AU	morning rise	3781 Apr 16 04:07	14° Υ 35'59	
morning rise	3780 May 04 12:46	2° 8 42'25		direct	3781 Apr 22 21:30	12° Υ 21'24	
desc. node	3780 May 06 12:20	1° 8 48'25		desc. node	3781 Apr 23 09:21	12° Υ 22'06	27046117
direct	3780 May 10 16:18	1°802'07	27007127	morning max el	3781 May 07 03:21	20° Υ 17'13	27°46'17
morning max el	3780 May 25 01:46	8° 8 47'36	2/~07/37/		3781 May 15 11:27	8°0	
	3780 Jun 10 04:39	0°II			3781 Jun 03 02:14	0°II	
morning set	3780 Jun 24 12:47	26° Ⅱ 42'30		morning set	3781 Jun 08 18:04	11° Ⅱ 12'20	
asc. node	3780 Jun 26 07:43	0°929'55		asc. node	3781 Jun 13 04:45	20° Ⅲ 36′18	1 221=2 :=:
	3780 Jun 26 02:07	0ං ව		max. Earth dist.	3781 Jun 14 19:15	24° Ⅱ 05′26	1.32170 AU
avmoni	2700 I-1 01 14 10	1200-00154	0052150	aumari '	2701 Jan 16 01 15	260π 4012 σ	0020127
superior conj	3780 Jul 01 14:19	12°500'54		superior conj	3781 Jun 16 01:15	26° Ⅱ 49'35 26° Ⅱ 42'27	
minimum elong	3780 Jul 01 12:17	11° © 49'38	0 32 34	minimum elong	3781 Jun 15 23:57	20 114 22/	0 29 20

	3781 Jun 17 11:56	0ಂತಾ		minimum elong	3782 May 31 09:22	11° Ⅱ 25'26	0°03'22
evening rise	3781 Jun 22 21:25	11° © 43'39		behind sun begin	3782 May 31 04:13	10° Ⅱ 57'37	
	3781 Jul 02 03:46	$0^{\circ}\Omega$		behind sun end	3782 May 31 14:31	11° Ⅱ 53'17	
evening max el	3781 Jul 19 08:41	23° Ω 54'15	25°06'55	asc. node	3782 May 31 01:48	10° Ⅱ 44'32	
desc. node	3781 Jul 20 08:38	24° Ω 49'52		evening rise	3782 Jun 07 09:16	26° Ⅲ 32'14	
	3781 Jul 28 06:58	0°Щ			3782 Jun 09 00:48	0°©	
retrograde	3781 Aug 02 07:51	0° т 58'42			3782 Jun 26 20:56	$0^{\circ}\Omega$	
. ,	3781 Aug 07 09:06	30°R€		evening max el	3782 Jun 30 21:53	4° Ω 24'19	23°32'42
evening set	3781 Aug 07 20:50	29° Ω 48'24 27° Ω 04'37	0.57519 AU	desc. node	3782 Jul 07 05:38 3782 Jul 14 12:33	9° £ 13′09	
min. Earth dist. inferior conj	3781 Aug 12 20:24 3781 Aug 15 20:33	27 δ 04 37 25° Ω 03'08		retrograde evening set	3782 Jul 14 12.33 3782 Jul 18 14:08	11° Ω 13'31 10° Ω 37'18	
minimum elong	3781 Aug 15 20:50			min. Earth dist.	3782 Jul 25 07:48	7° Ω 29'08	0.55889 AU
morning rise	3781 Aug 23 23:14	20° Ω 51'21	2 0, 30	inferior conj	3782 Jul 27 09:44	6° Ω 14'49	
direct	3781 Aug 26 12:39	20° Ω 32'07		minimum elong	3782 Jul 27 04:02	6° Ω 23'21	
morning max el	3781 Sep 04 10:04	24° Ω 43′28	19°05'12	morning rise	3782 Aug 04 20:24	2° Ω 20′10	
	3781 Sep 08 22:42	0° m		direct	3782 Aug 07 16:13	2° Ω 00′23	
asc. node	3781 Sep 09 03:57	0° m 18′09		morning max el	3782 Aug 18 01:03	6° Ω 49'09	20°12'15
morning set	3781 Sep 21 05:18	21°M 36'14		asc. node	3782 Aug 27 00:59	18° Ω 31'49	
	3781 Sep 25 10:51	0∘ ত			3782 Sep 02 08:09	0° m	
				morning set	3782 Sep 05 10:19	6°Mp11'46	
superior conj	3781 Sep 29 12:17	7° £ 56′20	1°37'48				
minimum elong	3781 Sep 29 14:29	8° Ω 06'58	1°37'40	superior conj	3782 Sep 13 02:20	21° m 52'35	1°44'08
max. Earth dist.	3781 Oct 06 05:19 3781 Oct 10 00:59	20° £ 28'15	1.38639 AU	minimum elong	3782 Sep 13 02:51	21° m 55'09 0° ₽	1°44'07
evening rise	3781 Oct 10 00:39 3781 Oct 11 15:48	27° £ 13′24 0° M		max. Earth dist.	3782 Sep 17 04:54 3782 Sep 18 11:27	0° ഫ 26'58	1.36639 AU
desc. node	3781 Oct 11 13:48 3781 Oct 16 07:56	7°M45'33		evening rise	3782 Sep 18 11:27 3782 Sep 22 08:10	2 = 20 38 9° £ 40'00	1.30039 AU
dese. Hode	3781 Oct 31 03:26	0°×7		desc. node	3782 Oct 03 04:58	28° £ 13'37	
evening max el	3781 Nov 14 13:24	17° × ⁷ 32'15	24°41'11	dese. node	3782 Oct 04 07:50	0°M	
retrograde	3781 Nov 26 02:29	24° ₹ 15'46			3782 Oct 26 19:50	0° ∡ 7	
evening set	3781 Dec 01 15:22	21° ₹ 57'08		evening max el	3782 Oct 28 01:49	1° ∡ 14'55	25°52'00
min. Earth dist.	3781 Dec 06 05:57	16° ∡ ⁴43′22	0.67582 AU	retrograde	3782 Nov 09 11:52	8° ≯ 19'26	
asc. node	3781 Dec 06 03:10	16° ≯ 52'33		evening set	3782 Nov 15 14:42	5° ∡ 747'25	
inferior conj	3781 Dec 07 03:23	15° ∡ ³32'11	0°20'39	min. Earth dist.	3782 Nov 19 21:53	1° ≯ 08'53	0.66884 AU
minimum elong	3781 Dec 07 02:52	15° ₹ 33'52	0°20'26		3782 Nov 20 19:48	30°₽M.	
morning rise	3781 Dec 12 14:29	9° ∡ 31'09		inferior conj	3782 Nov 21 06:23	29°M26'33	
direct	3781 Dec 16 06:59	8° ₹ 13'01	10050100	minimum elong	3782 Nov 21 07:20	29°M23'35	0°35'27
morning max el	3781 Dec 23 20:11 3782 Jan 06 04:25	12° メ 30'10 0°る	19°58'00	asc. node	3782 Nov 23 00:11 3782 Nov 27 00:21	27°M18'04 23°M34'15	
desc. node	3782 Jan 06 04:23 3782 Jan 12 07:09	9° ろ 08'33		morning rise direct	3782 Nov 30 05:41	23°11L34 13 22°11L34'38	
morning set	3782 Jan 12 07:09 3782 Jan 19 09:47	9 00033 20°る01'02		morning max el	3782 Dec 07 03:22	26°M24'31	19°01'10
morning set	3782 Jan 25 19:42	0°≈		morning max cr	3782 Dec 07 03:22	0°×7	17 01 10
max. Earth dist.	3782 Jan 30 12:33	7°≈26'26	1.44044 AU	morning set	3782 Dec 29 15:43	28° х 47'08	
				desc. node	3782 Dec 30 04:12	29° х 35′49	
superior conj	3782 Feb 04 19:24	15° ≈ 57'32	-2°01'27		3782 Dec 30 10:23	ರ°0	
minimum elong	3782 Feb 04 14:33	15° ≈ 37'49	2°01'14	max. Earth dist.	3783 Jan 13 04:50	21° る 32'50	1.45009 AU
	3782 Feb 13 06:25	0°) €					
evening rise	3782 Feb 17 23:36	8° ∺ 02'05		superior conj	3783 Jan 15 06:58	24° ප් 50'21	
	3782 Mar 03 07:27	0°Υ 1° 0 0°51°5		minimum elong	3783 Jan 14 21:51	24° る 14'26	1°35'34
asc. node	3782 Mar 04 02:30	1° Υ 07'07	10011150		3783 Jan 18 13:10	0°≈	
evening max el retrograde	3782 Mar 08 00:05	5° Υ 49'13 9° Υ 13'27	18°11'59	evening rise	3783 Jan 30 06:00 3783 Feb 06 01:55	18°≈50'58 0°) €	
evening set	3782 Mar 14 10:18 3782 Mar 17 07:47	8° Υ 30'00		asc. node	3783 Feb 00 01:33 3783 Feb 18 23:31	18°) 41'28	
inferior conj	3782 Mar 23 10:38	3° Υ 13'34	3°35'00	evening max el	3783 Feb 19 12:00	19°) 14'02	18°34'52
minimum elong	3782 Mar 23 11:27	3°Υ11'20	3°34'57	retrograde	3783 Feb 26 01:44	22°) 51'24	10 0 . 02
min. Earth dist.	3782 Mar 26 02:40	0° Υ 20'46	0.63050 AU	evening set	3783 Mar 01 05:08	21°) 55'50	
	3782 Mar 26 10:42	30° ₹ ₩		inferior conj	3783 Mar 06 23:26	16°) 21′07	3°35'45
morning rise	3782 Mar 29 14:03	27°) €08'46		minimum elong	3783 Mar 06 22:40	16°) €23'25	3°35'43
direct	3782 Apr 05 11:40	24° ∺ 29'38		min. Earth dist.	3783 Mar 08 23:55	13° ¥ 56′18	0.64837 AU
desc. node	3782 Apr 10 06:21	25°) ₹36′04		morning rise	3783 Mar 12 15:39	10°) 1 0′15	
	3782 Apr 16 19:13	0° Υ		direct	3783 Mar 19 09:19	7° ∺ 20′08	
morning max el	3782 Apr 19 10:09	2° Y 27'34	27°47'29	desc. node	3783 Mar 28 03:23	11° ∺ 00'55	
	3782 May 09 19:40	0° 8		morning max el	3783 Apr 01 19:49	15°) 11'14	27°13'47
morning set	3782 May 23 17:16	25° 8 21'04			3783 Apr 13 22:52	$^{\circ \gamma}$	
may Earth 3:-4	3782 May 26 00:00	0° Ⅱ 6° Ⅲ 24'11	1 22721 ATT	morning ast	3783 May 02 12:59	0°8 ∞¥50'56	
max. Earth dist.	3782 May 29 01:13	6° Ⅱ 24'11	1.32721 AU	morning set max. Earth dist.	3783 May 11 22:41	8° 8 59'56	1.33716 AU
superior conj	3782 May 31 09:32	11° Ⅱ 26'19	0°03'24	man. Earth uist.	3783 May 11 22:41	10 01439	1.55/10 AU
superior conj	5,02 may 51 07.52	11 112017	3 03 27				

	2792 M 15 12-11	250 44122	0024151		2794 4 29 00:40	00 427125	0952152
superior conj	3783 May 15 13:11	25° 8 44'33 25° 8 51'19		superior conj minimum elong	3784 Apr 28 09:49	9° 8 37'35 9° 8 52'12	
minimum elong asc. node	3783 May 15 14:28 3783 May 17 22:50	23 О 31 19 0° П 50'16	0 24 33	asc. node	3784 Apr 28 12:41 3784 May 03 19:53	20° 8 49'34	0 33 19
asc. node	3783 May 17 13:23	0°П 0°П		evening rise	3784 May 06 04:14	25° 8 41'13	
evening rise	3783 May 22 20:12	11° П 13'31		evening rise	3784 May 08 07:01	0°Ⅱ	
evening risc	3783 Jun 01 13:34	0° ©		evening max el	3784 May 24 16:17	25° Ⅱ 47'19	20°32'28
evening max el	3783 Jun 12 14:02	14° 9 51'45	21°56'52	evening max er	3784 May 30 12:14	0°95	20 32 20
desc. node	3783 Jun 24 02:39	21°904'37	21 3032	retrograde	3784 Jun 04 19:00	1°9512'51	
retrograde	3783 Jun 25 05:52	21°507'36		evening set	3784 Jun 06 19:36	1°902'47	
evening set	3783 Jun 27 22:58	20°951'08		desc. node	3784 Jun 09 23:40	0°9510'04	
inferior conj	3783 Jul 07 07:15	16° 9 37'03	-3°37'28	desc. node	3784 Jun 10 09:54	30°RⅡ	
minimum elong	3783 Jul 06 22:48	16°958'53	3°35'07	inferior conj	3784 Jun 16 01:07	27° I I05'10	-1°46'57
min. Earth dist.	3783 Jul 06 18:23	17° © 05'05	0.54960 AU	minimum elong	3784 Jun 15 20:06	27° I 12'26	
morning rise	3783 Jul 16 00:12	12°955'35	0.54700710	min. Earth dist.	3784 Jun 17 06:31	26° Ⅲ 22'40	
direct	3783 Jul 19 04:35	12°533'14		morning rise	3784 Jun 24 19:44	22° II 56'11	0.54750710
morning max el	3783 Jul 31 04:18	18°909'45	21°39'17	direct	3784 Jun 28 14:18	22° I I25'29	
morning max er	3783 Aug 09 14:01	0°Ω	21 37 17	morning max el	3784 Jul 11 22:21	28° II 52'28	23°19'45
asc. node	3783 Aug 13 22:03	7° Ω 23'19		morning max cr	3784 Jul 13 02:07	0°95	23 17 43
morning set	3783 Aug 20 19:24	20° Ω 58'49		asc. node	3784 Jul 30 19:08	26°\$43'20	
morning set	3783 Aug 25 02:14	0° m)		use. Hode	3784 Aug 01 10:36	0°Ω	
	3703 Aug 23 02.14	עויי ∨		morning set	3784 Aug 04 06:40	5° Ω 51'56	
superior conj	3783 Aug 28 01:48	6° Mp 16'26	1°42'51	morning set	3704 Mug 04 00.40	5 0 (51 50	
minimum elong	3783 Aug 28 00:54	6° Mp 11'44	1°42'49	superior conj	3784 Aug 11 07:35	20° Ω 58'34	1°35'14
max. Earth dist.	3783 Aug 31 23:51	14° Mg 19'49	1.34916 AU	minimum elong	3784 Aug 11 07:33	20°Ω48'39	1°35'04
evening rise	3783 Sep 05 08:40	22° m 55'13	1.54710710	max. Earth dist.	3784 Aug 13 21:04	26° Ω 25'52	1.33582 AU
evening rise	3783 Sep 09 03:43	0° ⊡		max. Earth dist.	3784 Aug 15 14:00	0° m)	1.55502 110
desc. node	3783 Sep 20 02:01	0 — 18° ≏ 24'37		evening rise	3784 Aug 18 22:15	6° Mp 48'00	
dese. Hode	3783 Sep 28 00:24	0°M		evening rise	3784 Aug 31 17:23	0° ⊽	
evening max el	3783 Oct 10 14:17	14°M52'32	26°47'31	desc. node	3784 Sep 05 23:01	ა <u>~</u> 8° ഫ 11'01	
retrograde	3783 Oct 23 16:00	22°M08'19	20 17 31	evening max el	3784 Sep 22 02:15	28° ₽ 15'50	27°20'27
evening set	3783 Oct 30 07:33	19°M27'48		evening max er	3784 Sep 24 00:12	0°M	27 2027
min. Earth dist.	3783 Nov 03 07:50		0.65830 AU	retrograde	3784 Oct 05 14:26	5°M34'20	
inferior conj	3783 Nov 05 04:06	13°M15'37		evening set	3784 Oct 12 15:23	2°M53'24	
minimum elong	3783 Nov 05 06:45	13°M07'51	1°34'37	evening sec	3784 Oct 15 20:19	30°R Ω	
asc. node	3783 Nov 09 21:14	8°M28'12	1 3437	min. Earth dist.	3784 Oct 16 09:42	29° ₽ 25'34	0.64423 AU
morning rise	3783 Nov 11 06:43	7°M34'53		inferior conj	3784 Oct 18 18:11	26° Ω 54'36	
direct	3783 Nov 14 02:58	6°M50'09		minimum elong	3784 Oct 18 22:34	26° ≏ 42'51	
morning max el	3783 Nov 20 16:24	10°M23'32	18°20'28	morning rise	3784 Oct 25 06:57	21° ≏ 28'21	2 33 17
morning max or	3783 Dec 04 11:46	0° ⊼	10 20 20	asc. node	3784 Oct 26 18:18	21° ⊆ 00'47	
morning set	3783 Dec 10 00:44	8° ≯ 756'38		direct	3784 Oct 27 20:30	20° ♀ 54'36	
desc. node	3783 Dec 17 01:16	20° ✓ 13'27		morning max el	3784 Nov 03 08:33	24° ⊆ 20'46	17°56'39
acor. noue	3783 Dec 23 05:15	0°る		monning man er	3784 Nov 07 23:02	0°M	1, 2025
	3703 BCC 23 03.13	° °		morning set	3784 Nov 20 14:26	20°M30'17	
superior conj	3783 Dec 25 09:13	3° る 24'29	-0°54'49	morning sec	3784 Nov 26 06:06	0° ₹	
minimum elong	3783 Dec 25 02:22	2° る 57'35		desc. node	3784 Dec 02 22:18	10° √ 57'22	
max. Earth dist.	3783 Dec 26 23:53	5° ਰ 56'18	1.45240 AU	desc. node	370.1300 02 22.10	10 7. 07 22	
evening rise	3784 Jan 10 13:25	28° る 45'13	1.102.0110	superior conj	3784 Dec 03 22:57	12° ∡ ³36'54	-0°07'05
	3784 Jan 11 08:28	0° ≈		minimum elong	3784 Dec 03 22:07	12° х 33'32	
greatest brilliancy	3784 Jan 21 09:26	15° ≈ 40′29	-0.8m	behind sun begin	3784 Dec 03 12:45	11° ∡ 55'46	
8	3784 Jan 31 10:48	0° ∀		behind sun end	3784 Dec 04 07:29	13° х 11′16	
evening max el	3784 Feb 02 20:50	2°) (43'43	19°15'08	max. Earth dist.	3784 Dec 08 18:31	20° ∡ 18'13	1.44734 AU
asc. node	3784 Feb 05 20:32	5°) 18'14			3784 Dec 14 22:53	0°ප	
retrograde	3784 Feb 09 21:53	6°) 45′05		evening rise	3784 Dec 20 03:10	8° る 00'35	
evening set	3784 Feb 13 08:04	5°) €36'35		greatest brilliancy	3785 Jan 03 17:23	0° ≈ 04'37	-0.6m
inferior conj	3784 Feb 18 20:48	29° ≈ 45'49	3°21'45	8	3785 Jan 03 16:08	0° ≈	******
minimum elong	3784 Feb 18 18:56	29° ≈ 51'50		evening max el	3785 Jan 16 00:57	16° ≈ 15'12	20°10'58
	3784 Feb 18 16:24	30°R ≈		asc. node	3785 Jan 22 17:34	20° ≈ 42'20	
min. Earth dist.	3784 Feb 20 06:05	27° ≈ 58'44	0.66231 AU	retrograde	3785 Jan 23 19:54	20° ≈ 48'54	
morning rise	3784 Feb 24 05:30	23°≈32'16		evening set	3785 Jan 27 14:17	19° ≈ 26'24	
direct	3784 Mar 01 13:29	20°≈44'20		inferior conj	3785 Feb 01 23:51	13° ≈ 22'10	2°56'21
morning max el	3784 Mar 14 05:46	28°≈16'07	26°12'07	minimum elong	3785 Feb 01 21:26	13°≈30'20	2°55'48
desc. node	3784 Mar 14 00:27	28°≈02'45		min. Earth dist.	3785 Feb 02 19:14	12°≈16'42	0.67213 AU
	3784 Mar 15 21:31	0° ∀		morning rise	3785 Feb 07 04:21	7° ≈ 08'14	
	3784 Apr 06 16:51	0°Υ		direct	3785 Feb 12 23:20	4°≈33'03	
morning set	3784 Apr 19 09:09	21° Υ ′58'09		morning max el	3785 Feb 24 14:29	11° ≈ 30'19	24°51'50
max. Earth dist.	3784 Apr 23 08:48	29° Υ 33'47	1.35169 AU	desc. node	3785 Feb 28 21:29	16°≈13'25	2. 5155
man. Durin dist.	3784 Apr 23 14:11	0° 8	1.55107110	acce. Houc	3785 Mar 11 09:40	0°) €	
	2,0.12pt 25 14.11	Ÿ O			2,001.141 11 07.70	· //	

	3785 Mar 30 10:10	$0^{\circ}\Upsilon$			3786 Feb 11 14:48	0° ≈	
	3785 Apr 01 16:59	0 γ 4° Υ 00'31		11-		0 ≈ 5°≈13'30	
morning set max. Earth dist.	3785 Apr 05 08:06	4 Y 00 31 10° Υ 34'16	1.37045 AU	desc. node	3786 Feb 15 18:32 3786 Mar 04 21:19	0° ∺	
max. Earm dist.	3783 Apr 03 08.00	10 1 34 10	1.37043 AU	morning set	3786 Mar 14 00:58	14°) 51'05	
aumorior comi	2705 Amr. 11 20:21	22° Y ′56'32	1021151	max. Earth dist.		21°) 51'26	1.39192 AU
superior conj	3785 Apr 11 20:21 3785 Apr 12 00:34	23° Y 17'10		max. Earm dist.	3786 Mar 18 03:00 3786 Mar 22 16:44	21 π 3120	1.39192 AU
minimum elong	_	0° 8	1 21 14		3/80 Mai 22 10.44	0 1	
	3785 Apr 15 09:56	9° 8 47'42			2796 Mar 25 16.56	5° Ƴ 32'02	1946107
evening rise	3785 Apr 20 06:58			superior conj	3786 Mar 25 16:56		
asc. node	3785 Apr 20 16:55	10° 8 37'24		minimum elong	3786 Mar 25 21:37	5°Υ53'46	1°45′39
	3785 May 01 09:06	0° П	10000107	evening rise	3786 Apr 04 01:40	23° Y 26′04	
evening max el	3785 May 07 06:49	7° Ⅱ 23'32	19°26'07	1	3786 Apr 07 11:59	0°8	
retrograde	3785 May 16 15:52	11° II 56'55		asc. node	3786 Apr 07 13:55	0° 8 09'11	10020110
evening set	3785 May 18 15:42	11° Ⅱ 45'28		evening max el	3786 Apr 20 07:46	19° 8 38'27	18°39'48
inferior conj	3785 May 27 05:38	7° ∏ 39'24	0°11'02	retrograde	3786 Apr 28 06:15	23° 8 32'01	
minimum elong	3785 May 27 06:06	7° Ⅱ 38'38	0°10'52	evening set	3786 Apr 30 11:52	23° 8 14'37	
transit middle	3785 May 27 06:06	7° Ⅱ 38'38	0°10'52	inferior conj	3786 May 08 05:52	18° 8 50'20	1°47'22
transit begin	3785 May 27 03:15	7° Ⅱ 43'15		minimum elong	3786 May 08 09:19	18° 8 43'49	1°46'18
transit end	3785 May 27 08:57	7° Ⅲ 34'01		min. Earth dist.	3786 May 11 14:08	16° 8 19'52	0.57601 AU
desc. node	3785 May 27 20:42	7° Ⅱ 14'54		desc. node	3786 May 14 17:43	14° 8 17'46	
min. Earth dist.	3785 May 29 20:49	5° ∏ 57'30	0.55906 AU	morning rise	3786 May 16 03:34	13° 8 34'34	
morning rise	3785 Jun 04 17:39	2° ∏ 57'58		direct	3786 May 21 19:38	12° 8 14'40	
direct	3785 Jun 09 10:01	2° Ⅱ 08'14		morning max el	3786 Jun 05 04:20	19° 8 48'55	26°29'23
morning max el	3785 Jun 23 12:20	9° Ⅱ 16′09	25°01'40		3786 Jun 13 20:43	Π $^{\circ}0$	
	3785 Jul 08 23:39	0			3786 Jul 01 12:15	0	
asc. node	3785 Jul 17 16:12	16° © 23'47		morning set	3786 Jul 04 05:03	5° © 35'09	
morning set	3785 Jul 19 18:25	20° © 45'51		asc. node	3786 Jul 04 13:13	6° ॐ 18′20	
	3785 Jul 24 01:07	$0^{\circ}\Omega$					
				superior conj	3786 Jul 11 04:47	20°5946'44	1°04'50
superior conj	3785 Jul 26 17:15		1°22'18	minimum elong	3786 Jul 11 02:31	20° © 34'13	1°04'26
minimum elong	3785 Jul 26 14:57	5° Ω 38′23	1°22'00	max. Earth dist.	3786 Jul 11 12:47	21° © 30'50	1.32156 AU
max. Earth dist.	3785 Jul 28 02:21	8° Ω 51'27	1.32663 AU		3786 Jul 15 09:52	0 $^{\circ}\Omega$	
evening rise	3785 Aug 02 21:14	21° Ω 07'52		evening rise	3786 Jul 18 02:41	5° Ω 45'19	
	3785 Aug 07 08:17	0°Щ			3786 Jul 30 22:54	0° m)	
desc. node	3785 Aug 23 20:02	27° m 22'49		desc. node	3786 Aug 10 17:03	15°Mp45'19	
	3785 Aug 25 18:04	0∘ ত		evening max el	3786 Aug 17 16:50	23° Mp 30'28	26°55'28
evening max el	3785 Sep 04 12:01	11° ≏ 13'02	27°24'29		3786 Aug 27 12:27	0∘ ত	
retrograde	3785 Sep 18 06:21	18° ≏ 28'42		retrograde	3786 Aug 31 14:31	0° ≏ 41'46	
evening set	3785 Sep 25 10:57	15° ≙ 58'27			3786 Sep 04 14:07	30°R, Mp	
min. Earth dist.	3785 Sep 29 01:46	13° ഫ 00'19	0.62694 AU	evening set	3786 Sep 07 13:52	28° Mp 34'42	
inferior conj	3785 Oct 01 21:53	10° ≙ 17'22	-3°36'06	min. Earth dist.	3786 Sep 11 07:02		0.60719 AU
minimum elong	3785 Oct 02 03:33	10° ≙ 03'46	3°34'22	inferior conj	3786 Sep 14 11:47	23° Mp 14'36	-4°27'41
morning rise	3785 Oct 08 21:43	5° ჲ 08'51		minimum elong	3786 Sep 14 17:26	23° Mp 02'42	4°26'31
direct	3785 Oct 11 07:20	4° £ 42'31		morning rise	3786 Sep 21 22:51	18° Mp 27′08	
asc. node	3785 Oct 13 15:23	5° ഫ 08'07		direct	3786 Sep 24 07:38	18° Mp 05'11	
morning max el	3785 Oct 18 00:51	8° 亞 09'30	17°50'35	asc. node	3786 Sep 30 12:26	20° Mp 42'56	
	3785 Nov 01 08:15	0°M		morning max el	3786 Oct 01 14:08	21° m 41'11	18°03'24
morning set	3785 Nov 03 03:19	3°M11'00			3786 Oct 07 23:08	0∘ ⊽	
				morning set	3786 Oct 17 08:58	16° ≏ 39'22	
superior conj	3785 Nov 14 13:34	23°M03'12			3786 Oct 24 14:38	0° M	
minimum elong	3785 Nov 14 16:50	23°M17'02	0°35'28				
	3785 Nov 18 17:47	0° ∡ 7		superior conj	3786 Oct 27 06:24		1°08'37
desc. node	3785 Nov 19 19:20	1° ₹ '44'32		minimum elong	3786 Oct 27 10:36	5° ™ 04'35	1°08'07
max. Earth dist.	3785 Nov 21 10:25	4° ≯ 23′16	1.43563 AU	max. Earth dist.	3786 Nov 03 21:48	17° ™ 56'04	1.41863 AU
evening rise	3785 Nov 29 13:10	17° ∡ 13'27		desc. node	3786 Nov 06 16:20	22°M31'07	
	3785 Dec 07 22:31	0°రె		evening rise	3786 Nov 09 11:18	27°M02'06	
evening max el	3785 Dec 29 23:38	29° る 48'19	21°19'26		3786 Nov 11 08:01	0° ∡	
	3785 Dec 30 04:14	0° ≈			3786 Dec 01 16:46	0°る	
retrograde	3786 Jan 07 17:35	4° ≈ 59'43		evening max el	3786 Dec 12 17:09	13° る 22'46	22°36'23
asc. node	3786 Jan 09 14:36	4° ≈ 40'32		retrograde	3786 Dec 22 13:17	19° る 13'28	
evening set	3786 Jan 11 21:55	3° ≈ 21'58		evening set	3786 Dec 27 05:17	17° る 19'31	
	3786 Jan 15 02:48	30°₹ る		asc. node	3786 Dec 27 11:38	17° る 06'01	
inferior conj	3786 Jan 17 06:15			inferior conj	3787 Jan 01 13:59	10° る 57'34	1°39'41
minimum elong	3786 Jan 17 03:48	27° る 15'43	2°21'04	minimum elong	3787 Jan 01 11:57	11° る 04'37	1°38'56
min. Earth dist.	3786 Jan 17 13:09	26° る 43'22	0.67795 AU	min. Earth dist.	3787 Jan 01 09:28	11° る 13'14	0.67994 AU
morning rise	3786 Jan 22 09:29	20° ප 54'41		morning rise	3787 Jan 06 18:30	4° ⋜ 48'07	
direct	3786 Jan 27 13:51	18° る 39'09		direct	3787 Jan 11 08:06	2° る 55'25	
morning max el	3786 Feb 06 23:14	24° る 49'53	23°23'20	morning max el	3787 Jan 20 11:29	8° ප 16'46	21°56'09

desc. node	3787 Feb 02 15:33	24° る 48'32		morning max el	3788 Jan 03 06:32	21° х 54'49	20°37'28
dese. Hode	3787 Feb 06 06:38	0°≈		morning max ci	3788 Jan 10 01:56	0°중	20 37 28
morning set	3787 Feb 22 04:17	24°≈19'01		desc. node	3788 Jan 20 12:35	14° る 49'02	
morning sec	3787 Feb 25 16:16	0° ∀		dose. Hode	3788 Jan 30 13:15	0°≈	
max. Earth dist.	3787 Feb 28 01:32		1.41335 AU	morning set	3788 Feb 01 06:43	2°≈40'32	
				max. Earth dist.	3788 Feb 10 07:10	16°≈57'24	1.43192 AU
superior conj	3787 Mar 07 18:43	17° ₩ 11'57	-2°02'50				
minimum elong	3787 Mar 07 21:52	17°) 25′47	2°02'41	superior conj	3788 Feb 16 20:40	27° ≈ 44'48	-2°06'55
_	3787 Mar 14 20:56	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	3788 Feb 16 19:20	27° ≈ 39'14	2°06'54
evening rise	3787 Mar 18 08:52	6° Ƴ 27'48			3788 Feb 18 04:52	0°) €	
asc. node	3787 Mar 25 10:57	19° Ƴ 19'06		evening rise	3788 Feb 29 00:21	18°) 43′26	
	3787 Apr 01 11:51	9° 8			3788 Mar 06 10:45	$0^{\circ}\mathbf{\Upsilon}$	
evening max el	3787 Apr 03 15:51	2° 8 23'53	18°13'39	asc. node	3788 Mar 11 07:59	7° Y 59'29	
retrograde	3787 Apr 10 15:37	5° 8 54'22		evening max el	3788 Mar 17 03:43	15° Ƴ 30′20	18°07'08
evening set	3787 Apr 13 03:44	5° 8 28'08		retrograde	3788 Mar 23 16:10	18° Ƴ 53'10	
inferior conj	3787 Apr 20 03:29	0° 8 43'03	2°51'30	evening set	3788 Mar 26 10:11	18° Ƴ 16′27	
minimum elong	3787 Apr 20 06:53	0° 8 35'31	2°50'45	inferior conj	3788 Apr 01 19:32	13° Ƴ 11'09	3°26'02
	3787 Apr 20 22:51	30° ₹ Υ		minimum elong	3788 Apr 01 21:24	13° Y 06′26	3°25'49
min. Earth dist.	3787 Apr 23 12:52	27° Y 44'41	0.59697 AU	min. Earth dist.	3788 Apr 04 19:33	10° Y 09'39	0.61864 AU
morning rise	3787 Apr 27 07:32	25° Y 00′26		morning rise	3788 Apr 08 07:00	7° Y 11'50	
desc. node	3787 May 01 14:44	23° Y 17′54		direct	3788 Apr 15 03:06	4° Y 45′29	
direct	3787 May 03 17:59	23° Y 05′17		desc. node	3788 Apr 17 11:46	5° Y 01'38	
	3787 May 17 03:21	0°8		morning max el	3788 Apr 29 06:42	12° Y 43'46	27°51'31
morning max el	3787 May 18 02:24	0° 8 55'23	27°28'42		3788 May 13 00:24	0°8	
	3787 Jun 07 23:52	0°II			3788 May 30 08:48	0°II	
morning set	3787 Jun 18 12:53	20° Ⅱ 14'39		morning set	3788 Jun 01 15:55	4° II 36'53	
asc. node	3787 Jun 21 10:15	26° Ⅱ 22'06		asc. node	3788 Jun 07 07:16	16° Ⅱ 29'48	1 22240 ATT
To all the	3787 Jun 23 02:28	0°99	1 22040 ATT	max. Earth dist.	3788 Jun 07 09:54	16° Ⅱ 44'03	1.32349 AU
max. Earth dist.	3787 Jun 25 00:41	4°913'18	1.32049 AU		2700 1 00 02 20	200 T 24125	0010140
avmariar aani	2707 Jun 25 16:27	50040100	0042120	superior conj	3788 Jun 09 02:29	20° Ⅲ 24'35 20° Ⅲ 19'51	0°18'49 0°18'38
superior conj minimum elong	3787 Jun 25 16:27 3787 Jun 25 14:40	5° © 40'09 5° © 30'20	0°43'28 0°43'06	minimum elong	3788 Jun 09 01:37 3788 Jun 13 11:49	20° ш 1931	0-18-38
evening rise	3787 Jul 23 14.40 3787 Jul 02 12:13	20° © 32'51	0 43 00	evening rise	3788 Jun 15 11.49 3788 Jun 15 23:45	0 € 5°€22'34	
evening rise	3787 Jul 02 12:13	20 3 3231		evening rise	3788 Jun 29 00:22	0°Ω	
	3787 Jul 07 02:42 3787 Jul 25 22:29	0° m)		evening max el	3788 Jul 11 05:00	15° Ω 44'36	24°27'58
desc. node	3787 Jul 28 14:02	2° Mp 58'20		desc. node	3788 Jul 14 11:03	18° Ω 33'15	24 27 30
evening max el	3787 Jul 30 14:20	4° m 59'43	25°54'05	retrograde	3788 Jul 25 02:02	22° Ω 45'07	
retrograde	3787 Aug 13 13:40	12° m 07'35	20 0.00	evening set	3788 Jul 30 00:42	21°Ω50'20	
evening set	3787 Aug 19 19:23	10° m/34'38		min. Earth dist.	3788 Aug 04 15:59		0.56763 AU
min. Earth dist.	3787 Aug 24 02:38		0.58655 AU	inferior conj	3788 Aug 07 08:57	17° Ω 14'29	
inferior conj	3787 Aug 27 08:23	5° m/36'42		minimum elong	3788 Aug 07 06:41	17° Ω 18'07	
minimum elong	3787 Aug 27 11:30	5° m 30'59		morning rise	3788 Aug 15 15:16	13° Ω 11'27	
morning rise	3787 Sep 04 05:51	1° m/ 12'28		direct	3788 Aug 18 07:03	12° Ω 52'17	
direct	3787 Sep 06 16:51	0° m 52'43		morning max el	3788 Aug 27 18:47	17° Ω 17'49	19°31'07
morning max el	3787 Sep 14 21:10	4° ™ 47'23	18°36'30	asc. node	3788 Sep 03 06:30	25° Ω 17'37	
asc. node	3787 Sep 17 09:28	7° m 31'22			3788 Sep 06 04:29	0° ™	
	3787 Sep 30 17:52	0∘ 亚		morning set	3788 Sep 14 04:04	15° m 06'54	
morning set	3787 Oct 01 02:27	0° ≏ 41'35			3788 Sep 21 14:08	0∘ ⊽	
superior conj	3787 Oct 09 21:04	17° ≏ 33'08	1°30'05	superior conj	3788 Sep 22 03:58	1° ഫ 08'11	1°41'30
minimum elong	3787 Oct 10 00:13	17° ≏ 47'53	1°29'49	minimum elong	3788 Sep 22 05:26	1° 2 15'24	1°41'26
	3787 Oct 16 17:38	0°M		max. Earth dist.	3788 Sep 28 08:19	12° £ 56'08	1.37764 AU
max. Earth dist.	3787 Oct 17 04:11	0°M46'10	1.39846 AU	evening rise	3788 Oct 02 02:29	19° ≙ 43'59	
evening rise	3787 Oct 21 07:18	7°M50'58			3788 Oct 08 02:23	0°M	
desc. node	3787 Oct 24 13:21	13°M13'53		desc. node	3788 Oct 10 10:24	3°M48'40	
	3787 Nov 04 08:41	0° ⊀ 7	22057110	. 1	3788 Oct 28 11:26	0° ∡ 7	25012120
evening max el	3787 Nov 25 07:00	27° ₹ 00'09	23°56'18	evening max el	3788 Nov 06 19:20		25°12'39
ratragrada	3787 Nov 28 14:29 3787 Dec 06 05:48	0°궁 3° 궁 26'57		retrograde	3788 Nov 18 18:11 3788 Nov 24 13:00	17° ₹ 35'55 15° ₹ 11'01	
retrograde evening set	3787 Dec 06 05:48 3787 Dec 11 10:51	3°626'37 1° る 16'47		evening set min. Earth dist.	3788 Nov 24 13:00 3788 Nov 29 00:17		0.67324 AU
evening set	3787 Dec 11 10:31 3787 Dec 12 19:05	30°R. ₹		inferior conj	3788 Nov 30 02:25	8° х 12°04 8° х 46'57	
asc. node	3787 Dec 12 19:03 3787 Dec 14 08:41	30° ₹ ×' 28° ₹ 11'41		minimum elong	3788 Nov 30 02:25 3788 Nov 30 02:29	8° × ′4637 8° × ′46'44	0°02'48
min. Earth dist.	3787 Dec 14 08:41 3787 Dec 16 05:56	25° х 43'38	0.67833 AU	transit middle	3788 Nov 30 02:29	8° х 46'44	0°02'48
inferior conj	3787 Dec 16 03:30 3787 Dec 16 21:17	23 x 43 38 24° x 51'31	0.07833 AU 0°51'06	transit begin	3788 Nov 29 23:45	8° 🗷 55'40	0 02 70
minimum elong	3787 Dec 16 21:17 3787 Dec 16 20:06	24° 🖈 55'32	0°50'37	transit end	3788 Nov 30 05:13	8° × 33'40	
morning rise	3787 Dec 10 20:00 3787 Dec 22 05:23	18° ₹ 46'56	3 2031	asc. node	3788 Nov 30 05:43	8° × 36'12	
direct	3787 Dec 26 05:05	17° 🖈 16'56		morning rise	3788 Dec 05 16:13	2° × ⁷ 49'21	
						, 21	

direct	3788 Dec 09 03:36	1° ∡ ³39'43		evening set	3789 Nov 08 09:52	28° M 57'55	
morning max el	3788 Dec 16 09:30	5° ∡ ¹44'16	19°31'53	min. Earth dist.	3789 Nov 12 14:06	24° MJ $34'23$	0.66474 AU
greatest brilliancy	3788 Dec 29 13:26	23° ∡ 13′27	-0.7m	inferior conj	3789 Nov 14 03:27	22°M39'56	-1°00'57
	3789 Jan 03 01:05	0°ප		minimum elong	3789 Nov 14 05:06	22°M34'53	1°00'15
desc. node	3789 Jan 06 09:37	5° る 08'13		asc. node	3789 Nov 17 02:46	19°ML14'38	
morning set	3789 Jan 10 03:54	10°る56'05		morning rise	3789 Nov 20 00:53	16°M51'57	
	3789 Jan 22 08:53	0° ≈		direct	3789 Nov 23 02:02	15°M59'10	
max. Earth dist.	3789 Jan 22 19:37	0° ≈ 42′28	1.44530 AU	morning max el	3789 Nov 29 19:25	19° M 41'08	18°41'45
					3789 Dec 07 19:42	0° ∡ ¹	
superior conj	3789 Jan 26 20:49	7° ≈ 09'29	-1°53'14	morning set	3789 Dec 20 20:13	20° ∡ 14'48	
minimum elong	3789 Jan 26 13:36	6° ≈ 40'34	1°52'45	desc. node	3789 Dec 24 06:40	25° ∡ ¹40'21	
evening rise	3789 Feb 09 19:50	0°) €05'11			3789 Dec 27 00:35	0°ප	
	3789 Feb 09 18:36	0° ∀		max. Earth dist.	3790 Jan 05 13:08	14° ප 57'13	1.45199 AU
asc. node	3789 Feb 26 05:01	26° ∺ 01′23					
evening max el	3789 Feb 28 16:24	28° ¥ 50′27	18°19'35	superior conj	3790 Jan 06 02:03	15° る 47'53	-1°20'19
	3789 Mar 01 22:20	0 ° Υ		minimum elong	3790 Jan 05 17:03	15° る 12'37	1°19'19
retrograde	3789 Mar 07 03:15	2° Ƴ 19′05			3790 Jan 15 02:16	0° ≈	
evening set	3789 Mar 10 03:05	1° Y 30'44		evening rise	3790 Jan 21 16:12	10° ≈ 29'21	
	3789 Mar 12 07:04	30° Ŗ ₩		greatest brilliancy	3790 Jan 29 07:44	22° ≈ 44'30	-0.9m
inferior conj	3789 Mar 16 01:55	26°) €06'32	3°37'22		3790 Feb 02 22:51	0° ∀	
minimum elong	3789 Mar 16 02:00	26° ∺ 06'15	3°37'22	evening max el	3790 Feb 12 03:18	12° ₩ 17'57	18°50'02
min. Earth dist.	3789 Mar 18 11:33	23°) €23'35	0.63847 AU	asc. node	3790 Feb 13 02:04	13° ¥ 12'59	
morning rise	3789 Mar 22 00:04	19° ¥ 58'27		retrograde	3790 Feb 18 20:55	16°) €04'01	
direct	3789 Mar 28 20:52	17°) € 12'35		evening set	3790 Feb 22 03:05	15°) €03'06	
desc. node	3789 Apr 04 08:47	19°) 15′23		inferior conj	3790 Feb 27 18:43	9° ¥ 21'33	3°31'20
morning max el	3789 Apr 11 15:07	25°) €09'54	27°37'06	minimum elong	3790 Feb 27 17:25	9°) €25'35	3°31'13
morning man vi	3789 Apr 16 01:09	0°Υ	2, 3, 00	min. Earth dist.	3790 Mar 01 12:42	7°) 11'49	0.65485 AU
	3789 May 06 11:28	0°8		morning rise	3790 Mar 05 07:19	3°) €09'23	0.03 103 110
morning set	3789 May 16 11:43	18° 8 34'15		direct	3790 Mar 11 21:35	0° ∺ 18′25	
max. Earth dist.	3789 May 21 12:30	28° 8 50'51	1.33082 AU	desc. node	3790 Mar 22 05:50	5° ∺ 24'50	
max. Earth dist.	3789 May 22 01:40	0°Ⅱ	1.33062 AU	morning max el	3790 Mar 25 00:55	8° ₩ 02'56	26°50'22
	3789 Way 22 01.40	υд		morning max er	3790 Mai 23 00:33 3790 Apr 11 02:47	0°Υ	20 30 22
superior conj	3789 May 24 09:03	4° ∏ 54'16	0000124		3790 Apr 28 20:28	0°8	
minimum elong	3789 May 24 09:09	4° Π 56'31		mamina aat	3790 Apr 29 21:05	1° 8 56'50	
_	3789 May 24 04:52	4° П 30'31	0 08 19	morning set max. Earth dist.	•	10° 8 25'42	1.34274 AU
behind sun begin	•	5° П 21'13		max. Earth dist.	3790 May 04 04:59	10°025'42	1.34274 AU
behind sun end	3789 May 24 14:05	5° П 21'13 6° П 37'29			2700 M 00 10-02	100 402127	0027100
asc. node	3789 May 25 04:18	6°Щ3/29 20°Щ08'33		superior conj	3790 May 08 10:03	19° 8 02'37	
evening rise	3789 May 31 11:25			minimum elong	3790 May 08 12:00	19° 8 12'47	0°36'45
·	3789 Jun 05 07:02	0.200000	22051117	asc. node	3790 May 12 01:22	26° 8 41'00	
evening max el	3789 Jun 22 18:27	26°509'30	22°51'17		3790 May 13 15:05	0°Ⅱ 4°Ⅲ44120	
1 1	3789 Jun 27 12:15	0°N		evening rise	3790 May 15 21:20	4° Ⅱ 44'30	
desc. node	3789 Jul 01 08:04	1° Ω 55'49			3790 May 29 21:39	0°95	21010110
retrograde	3789 Jul 06 01:52	2°Ω47'14		evening max el	3790 Jun 04 14:28	6°5946'48	21°19'10
evening set	3789 Jul 09 11:58	2° Ω 21'36		retrograde	3790 Jun 16 15:39	12°541'54	
	3789 Jul 15 06:54	30° ₹ 5		desc. node	3790 Jun 18 05:03	12° © 36'15	
min. Earth dist.	3789 Jul 17 03:02		0.55391 AU	evening set	3790 Jun 18 23:33	12° © 29'25	
inferior conj	3789 Jul 18 14:30	28°507'43		inferior conj	3790 Jun 28 08:43	8°530'30	
minimum elong	3789 Jul 18 06:55	28°5018'41	4°23'01	minimum elong	3790 Jun 28 01:04	8°541'12	
morning rise	3789 Jul 27 04:05	24°516'18		min. Earth dist.	3790 Jun 28 14:10	8°522'51	0.54839 AU
direct	3789 Jul 30 02:57	23° © 55'54		morning rise	3790 Jul 07 03:09	4° © 34'00	
morning max el	3789 Aug 10 04:47	29° © 04'39	20°47'00	direct	3790 Jul 10 12:55	4°9508'51	
	3789 Aug 11 03:42	0 \circ Ω		morning max el	3790 Jul 23 03:28	10°907'24	22°20'53
asc. node	3789 Aug 21 03:33	13° Ω 48'35			3790 Aug 06 11:03	0 \circ Ω	
morning set	3789 Aug 29 11:02	29° Ω 47'43		asc. node	3790 Aug 08 00:37	2° Ω 53'44	
	3789 Aug 29 13:25	0° m		morning set	3790 Aug 13 21:18	14° Ω 38'39	
	2500 G 05 55 5		104465		2500 4 21 22 23	200 2	10.40:50
superior conj	3789 Sep 05 22:26	15° Mp 17'19		superior conj	3790 Aug 21 00:56	29° Ω 50′26	1°40'20
minimum elong	3789 Sep 05 22:18	15° Mp 16'37		minimum elong	3790 Aug 20 23:34	29° Ω 43'15	1°40'14
max. Earth dist.	3789 Sep 10 16:14	24° m 47'54	1.35865 AU	_	3790 Aug 21 02:44	0° m)	
	3789 Sep 13 09:02	0∘ ⊽		max. Earth dist.	3790 Aug 24 08:36	6° Mp 46'42	1.34303 AU
evening rise	3789 Sep 14 17:35	2° ≏ 32'54		evening rise	3790 Aug 29 00:12	16° Mp 06'23	
desc. node	3789 Sep 27 07:26	24° £ 10′13			3790 Sep 05 12:30	0∘ ⊽	
	3789 Oct 01 02:14	0° M		desc. node	3790 Sep 14 04:27	14° ≙ 12'21	
evening max el	3789 Oct 20 07:50	24°M23'11	26°18'01		3790 Sep 25 14:32	0° M .	
	3789 Oct 27 14:14	0° ∡ 7		evening max el	3790 Oct 02 20:32	7° M 57'43	27°04'44
retrograde	3789 Nov 02 01:34	1° х ³34′03		retrograde	3790 Oct 16 03:12	15°M14'45	
	3789 Nov 07 00:22	30°RM		evening set	3790 Oct 22 23:14	12°M33'15	

min. Earth dist. inferior conj minimum elong asc. node	3790 Oct 26 20:59 3790 Oct 28 22:16 3790 Oct 29 01:41 3790 Nov 03 23:48	8°M45'33 6°M26'20 6°M16'42 0°M57'36		min. Earth dist. inferior conj minimum elong morning rise	3791 Oct 09 18:39 3791 Oct 12 08:18 3791 Oct 12 13:19 3791 Oct 19 01:42	22° \(\Omega \) 36'46 19° \(\Omega \) 59'26 19° \(\Omega \) 46'34 14° \(\Omega \) 40'23	
morning rise	3790 Nov 04 05:02	0°M51'04 0°M11'20		direct asc. node	3791 Oct 21 13:22	14° £ 10'04	
direct morning max el	3790 Nov 06 22:12 3790 Nov 13 10:05	3°M40'28	18°08'10	morning max el	3791 Oct 21 20:52 3791 Oct 28 02:40	14° £ 10'33 17° £ 35'11	17°51'50
morning set	3790 Dec 01 02:44 3790 Dec 01 17:59	0° ₰ 1° ₰ 02'42		morning set	3791 Nov 06 01:26 3791 Nov 13 18:20	0°M 13°M07'34	
desc. node	3790 Dec 11 03:45	16° ₰ 21'29			3791 Nov 23 16:43	0° ≯	
superior conj minimum elong	3790 Dec 16 06:47 3790 Dec 16 02:25	24° х 31′58 24° х 14′43		superior conj minimum elong	3791 Nov 26 06:14 3791 Nov 26 07:33	4° ∡ 13'45 4° ∡ 19'10	0°12'15 0°12'02
max. Earth dist.	3790 Dec 19 08:48	29° х 24'02	1.45124 AU	behind sun begin	3791 Nov 26 00:59	3° ₹ 52'13	0 12 02
	3790 Dec 19 17:56	8°0		behind sun end	3791 Nov 26 14:07	4° ∡ °46′05	
evening rise	3791 Jan 01 14:59	20° පි 04'33		desc. node	3791 Nov 28 00:46	7° ₹ 07'21	
areatest brillianav	3791 Jan 08 00:57	0°≈ 0°≈•43!37	0.7	max. Earth dist.	3791 Dec 02 03:00 3791 Dec 12 01:09	13° × ⁷ 42'35	1.44318 AU
greatest brilliancy evening max el	3791 Jan 14 09:54 3791 Jan 26 10:22	9°≈43'27 25°≈49'00	-0.7m 19°37'05	evening rise	3791 Dec 12 01:09 3791 Dec 12 13:03	29° メ 14'14 0°る	
asc. node	3791 Jan 30 23:05	29°≈20'55	17 07 00		3792 Jan 01 20:48	0° ≈	
	3791 Feb 02 01:17	0° ∀		evening max el	3792 Jan 09 12:08	9° ≈ 21'14	20°38'41
retrograde	3791 Feb 02 18:04	0° ₩ 02'45		retrograde	3792 Jan 17 16:15	14°≈10'32	
	3791 Feb 03 10:41	30°R≈		asc. node	3792 Jan 17 20:06	14°≈10'23	
evening set inferior conj	3791 Feb 06 07:40 3791 Feb 11 18:47	28°≈48'15 22°≈51'26	3°12'10	evening set inferior conj	3792 Jan 21 14:43 3792 Jan 26 23:31	12°≈41'29 6°≈32'09	2°42'44
minimum elong	3791 Feb 11 16:37	22°≈58'34	3°11'46	minimum elong	3792 Jan 26 21:02	6°≈40'41	2°42'03
min. Earth dist.	3791 Feb 12 21:55	21° ≈ 22'06	0.66710 AU	min. Earth dist.	3792 Jan 27 13:20	5° ≈ 44'52	0.67510 AU
morning rise	3791 Feb 17 01:21	16° ≈ 37'46		morning rise	3792 Feb 01 03:10	0° ≈ 18'40	
direct	3791 Feb 23 04:10	13° ≈ 54'17			3792 Feb 01 11:43	30°Rる	
morning max el	3791 Mar 07 10:13	21°≈12'13	25°39'33	direct	3792 Feb 06 15:55	27°る51'35 0°≈	
desc. node	3791 Mar 09 02:54 3791 Mar 15 01:20	22°≈58'43 0° 米		morning max el	3792 Feb 12 12:35 3792 Feb 17 18:52	0°≈ 4°≈29'55	24°14'38
	3791 Apr 04 07:48	0° Υ		desc. node	3792 Feb 23 23:58	11°≈32'50	24 1430
morning set	3791 Apr 12 15:45	14° Ƴ 32'32			3792 Mar 08 09:15	0°) €	
max. Earth dist.	3791 Apr 16 10:12	21° Y 34'08	1.35925 AU	morning set	3792 Mar 24 14:15	26° ∺ 06′50	
	3791 Apr 20 18:17	9° 8			3792 Mar 26 19:24	0°Υ	
	2701 A 22 02:46	20 4 2101	1907100	max. Earth dist.	3792 Mar 28 07:10	2° Ƴ 39'46	1.37940 AU
superior conj minimum elong	3791 Apr 22 02:46 3791 Apr 22 06:16	2° 8 42'01 2° 8 59'34		superior conj	3792 Apr 04 07:54	15° Ƴ 44'03	-1°32'48
asc. node	3791 Apr 28 22:24	16° 8 35'55	1 00 2 1	minimum elong	3792 Apr 04 12:29	16° Υ 06'00	
evening rise	3791 Apr 30 03:24	19° 8 03'57		C	3792 Apr 11 14:44	9° 8	
	3791 May 05 16:33	$\Pi^{\circ}0$		evening rise	3792 Apr 13 03:09	3° 8 00'09	
evening max el	3791 May 17 21:53	17° Ⅱ 58'27	20°01'50	asc. node	3792 Apr 14 19:26	6° 8 18'03	
retrograde evening set	3791 May 28 06:22 3791 May 30 05:28	23° Ⅱ 01'03 22° Ⅱ 50'58		evening max el	3792 Apr 29 17:06 3792 Apr 29 20:32	29° ႘ 51'42 0° Ⅱ	19°03'52
desc. node	3791 Jun 05 02:05	22 ∏ 30 38 20° ∏ 39'44		retrograde	3792 Apr 29 20:32 3792 May 08 10:24	0 H 4°Ⅱ06'47	
inferior conj	3791 Jun 08 05:22	18° Ⅱ 51'09	-0°55'43	evening set	3792 May 10 12:10	3° Ⅲ 53′21	
minimum elong	3791 Jun 08 02:46	18° Ⅱ 55'03	0°54'44		3792 May 18 06:01	30° ₹ 8	
min. Earth dist.	3791 Jun 10 02:44	17° Ⅱ 43'04	0.55250 AU	inferior conj	3792 May 18 17:40	29° 8 39'57	
morning rise	3791 Jun 16 22:20	14° II 30'03		minimum elong	3792 May 18 19:49	29° 8 36'13	0°54'51
direct morning max el	3791 Jun 21 01:31 3791 Jul 04 18:51	13° Ⅱ 52'49 20° Ⅱ 38'05	24°03'59	desc. node min. Earth dist.	3792 May 21 23:06 3792 May 21 18:07	27° 8 27'15 27° 8 35'29	0.56547 AU
morning max cr	3791 Jul 12 19:11	0°9	24 0337	morning rise	3792 May 27 00:17	24° 8 43'13	0.30347 AO
asc. node	3791 Jul 25 21:40	22°523'23		direct	3792 Jun 01 02:38	23° 8 42'06	
morning set	3791 Jul 29 08:59	29°533'04			3792 Jun 14 06:10	$\Pi^{\circ}0$	
	3791 Jul 29 14:05	0 $^{\circ}$ Ω		morning max el	3792 Jun 15 09:17	1° Ⅱ 03'05	25°41'49
gunorier cor-	2701 Ave 05 00:26	140 027140	1020121	aga nada	3792 Jul 05 15:03	0°ಅ 12°೯10'41	
superior conj minimum elong	3791 Aug 05 08:36 3791 Aug 05 06:30	14° Ω 37'48 14° Ω 26'25	1°30'21 1°30'08	asc. node morning set	3792 Jul 11 18:43 3792 Jul 12 20:28	12°©10'41 14°©25'51	
max. Earth dist.	3791 Aug 03 00:30 3791 Aug 07 09:45	14 8ℓ 20 23	1.33139 AU	morning set	3172 3ul 12 20.20	17 🛥 🗘 🕽 1	
evening rise	3791 Aug 12 18:09	0° mp 11'53		superior conj	3792 Jul 19 19:17	29°532'26	1°15'24
	3791 Aug 12 15:48	0° m		minimum elong	3792 Jul 19 16:56	29° © 19'33	1°15'04
	3791 Aug 29 12:57	0∘ ⊽			3792 Jul 20 00:18	0°Ω	
desc. node	3791 Sep 01 01:26	3° <u>₽</u> 45'48	27925157	max. Earth dist.	3792 Jul 20 17:36	1° Ω 34'50	1.32392 AU
evening max el retrograde	3791 Sep 15 07:52 3791 Sep 28 22:41	21° △ 11'48 28° △ 28'49	27°25'56	evening rise	3792 Jul 26 20:10 3792 Aug 03 16:24	14° Ω 39'55 0° m	
evening set	3791 Sep 28 22:41 3791 Oct 06 02:16	25° £ 50'53		desc. node	3792 Aug 03 10:24 3792 Aug 17 22:25	22° Mp 38'44	
<i>3</i>						4	

	3792 Aug 23 21:31	0∘ ত		evening max el	3793 Aug 09 17:20	15° m 49'29	26°33'07
evening max el	3792 Aug 27 15:35	3° ≏ 52'34	27°16'10	retrograde	3793 Aug 23 16:26	23° m 00'12	
retrograde	3792 Sep 10 11:31	11° ≏ 06'56		evening set	3793 Aug 30 09:45	21° m 06'36	
evening set	3792 Sep 17 15:19	8° £ 44'33		min. Earth dist.	3793 Sep 03 07:00	18° Mp 30'56	0.59829 AU
min. Earth dist.	3792 Sep 21 05:55	5° ჲ 56'36	0.61880 AU	inferior conj	3793 Sep 06 13:26	15° m 55'31	-4°45'16
inferior conj	3792 Sep 24 06:30	3° ≏ 12'06	-3°59'20	minimum elong	3793 Sep 06 18:23	15° m 45'40	4°44'29
minimum elong	3792 Sep 24 12:23	2° ჲ 58'43	3°57'46	morning rise	3793 Sep 14 05:06	11°M(17'56	
	3792 Sep 28 02:39	30°R Mp		direct	3793 Sep 16 14:16	10° ™ 57'19	
morning rise	3792 Oct 01 11:12	28°M 12'31		morning max el	3793 Sep 24 05:11	14° Mp 40'20	18°14'57
direct	3792 Oct 03 20:03	27° m 48'27		asc. node	3793 Sep 24 14:58	15° m 04'30	
asc. node	3792 Oct 07 17:55	28° Mp 56'28			3793 Oct 04 18:17	0∘ ত	
	3792 Oct 09 06:59	0∘ ⊽		morning set	3793 Oct 10 02:15	9° ≏ 54'48	
morning max el	3792 Oct 10 18:08	1° ≏ 18'01	17°53'40			_	
morning set	3792 Oct 26 14:59	26° ⊆ 10'16		superior conj	3793 Oct 19 11:11	27° £ 26′28	1°19'02
	3792 Oct 28 17:44	0°M		minimum elong	3793 Oct 19 15:05	27° £ 44'10	1°18'37
	2702) 4 0 0 00	1.50 M 1.2157	0051110	TO ALLEY	3793 Oct 20 21:10	0°M	1 41005 411
superior conj	3792 Nov 06 08:20	15°M13'57		max. Earth dist.	3793 Oct 27 01:31	10°M48'36	1.41025 AU
minimum elong	3792 Nov 06 12:20	15°M31'10	0°50'38	evening rise	3793 Oct 31 21:19	18°M.51'01	
max. Earth dist.	3792 Nov 13 16:53	27°M34'46	1.42892 AU	desc. node	3793 Oct 31 18:46 3793 Nov 07 21:55	18° M .40'34 0° ∡ 7	
desc. node	3792 Nov 13 21:46 3792 Nov 15 04:33	27°M54'43 0°⊀			3793 Nov 07 21:55 3793 Nov 29 05:15	0° ਨ	
ovening rise	3792 Nov 13 04.33 3792 Nov 20 14:27	0 x . 8° x 37'34		ovening may al	3793 Nov 29 03:13 3793 Dec 05 00:06	6° る 30'34	22010/24
evening rise	3792 Nov 20 14.27 3792 Dec 04 18:12	。x・3/34 0°る		evening max el retrograde	3793 Dec 03 00.06 3793 Dec 15 07:57	12° る 30'34	23 10 24
evening max el	3792 Dec 04 18.12 3792 Dec 22 08:20	0 පි 22°පි54'11	21°51'24	evening set	3793 Dec 13 07.37 3793 Dec 20 05:14	12 33 737 10° る 37'00	
retrograde	3792 Dec 22 08:20 3792 Dec 31 13:24	28° පි 23'04	21 31 24	asc. node	3793 Dec 20 03:14 3793 Dec 21 14:10	9° ප 18'45	
asc. node	3793 Jan 03 17:08	27° පි 29'17		min. Earth dist.	3793 Dec 25 05:25	4° ප 44'26	0.67967 AU
evening set	3793 Jan 03 17:06 3793 Jan 04 22:26	26° පි 38'30		inferior conj	3793 Dec 25 03:23	4° ප 13'06	1°19'50
inferior conj	3793 Jan 10 06:43	20° る 19'58	2°04'50	minimum elong	3793 Dec 25 12:48	4°る19'02	1°19'10
minimum elong	3793 Jan 10 04:23	20° る 28'05	2°04'01		3793 Dec 28 21:02	30°R. ✓	
min. Earth dist.	3793 Jan 10 08:37	20° ට 13'21	0.67920 AU	morning rise	3793 Dec 30 20:16	28° ₹ 05'12	
morning rise	3793 Jan 15 10:11	14° පි 08'21		direct	3794 Jan 04 03:49	26° ≯ 22'10	
direct	3793 Jan 20 08:06	12° る 02'29			3794 Jan 11 08:07	0°ರ	
morning max el	3793 Jan 30 04:45	17° る 52'42	22°45'34	morning max el	3794 Jan 12 19:29	1° る 24'12	21°21'12
	3793 Feb 09 06:21	0° ≈		desc. node	3794 Jan 27 18:01	20° る 36'44	
desc. node	3793 Feb 09 20:59	0° ≈ 49′20			3794 Feb 03 03:04	0° ≈	
	3793 Mar 01 12:03	0° ∀		morning set	3794 Feb 13 01:43	15° ≈ 18′22	
morning set	3793 Mar 05 10:21	6°) €23'03		max. Earth dist.	3794 Feb 20 03:21	26° ≈ 41′24	1.42180 AU
max. Earth dist.	3793 Mar 10 02:30	14° ∺ 13'51	1.40117 AU		3794 Feb 22 03:22	0° ∀	
		>/				22/12/2	
superior conj	3793 Mar 17 21:04	27°) 57'07		superior conj	3794 Feb 27 13:16	9° ₩ 10'07	
minimum elong	3793 Mar 18 01:24	28° 升 16'52 0° ⋎	1°54'05	minimum elong	3794 Feb 27 14:53	9° 升 17′02	2°06'24
	3793 Mar 18 23:57	16° Υ 24'01		evening rise	3794 Mar 10 18:26	29° 米 07'06 0° Ƴ	
evening rise	3793 Mar 27 17:25	25° Υ 41'29		aga mada	3794 Mar 11 06:05 3794 Mar 19 13:28	14° Υ 39'55	
asc. node	3793 Apr 01 16:27 3793 Apr 04 02:32	0° 8		asc. node evening max el	3794 Mar 27 07:39	25° Υ 16'42	18°08'32
evening max el	3793 Apr 04 02:32 3793 Apr 12 21:30	12° 8 20'47	18°26'15	retrograde	3794 Apr 03 01:10	28° Υ 41'43	10 00 32
retrograde	3793 Apr 20 09:00	16° 8 02'35	10 20 15	evening set	3794 Apr 05 01:16	28° Υ 11'08	
evening set	3793 Apr 22 17:18	15° 8 41'50		inferior conj	3794 Apr 12 09:06	23° Υ 17'32	3°09'21
inferior conj	3793 Apr 30 03:11		2°18'31	minimum elong	3794 Apr 12 11:56	23° Y 10'51	3°08'51
minimum elong	3793 Apr 30 06:54	11° 8 01'34	2°17'29	min. Earth dist.	3794 Apr 15 15:34	20° Ƴ 14'45	0.60638 AU
min. Earth dist.	3793 May 03 13:44	8° 8 23'28	0.58462 AU	morning rise	3794 Apr 19 05:49	17° Y 26'53	
morning rise	3793 May 07 17:25	5° 8 40'19		direct	3794 Apr 25 21:47	15° Ƴ 17'05	
desc. node	3793 May 08 20:08	5° 8 08'47		desc. node	3794 Apr 25 17:11	15° Ƴ 17'11	
direct	3793 May 13 18:15	4° 8 05'16		morning max el	3794 May 10 04:15	23° Y 11'24	27°42'54
morning max el	3793 May 28 03:40	11° 8 48'20	26°58'41		3794 May 16 06:01	9° 8	
	3793 Jun 11 08:28	Π °0			3794 Jun 04 12:23	$\Pi^{\circ}0$	
morning set	3793 Jun 27 06:05	29° Ⅱ 11'21		morning set	3794 Jun 11 12:06	13° Ⅱ 43'51	
	3793 Jun 27 15:20	0ಂತಾ		asc. node	3794 Jun 15 12:46	22° I 15'23	
asc. node	3793 Jun 28 15:45	2° 5 09'34		max. Earth dist.	3794 Jun 17 15:55	26° Ⅱ 53'36	1.32126 AU
superior conj	3793 Jul 04 07:04	14°527'46		superior conj	3794 Jun 18 18:15	29° Ⅱ 17'59	0°33'22
minimum elong	3793 Jul 04 04:57	14°5016'05	0°55'49	minimum elong	3794 Jun 18 16:49	29° Ⅱ 10'03	0°33'04
max. Earth dist.	3793 Jul 04 04:50	14°5015'24	1.32055 AU		3794 Jun 19 01:54	0°95	
evening rise	3793 Jul 11 03:35	29°522'06		evening rise	3794 Jun 25 14:12	14°©11'17	
	3793 Jul 11 10:47	0° Ω		avanina ma1	3794 Jul 03 12:07	0° Ω 26° Ω58'40	25010151
desc. node	3793 Jul 27 23:06 3793 Aug 04 19:25	0° т р 10° т р 34'34		evening max el desc. node	3794 Jul 22 11:50 3794 Jul 22 16:26	26° Ω 58'49 27° Ω 09'45	23 1931
dese. Houc	3173 Aug 04 17.23	10 J4 J4 J4		dese. Houc	3177 Jul 44 10.40	21 060743	

	3794 Jul 26 00:43	0° m y			3795 Jun 10 13:13	0°©	
retrograde	3794 Aug 05 11:11	4° Mp 04'05			3795 Jun 27 12:59	0°Ω	
evening set	3794 Aug 11 04:54	2° Mp 48'00	0.55000 444	evening max el	3795 Jul 04 01:13	7° Ω 32'10	23°47'11
min. Earth dist.	3794 Aug 15 23:40	0° Mp 06'44	0.57802 AU	desc. node	3795 Jul 09 13:28	11° Ω 53'32	
: 6:	3794 Aug 16 03:43	30°RΩ	E0001E4	retrograde	3795 Jul 17 17:48 3795 Jul 22 01:02	14° Ω 24'48	
inferior conj minimum elong	3794 Aug 19 01:42 3794 Aug 19 02:49	27° Ω 59'35 27° Ω 57'40		evening set min. Earth dist.	3795 Jul 22 01:02 3795 Jul 28 11:23	13°Ω44'06 10°Ω40'28	0.56098 AU
morning rise	3794 Aug 19 02.49 3794 Aug 27 03:04	27 δι 3740 23° Ω 44'35	3 08 32	inferior conj	3795 Jul 28 11.23 3795 Jul 30 17:48	9° Ω 18'14	
direct	3794 Aug 27 03:04 3794 Aug 29 15:49	23° Ω 25'13		minimum elong	3795 Jul 30 17:48 3795 Jul 30 12:56	9° Ω 25'38	
morning max el	3794 Sep 07 08:29	27° Ω 31'57	18°57'06	morning rise	3795 Aug 08 03:23	5° Ω 21'52	7 3717
morning max cr	3794 Sep 09 16:07	0° m)	10 37 00	direct	3795 Aug 10 22:09	5°Ω02'17	
asc. node	3794 Sep 11 12:01	2° Mp 19'04		morning max el	3795 Aug 21 01:15	9° Ω 44'25	20°00'55
morning set	3794 Sep 23 23:36	24° mp 07'58		asc. node	3795 Aug 29 09:04	20° Ω 26'03	20 00 33
morning sec	3794 Sep 26 22:56	0° ⊽		use. noue	3795 Sep 03 18:32	0° m)	
	r			morning set	3795 Sep 08 03:48	8° m) 41'07	
superior conj	3794 Oct 02 09:21	10° ≏ 35'26	1°36'04	Ü	1	•	
minimum elong	3794 Oct 02 11:49	10° ≏ 47'13	1°35'54	superior conj	3795 Sep 15 21:41	24° Tp 26'33	1°43'41
max. Earth dist.	3794 Oct 09 06:34	23° Ω 20'48	1.38951 AU	minimum elong	3795 Sep 15 22:27	24° m/30′20	1°43'40
evening rise	3794 Oct 13 03:25	0°M07'53		Č	3795 Sep 18 17:07	0∘ ⊽	
•	3794 Oct 13 01:35	0°M		max. Earth dist.	3795 Sep 21 12:02	5° £ 21'47	1.36924 AU
desc. node	3794 Oct 18 15:47	9° ™ 20'35		evening rise	3795 Sep 25 07:35	12° ≏ 25'51	
	3794 Nov 01 06:33	0° ∡ ¹		desc. node	3795 Oct 05 12:48	29° ჲ 50′26	
evening max el	3794 Nov 17 13:18	20° ∡ 10'40	24°29'41		3795 Oct 05 15:12	0° M	
retrograde	3794 Nov 28 22:41	26° ∡ ¹49'51			3795 Oct 27 08:54	0° ∡	
evening set	3794 Dec 04 09:33	24° ∡ ³33′22		evening max el	3795 Oct 31 01:37	3° х 52'44	25°42'12
asc. node	3794 Dec 08 11:13	20° ₹ 01'02		retrograde	3795 Nov 12 08:51	10° ₹ 55'00	
min. Earth dist.	3794 Dec 09 01:17	19° ∤ 14'36	0.67663 AU	evening set	3795 Nov 18 09:40	8° ≯ 24'38	
inferior conj	3794 Dec 09 21:08	18° ∡ 08'18	0°28'51	min. Earth dist.	3795 Nov 22 17:53	3° х 40′52	0.67011 AU
minimum elong	3794 Dec 09 20:26	18° ∡ 10'37	0°28'34	inferior conj	3795 Nov 24 00:44	2° х °02'48	-0°27'03
morning rise	3794 Dec 15 07:24	12° ∡ 06′19		minimum elong	3795 Nov 24 01:27	2° ≯ 00'33	0°26'44
direct	3794 Dec 19 01:45	10° ∡ ¹45'07		asc. node	3795 Nov 25 08:17	0° ≯ 24'03	
morning max el	3794 Dec 26 17:49	15° ∡ ′07'06	20°07'46		3795 Nov 25 16:14	30°RM₊	
	3795 Jan 07 08:17	0° ろ		morning rise	3795 Nov 29 17:34	26° ™ 09'10	
desc. node	3795 Jan 14 15:03	10°る46'10		direct	3795 Dec 03 00:25	25°M07'06	10000120
morning set	3795 Jan 22 22:46	23°る28'05		morning max el	3795 Dec 09 24:00	29°M00'20	19°08'38
Fauth diet	3795 Jan 27 03:38 3795 Feb 02 12:26	0° ≈ 10° ≈ 04'06	1 4204C ATT		3795 Dec 10 22:52	0°る	
max. Earth dist.	3/93 Feb 02 12:26	10 2 ∞ 04 06	1.43846 AU	daga mada	3795 Dec 31 17:43	0°る 1°る11'26	
aumorior aoni	2705 Eab 09 04:12	19° ≈ 13'47	2002120	desc. node	3796 Jan 01 12:06 3796 Jan 02 01:45	2°る04'32	
superior conj minimum elong	3795 Feb 08 04:12 3795 Feb 08 00:17	19 ≈1347 18°≈57'44		morning set max. Earth dist.	3796 Jan 02 01.43		1.44907 AU
minimum ciong	3795 Feb 08 00:17 3795 Feb 14 15:27	0°)	2 03 22	max. Earth dist.	3790 Jan 10 03.33	24 000 02	1.44907 AO
evening rise	3795 Feb 21 01:54	11° ∺ 00'46		superior conj	3796 Jan 18 18:41	28° る 13'53	-1°41'27
evening 1130	3795 Mar 04 08:37	0° Υ		minimum elong	3796 Jan 18 09:52	20 3 13 53 27° 3 38'59	
asc. node	3795 Mar 04 00:37	3°Υ05'22		minimum ciong	3796 Jan 19 21:28	0°≈	1 4040
evening max el	3795 Mar 10 20:16	8° Υ 30'18	18°10'08	evening rise	3796 Feb 02 11:48	21°≈58'33	
retrograde	3795 Mar 17 06:44	11° Y 53'45			3796 Feb 07 08:49	0° ∀	
evening set	3795 Mar 20 03:21	11° Y °12'02		asc. node	3796 Feb 21 07:33	20°) (47'34	
inferior conj	3795 Mar 26 07:45	5° Ƴ 58'19	3°33'15	evening max el	3796 Feb 22 08:27	21°) 54'06	18°30'19
minimum elong	3795 Mar 26 08:50	5° Y 55'25	3°33'12	retrograde	3796 Feb 28 21:13	25° ¥ 28'59	
min. Earth dist.	3795 Mar 29 01:54	3° Y ′02'46	0.62749 AU	evening set	3796 Mar 02 23:39	24°) ₹35′20	
	3795 Apr 01 10:23	30° ₹ ₩		inferior conj	3796 Mar 08 19:00	19°) €03'12	3°36'39
morning rise	3795 Apr 01 13:08	29° ¥ 54'47		minimum elong	3796 Mar 08 18:27	19°) 04′51	3°36'38
direct	3795 Apr 08 10:36	27° ¥ 18'42		min. Earth dist.	3796 Mar 10 21:52	16°) 33′18	0.64590 AU
desc. node	3795 Apr 12 14:14	28°) €08'47		morning rise	3796 Mar 14 12:39	12° ¥ 52'51	
	3795 Apr 16 03:02	0 ° Υ		direct	3796 Mar 21 07:15	10°) €03'27	
morning max el	3795 Apr 22 10:33	5° Y 16'48	27°49'45	desc. node	3796 Mar 29 11:17	13° ∺ 16′17	
	3795 May 11 01:29	0°8		morning max el	3796 Apr 03 20:05	17° ¥ 56'45	27°20'50
morning set	3795 May 26 12:25	27° 8 56'55			3796 Apr 13 22:51	0° Υ	
	3795 May 27 12:39	0°Щ			3796 May 02 22:52	0°8	
max. Earth dist.	3795 May 31 23:00		1.32611 AU	morning set	3796 May 09 04:13	11° 8 41'01	
asc. node	3795 Jun 02 09:49	12° Ⅱ 23'57		max. Earth dist.	3796 May 13 21:56	21° 8 12'05	1.33535 AU
	0505 Y 05 11 1	100	000		250(): 15 := ::	2001 1	0000:00
superior conj	3795 Jun 03 03:05	13° I 57'25		superior conj	3796 May 17 07:33	28° 8 18'45	
minimum elong	3795 Jun 03 02:44	13° ∏ 55'27	0°07'28	minimum elong	3796 May 17 08:36	28° 8 24'18	0°20'15
behind sun begin	3795 Jun 02 22:05	13° ∏ 30'19		1	3796 May 18 02:38	0°Π 2°Π20/20	
behind sun end	3795 Jun 03 07:22	14° Ⅱ 20'36		asc. node	3796 May 19 06:50	2°∏30′20	
evening rise	3795 Jun 10 02:04	29° Ⅱ 01'00		evening rise	3796 May 24 13:14	13° Ⅱ 43'41	

	3796 Jun 01 19:37	0ං ම			3797 May 09 18:30	$\Pi^{\circ}0$	
evening max el	3796 Jun 14 16:19	17° © 57'38	22°10'41	evening max el	3797 May 27 16:48	28° ∏ 47'42	20°44'00
desc. node	3796 Jun 25 10:30	24° 5 09'56			3797 May 29 00:12	0 \circ \odot	
retrograde	3796 Jun 27 12:47	24° © 20'05		retrograde	3797 Jun 08 01:41	4° 5 21'01	
evening set	3796 Jun 30 09:50	24° © 01'42		evening set	3797 Jun 10 03:30	4° 5 010'38	
min. Earth dist.	3796 Jul 08 22:00	20°922'07	0.55043 AU	desc. node	3797 Jun 12 07:31	3° 5 39'07	
inferior conj	3796 Jul 09 17:04	19° © 55'17	-3°51'21	inferior conj	3797 Jun 19 10:28	0° © 13'18	-2°05'03
minimum elong	3796 Jul 09 08:38	20°907'10	3°49'10	minimum elong	3797 Jun 19 04:38	0° 5 21'38	2°02'59
morning rise	3796 Jul 18 09:16	16° © 04'31			3797 Jun 19 19:45	30°Ŗ Ⅱ	
direct	3796 Jul 21 12:00	15° © 42'52		min. Earth dist.	3797 Jun 20 09:55	29° Ⅱ 39'46	0.54896 AU
morning max el	3796 Aug 02 06:16	21° © 12'01	21°25'12	morning rise	3797 Jun 28 05:15	26° Ⅱ 08'01	
	3796 Aug 09 14:56	$0 ^{\circ} \Omega$		direct	3797 Jul 01 21:19	25° Ⅱ 39′00	
asc. node	3796 Aug 15 06:07	9° Ω 12'27			3797 Jul 12 17:56	0	
morning set	3796 Aug 22 12:24	23° Ω 26'42		morning max el	3797 Jul 15 01:18	1° 9 59'07	23°04'20
	3796 Aug 25 15:29	0° т р		asc. node	3797 Aug 02 03:09	28° © 28'32	
					3797 Aug 02 21:49	0 ° Ω	
superior conj	3796 Aug 29 19:57	8° Mp 47'00	1°43'28	morning set	3797 Aug 06 23:24	8° Ω 19'12	
minimum elong	3796 Aug 29 19:14	8° m 43'19	1°43'27			_	
max. Earth dist.	3796 Sep 02 23:02	17° m 13'08	1.35148 AU	superior conj	3797 Aug 14 00:55	23° Ω 26'57	1°36'45
evening rise	3796 Sep 07 05:46	25° m 34'32		minimum elong	3797 Aug 13 23:11	23°Ω17'40	1°36'37
	3796 Sep 09 14:29	0∘ ⊽		max. Earth dist.	3797 Aug 16 18:54	29° Ω 16'40	1.33753 AU
desc. node	3796 Sep 21 09:50	20° £ 04'26			3797 Aug 17 03:11	0° m)	
	3796 Sep 28 02:08	0°M	2 (0 40)22	evening rise	3797 Aug 21 17:37	9° m 22'39	
evening max el	3796 Oct 12 14:01	17°M31'36	26°40'33		3797 Sep 02 00:47	0∘ ⊽	
retrograde	3796 Oct 25 13:56	24°M46'44		desc. node	3797 Sep 08 06:51	9° Ω 55'17	
evening set	3796 Nov 01 03:40	22°M07'03	0.66004.444		3797 Sep 24 02:19	0°M	25015120
min. Earth dist.	3796 Nov 05 04:55	17°M59'06	0.66004 AU	evening max el	3797 Sep 25 02:13	0°M58'15	2/°1/20
inferior conj	3796 Nov 06 23:23	15°M53'08		retrograde	3797 Oct 08 13:15	8°M16'44	
minimum elong	3796 Nov 07 01:46	15°M46'03 11°M24'32	1°25'31	evening set	3797 Oct 15 13:01	5°M35'25	0.64652.411
asc. node morning rise	3796 Nov 11 05:20 3796 Nov 13 00:37	11°1162432		min. Earth dist.	3797 Oct 19 08:11 3797 Oct 21 05:20	2°M02'25 30°R ≏	0.64652 AU
direct	3796 Nov 15 00.37 3796 Nov 15 22:01	9°M23'51		inferior conj	3797 Oct 21 03:20 3797 Oct 21 14:46	30 K== 29° £ 34'15	2027/40
morning max el	3796 Nov 22 12:19	12°M59'17	18°25'28	minimum elong	3797 Oct 21 14:46 3797 Oct 21 18:55	29° £ 23'00	
morning max ci	3796 Nov 22 12:19 3796 Dec 04 18:13	0° √	18 23 28	morning rise	3797 Oct 21 18:55 3797 Oct 28 01:56	24° £ 05'30	2 20 00
morning set	3796 Dec 12 06:17	12° × ⁷ 00'42		asc. node	3797 Oct 29 02:23	23° Ω 43'27	
desc. node	3796 Dec 18 09:08	21° × ⁷ 47'50		direct	3797 Oct 29 02:29 3797 Oct 30 16:19	23° ⊆ 30'21	
dese. Hode	3796 Dec 23 13:25	0°る		morning max el	3797 Nov 06 04:09	26° ⊆ 57'10	17°59'03
	37,70 200 23 13.20	° C		morning man vi	3797 Nov 08 20:15	0°M	1, 6, 05
superior conj	3796 Dec 27 21:03	6° ප 47'37	-1°01'49	morning set	3797 Nov 23 15:59	23°M22'54	
minimum elong	3796 Dec 27 13:28	6° る 17'51	1°00'53		3797 Nov 27 14:59	0° ∡ 7	
max. Earth dist.	3796 Dec 28 22:33	8° る 27'40	1.45250 AU	desc. node	3797 Dec 05 06:08	12° ∡ ³30'58	
	3797 Jan 11 15:55	0° ≈					
evening rise	3797 Jan 12 22:29	2°≈00'28		superior conj	3797 Dec 07 07:53	15° ∡ ′51′08	-0°14'12
greatest brilliancy	3797 Jan 23 00:56	17° ≈ 53'08	-0.8m	minimum elong	3797 Dec 07 06:10	15° ∡ ′44'14	0°13'58
	3797 Jan 31 06:13	0°) €		behind sun begin	3797 Dec 07 00:50	15° ∡ ′22'49	
evening max el	3797 Feb 04 17:53	5°) €23'36	19°08'04	behind sun end	3797 Dec 07 11:30	16° ∡ °05'37	
asc. node	3797 Feb 07 04:36	7°) 34'19		max. Earth dist.	3797 Dec 11 17:21	22° ∡ ¹50'41	1.44856 AU
retrograde	3797 Feb 11 16:49	9° ∺ 20'46			3797 Dec 16 06:44	ರ°0	
evening set	3797 Feb 15 01:54	8°) 14′20		evening rise	3797 Dec 23 14:08	11° る 19'44	
inferior conj	3797 Feb 20 15:18	2° ∺ 25'57			3798 Jan 04 20:24	0° ≈	
minimum elong	3797 Feb 20 13:34			greatest brilliancy	3798 Jan 06 22:53	3° ≈ 07'16	-0.6m
min. Earth dist.	3797 Feb 22 02:50		0.66052 AU	evening max el	3798 Jan 18 22:47	18° ≈ 55′07	20°01'46
	3797 Feb 22 13:18	30° ₹ ≈		asc. node	3798 Jan 25 01:39	23° ≈ 10′27	
morning rise	3797 Feb 26 00:54	26° ≈ 12'35		retrograde	3798 Jan 26 14:38	23° ≈ 23'21	
direct	3797 Mar 04 10:38	23°≈23'25		evening set	3798 Jan 30 07:44	22° ≈ 03'00	
desc. node	3797 Mar 16 08:19	0°) €05'29		inferior conj	3798 Feb 04 17:38	16° ≈ 00'42	3°00'50
	3797 Mar 16 06:03	0° ∀		minimum elong	3798 Feb 04 15:16	16°≈08'39	3°00'18
morning max el	3797 Mar 17 06:03	0° ¥ 59'15	26°22'39	min. Earth dist.	3798 Feb 05 15:00	14°≈48'57	0.67099 AU
•	3797 Apr 07 23:27	0° Υ		morning rise	3798 Feb 09 22:35	9° ≈ 46'49	
morning set	3797 Apr 22 07:58	24° Y 45'58		direct	3798 Feb 15 19:42	7°≈09'07	2500 420
P 4 2	3797 Apr 25 01:54	0° 8	1 2 402 4	morning max el	3798 Feb 27 14:48	14°≈12'07	25°04'30
max. Earth dist.	3797 Apr 26 09:35	2° 8 34'23	1.34924 AU	desc. node	3798 Mar 03 05:21	18° ≈ 07'09	
	2707 M 01 05 22	12001515	0940/20		3798 Mar 12 11:55	0°) €	
superior conj	3797 May 01 05:22	12° 8 15'54	-U-49 ⁻ 29		3798 Mar 31 19:29	0° Y	
minimum elong	2707 May 01 00:00	120120000	0040150	morning	2709 Amm 04 10:40	60005712/	
asa noda	3797 May 01 08:00	12° 8 29'22	0°48'59	morning set	3798 Apr 04 18:48	6°Y57'36	1 26747 411
asc. node evening rise	3797 May 01 08:00 3797 May 06 03:53 3797 May 08 21:48	12° 8 29'22 22° 8 30'48 28° 8 13'28	0°48'59	morning set max. Earth dist.	3798 Apr 04 18:48 3798 Apr 08 10:07	6°Υ57'36 13°Υ35'28	1.36747 AU

superior conj minimum elong	3798 Apr 14 17:38 3798 Apr 14 21:42	25° Υ 40'41 26° Υ 00'39		max. Earth dist.	3799 Mar 21 05:27 3799 Mar 24 03:13	24°) 49′07 0° Υ	1.38866 AU
	3798 Apr 16 21:55	8° 0					
evening rise	3798 Apr 23 01:29	12° 8 23'41		superior conj	3799 Mar 28 16:35	8° Ƴ 23'24	-1°42'51
asc. node	3798 Apr 23 00:55	12° 8 20'53		minimum elong	3799 Mar 28 21:17	8° Y 45'28	1°42'20
	3798 May 02 11:06	$\Pi^{\circ}0$		evening rise	3799 Apr 06 21:35	26° Y 06′58	
evening max el	3798 May 10 05:34	10° Ⅱ 17'53	19°34'43		3799 Apr 08 21:46	9° 8	
retrograde	3798 May 19 20:26	14° ∏ 58'19		asc. node	3799 Apr 09 21:57	1° 8 55'41	
evening set	3798 May 21 19:50	14° Ⅱ 47'22		evening max el	3799 Apr 23 05:08	22° 8 27'28	18°45'22
desc. node	3798 May 30 04:31	10° Ⅱ 56′04		retrograde	3799 May 01 08:05	26° 8 26'08	
inferior conj	3798 May 30 12:34	10° Ⅱ 43'21		evening set	3799 May 03 12:42	26° 8 09'50	
minimum elong	3798 May 30 12:18	10° Ⅱ 43'46	0°05'49	inferior conj	3799 May 11 09:38	21° 8 48'23	1°34'48
transit middle	3798 May 30 12:18	10° Ⅱ 43'46	0°05'49	minimum elong	3799 May 11 12:51	21° 8 42'27	1°33'46
transit begin	3798 May 30 08:39	10° Ⅱ 49'32		min. Earth dist.	3799 May 14 16:22	19° 8 24'09	0.57311 AU
transit end	3798 May 30 15:57	10° Ⅱ 37'59	0.55511.477	desc. node	3799 May 17 01:34	17° 8 50'42	
min. Earth dist.	3798 Jun 01 23:43	9° I 109'57	0.55711 AU	morning rise	3799 May 19 09:47	16° 8 37'25	
morning rise	3798 Jun 08 02:09	6° Ⅱ 07'28		direct	3799 May 24 22:24	15° 8 22'45	26017156
direct	3798 Jun 12 15:04	5° Ⅱ 21'16	24947105	morning max el	3799 Jun 08 06:49	22° 8 53'41	26°17'56
morning max el	3798 Jun 26 15:21	12° Ⅱ 23'41	24°47'05		3799 Jun 14 14:55	0°¶ 0°€	
asc. node	3798 Jul 10 04:32 3798 Jul 20 00:11	0°ତ 18° ତ 06'34		marning sat	3799 Jul 02 23:42 3799 Jul 06 22:07	8° 5 04'12	
	3798 Jul 20 00.11 3798 Jul 22 11:12	23°9513'44		morning set asc. node	3799 Jul 06 21:12	8 \$304 12 7°\$59'25	
morning set	3798 Jul 25 14:49	23 3 13 44 0° Ω		asc. node	3/99 Jul 00 21.12	1 303923	
	3/90 Jul 23 14.49	0 06		superior conj	3799 Jul 13 21:30	23°©14'13	1°07'45
superior conj	3798 Jul 29 10:09	8°Ω18'36	1°24'34	minimum elong	3799 Jul 13 19:12	23° 9 01'31	1°07'22
minimum elong	3798 Jul 29 07:53	8° Ω 06'15		max. Earth dist.	3799 Jul 14 09:13	24°918'45	1.32205 AU
max. Earth dist.	3798 Jul 30 23:16	11°Ω40'25		max. Earth dist.	3799 Jul 16 23:30	0°Ω	1.32203 710
evening rise	3798 Aug 05 15:25	23° £ 39'33	1.52775110	evening rise	3799 Jul 20 20:04	8° Ω 14'51	
	3798 Aug 08 19:31	0° m)			3799 Aug 01 05:26	0° m)	
desc. node	3798 Aug 26 03:50	29° m 13'27		desc. node	3799 Aug 13 00:51	17° m) 44'34	
	3798 Aug 26 17:05	0∘ <u>⊽</u>		evening max el	3799 Aug 20 18:13	26° m) 24'42	27°01'53
evening max el	3798 Sep 07 12:34	14° £ 00'54	27°25'55	C	3799 Aug 25 01:46	0∘ ⊽	
retrograde	3798 Sep 21 06:02	21° ≏ 16'41		retrograde	3799 Sep 03 15:20	3° ₾ 36'33	
evening set	3798 Sep 28 10:37	18° ≏ 44'10		evening set	3799 Sep 10 16:18	1° ≏ 25'04	
min. Earth dist.	3798 Oct 02 01:45	15° ≙ 42'06	0.62974 AU		3799 Sep 12 18:09	30°R Mp	
inferior conj	3798 Oct 04 20:13	13° ഫ 00'19	-3°27'25	min. Earth dist.	3799 Sep 14 08:29	28° m 44'24	0.61028 AU
minimum elong	3798 Oct 05 01:45	12° ≏ 46'48	3°25'42	inferior conj	3799 Sep 17 12:22	26°M/01'51	-4°20'43
morning rise	3798 Oct 11 18:22	7° ≏ 48'49		minimum elong	3799 Sep 17 18:09	25° m 49'24	4°19'25
direct	3798 Oct 14 04:27	7° £ 21'31		morning rise	3799 Sep 24 21:49	21° m)11'09	
asc. node	3798 Oct 15 23:25	7° £ 36'50		direct	3799 Sep 27 06:34	20° m 48'42	
morning max el	3798 Oct 20 20:36	10° ≏ 47'45	17°50'17	asc. node	3799 Oct 02 20:27	22° m 59'13	
	3798 Nov 02 17:03	0°M₊		morning max el	3799 Oct 04 10:33	24° m 22'35	18°00'15
morning set	3798 Nov 06 01:50	5°M55'09			3799 Oct 09 00:41	0∘ ⊽	
	250037 15 10 26	2.60 W 0.5120	0020101	morning set	3799 Oct 20 05:21	19° ≙ 17'28	
superior conj	3798 Nov 17 18:26	26°M05'29			3799 Oct 26 01:16	0° M .	
minimum elong	3798 Nov 17 21:18	26°M17'31	0°29'37		2700 0 + 20 07 27	70 m 27145	100.412.2
44-	3798 Nov 20 02:54	0° ҂ 3° ҂ 17'50		superior conj	3799 Oct 30 07:37 3799 Oct 30 11:49	7°M37'45	1°04'23 1°03'52
desc. node max. Earth dist.	3798 Nov 22 03:09 3798 Nov 24 10:01	7° ₹ 1730	1.43781 AU	minimum elong max. Earth dist.	3799 Oct 30 11.49 3799 Nov 06 22:16	7°M56'17 20°M39'03	1.42144 AU
evening rise	3798 Nov 24 10.01 3798 Dec 02 23:37	20° ₹30'25	1.43/81 AU	desc. node	3799 Nov 09 00:10	24°ML04'41	1.42144 AU
evening rise	3798 Dec 02 23:37 3798 Dec 09 04:49	20 x 3023		evening rise	3799 Nov 12 19:07	0°×11'37	
	3798 Dec 30 16:03	0° ≈		evening rise	3799 Nov 12 15:07	0° × 7	
evening max el	3799 Jan 01 22:16	2°≈27'50	21°08'34		3799 Dec 02 18:35	ੁੰ≎	
retrograde	3799 Jan 10 12:26	7°≈33'13	21 003.	evening max el	3799 Dec 15 16:26	16° පි 01'52	22°24'35
asc. node	3799 Jan 11 22:40	7°≈22'06		retrograde	3799 Dec 25 08:36	21° る 46'59	
evening set	3799 Jan 14 15:15	5°≈57'42		evening set	3799 Dec 29 22:47	19° る 55'23	
inferior conj	3799 Jan 19 23:39	29° る 44'18	2°27'35	asc. node	3799 Dec 29 19:42	20° ට 01'38	
minimum elong	3799 Jan 19 21:10	29° る 52'52		inferior conj	3800 Jan 04 07:19	13° る 34'07	1°46'31
3	3799 Jan 19 19:05	30°₹ ⋜		minimum elong	3800 Jan 04 05:11	13° ⋜ 41'31	1°45'45
min. Earth dist.	3799 Jan 20 08:17	29° ප 14'28	0.67736 AU	min. Earth dist.	3800 Jan 04 04:24	13° ⋜ 44'16	0.67985 AU
morning rise	3799 Jan 25 02:54	23° る 31'34		morning rise	3800 Jan 09 11:29	7° る 24'10	
direct	3799 Jan 30 09:29	21° る 12'55		direct	3800 Jan 14 03:12	5° ಕ 28'06	
morning max el	3799 Feb 09 23:22	27° る 30'43	23°36'38	morning max el	3800 Jan 23 10:59	10° る 56'48	22°08'46
	3799 Feb 12 07:29	0° ≈		desc. node	3800 Feb 04 23:26	26° る 31'07	
desc. node	3799 Feb 18 02:24	7° ≈ 00'34			3800 Feb 07 10:36	0° ≈	
	3799 Mar 06 04:04	0° ∀		morning set	3800 Feb 25 14:26	27°≈40'21	
morning set	3799 Mar 17 06:42	17° ¥ 59'43			3800 Feb 27 00:50	0° ℋ	

3802 Jan 05 06:52

0°る

3801 Jan 31 20:18

0°≈

		_					
desc. node	3802 Jan 09 17:30	6° ප 45'01		asc. node	3802 Nov 20 10:49	22°M17'54	
morning set	3802 Jan 14 15:58	14° る 20'12		morning rise	3802 Nov 23 18:20	19° M 27'25	
	3802 Jan 24 17:01	0° ≈		direct	3802 Nov 26 20:55	18° ™ 32'17	
max. Earth dist.	3802 Jan 26 18:55	3°≈17'25	1.44377 AU	morning max el	3802 Dec 03 15:38	22°M16'45	18°48'10
					3802 Dec 09 21:26	0° ∡ 7	
superior conj	3802 Jan 31 07:08	10° ≈ 29'56	-1°56'36	morning set	3802 Dec 25 04:23	23° ∡ ¹26'46	
minimum elong	3802 Jan 31 00:41	10° ≈ 04'00	1°56'12	desc. node	3802 Dec 27 14:31	27° ∡ 15′19	
	3802 Feb 12 03:05	0°) €			3802 Dec 29 08:27	8°0	
evening rise	3802 Feb 13 23:35	3°){ 07'41		max. Earth dist.	3803 Jan 09 12:04	17° る 29'39	1.45150 AU
asc. node	3802 Mar 01 13:06	28°) €03'04					
	3802 Mar 03 03:01	$0^{\circ}\Upsilon$		superior conj	3803 Jan 10 14:14	19° る 12'26	-1°26'22
evening max el	3802 Mar 04 12:40	1° Y 31'10	18°16'32	minimum elong	3803 Jan 10 05:03	18° る 36'20	1°25'24
retrograde	3802 Mar 10 23:06	4° Ƴ 57'53		· ·	3803 Jan 17 10:19	0° ≈	
evening set	3802 Mar 13 22:07	4° Υ 11'17		evening rise	3803 Jan 25 23:27	13° ≈ 40'27	
5 · 4 · · · · · · · · · · · · · · · · ·	3802 Mar 18 20:50	30°R) €		0.0000	3803 Feb 05 03:23	0°) €	
inferior conj	3802 Mar 19 22:17	28°) 49'49	3°36'50	evening max el	3803 Feb 15 24:00	14°) 58'01	18°44'22
minimum elong	3802 Mar 19 22:38	28°) (49'51	3°36'50	asc. node	3803 Feb 16 10:07	15°\(\frac{1}{23}\)'10	10 44 22
min. Earth dist.	3802 Mar 22 10:14	26° X 03'01	0.63576 AU	retrograde	3803 Feb 22 16:02	18°) (40'43	
	3802 Mar 25 10.14 3802 Mar 25 22:12	20 \(\)(03 01 \) 22°\(\)(42'48	0.03370 AU	•	3803 Feb 22 10.02 3803 Feb 25 21:15	17° H 41'38	
morning rise		19° H 58'55		evening set		17 X 41 38 12° X 02'26	202211.1
direct	3802 Apr 01 19:30			inferior conj	3803 Mar 03 13:44		
desc. node	3802 Apr 07 16:42	21°) 39'45		minimum elong	3803 Mar 03 12:37	12°) €05'52	
morning max el	3802 Apr 15 15:17	27°) 56'43	27°41'26	min. Earth dist.	3803 Mar 05 09:59	9°)(47'17	0.65268 AU
	3802 Apr 17 14:27	0° Υ		morning rise	3803 Mar 09 03:33	5°) € 50'44	
	3802 May 08 19:30	0°8		direct	3803 Mar 15 19:08	2° ¥ 59'49	
morning set	3802 May 20 07:26	21° 8 11'46		desc. node	3803 Mar 25 13:45	7°) 34′12	
	3802 May 24 14:47	Π °0		morning max el	3803 Mar 29 01:03	10°) 46′43	26°59'09
max. Earth dist.	3802 May 25 10:38	1° ∏ 44'14	1.32942 AU		3803 Apr 13 06:22	0 ° Υ	
					3803 May 01 07:22	0°8	
superior conj	3802 May 28 02:55	7° Ⅱ 26′26	-0°04'09	morning set	3803 May 03 18:36	4° 8 40'24	
minimum elong	3802 May 28 03:07	7° Ⅲ 27'31	0°04'06	max. Earth dist.	3803 May 08 04:57	13° 8 24'50	1.34067 AU
behind sun begin	3802 May 27 21:57	6° Ⅱ 59'47					
behind sun end	3802 May 28 08:17	7° Ⅱ 55'16		superior conj	3803 May 12 04:53	21° 8 38'33	-0°32'44
asc. node	3802 May 28 12:22	8° Ⅱ 17'15		minimum elong	3803 May 12 06:36	21° 8 47'30	0°32'23
evening rise	3802 Jun 04 04:15	22° Ⅲ 37'25		asc. node	3803 May 15 09:24	28° 8 21'43	
Č	3802 Jun 07 17:47	0ಂಣ			3803 May 16 03:58	$\Pi^{\circ}0$	
evening max el	3802 Jun 26 21:32	29° © 17'18	23°05'47	evening rise	3803 May 19 14:34	7° Ⅱ 15'35	
<i>y</i>	3802 Jun 27 15:36	$0^{\circ}\Omega$		8 21	3803 May 31 20:19	0ಂತಾ	
desc. node	3802 Jul 04 15:55	4°Ω46'17		evening max el	3803 Jun 08 16:05	9° © 50'40	21°32'06
retrograde	3802 Jul 10 07:51	5° £ 59′22		retrograde	3803 Jun 20 22:35	15° © 53'17	21 32 00
evening set	3802 Jul 13 23:13	5° Ω 30'24		desc. node	3803 Jun 21 12:57	15°952'27	
min. Earth dist.	3802 Jul 21 06:44		0.55548 AU	evening set	3803 Jun 23 09:24	15° © 39'37	
inferior conj	3802 Jul 22 23:31	1°Ω13'42		inferior conj	3803 Jul 02 18:36	11° © 39'15	3°10'12
minimum elong	3802 Jul 22 25:31 3802 Jul 22 16:29	1° Ω 23'57		minimum elong	3803 Jul 02 10:32	11° © 50'31	3°07'42
minimum clong	3802 Jul 25 03:05	30°Rூ	4 32 39	min. Earth dist.	3803 Jul 02 10:32 3803 Jul 02 17:35	11°530'31	0.54861 AU
marning rise				morning rise		7°\$45'02	0.54601 AU
morning rise	3802 Jul 31 12:05	27°521'24		Č	3803 Jul 11 12:37	7° 9 20'59	
direct	3802 Aug 03 09:50	27° © 01'16		direct	3803 Jul 14 20:27		22007102
	3802 Aug 11 17:59	0°N	2002425	morning max el	3803 Jul 27 05:54	13°9511'40	22*06*03
morning max el	3802 Aug 14 05:42	2° Ω 02'55	20°34'25		3803 Aug 08 18:10	0°N	
asc. node	3802 Aug 24 11:35	15° Ω 40'42		asc. node	3803 Aug 11 08:38	4°Ω41'09	
_	3802 Sep 01 01:31	0° m		morning set	3803 Aug 17 14:10	17° Ω 06'19	
morning set	3802 Sep 02 04:17	2°Mp 16'36			3803 Aug 23 16:13	0° m	
superior conj	3802 Sep 09 17:12	17° m 49'49	1°44'27	superior conj	3803 Aug 24 18:40	2° Mp 19'48	1°41'20
minimum elong	3802 Sep 09 17:17	17° Mp 50'16	1°44'27	minimum elong	3803 Aug 24 17:28	2° Mp 13'28	1°41'17
max. Earth dist.	3802 Sep 14 16:21	27° Mp 43'10	1.36131 AU	max. Earth dist.	3803 Aug 28 07:22	9° m 39'53	1.34512 AU
	3802 Sep 15 20:45	0∘ ⊽		evening rise	3803 Sep 01 20:29	18° Mp 43'26	
evening rise	3802 Sep 18 15:56	5° ≏ 16'12			3803 Sep 07 22:09	0∘ ⊽	
desc. node	3802 Sep 30 15:13	25° ≏ 48'22		desc. node	3803 Sep 17 12:14	15° ≏ 53'44	
	3802 Oct 03 07:48	0° M.			3803 Sep 27 11:21	0° M	
evening max el	3802 Oct 24 07:42	27°M02'05	26°09'16	evening max el	3803 Oct 06 20:20	10°M37'46	26°59'09
	3802 Oct 27 15:49	0°⊀		retrograde	3803 Oct 20 01:18	17° M 54'16	
retrograde	3802 Nov 05 22:51	4° ∡ 10'48		evening set	3803 Oct 26 19:52	15°M12'57	
evening set	3802 Nov 12 05:15	1° ∡ ³36′06		min. Earth dist.	3803 Oct 30 18:30	11° M 20'07	0.65483 AU
Č	3802 Nov 13 22:09	30°RM₊		inferior conj	3803 Nov 01 18:02	9° M 04'08	
min. Earth dist.	3802 Nov 16 10:33		0.66626 AU	minimum elong	3803 Nov 01 21:10	8°M55'09	
inferior conj	3802 Nov 17 22:10	25°M17'02		asc. node	3803 Nov 07 07:51	3°M48'10	
minimum elong	3802 Nov 17 23:33	25°M12'44		morning rise	3803 Nov 07 23:19	3°M26'55	
		10.20 IT			3332 2.0. 0, 23.19	- 1102000	

direct	3803 Nov 10 17:33	2°M45'29		morning rise	3804 Oct 21 21:19	17° £ 17'56	
morning max el	3803 Nov 10 17:33 3803 Nov 17 05:45	6°M15'47	18°12'03	direct	3804 Oct 24 09:33	17 = 1730 16° • 46'31	
morning max cr	3803 Dec 03 10:42	0° 📈	10 12 03	asc. node	3804 Oct 24 04:53	16° - 46'43	
morning set	3803 Dec 05 10:42	4° ⋌ ¹00'53		morning max el	3804 Oct 30 22:17	20° ⊆ 11'46	17°53'08
desc. node	3803 Dec 14 11:31	17° × 754'48		morning max or	3804 Nov 07 06:37	0°M	17 33 00
4650. 11040	3003 200 11 11.31	1, ,, ,, ,,		morning set	3804 Nov 16 18:25	15°ML55'28	
superior conj	3803 Dec 20 17:32	27° ∡ *51'07	-0°41'50	8 2 2 2	3804 Nov 25 01:56	0° ∡ ¹	
minimum elong	3803 Dec 20 12:15	27° ∡ ³30′15	0°41'07				
	3803 Dec 22 02:13	0°ප		superior conj	3804 Nov 29 13:26	7° ∡ ¹22'29	0°05'30
max. Earth dist.	3803 Dec 23 07:39	1° る 55'43	1.45181 AU	minimum elong	3804 Nov 29 14:03	7° ∡¹ 24'59	0°05'26
evening rise	3804 Jan 06 01:01	23° る 21'25		behind sun begin	3804 Nov 29 04:36	6° ∡ ¹46'28	
	3804 Jan 10 07:33	0° ≈		behind sun end	3804 Nov 29 23:30	8° ₮ 03'24	
greatest brilliancy	3804 Jan 18 04:18	12° ≈ 06′18	-0.7m	desc. node	3804 Nov 30 08:32	8° ∡ 140′03	
evening max el	3804 Jan 30 07:40	28° ≈ 28′19	19°29'06	max. Earth dist.	3804 Dec 05 02:07	16° ₰ ¹16′06	1.44478 AU
	3804 Jan 31 22:22	0° ∀			3804 Dec 13 20:35	0°ಕ	
asc. node	3804 Feb 03 07:08	1°) 41′31		evening rise	3804 Dec 15 12:09	2° る 32'28	
retrograde	3804 Feb 06 12:53	2°) €37'34			3805 Jan 02 21:55	0° ≈	
evening set	3804 Feb 10 01:17	1° ∺ 25′08		evening max el	3805 Jan 12 10:14	12° ≈ 00'10	20°28'43
	3804 Feb 11 18:02	30°R ≈		retrograde	3805 Jan 20 11:05	16° ≈ 44'03	
inferior conj	3804 Feb 15 12:54	25°≈30'19	3°15'49	asc. node	3805 Jan 20 04:10	16° ≈ 43'35	
minimum elong	3804 Feb 15 10:50	25°≈37'05	3°15'27	evening set	3805 Jan 24 08:04	15°≈17'19	20.4514.6
min. Earth dist.	3804 Feb 16 18:08	23°≈54'47	0.66551 AU	inferior conj	3805 Jan 29 17:06	9° ≈ 09'37	2°47'46
morning rise	3804 Feb 20 20:09	19°≈16'39		minimum elong	3805 Jan 29 14:37	9° ≈ 18'04	2°47'07
direct	3804 Feb 27 00:48	16°≈31'31	25051110	min. Earth dist.	3805 Jan 30 08:49 3805 Feb 03 20:58	8°≈16'01	0.67415 AU
morning max el desc. node	3804 Mar 10 10:35	23°≈54'33 24°≈56'57	25°51'18	morning rise	3805 Feb 03 20:58 3805 Feb 09 11:53	2°≈55'54 0°≈25'52	
desc. node	3804 Mar 11 10:46 3804 Mar 15 21:28	24°≈36'37 0°) {		direct morning max el	3805 Feb	0°≈25°52 7°≈11'14	24°27'44
	3804 Apr 05 15:48	0 χ 0°Υ		desc. node	3805 Feb 26 07:46	7 ≈11 14 13°≈22'56	24 27 44
morning set	3804 Apr 15 15:45	17° Υ 23'52		desc. Hode	3805 Mar 10 14:06	0° ∺	
max. Earth dist.	3804 Apr 19 11:55	24° Υ 36'48	1.35653 AU	morning set	3805 Mar 28 17:37	29° ∺ 08'13	
max. Latin dist.	3804 Apr 22 06:22	0° 8	1.55055 AC	morning set	3805 Mar 29 05:26	25 γ (0013	
	300171p1 22 00.22	ů O		max. Earth dist.	3805 Apr 01 09:30	5° Υ 39'35	1.37623 AU
superior conj	3804 Apr 24 23:00	5° 8 22'27	-1°01'42	man. Barun dige.	2000 11p1 01 02.20	0 13,30	1.57025110
minimum elong	3804 Apr 25 02:17	5° 8 39'01		superior conj	3805 Apr 08 06:04	18° Ƴ 30'22	-1°29'00
asc. node	3804 May 01 06:26	18° 8 18'04		minimum elong	3805 Apr 08 10:33	18° Ƴ 51'59	1°28'23
evening rise	3804 May 02 21:21	21° 8 37'46		C	3805 Apr 14 02:21	0°B	
-	3804 May 07 01:50	$\Pi^{\circ}0$		evening rise	3805 Apr 16 22:12	5° 8 37'33	
evening max el	3804 May 20 21:34	20° Ⅲ 55'50	20°12'08	asc. node	3805 Apr 18 03:28	8° 8 02'18	
retrograde	3804 May 31 12:29	26° Ⅱ 06'34			3805 May 01 03:50	Π \circ 0	
evening set	3804 Jun 02 11:49	25° Ⅱ 56'37		evening max el	3805 May 03 15:11	2° Ⅱ 42'59	19°11'13
desc. node	3804 Jun 07 09:59	24° ∏ 16′12		retrograde	3805 May 12 13:52	7° Ⅱ 04'12	
inferior conj	3804 Jun 11 13:54	21° Ⅲ 57'47	-1°13'55	evening set	3805 May 14 14:48	6° Ⅱ 51'36	
minimum elong	3804 Jun 11 10:26	22° Ⅱ 02'55		inferior conj	3805 May 22 23:18	2° Ⅱ 40'55	0°40'19
min. Earth dist.	3804 Jun 13 05:52	20° ∏ 58'40	0.55127 AU	minimum elong	3805 May 23 00:56	2° Ⅱ 38'10	0°39'43
morning rise	3804 Jun 20 07:37	17° ∏ 41'14		desc. node	3805 May 25 07:00	1° Ⅱ 06'51	
direct	3804 Jun 24 07:37	17° Ⅱ 06'34		min. Earth dist.	3805 May 25 20:54	0° Ⅱ 44'00	0.56309 AU
morning max el	3804 Jul 07 22:03	23° Ⅱ 45'37	23°48'36		3805 May 27 00:40	30°R ∀	
,	3804 Jul 13 13:34	0°©		morning rise	3805 May 31 07:56	27° 8 49'24	
asc. node	3804 Jul 28 05:40 3804 Jul 31 02:50	24° © 07'06 0° Ω		direct	3805 Jun 05 06:47 3805 Jun 14 09:39	26° 8 52'26 0° Ⅱ	
marning gat	3804 Jul 31 02:30 3804 Aug 01 01:44	0°37 2°Ω00'07		mamina may al		0°Щ 4°Щ09'18	25020112
morning set	3804 Aug 01 01.44	2 820007		morning max el	3805 Jun 19 12:12 3805 Jul 07 23:50	4 п 09 18	23 28 12
superior conj	3804 Aug 08 01:43	17° Ω 05'13	1°32'12	asc. node	3805 Jul	13° 9 51'45	
minimum elong	3804 Aug 07 23:42	16° Ω 54'19		morning set	3805 Jul 16 13:19	16°953'07	
max. Earth dist.	3804 Aug 10 07:09		1.33283 AU	morning set	3805 Jul 22 14:24	0°Ω	
max. Darm dist.	3804 Aug 14 04:32	0° m)	1.55205 110		3003 341 22 11.21	v 00	
evening rise	3804 Aug 15 12:56	2° Mp 44'20		superior conj	3805 Jul 23 12:05	1° Ω 59'01	1°17'59
6	3804 Aug 30 17:58	೨ . ಭ ≀ . 2৩		minimum elong	3805 Jul 23 09:44	1° Ω 46'11	1°17'38
desc. node	3804 Sep 03 09:16	5° Ω 32'05		max. Earth dist.	3805 Jul 24 14:04	4° Ω 21'19	1.32475 AU
evening max el	3804 Sep 18 07:54	23° ჲ 55'11	27°24'38	evening rise	3805 Jul 30 13:57	17° Ω 09'25	
-	3804 Sep 26 18:11	0°M		ū	3805 Aug 06 02:25	0° m)	
retrograde	3804 Oct 01 21:50	1°M12'54		desc. node	3805 Aug 21 06:18	24° m 32'03	
	3804 Oct 06 17:43	30° ₹ Ω			3805 Aug 25 12:03	0∘ ⊽	
evening set	3804 Oct 09 00:40	28° ჲ 33'35		evening max el	3805 Aug 31 16:20	6° ₽ 41'39	27°19'48
min. Earth dist.	3804 Oct 12 17:38	25° ≏ 14'53	0.63983 AU	retrograde	3805 Sep 14 11:51	13° ≏ 56'44	
inferior conj	3804 Oct 15 05:32	22° ₽ 39'29	-2°53'24	evening set	3805 Sep 21 16:06	11° ≏ 31'19	
minimum elong	3804 Oct 15 10:21	22° ≏ 26'59	2°51'42	min. Earth dist.	3805 Sep 25 06:36	8° ≏ 40'03	0.62165 AU

inferior conj	3805 Sep 28 05:43	5° £ 55'43	-3°51'18	minimum elong	3806 Sep 10 20:28	18° m 33'50	4°38'33
minimum elong	3805 Sep 28 11:34	5° Ω 42'10		morning rise	3806 Sep 18 05:17	14° Mp 03'19	7 30 33
morning rise	3805 Oct 05 08:44	0° £ 53'00	- 17 17	direct	3806 Sep 20 14:14	13° m) 42'18	
direct	3805 Oct 07 17:45	0° £ 28'14		asc. node	3806 Sep 27 22:58	17° m) 15'23	
asc. node	3805 Oct 11 01:56	1° ≏ 18'51		morning max el	3806 Sep 28 02:04	17° m 22'48	18°10'30
morning max el	3805 Oct 14 14:08	3° ჲ 56′50	17°52'13		3806 Oct 07 01:58	0∘ ⊽	
morning set	3805 Oct 30 12:32	28° ≏ 50'55		morning set	3806 Oct 13 21:59	12° ≏ 30'19	
	3805 Oct 31 03:54	0°M₊					
				superior conj	3806 Oct 23 11:06	0° ™ 13'38	
superior conj	3805 Nov 10 11:36	18°M11'03	0°45'57	minimum elong	3806 Oct 23 15:08		1°15'04
minimum elong	3805 Nov 10 15:25	18°M27'18	0°45'26	To all the	3806 Oct 23 08:05	0°ጤ 13°ጤ33'26	1 41226 ATT
desc. node max. Earth dist.	3805 Nov 17 05:33 3805 Nov 17 16:37	29° M 27'26 0° ₹ 12'32	1.43137 AU	max. Earth dist. desc. node	3806 Oct 31 02:16 3806 Nov 04 02:36	20°M13'50	1.41326 AU
max. Earm dist.	3805 Nov 17 10:37 3805 Nov 17 13:32	0° ⊼ ¹1232	1.43137 AU	evening rise	3806 Nov 04 02:36 3806 Nov 05 03:46	20 IL 13 30 21°M 56'12	
evening rise	3805 Nov 25 00:01	11° × 751'26		evening rise	3806 Nov 10 05:29	0° √	
e vennig 1150	3805 Dec 06 23:21	0°る			3806 Dec 01 02:49	ਨੂੰ ਹ°ਰ	
evening max el	3805 Dec 26 07:17	25° る 33'06	21°40'03	evening max el	3806 Dec 08 23:44	9° ප 09'06	22°58'26
-	3805 Dec 31 21:38	0°≈		retrograde	3806 Dec 19 03:27	15° る 10'22	
retrograde	3806 Jan 04 08:28	0° ≈ 55'55		evening set	3806 Dec 23 22:52	13° る 12'07	
asc. node	3806 Jan 07 01:12	0° ≈ 16′29		asc. node	3806 Dec 24 22:14	12° る 18'37	
	3806 Jan 07 13:18	30°₹ ⋜		inferior conj	3806 Dec 29 07:56	6° る 48'52	
evening set	3806 Jan 08 15:48	29° る 13'49		minimum elong	3806 Dec 29 06:05	6° る 55'14	1°26'22
inferior conj	3806 Jan 14 00:05	22° る 56'33	2°11'01	min. Earth dist.	3806 Dec 29 00:26	7° る 14'44	0.67989 AU
minimum elong	3806 Jan 13 21:41	23°る04'49	2°10'15	morning rise	3807 Jan 03 13:12	0° る 40'23	
min. Earth dist.	3806 Jan 14 03:44	22° 3 43'52	0.67886 AU	t' .	3807 Jan 04 11:19	30°₹ ⋌ ¹	
morning rise	3806 Jan 19 03:24	16°る44'30 14°る35'09		direct	3807 Jan 07 22:52	28°₹53'54 0°る	
direct morning max el	3806 Jan 24 03:35 3806 Feb 03 04:40	14 ⁻ る 33'09	22°58'38	morning max el	3807 Jan 11 17:27 3807 Jan 16 18:29	0°る 4°る02'25	21°33'00
morning max ci	3806 Feb 11 06:10	20 ⊙ 32 39	22 38 38	desc. node	3807 Jan 31 01:50	4 3 02 23 22° る 16'46	21 33 09
desc. node	3806 Feb 13 04:47	2°≈33'37		dese. Hode	3807 Feb 05 08:56	0°≈	
dese. Hode	3806 Mar 03 19:57	0° ∀		morning set	3807 Feb 17 13:23	18° ≈ 42'33	
morning set	3806 Mar 09 17:58	9°) 36′28		max. Earth dist.	3807 Feb 24 04:24	29° ≈ 26′20	1.41896 AU
max. Earth dist.	3806 Mar 14 04:21	17°) 06′19	1.39795 AU		3807 Feb 24 12:33	0° ∀	
	3806 Mar 21 10:43	$0^{\circ}\mathbf{\Upsilon}$					
				superior conj	3807 Mar 03 17:36	12°) 13′58	-2°05'28
superior conj	3806 Mar 21 21:55	0° Υ 51′20	-1°51'40	minimum elong	3807 Mar 03 19:49	12°) €23'36	2°05'24
minimum elong	3806 Mar 22 02:26		1°51'17		3807 Mar 13 15:57	0° Y	
evening rise	3806 Mar 31 14:04	19° Y 06′25		evening rise	3807 Mar 14 17:21	1° Y ′56′04	
asc. node	3806 Apr 05 00:31	27° Y 28'48		asc. node	3807 Mar 22 21:34	16° Y 31'24	
	3806 Apr 06 09:40	0° 8	10020127	evening max el	3807 Mar 31 04:01	27° Y 59'46	18°09'57
evening max el	3806 Apr 16 18:29	15° 8 07'22	18°30'37	. 1	3807 Apr 02 14:36	0°8	
retrograde evening set	3806 Apr 24 09:34	18° と 52'52 18° と 33'21		retrograde evening set	3807 Apr 06 23:26	1° と 26'18 0° と 57'14	
inferior conj	3806 Apr 26 16:56 3806 May 04 05:37	14° 8 03'41	2°08'01	evening set	3807 Apr 09 13:20	_	
minimum elong	3806 May 04 09:17	13° 8 56'25			3807 Apr 11 12:01	30°6'V'	
min. Earth dist.	3000 may 01 07.17		2°06'59	inferior coni	3807 Apr 11 12:01 3807 Apr 16 08:42	30°₹ Υ 26° Υ 06'35	3°03'29
	3806 May 07 15:44		2°06'59 0.58152 AU	inferior conj	3807 Apr 16 08:42	26° Y ′06'35	3°03'29 3°02'55
morning rise	3806 May 07 15:44 3806 May 11 22:29	11° 8 22'50	2°06'59 0.58152 AU	inferior conj minimum elong min. Earth dist.	3807 Apr 16 08:42 3807 Apr 16 11:46		3°03'29 3°02'55 0.60308 AU
morning rise desc. node	3806 May 07 15:44 3806 May 11 22:29 3806 May 12 04:01			minimum elong	3807 Apr 16 08:42	26°Υ06'35 25°Υ59'32	3°02'55
C	3806 May 11 22:29	11° 8 22'50 8° 8 39'18		minimum elong min. Earth dist.	3807 Apr 16 08:42 3807 Apr 16 11:46 3807 Apr 19 16:22	26°Υ06'35 25°Υ59'32 23°Υ04'54	3°02'55
desc. node	3806 May 11 22:29 3806 May 12 04:01	11°\d22'50 8°\d39'18 8°\d32'33		minimum elong min. Earth dist. morning rise	3807 Apr 16 08:42 3807 Apr 16 11:46 3807 Apr 19 16:22 3807 Apr 23 07:58	26°Y06'35 25°Y59'32 23°Y04'54 20°Y18'37 18°Y16'04 18°Y13'52	3°02'55 0.60308 AU
desc. node direct	3806 May 11 22:29 3806 May 12 04:01 3806 May 17 20:26	11° 8 22'50 8° 8 39'18 8° 8 32'33 7° 8 09'31	0.58152 AU	minimum elong min. Earth dist. morning rise desc. node	3807 Apr 16 08:42 3807 Apr 16 11:46 3807 Apr 19 16:22 3807 Apr 23 07:58 3807 Apr 29 01:03 3807 Apr 29 22:13 3807 May 14 05:23	26°Y06'35 25°Y59'32 23°Y04'54 20°Y18'37 18°Y16'04	3°02'55 0.60308 AU
desc. node direct	3806 May 11 22:29 3806 May 12 04:01 3806 May 17 20:26 3806 Jun 01 05:42	11° と 22'50 8° と 39'18 8° と 32'33 7° と 09'31 14° と 49'49 0°耳 0°頭	0.58152 AU	minimum elong min. Earth dist. morning rise desc. node direct	3807 Apr 16 08:42 3807 Apr 16 11:46 3807 Apr 19 16:22 3807 Apr 23 07:58 3807 Apr 29 01:03 3807 Apr 29 22:13 3807 May 14 05:23 3807 May 17 20:34	26°Υ06'35 25°Υ59'32 23°Υ04'54 20°Υ18'37 18°Υ16'04 18°Υ13'52 26°Υ06'43 0°႘	3°02'55 0.60308 AU
desc. node direct morning max el	3806 May 11 22:29 3806 May 12 04:01 3806 May 17 20:26 3806 Jun 01 05:42 3806 Jun 13 10:23 3806 Jun 30 04:12 3806 Jun 30 23:22	11° 8 22'50 8° 8 39'18 8° 8 32'33 7° 8 09'31 14° 8 49'49 0° I 0° S 1° S 40'15	0.58152 AU	minimum elong min. Earth dist. morning rise desc. node direct morning max el	3807 Apr 16 08:42 3807 Apr 16 11:46 3807 Apr 19 16:22 3807 Apr 23 07:58 3807 Apr 29 01:03 3807 Apr 29 22:13 3807 May 14 05:23 3807 May 17 20:34 3807 Jun 06 21:53	26°Υ06'35 25°Υ59'32 23°Υ04'54 20°Υ18'37 18°Υ16'04 18°Υ13'52 26°Υ06'43 0°႘ 0°Ⅱ	3°02'55 0.60308 AU
desc. node direct morning max el	3806 May 11 22:29 3806 May 12 04:01 3806 May 17 20:26 3806 Jun 01 05:42 3806 Jun 13 10:23 3806 Jun 30 04:12	11° と 22'50 8° と 39'18 8° と 32'33 7° と 09'31 14° と 49'49 0°耳 0°頭	0.58152 AU	minimum elong min. Earth dist. morning rise desc. node direct morning max el	3807 Apr 16 08:42 3807 Apr 16 11:46 3807 Apr 19 16:22 3807 Apr 23 07:58 3807 Apr 29 01:03 3807 Apr 29 22:13 3807 May 14 05:23 3807 May 17 20:34 3807 Jun 06 21:53 3807 Jun 15 06:02	26°Υ06'35 25°Υ59'32 23°Υ04'54 20°Υ18'37 18°Υ16'04 18°Υ13'52 26°Υ06'43 0°႘ 0°Ⅱ 16°Ⅱ15'07	3°02'55 0.60308 AU
desc. node direct morning max el morning set asc. node	3806 May 11 22:29 3806 May 12 04:01 3806 May 17 20:26 3806 Jun 01 05:42 3806 Jun 13 10:23 3806 Jun 30 04:12 3806 Jun 30 23:22 3806 Jul 01 23:47	11°822'50 8°839'18 8°832'33 7°809'31 14°849'49 0°II 0°S 1°S40'15 3°S49'27	0.58152 AU 26°49'08	minimum elong min. Earth dist. morning rise desc. node direct morning max el	3807 Apr 16 08:42 3807 Apr 16 11:46 3807 Apr 19 16:22 3807 Apr 23 07:58 3807 Apr 29 01:03 3807 Apr 29 22:13 3807 May 14 05:23 3807 May 17 20:34 3807 Jun 06 21:53 3807 Jun 15 06:02 3807 Jun 18 20:49	26°Y06'35 25°Y59'32 23°Y04'54 20°Y18'37 18°Y16'04 18°Y13'52 26°Y06'43 0°H 16°II15'07 23°II54'36	3°02'55 0.60308 AU 27°38'46
desc. node direct morning max el morning set asc. node superior conj	3806 May 11 22:29 3806 May 12 04:01 3806 May 17 20:26 3806 Jun 01 05:42 3806 Jun 13 10:23 3806 Jun 30 04:12 3806 Jun 30 23:22 3806 Jul 01 23:47 3806 Jul 07 23:51	11°822'50 8°839'18 8°832'33 7°809'31 14°849'49 0°II 0°9 1°940'15 3°949'27	0.58152 AU 26°49'08 0°59'24	minimum elong min. Earth dist. morning rise desc. node direct morning max el	3807 Apr 16 08:42 3807 Apr 16 11:46 3807 Apr 19 16:22 3807 Apr 23 07:58 3807 Apr 29 01:03 3807 Apr 29 22:13 3807 May 14 05:23 3807 May 17 20:34 3807 Jun 06 21:53 3807 Jun 15 06:02 3807 Jun 18 20:49 3807 Jun 21 12:36	26°Y06'35 25°Y59'32 23°Y04'54 20°Y18'37 18°Y16'04 18°Y13'52 26°Y06'43 0°H 16°H15'07 23°H54'36 29°H41'53	3°02'55 0.60308 AU
desc. node direct morning max el morning set asc. node superior conj minimum elong	3806 May 11 22:29 3806 May 12 04:01 3806 May 17 20:26 3806 Jun 01 05:42 3806 Jun 30 04:12 3806 Jun 30 23:22 3806 Jul 01 23:47 3806 Jul 07 23:51 3806 Jul 07 21:40	11°822'50 8°839'18 8°832'33 7°809'31 14°849'49 0°II 0°9 1°9540'15 3°954'54 16°954'54	0.58152 AU 26°49'08 0°59'24 0°58'59	minimum elong min. Earth dist. morning rise desc. node direct morning max el	3807 Apr 16 08:42 3807 Apr 16 11:46 3807 Apr 19 16:22 3807 Apr 23 07:58 3807 Apr 29 01:03 3807 Apr 29 22:13 3807 May 14 05:23 3807 May 17 20:34 3807 Jun 06 21:53 3807 Jun 15 06:02 3807 Jun 18 20:49	26°Y06'35 25°Y59'32 23°Y04'54 20°Y18'37 18°Y16'04 18°Y13'52 26°Y06'43 0°H 16°II15'07 23°II54'36	3°02'55 0.60308 AU 27°38'46
desc. node direct morning max el morning set asc. node superior conj	3806 May 11 22:29 3806 May 12 04:01 3806 May 17 20:26 3806 Jun 01 05:42 3806 Jun 30 04:12 3806 Jun 30 23:22 3806 Jul 01 23:47 3806 Jul 07 23:51 3806 Jul 07 21:40 3806 Jul 08 01:08	11°822'50 8°839'18 8°832'33 7°809'31 14°849'49 0°II 0°S 1°S40'15 3°S49'27 16°S54'54 16°S54'54 16°S642'52 17°S01'58	0.58152 AU 26°49'08 0°59'24	minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist.	3807 Apr 16 08:42 3807 Apr 16 11:46 3807 Apr 19 16:22 3807 Apr 23 07:58 3807 Apr 29 01:03 3807 Apr 29 22:13 3807 May 14 05:23 3807 May 17 20:34 3807 Jun 06 21:53 3807 Jun 15 06:02 3807 Jun 18 20:49 3807 Jun 21 12:36 3807 Jun 21 15:54	26°Y06'35 25°Y59'32 23°Y04'54 20°Y18'37 18°Y16'04 18°Y13'52 26°Y06'43 0°H 16°H15'07 23°H54'36 29°H41'53 0°\$	3°02'55 0.60308 AU 27°38'46 1.32090 AU
desc. node direct morning max el morning set asc. node superior conj minimum elong max. Earth dist.	3806 May 11 22:29 3806 May 12 04:01 3806 May 17 20:26 3806 Jun 01 05:42 3806 Jun 13 10:23 3806 Jun 30 04:12 3806 Jun 30 23:22 3806 Jul 01 23:47 3806 Jul 07 23:51 3806 Jul 07 21:40 3806 Jul 08 01:08 3806 Jul 13 23:54	11°822'50 8°839'18 8°832'33 7°809'31 14°849'49 0°II 0°5 1°540'15 3°549'27 16°554'54 16°542'52 17°501'58 0°Ω	0.58152 AU 26°49'08 0°59'24 0°58'59	minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist.	3807 Apr 16 08:42 3807 Apr 16 11:46 3807 Apr 19 16:22 3807 Apr 23 07:58 3807 Apr 29 01:03 3807 Apr 29 22:13 3807 May 14 05:23 3807 May 17 20:34 3807 Jun 06 21:53 3807 Jun 15 06:02 3807 Jun 18 20:49 3807 Jun 21 12:36 3807 Jun 21 15:54	26°Y06'35 25°Y59'32 23°Y04'54 20°Y18'37 18°Y16'04 18°Y13'52 26°Y06'43 0°H 16°H15'07 23°H54'36 29°H41'53 0°©	3°02'55 0.60308 AU 27°38'46 1.32090 AU 0°37'04
desc. node direct morning max el morning set asc. node superior conj minimum elong	3806 May 11 22:29 3806 May 12 04:01 3806 May 17 20:26 3806 Jun 01 05:42 3806 Jun 13 10:23 3806 Jun 30 04:12 3806 Jun 30 23:22 3806 Jul 01 23:47 3806 Jul 07 23:51 3806 Jul 07 21:40 3806 Jul 08 01:08 3806 Jul 13 23:54 3806 Jul 14 20:46	11°822'50 8°839'18 8°832'33 7°809'31 14°849'49 0°II 0°5 1°540'15 3°549'27 16°554'54 16°542'52 17°501'58 0°A 1°A50'25	0.58152 AU 26°49'08 0°59'24 0°58'59	minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong	3807 Apr 16 08:42 3807 Apr 16 11:46 3807 Apr 19 16:22 3807 Apr 23 07:58 3807 Apr 29 01:03 3807 Apr 29 22:13 3807 May 14 05:23 3807 May 17 20:34 3807 Jun 06 21:53 3807 Jun 15 06:02 3807 Jun 18 20:49 3807 Jun 21 12:36 3807 Jun 21 15:54 3807 Jun 22 11:14 3807 Jun 22 09:39	26°Y06'35 25°Y59'32 23°Y04'54 20°Y18'37 18°Y16'04 18°Y13'52 26°Y06'43 0°B 0°II 16°II15'07 23°II54'36 29°II41'53 0°G 1°G46'10 1°G37'31	3°02'55 0.60308 AU 27°38'46 1.32090 AU
desc. node direct morning max el morning set asc. node superior conj minimum elong max. Earth dist.	3806 May 11 22:29 3806 May 12 04:01 3806 May 17 20:26 3806 Jun 01 05:42 3806 Jun 13 10:23 3806 Jun 30 04:12 3806 Jun 30 23:22 3806 Jul 01 23:47 3806 Jul 07 23:51 3806 Jul 07 21:40 3806 Jul 08 01:08 3806 Jul 13 23:54 3806 Jul 14 20:46 3806 Jul 30 02:03	11°822'50 8°839'18 8°832'33 7°809'31 14°849'49 0°II 0°5 1°540'15 3°549'27 16°554'54 16°542'52 17°501'58 0°Ω	0.58152 AU 26°49'08 0°59'24 0°58'59	minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist.	3807 Apr 16 08:42 3807 Apr 16 11:46 3807 Apr 19 16:22 3807 Apr 23 07:58 3807 Apr 29 01:03 3807 Apr 29 22:13 3807 May 14 05:23 3807 May 17 20:34 3807 Jun 06 21:53 3807 Jun 15 06:02 3807 Jun 18 20:49 3807 Jun 21 12:36 3807 Jun 21 15:54	26°Y06'35 25°Y59'32 23°Y04'54 20°Y18'37 18°Y16'04 18°Y13'52 26°Y06'43 0°H 16°H15'07 23°H54'36 29°H41'53 0°©	3°02'55 0.60308 AU 27°38'46 1.32090 AU 0°37'04
desc. node direct morning max el morning set asc. node superior conj minimum elong max. Earth dist. evening rise	3806 May 11 22:29 3806 May 12 04:01 3806 May 17 20:26 3806 Jun 01 05:42 3806 Jun 13 10:23 3806 Jun 30 04:12 3806 Jun 30 23:22 3806 Jul 01 23:47 3806 Jul 07 23:51 3806 Jul 07 21:40 3806 Jul 08 01:08 3806 Jul 13 23:54 3806 Jul 14 20:46	11°822'50 8°839'18 8°832'33 7°809'31 14°849'49 0°11 0°5 1°540'15 3°549'27 16°554'54 16°54'52 17°501'58 0°0 1°050'25 0°10	0.58152 AU 26°49'08 0°59'24 0°58'59 1.32079 AU	minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong	3807 Apr 16 08:42 3807 Apr 16 11:46 3807 Apr 19 16:22 3807 Apr 23 07:58 3807 Apr 29 01:03 3807 Apr 29 22:13 3807 May 14 05:23 3807 May 17 20:34 3807 Jun 06 21:53 3807 Jun 15 06:02 3807 Jun 18 20:49 3807 Jun 21 12:36 3807 Jun 21 15:54 3807 Jun 22 11:14 3807 Jun 22 09:39 3807 Jun 29 07:02	26°Y06'35 25°Y59'32 23°Y04'54 20°Y18'37 18°Y16'04 18°Y13'52 26°Y06'43 0°B 0°II 16°II15'07 23°II54'36 29°II41'53 0°G 1°G46'10 1°G37'31 16°G39'02	3°02'55 0.60308 AU 27°38'46 1.32090 AU 0°37'04
desc. node direct morning max el morning set asc. node superior conj minimum elong max. Earth dist. evening rise desc. node	3806 May 11 22:29 3806 May 12 04:01 3806 May 17 20:26 3806 Jun 01 05:42 3806 Jun 30 04:12 3806 Jun 30 23:22 3806 Jul 01 23:47 3806 Jul 07 23:51 3806 Jul 07 21:40 3806 Jul 08 01:08 3806 Jul 13 23:54 3806 Jul 14 20:46 3806 Jul 30 02:03 3806 Aug 08 03:19	11°822'50 8°839'18 8°832'33 7°809'31 14°849'49 0°11 0°5 1°540'15 3°549'27 16°554'54 16°542'52 17°501'58 0°0 1°050'25 0°00 12°0538'02	0.58152 AU 26°49'08 0°59'24 0°58'59 1.32079 AU	minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise	3807 Apr 16 08:42 3807 Apr 16 11:46 3807 Apr 19 16:22 3807 Apr 23 07:58 3807 Apr 29 01:03 3807 Apr 29 22:13 3807 May 14 05:23 3807 May 17 20:34 3807 Jun 06 21:53 3807 Jun 15 06:02 3807 Jun 18 20:49 3807 Jun 21 12:36 3807 Jun 21 15:54 3807 Jun 22 11:14 3807 Jun 22 09:39 3807 Jun 29 07:02 3807 Jul 05 21:31	26°Y06'35 25°Y59'32 23°Y04'54 20°Y18'37 18°Y16'04 18°Y13'52 26°Y06'43 0°B 0°II 16°II15'07 23°II54'36 29°II41'53 0°G 1°G46'10 1°G37'31 16°G39'02 0°R	3°02'55 0.60308 AU 27°38'46 1.32090 AU 0°37'04 0°36'44
desc. node direct morning max el morning set asc. node superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	3806 May 11 22:29 3806 May 12 04:01 3806 May 17 20:26 3806 Jun 01 05:42 3806 Jun 13 10:23 3806 Jun 30 04:12 3806 Jun 30 23:22 3806 Jul 01 23:47 3806 Jul 07 23:51 3806 Jul 07 21:40 3806 Jul 08 01:08 3806 Jul 13 23:54 3806 Jul 14 20:46 3806 Jul 30 02:03 3806 Aug 08 03:19 3806 Aug 13 19:19	11°822'50 8°839'18 8°832'33 7°809'31 14°849'49 0°11 0°5 1°540'15 3°549'27 16°554'54 16°542'52 17°501'58 0°1 1°1050'25 0°10 12°1038'02 18°1046'25	0.58152 AU 26°49'08 0°59'24 0°58'59 1.32079 AU	minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node	3807 Apr 16 08:42 3807 Apr 16 11:46 3807 Apr 19 16:22 3807 Apr 23 07:58 3807 Apr 29 01:03 3807 Apr 29 22:13 3807 May 14 05:23 3807 May 17 20:34 3807 Jun 06 21:53 3807 Jun 15 06:02 3807 Jun 18 20:49 3807 Jun 21 12:36 3807 Jun 21 15:54 3807 Jun 22 11:14 3807 Jun 22 09:39 3807 Jun 29 07:02 3807 Jul 05 21:31 3807 Jul 26 00:22	26°Y06'35 25°Y59'32 23°Y04'54 20°Y18'37 18°Y16'04 18°Y13'52 26°Y06'43 0°B 0°II 16°II5'07 23°II54'36 29°II41'53 0°G 1°G37'31 16°G39'02 0°R 29°R27'15	3°02'55 0.60308 AU 27°38'46 1.32090 AU 0°37'04 0°36'44
desc. node direct morning max el morning set asc. node superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3806 May 11 22:29 3806 May 12 04:01 3806 May 17 20:26 3806 Jun 01 05:42 3806 Jun 13 10:23 3806 Jun 30 04:12 3806 Jun 30 23:22 3806 Jul 01 23:47 3806 Jul 07 23:51 3806 Jul 07 21:40 3806 Jul 08 01:08 3806 Jul 13 23:54 3806 Jul 14 20:46 3806 Jul 14 20:46 3806 Jul 30 02:03 3806 Aug 08 03:19 3806 Aug 13 19:19 3806 Aug 27 18:01 3806 Sep 03 13:39 3806 Sep 07 09:14	11°822'50 8°839'18 8°832'33 7°809'31 14°849'49 0°11 0°5 1°540'15 3°549'27 16°554'54 16°542'52 17°501'58 0°10 1°1050'25 0°10 12°1038'02 18°1046'25 25°1057'15	0.58152 AU 26°49'08 0°59'24 0°58'59 1.32079 AU	minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node	3807 Apr 16 08:42 3807 Apr 16 11:46 3807 Apr 19 16:22 3807 Apr 23 07:58 3807 Apr 29 01:03 3807 Apr 29 02:13 3807 May 14 05:23 3807 May 17 20:34 3807 Jun 06 21:53 3807 Jun 15 06:02 3807 Jun 15 06:02 3807 Jun 21 12:36 3807 Jun 21 15:54 3807 Jun 22 11:14 3807 Jun 22 09:39 3807 Jun 29 07:02 3807 Jul 05 21:31 3807 Jul 26 00:22 3807 Jul 26 14:53 3807 Jul 26 13:50 3807 Aug 09 14:13	26°Y06'35 25°Y59'32 23°Y04'54 20°Y18'37 18°Y16'04 18°Y13'52 26°Y06'43 0°B 0°II 16°II5'07 23°I54'36 29°I41'53 0°G 1°G37'31 16°G37'31 16°G39'02 0°R 29°R27'15 0°IP02'30	3°02'55 0.60308 AU 27°38'46 1.32090 AU 0°37'04 0°36'44
desc. node direct morning max el morning set asc. node superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3806 May 11 22:29 3806 May 12 04:01 3806 May 17 20:26 3806 Jun 01 05:42 3806 Jun 30 04:12 3806 Jun 30 23:22 3806 Jul 01 23:47 3806 Jul 07 23:51 3806 Jul 07 21:40 3806 Jul 08 01:08 3806 Jul 13 23:54 3806 Jul 14 20:46 3806 Jul 30 02:03 3806 Aug 08 03:19 3806 Aug 13 19:19 3806 Aug 27 18:01 3806 Sep 03 13:39	11°822'50 8°839'18 8°832'33 7°809'31 14°849'49 0°11 0°55 1°540'15 3°549'27 16°554'54 16°542'52 17°501'58 0°10 1°1050'25 0°10 12°1038'02 18°1046'25 25°1057'15 23°1058'47	0.58152 AU 26°49'08 0°59'24 0°58'59 1.32079 AU 26°41'39 0.60139 AU	minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	3807 Apr 16 08:42 3807 Apr 16 11:46 3807 Apr 19 16:22 3807 Apr 23 07:58 3807 Apr 29 01:03 3807 Apr 29 22:13 3807 May 14 05:23 3807 Jun 06 21:53 3807 Jun 15 06:02 3807 Jun 18 20:49 3807 Jun 21 12:36 3807 Jun 21 15:54 3807 Jun 22 11:14 3807 Jun 22 09:39 3807 Jun 29 07:02 3807 Jul 05 21:31 3807 Jul 26 00:22 3807 Jul 26 14:53 3807 Jul 26 13:50	26°Y06'35 25°Y59'32 23°Y04'54 20°Y18'37 18°Y16'04 18°Y13'52 26°Y06'43 0°B 0°II 16°II5'07 23°I54'36 29°II41'53 0°G 1°G37'31 16°G39'02 0°A 29°A27'15 0°IP,02'30 0°IP	3°02'55 0.60308 AU 27°38'46 1.32090 AU 0°37'04 0°36'44

min. Earth dist.	3807 Aug 20 02:51	3° m 07'27	0.58096 AU	evening set	3808 Jul 25 11:36	16° Ω 49'06	
inferior conj	3807 Aug 23 06:28	0° Mp 54'55		min. Earth dist.	3808 Jul 31 14:55		0.56320 AU
minimum elong	3807 Aug 23 08:21	0° mp 51'35		inferior conj	3808 Aug 03 01:25	13° Ω 19'45	
minimum ciong	3807 Aug 24 14:01	30°R Ω	3 07 17	minimum elong	3808 Aug 02 21:27	12° Ω 25'53	
morning rise	3807 Aug 31 06:30	26° Ω 36'42		morning rise	3808 Aug 11 09:54	8° Ω 21'22	1 37 12
direct	3807 Sep 02 18:38	26° Ω 17'12		direct	3808 Aug 14 03:37	8° Ω 01'57	
	3807 Sep 10 22:22	0° m		morning max el	3808 Aug 24 01:10	12° Ω 37'55	19°50'04
morning max el	3807 Sep 11 06:42	0° Mp 19'24	18°49'27	asc. node	3808 Aug 31 17:05	22° Ω 20'14	1, 200.
asc. node	3807 Sep 14 20:02	4° m/20'41			3808 Sep 05 04:01	0° m)	
morning set	3807 Sep 27 18:02	26° m 39'42		morning set	3808 Sep 10 21:21	11° m 09'52	
	3807 Sep 29 10:52	0∘ ⊽					
	1			superior conj	3808 Sep 18 17:12	27° m 00'25	1°43'03
superior conj	3807 Oct 06 06:44	13° ≏ 15′01	1°34'07	minimum elong	3808 Sep 18 18:13	27° m 05'26	1°43'02
minimum elong	3807 Oct 06 09:27	13° ≏ 27'55	1°33'54		3808 Sep 20 05:32	0∘ ত	
max. Earth dist.	3807 Oct 13 07:48	26° £ 12'02	1.39266 AU	max. Earth dist.	3808 Sep 24 12:37	8° ≏ 15'13	1.37211 AU
	3807 Oct 15 11:45	0°M		evening rise	3808 Sep 28 07:21	15° ≏ 11'59	
evening rise	3807 Oct 17 06:19	3°M03'05			3808 Oct 06 23:16	0°M	
desc. node	3807 Oct 21 23:39	10°M54'53		desc. node	3808 Oct 07 20:41	1°M26'24	
	3807 Nov 03 10:43	0°⊀			3808 Oct 28 02:24	0° ∡ ¹	
evening max el	3807 Nov 21 13:08	22° ∡ ⁴48′25	24°18'07	evening max el	3808 Nov 03 01:22	6° ₹ 129'52	25°32'09
retrograde	3807 Dec 02 18:50	29° ∡ ¹23'20		retrograde	3808 Nov 15 05:47	13° ∡ ¹29'47	
evening set	3807 Dec 08 03:40	27° ∡ 08'59		evening set	3808 Nov 21 04:32	11° ₹ 01'10	
asc. node	3807 Dec 11 19:16	23° ₹ 08'36		min. Earth dist.	3808 Nov 25 13:45	6° ∡ 12'10	0.67125 AU
min. Earth dist.	3807 Dec 12 20:33	21° ₹ 45'14	0.67731 AU	inferior conj	3808 Nov 26 18:59	4° ∡ ³38'25	-0°18'16
inferior conj	3807 Dec 13 14:50	20° ∡ ¹43'49	0°36'57	minimum elong	3808 Nov 26 19:27	4° ∡ ³36'54	0°18'05
minimum elong	3807 Dec 13 13:57	20° х 46′46	0°36'35	asc. node	3808 Nov 27 16:18	3° ∡ ³30'37	
morning rise	3807 Dec 19 00:18	14° ∡ °40′57			3808 Nov 30 19:44	30°RM₊	
direct	3807 Dec 22 20:30	13° ∡ 16'42		morning rise	3808 Dec 02 10:43	28°M43'26	
morning max el	3807 Dec 30 15:40	17° ∡ ⁴43'52	20°17'53	direct	3808 Dec 05 19:06	27°M38'50	
	3808 Jan 09 11:11	o°ප			3808 Dec 11 02:48	0° ∡ ¹	
desc. node	3808 Jan 17 22:53	12° る 23'24		morning max el	3808 Dec 12 20:45	1° ∡ ³35'47	19°16'28
morning set	3808 Jan 27 11:56	26° る 55'37		greatest brilliancy	3808 Dec 26 11:30	19° ∡ 56'39	-0.7m
	3808 Jan 29 11:28	0° ≈			3809 Jan 02 00:53	8°0	
max. Earth dist.	3808 Feb 06 12:32	12° ≈ 42'35	1.43631 AU	desc. node	3809 Jan 03 19:55	2° る 46'30	
				morning set	3809 Jan 05 12:23	5° る 23'19	
superior conj	3808 Feb 12 12:30	22° ≈ 28'24	-2°05'08	max. Earth dist.	3809 Jan 19 03:01	26° る 38'59	1.44788 AU
minimum elong	3808 Feb 12 09:31	22° ≈ 16′06	2°05'03		3809 Jan 21 05:52	0° ≈	
	3808 Feb 17 00:40	0° ∀					
evening rise	3808 Feb 25 03:47	13° ¥ 58′11		superior conj	3809 Jan 22 06:09	1° ≈ 36′25	-1°46'03
	3808 Mar 05 12:31	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	3809 Jan 21 21:47	1° ≈ 03'10	1°45'23
asc. node	3808 Mar 08 18:36	5° Y 02'34		evening rise	3809 Feb 05 17:06	25° ≈ 04'28	
evening max el	3808 Mar 13 16:27	11° Y 11'15	18°08'39		3809 Feb 08 16:25	0° ∀	
retrograde	3808 Mar 20 03:25	14° Y 34'14		asc. node	3809 Feb 23 15:37	22° ∺ 51'59	
evening set	3808 Mar 22 23:06	13° Ƴ 54'18		evening max el	3809 Feb 25 04:49	24°) (33′47	18°26'07
inferior conj	3808 Mar 29 05:09	8° Ƴ 43'23	3°31'04	retrograde	3809 Mar 03 16:46	28°) €06'17	
minimum elong	3808 Mar 29 06:31	8° Y 39'48	3°30'57	evening set	3809 Mar 06 18:15	27°) (14′34	
min. Earth dist.	3808 Apr 01 01:25	5° Y 45′23	0.62446 AU	inferior conj	3809 Mar 12 14:46	21°) 45′10	3°37'12
morning rise	3808 Apr 04 12:37	2° Y 41'09		minimum elong	3809 Mar 12 14:26	21°) √ 46′08	3°37'11
direct	3808 Apr 11 09:44	0° Y 08′18		min. Earth dist.	3809 Mar 14 20:01	19° ∺ 10'21	0.64340 AU
desc. node	3808 Apr 14 22:05	0° Ƴ 44'11		morning rise	3809 Mar 18 09:54	15°) 35′23	
morning max el	3808 Apr 25 11:04	8° Y 06'31	27°51'08	direct	3809 Mar 25 05:22	12°) 46′58	
	3808 May 12 06:26	0°8		desc. node	3809 Apr 01 19:07	15°) 33′10	
morning set	3808 May 29 07:20	0°Ⅱ31′24		morning max el	3809 Apr 07 20:19	20°) 42′07	27°27'08
	3808 May 29 01:08	$\Pi^{\circ}0$			3809 Apr 15 20:59	$0^{\circ}\mathbf{\Upsilon}$	
max. Earth dist.	3808 Jun 03 20:33	12° ∏ 08'06	1.32512 AU		3809 May 05 08:28	0°8	
asc. node	3808 Jun 04 17:53	14° Ⅱ 02'58		morning set	3809 May 13 00:37	14° 8 20'19	
		— .	004475-5	max. Earth dist.	3809 May 17 20:49	24° 8 07'20	1.33368 AU
superior conj	3808 Jun 05 20:30	16° Ⅲ 27'13	0°11'38		3809 May 20 16:02	Π $^{\circ}0$	
minimum elong	3808 Jun 05 19:57	16° Ⅲ 24'14	0°11'31		****		
behind sun begin	3808 Jun 05 16:21	16° Ⅱ 04'39		superior conj	3809 May 21 01:44	0° Ⅱ 51'31	
behind sun end	3808 Jun 05 23:34	16° Ⅱ 43'50		minimum elong	3809 May 21 02:33	0° П 55'52	0°15'57
	3808 Jun 12 02:11	0°95		behind sun begin	3809 May 21 02:20	0° ∏ 54'40	
evening rise	3808 Jun 12 18:49	1°528'43		behind sun end	3809 May 21 02:47	0° П 57'05	
	3808 Jun 28 10:04	0° N	24001124	asc. node	3809 May 22 14:55	4° Ⅱ 09'51	
evening max el	3808 Jul 07 04:29	10° Ω 38'45	24°01'34	evening rise	3809 May 28 06:11	16° Ⅱ 12'29	
desc. node	3808 Jul 11 21:21	14° £ 29'39			3809 Jun 04 03:33	0°95	2202 ****
retrograde	3808 Jul 20 22:50	17° Ω 34'32		evening max el	3809 Jun 18 18:45	21° © 03'04	22~24'41

desc. node	3809 Jun 28 18:21	27° © 10'02		evening max el	3810 May 31 17:37	1° © 48'23	20°55'56
retrograde	3809 Jul 28 18:21 3809 Jul 01 19:32	27° 9 31'28		retrograde	3810 Jun 12 08:24	7°\$29'23	20 33 30
•	3809 Jul 01 19:32 3809 Jul 04 20:47			-	3810 Jun 14 11:55	7°9518'30	
evening set		27°510'54	0.55142.411	evening set			
min. Earth dist.	3809 Jul 13 01:38	23°537'27	0.55143 AU	desc. node	3810 Jun 15 15:22	7°904'13	2022150
inferior conj	3809 Jul 14 02:39	23°502'01		inferior conj	3810 Jun 23 20:00	3°521'04	
minimum elong	3809 Jul 13 18:22	23°513'46	4°02'15	minimum elong	3810 Jun 23 13:26	3°930'22	
morning rise	3809 Jul 22 17:58	19° © 11'27		min. Earth dist.	3810 Jun 24 13:20	2°956'31	0.54854 AU
direct	3809 Jul 25 19:12	18°950'22	21011122		3810 Jun 30 11:21	30°RⅡ	
morning max el	3809 Aug 06 07:55	24°9512'22	21°11'32	morning rise	3810 Jul 02 14:47	29° Ⅱ 19'12	
	3809 Aug 11 11:51	0 $^{\circ}$ Ω		direct	3810 Jul 06 04:31	28° Ⅱ 51'41	
asc. node	3809 Aug 18 14:08	11° Ω 01'30			3810 Jul 11 16:40	0° ©	
morning set	3809 Aug 26 05:24	25° Ω 54'02		morning max el	3810 Jul 19 04:05	5° © 04'32	22°49'01
	3809 Aug 28 04:37	0°Щ		asc. node	3810 Aug 05 11:10	0° Ω 13'53	
					3810 Aug 05 08:17	0 $^{\circ}\Omega$	
superior conj	3809 Sep 02 14:12	11°Mp17'22	1°43'56	morning set	3810 Aug 10 16:10	10° Ω 46′01	
minimum elong	3809 Sep 02 13:41	11°Mp14'42	1°43'56				
max. Earth dist.	3809 Sep 06 22:24	20° Mp 06'14	1.35388 AU	superior conj	3810 Aug 17 18:21	25° Ω 55'01	1°38'08
evening rise	3809 Sep 11 03:07	28° Mp 14'13		minimum elong	3810 Aug 17 16:44	25° Ω 46′27	1°38'01
	3809 Sep 12 01:40	0∘ ত			3810 Aug 19 16:36	0° m þ	
desc. node	3809 Sep 24 17:41	21° ≏ 43'19		max. Earth dist.	3810 Aug 20 16:58	2° m 07'38	1.33935 AU
	3809 Sep 30 05:20	0° M.		evening rise	3810 Aug 25 13:13	11° m 57'28	
evening max el	3809 Oct 16 13:45	20°M₀09'58	26°33'06		3810 Sep 04 09:01	0∘ ত	
retrograde	3809 Oct 29 11:42	27°M24'03		desc. node	3810 Sep 11 14:41	11° ≏ 38'22	
evening set	3809 Nov 04 23:33	24°M45'26			3810 Sep 25 12:44	0° M .	
min. Earth dist.	3809 Nov 09 01:49	20°M32'01	0.66174 AU	evening max el	3810 Sep 29 02:09	3°M39'40	27°13'31
inferior conj	3809 Nov 10 18:30	18° M 29'55	-1°17'19	retrograde	3810 Oct 12 11:50	10°M57'47	
minimum elong	3809 Nov 10 20:37		1°16'26	evening set	3810 Oct 19 10:21	8°M16'19	
asc. node	3809 Nov 14 13:19	14°M22'19		min. Earth dist.	3810 Oct 23 06:25	4°MJ38'10	0.64877 AU
morning rise	3809 Nov 16 18:21	12°M45'19		inferior conj	3810 Oct 25 11:08	2°M13'00	
direct	3809 Nov 19 17:00	11°M56'39		minimum elong	3810 Oct 25 15:01	2°ML02'17	
morning max el	3809 Nov 26 08:17	15°M34'17	18°30'49	minimum clong	3810 Oct 27 13:01	30°R <u>Ω</u>	2 10 54
morning max cr	3809 Dec 06 23:56	0° √	10 30 47	morning rise	3810 Oct 31 20:43	26° ₽ 41'49	
morning set	3809 Dec 16 12:29	15° ₹ 06'01		asc. node	3810 Nov 01 10:22	26° ⊆ 27'49	
desc. node	3809 Dec 21 16:57	23°×721'26		direct	3810 Nov 03 12:01	26° ⊆ 05'09	
desc. Hode	3809 Dec 21 10:37 3809 Dec 25 21:43	23 × 21 20		morning max el	3810 Nov 09 23:44	20° ⊆ 32'38	18°01'51
	3809 Dec 23 21.43	0 0		morning max er	3810 Nov 10 10:25	29 = 32 38 0° M	16 01 31
aumorior aoni	2010 Ion 01 00:05	10°る10'40	1000120	morning set		26°M16'23	
superior conj	3810 Jan 01 09:05			morning set	3810 Nov 27 18:04		
minimum elong	3810 Jan 01 00:52	9° る 38'27	1.45247 AU		3810 Nov 29 23:50	0° ⊼ ¹	
max. Earth dist.	3810 Jan 01 21:08		1.45247 AU	desc. node	3810 Dec 08 13:57	14° ∡ 03'44	
	3810 Jan 13 23:45	0°≈			2010 D 11 17 20	100 706105	0001107
evening rise	3810 Jan 17 07:05	5°≈13'52		superior conj	3810 Dec 11 17:20	19° ∡ ¹06'05	
greatest brilliancy	3810 Jan 26 14:51	19°≈58'52	-0.8m	minimum elong	3810 Dec 11 14:41	18° ∡ 55'32	
	3810 Feb 02 05:44	0° ∀		max. Earth dist.	3810 Dec 15 16:11	25° ∡ ¹22'13	1.44966 AU
evening max el	3810 Feb 08 14:48	8°) €02'43	19°01'24		3810 Dec 18 14:53	0°ರ	
asc. node	3810 Feb 10 12:38	9°) 47′54					
retrograde				evening rise	3810 Dec 28 00:54	14°る37'44	
evening set	3810 Feb 15 11:46	11° 米 55'48			3810 Dec 28 00:54 3811 Jan 07 01:42	14° පි 37'44 0°≋	
	3810 Feb 18 19:46	10° ¥ 51′22		greatest brilliancy	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36	14°る37'44 0°≈ 5°≈48'21	-0.6m
inferior conj	3810 Feb 18 19:46 3810 Feb 24 09:54	10°¥51'22 5°¥05'23	3°27'16	greatest brilliancy evening max el	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36 3811 Jan 22 20:30	14°る37'44 0°≈ 5°≈48'21 21°≈34'13	-0.6m 19°52'54
minimum elong	3810 Feb 18 19:46	10°¥51′22 5°¥05′23 5°¥10′24	3°27'04	greatest brilliancy evening max el asc. node	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36 3811 Jan 22 20:30 3811 Jan 28 09:40	14°♂37'44 0°≈ 5°≈48'21 21°≈34'13 25°≈35'45	
3	3810 Feb 18 19:46 3810 Feb 24 09:54	10°¥51'22 5°¥05'23		greatest brilliancy evening max el	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36 3811 Jan 22 20:30	14°る37'44 0°≈ 5°≈48'21 21°≈34'13	
minimum elong	3810 Feb 18 19:46 3810 Feb 24 09:54 3810 Feb 24 08:18	10°¥51′22 5°¥05′23 5°¥10′24	3°27'04	greatest brilliancy evening max el asc. node	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36 3811 Jan 22 20:30 3811 Jan 28 09:40	14°♂37'44 0°≈ 5°≈48'21 21°≈34'13 25°≈35'45	
minimum elong	3810 Feb 18 19:46 3810 Feb 24 09:54 3810 Feb 24 08:18 3810 Feb 25 23:41	10° 米 51'22 5° 米 05'23 5° 米 10'24 3° 米 06'09	3°27'04	greatest brilliancy evening max el asc. node retrograde	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36 3811 Jan 22 20:30 3811 Jan 28 09:40 3811 Jan 30 09:21	14°♂37'44 0°≈ 5°≈48'21 21°≈34'13 25°≈35'45 25°≈57'08	
minimum elong min. Earth dist.	3810 Feb 18 19:46 3810 Feb 24 09:54 3810 Feb 24 08:18 3810 Feb 25 23:41 3810 Feb 28 16:17	10° ★ 51'22 5° ★ 05'23 5° ★ 10'24 3° ★ 06'09 30° R≈	3°27'04	greatest brilliancy evening max el asc. node retrograde evening set	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36 3811 Jan 22 20:30 3811 Jan 28 09:40 3811 Jan 30 09:21 3811 Feb 03 01:13	14°♂37'44 0°≈ 5°≈48'21 21°≈34'13 25°≈35'45 25°≈57'08 24°≈38'49	19°52'54
minimum elong min. Earth dist. morning rise	3810 Feb 18 19:46 3810 Feb 24 09:54 3810 Feb 24 08:18 3810 Feb 25 23:41 3810 Feb 28 16:17 3810 Mar 01 20:29	10° ★51'22 5° ₩05'23 5° ₩10'24 3° ₩06'09 30° R≈ 28° ≈52'21	3°27'04	greatest brilliancy evening max el asc. node retrograde evening set inferior conj	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36 3811 Jan 22 20:30 3811 Jan 28 09:40 3811 Jan 30 09:21 3811 Feb 03 01:13 3811 Feb 08 11:30	14°る37'44 0°≈ 5°≈48'21 21°≈34'13 25°≈35'45 25°≈57'08 24°≈38'49 18°≈38'30	19°52'54 3°05'04
minimum elong min. Earth dist. morning rise	3810 Feb 18 19:46 3810 Feb 24 09:54 3810 Feb 24 08:18 3810 Feb 25 23:41 3810 Feb 28 16:17 3810 Mar 01 20:29 3810 Mar 08 07:55	10° ★51'22 5° ★05'23 5° ★10'24 3° ★06'09 30° R≈ 28°≈52'21 26°≈02'12	3°27'04	greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36 3811 Jan 22 20:30 3811 Jan 28 09:40 3811 Jan 30 09:21 3811 Feb 03 01:13 3811 Feb 08 11:30 3811 Feb 08 09:12	14°♂37'44 0°≈ 5°≈48'21 21°≈34'13 25°≈35'45 25°≈57'08 24°≈38'49 18°≈38'30 18°≈46'11	19°52'54 3°05'04 3°04'35
minimum elong min. Earth dist. morning rise direct	3810 Feb 18 19:46 3810 Feb 24 09:54 3810 Feb 24 08:18 3810 Feb 25 23:41 3810 Feb 28 16:17 3810 Mar 01 20:29 3810 Mar 08 07:55 3810 Mar 17 04:52	10° ★51'22 5° ★05'23 5° ★10'24 3° ★06'09 30° R≈ 28°≈52'21 26°≈02'12 0° ★	3°27'04 0.65865 AU	greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36 3811 Jan 22 20:30 3811 Jan 28 09:40 3811 Jan 30 09:21 3811 Feb 03 01:13 3811 Feb 08 11:30 3811 Feb 08 09:12 3811 Feb 09 10:53	14°る37'44 0°≈ 5°≈48'21 21°≈34'13 25°≈35'45 25°≈57'08 24°≈38'49 18°≈46'11 17°≈20'31	19°52'54 3°05'04 3°04'35
minimum elong min. Earth dist. morning rise direct desc. node	3810 Feb 18 19:46 3810 Feb 24 09:54 3810 Feb 24 08:18 3810 Feb 25 23:41 3810 Feb 28 16:17 3810 Mar 01 20:29 3810 Mar 08 07:55 3810 Mar 17 04:52 3810 Mar 19 16:09	10° ★ 51'22 5° ₩ 05'23 5° ₩ 10'24 3° ₩ 06'09 30° R≈ 28°≈52'21 26°≈02'12 0° ₩ 2° ₩ 08'50	3°27'04 0.65865 AU	greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36 3811 Jan 22 20:30 3811 Jan 28 09:40 3811 Jan 30 09:21 3811 Feb 03 01:13 3811 Feb 08 11:30 3811 Feb 08 09:12 3811 Feb 09 10:53 3811 Feb 13 16:57	14°♂37'44 0°≈ 5°≈48'21 21°≈34'13 25°≈35'45 25°≈57'08 24°≈38'49 18°≈38'30 18°≈46'11 17°≈20'31 12°≈24'41	19°52'54 3°05'04 3°04'35
minimum elong min. Earth dist. morning rise direct desc. node	3810 Feb 18 19:46 3810 Feb 24 09:54 3810 Feb 24 08:18 3810 Feb 25 23:41 3810 Feb 28 16:17 3810 Mar 01 20:29 3810 Mar 08 07:55 3810 Mar 17 04:52 3810 Mar 19 16:09 3810 Mar 21 06:14	10° ★ 51'22 5° ₩ 05'23 5° ₩ 10'24 3° ₩ 06'09 30° R≈ 28° ≈ 52'21 26° ≈ 02'12 0° ₩ 2° ₩ 08'50 3° ₩ 41'31	3°27'04 0.65865 AU	greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36 3811 Jan 22 20:30 3811 Jan 28 09:40 3811 Jan 30 09:21 3811 Feb 03 01:13 3811 Feb 08 11:30 3811 Feb 08 09:12 3811 Feb 09 10:53 3811 Feb 13 16:57 3811 Feb 19 16:08	14°♂37'44 0°≈ 5°≈48'21 21°≈34'13 25°≈35'45 25°≈57'08 24°≈38'49 18°≈46'11 17°≈20'31 12°≈24'41 9°≈44'46	19°52'54 3°05'04 3°04'35 0.66970 AU
minimum elong min. Earth dist. morning rise direct desc. node morning max el	3810 Feb 18 19:46 3810 Feb 24 09:54 3810 Feb 24 08:18 3810 Feb 25 23:41 3810 Feb 28 16:17 3810 Mar 01 20:29 3810 Mar 08 07:55 3810 Mar 17 04:52 3810 Mar 19 16:09 3810 Mar 21 06:14 3810 Apr 10 05:34	10° ★ 51'22 5° ★ 05'23 5° ★ 10'24 3° ★ 06'09 30° R≈ 28° ≈ 52'21 26° ≈ 02'12 0° ★ 2° ★ 08'50 3° ★ 41'31 0° ♥	3°27'04 0.65865 AU	greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36 3811 Jan 22 20:30 3811 Jan 28 09:40 3811 Jan 30 09:21 3811 Feb 03 01:13 3811 Feb 08 11:30 3811 Feb 08 09:12 3811 Feb 09 10:53 3811 Feb 13 16:57 3811 Feb 19 16:08 3811 Mar 03 15:07	14°♂37'44 0°≈ 5°≈48'21 21°≈34'13 25°≈35'45 25°≈57'08 24°≈38'49 18°≈38'30 18°≈46'11 17°≈20'31 12°≈24'41 9°≈44'46 16°≈53'09	19°52'54 3°05'04 3°04'35 0.66970 AU
minimum elong min. Earth dist. morning rise direct desc. node morning max el	3810 Feb 18 19:46 3810 Feb 24 09:54 3810 Feb 24 08:18 3810 Feb 25 23:41 3810 Feb 28 16:17 3810 Mar 01 20:29 3810 Mar 08 07:55 3810 Mar 17 04:52 3810 Mar 19 16:09 3810 Mar 21 06:14 3810 Apr 10 05:34 3810 Apr 26 06:25	10°\£51'22 5°\£05'23 5°\£10'24 3°\£06'09 30°\£ 28°\£52'21 26°\£02'12 0°\£ 2°\£08'50 3°\£41'31 0°\£ 27°\£731'50 0°\£	3°27'04 0.65865 AU	greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36 3811 Jan 22 20:30 3811 Jan 28 09:40 3811 Jan 30 09:21 3811 Feb 03 01:13 3811 Feb 08 11:30 3811 Feb 08 09:12 3811 Feb 09 10:53 3811 Feb 13 16:57 3811 Feb 19 16:08 3811 Mar 03 15:07 3811 Mar 06 13:10	14°♂37'44 0°≈ 5°≈48'21 21°≈34'13 25°≈35'45 25°≈57'08 24°≈38'49 18°≈38'30 18°≈46'11 17°≈20'31 12°≈24'41 9°≈44'46 16°≈53'09 20°≈01'00	19°52'54 3°05'04 3°04'35 0.66970 AU
minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set	3810 Feb 18 19:46 3810 Feb 24 09:54 3810 Feb 24 08:18 3810 Feb 25 23:41 3810 Feb 28 16:17 3810 Mar 01 20:29 3810 Mar 08 07:55 3810 Mar 17 04:52 3810 Mar 19 16:09 3810 Mar 21 06:14 3810 Apr 10 05:34 3810 Apr 26 06:25 3810 Apr 27 13:34	10°\£51'22 5°\£05'23 5°\£10'24 3°\£06'09 30°\£ 28°\£52'21 26°\£02'12 0°\£ 2°\£08'50 3°\£41'31 0°\£ 27°\£731'50 0°\£	3°27'04 0.65865 AU 26°32'45	greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36 3811 Jan 22 20:30 3811 Jan 28 09:40 3811 Jan 30 09:21 3811 Feb 03 01:13 3811 Feb 08 11:30 3811 Feb 08 09:12 3811 Feb 09 10:53 3811 Feb 13 16:57 3811 Feb 19 16:08 3811 Mar 03 15:07 3811 Mar 06 13:10 3811 Mar 14 13:09 3811 Apr 03 04:38	14°る37'44 0°≈ 5°≈48'21 21°≈34'13 25°≈35'45 25°≈57'08 24°≈38'49 18°≈38'30 18°≈46'11 17°≈20'31 12°≈24'41 9°≈44'46 16°≈53'09 20°≈01'00 0°米	19°52'54 3°05'04 3°04'35 0.66970 AU
minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	3810 Feb 18 19:46 3810 Feb 24 09:54 3810 Feb 24 08:18 3810 Feb 25 23:41 3810 Feb 28 16:17 3810 Mar 01 20:29 3810 Mar 08 07:55 3810 Mar 17 04:52 3810 Mar 19 16:09 3810 Mar 21 06:14 3810 Apr 10 05:34 3810 Apr 26 06:25 3810 Apr 27 13:34 3810 Apr 30 10:04	10°\£51'22 5°\£05'23 5°\£10'24 3°\£06'09 30°\£ 28°\£52'21 26°\£02'12 0°\£ 2°\£08'50 3°\£41'31 0°\£ 27°\£731'50 0°\£	3°27'04 0.65865 AU 26°32'45 1.34688 AU	greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36 3811 Jan 22 20:30 3811 Jan 28 09:40 3811 Jan 30 09:21 3811 Feb 03 01:13 3811 Feb 08 11:30 3811 Feb 08 09:12 3811 Feb 09 10:53 3811 Feb 13 16:57 3811 Feb 19 16:08 3811 Mar 03 15:07 3811 Mar 06 13:10 3811 Mar 14 13:09 3811 Apr 03 04:38 3811 Apr 08 20:09	14°る37'44 0°≈ 5°≈48'21 21°≈34'13 25°≈35'45 25°≈57'08 24°≈38'49 18°≈38'30 18°≈46'11 17°≈20'31 12°≈24'41 9°≈44'46 16°≈53'09 20°≈01'00 0°升 0°介 9°介52'42	19°52'54 3°05'04 3°04'35 0.66970 AU
minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	3810 Feb 18 19:46 3810 Feb 24 09:54 3810 Feb 24 08:18 3810 Feb 25 23:41 3810 Feb 28 16:17 3810 Mar 01 20:29 3810 Mar 08 07:55 3810 Mar 17 04:52 3810 Mar 19 16:09 3810 Mar 21 06:14 3810 Apr 10 05:34 3810 Apr 26 06:25 3810 Apr 27 13:34 3810 Apr 30 10:04	10°\£51'22 5°\£05'23 5°\£10'24 3°\£06'09 30°\\$\\$ 28°\\$52'21 26°\\$02'12 0°\£ 2°\£08'50 3°\£41'31 0°\\$ 27°\\$731'50 0°\\$ 5°\\$33'29	3°27'04 0.65865 AU 26°32'45 1.34688 AU -0°45'05	greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36 3811 Jan 22 20:30 3811 Jan 28 09:40 3811 Jan 30 09:21 3811 Feb 03 01:13 3811 Feb 08 11:30 3811 Feb 08 09:12 3811 Feb 09 10:53 3811 Feb 13 16:57 3811 Feb 19 16:08 3811 Mar 03 15:07 3811 Mar 06 13:10 3811 Mar 14 13:09 3811 Apr 03 04:38	14°♂37'44 0°≈ 5°≈48'21 21°≈34'13 25°≈35'45 25°≈57'08 24°≈38'49 18°≈38'30 18°≈46'11 17°≈20'31 12°≈24'41 9°≈44'46 16°≈53'09 20°≈01'00 0°升	19°52'54 3°05'04 3°04'35 0.66970 AU 25°17'02
minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	3810 Feb 18 19:46 3810 Feb 24 09:54 3810 Feb 24 08:18 3810 Feb 25 23:41 3810 Feb 28 16:17 3810 Mar 01 20:29 3810 Mar 08 07:55 3810 Mar 17 04:52 3810 Mar 19 16:09 3810 Mar 21 06:14 3810 Apr 10 05:34 3810 Apr 26 06:25 3810 Apr 27 13:34 3810 Apr 30 10:04	10°\£51'22 5°\£05'23 5°\£10'24 3°\£06'09 30°\\$\\$ 28°\\$52'21 26°\\$02'12 0°\£ 2°\£08'50 3°\£41'31 0°\\$ 27°\\$731'50 0°\\$ 5°\\$33'29 14°\\$52'50 15°\\$05'09	3°27'04 0.65865 AU 26°32'45 1.34688 AU -0°45'05	greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36 3811 Jan 22 20:30 3811 Jan 28 09:40 3811 Jan 30 09:21 3811 Feb 03 01:13 3811 Feb 08 11:30 3811 Feb 09 10:53 3811 Feb 19 16:08 3811 Mar 03 15:07 3811 Mar 04 13:09 3811 Apr 03 04:38 3811 Apr 08 20:09 3811 Apr 12 12:13	14°♂37'44 0°≈ 5°≈48'21 21°≈34'13 25°≈35'45 25°≈57'08 24°≈38'49 18°≈46'11 17°≈20'31 12°≈24'41 9°≈44'46 16°≈53'09 20°≈01'00 0° ₩ 0° Ψ 9°Ψ'52'42 16° Ψ'37'17	19°52'54 3°05'04 3°04'35 0.66970 AU 25°17'02
minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	3810 Feb 18 19:46 3810 Feb 24 09:54 3810 Feb 24 08:18 3810 Feb 25 23:41 3810 Feb 28 16:17 3810 Mar 01 20:29 3810 Mar 08 07:55 3810 Mar 17 04:52 3810 Mar 19 16:09 3810 Mar 21 06:14 3810 Apr 10 05:34 3810 Apr 26 06:25 3810 Apr 27 13:34 3810 Apr 30 10:04 3810 May 05 00:43 3810 May 05 00:43 3810 May 09 11:56	10°\£51'22 5°\£05'23 5°\£10'24 3°\£06'09 30°\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3°27'04 0.65865 AU 26°32'45 1.34688 AU -0°45'05	greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36 3811 Jan 22 20:30 3811 Jan 28 09:40 3811 Jan 30 09:21 3811 Feb 03 01:13 3811 Feb 08 11:30 3811 Feb 08 09:12 3811 Feb 09 10:53 3811 Feb 13 16:57 3811 Feb 19 16:08 3811 Mar 03 15:07 3811 Mar 06 13:10 3811 Mar 14 13:09 3811 Apr 08 20:09 3811 Apr 12 12:13	14°♂37'44 0°≈ 5°≈48'21 21°≈34'13 25°≈35'45 25°≈57'08 24°≈38'49 18°≈46'11 17°≈20'31 12°≈24'41 9°≈44'46 16°≈53'09 20°≈01'00 0°¥ 0°Y 9°Y'52'42 16°Y37'17 28°Y'23'34	19°52'54 3°05'04 3°04'35 0.66970 AU 25°17'02 1.36451 AU -1°13'37
minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	3810 Feb 18 19:46 3810 Feb 24 09:54 3810 Feb 24 08:18 3810 Feb 25 23:41 3810 Feb 28 16:17 3810 Mar 01 20:29 3810 Mar 08 07:55 3810 Mar 17 04:52 3810 Mar 19 16:09 3810 Mar 21 06:14 3810 Apr 10 05:34 3810 Apr 26 06:25 3810 Apr 27 13:34 3810 Apr 30 10:04 3810 May 05 00:43 3810 May 05 00:43 3810 May 09 11:56 3810 May 12 06:39	10°\t51'22 5°\t65'23 5°\t60'9 30°\t86 28°\times52'21 26°\times02'12 0°\times 2°\times08'50 3°\times41'31 0°\times 27°\times33'29 14°\times52'50 15°\times05'09 24°\times11'28 0°\times	3°27'04 0.65865 AU 26°32'45 1.34688 AU -0°45'05	greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36 3811 Jan 22 20:30 3811 Jan 28 09:40 3811 Jan 30 09:21 3811 Feb 03 01:13 3811 Feb 08 11:30 3811 Feb 09 10:53 3811 Feb 13 16:57 3811 Feb 13 16:57 3811 Feb 19 16:08 3811 Mar 03 15:07 3811 Mar 06 13:10 3811 Mar 14 13:09 3811 Apr 08 20:09 3811 Apr 12 12:13	14°♂37'44 0°≈ 5°≈48'21 21°≈34'13 25°≈35'45 25°≈57'08 24°≈38'49 18°≈46'11 17°≈20'31 12°≈24'41 9°≈44'46 16°≈53'09 20°≈01'00 0°¥ 0°Y 9°Y'52'42 16°Y'37'17 28°Y'23'34 28°Y'24'45	19°52'54 3°05'04 3°04'35 0.66970 AU 25°17'02 1.36451 AU -1°13'37
minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	3810 Feb 18 19:46 3810 Feb 24 09:54 3810 Feb 24 08:18 3810 Feb 25 23:41 3810 Feb 28 16:17 3810 Mar 01 20:29 3810 Mar 08 07:55 3810 Mar 17 04:52 3810 Mar 19 16:09 3810 Mar 21 06:14 3810 Apr 10 05:34 3810 Apr 26 06:25 3810 Apr 27 13:34 3810 Apr 30 10:04 3810 May 05 00:43 3810 May 05 00:43 3810 May 09 11:56	10°\£51'22 5°\£05'23 5°\£10'24 3°\£06'09 30°\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3°27'04 0.65865 AU 26°32'45 1.34688 AU -0°45'05	greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	3810 Dec 28 00:54 3811 Jan 07 01:42 3811 Jan 10 22:36 3811 Jan 22 20:30 3811 Jan 28 09:40 3811 Jan 30 09:21 3811 Feb 03 01:13 3811 Feb 08 11:30 3811 Feb 08 09:12 3811 Feb 09 10:53 3811 Feb 13 16:57 3811 Feb 19 16:08 3811 Mar 03 15:07 3811 Mar 06 13:10 3811 Mar 14 13:09 3811 Apr 08 20:09 3811 Apr 12 12:13	14°♂37'44 0°≈ 5°≈48'21 21°≈34'13 25°≈35'45 25°≈57'08 24°≈38'49 18°≈46'11 17°≈20'31 12°≈24'41 9°≈44'46 16°≈53'09 20°≈01'00 0°¥ 0°Y 9°Y'52'42 16°Y37'17 28°Y'23'34	19°52'54 3°05'04 3°04'35 0.66970 AU 25°17'02 1.36451 AU -1°13'37

evening rise	3811 Apr 26 19:52	14° 8 58'47		asc. node	3812 Apr 12 06:02	3° 8 41'20	
evening rise	3811 May 04 16:07	0° Ⅱ		evening max el	3812 Apr 26 02:45	25° 8 16'49	18°51'27
evening max el	3811 May 14 04:38	13° Ⅱ 12'53	19°43'48	retrograde	3812 May 04 10:29	29° 8 21'00	10 3127
retrograde	3811 May 24 01:30	18° Ⅱ 00'48	1, 1,5 1,0	evening set	3812 May 06 14:05	29° 8 05'46	
evening set	3811 May 26 00:39	17° I I50'14		inferior conj	3812 May 14 13:59		1°21'25
desc. node	3811 Jun 02 12:24	14° Ⅱ 36'33		minimum elong	3812 May 14 16:53	24° 8 41'52	1°20'27
inferior conj	3811 Jun 03 20:03	13° Ⅱ 47'55	-0°23'22	min. Earth dist.	3812 May 17 18:47	22° 8 29'34	0.57032 AU
minimum elong	3811 Jun 03 18:59	13° Ⅱ 49'34	0°22'59	desc. node	3812 May 19 09:26	21° 8 25'55	
min. Earth dist.	3811 Jun 06 02:41	12° Ⅱ 23'19	0.55534 AU	morning rise	3812 May 22 16:30	19° 8 41'02	
morning rise	3811 Jun 12 11:00	9° Ⅱ 17'27		direct	3812 May 28 01:33	18° 8 31'22	
direct	3811 Jun 16 20:30	8° Ⅱ 34'37		morning max el	3812 Jun 11 09:32	25° 8 58'54	26°05'48
morning max el	3811 Jun 30 18:30	15° Ⅲ 31′06	24°32'08	-	3812 Jun 15 04:28	$\Pi^{\circ}0$	
	3811 Jul 12 07:35	0°9			3812 Jul 04 10:39	0ಂತ	
asc. node	3811 Jul 23 08:14	19° 5 349'18		asc. node	3812 Jul 09 05:17	9°540'23	
morning set	3811 Jul 26 03:59	25° © 40'52		morning set	3812 Jul 09 15:09	10°532'25	
	3811 Jul 28 04:28	$0^{\circ}\Omega$					
				superior conj	3812 Jul 16 14:17	25°541'00	1°10'36
superior conj	3811 Aug 02 03:06	10° Ω 45'32	1°26'45	minimum elong	3812 Jul 16 11:58	25° © 28'10	1°10'12
minimum elong	3811 Aug 02 00:53	10° Ω 33′28	1°26'29	max. Earth dist.	3812 Jul 17 05:43	27° © 05'52	1.32265 AU
max. Earth dist.	3811 Aug 03 20:22	14° Ω 29'12	1.32896 AU		3812 Jul 18 13:28	$0^{\circ}\Omega$	
evening rise	3811 Aug 09 09:47	26° Ω 10'51		evening rise	3812 Jul 23 13:35	10° Ω 43'50	
	3811 Aug 11 07:23	0° m p			3812 Aug 02 13:17	0° m ∕	
	3811 Aug 28 18:25	0∘ ত		desc. node	3812 Aug 15 08:45	19° m 41'40	
desc. node	3811 Aug 29 11:43	1° ≏ 02'21		evening max el	3812 Aug 23 19:25	29° m 16'42	27°07'31
evening max el	3811 Sep 11 12:59	16° ≏ 46'49	27°26'33		3812 Aug 24 14:06	0ಂ ಹ	
retrograde	3811 Sep 25 05:31	24° £ 02'48		retrograde	3812 Sep 06 16:02	6° £ 29'21	
evening set	3811 Oct 02 09:55	21° ≏ 28'12		evening set	3812 Sep 13 18:18	4° £ 13'46	
min. Earth dist.	3811 Oct 06 01:27	18° ≏ 22'03	0.63249 AU	min. Earth dist.	3812 Sep 17 09:44		0.61330 AU
inferior conj	3811 Oct 08 18:14	15° ≏ 41'41			3812 Sep 19 03:43	30° ₽, m þ	
minimum elong	3811 Oct 08 23:37	15° ≏ 28'20	3°16'55	inferior conj	3812 Sep 20 12:36	28° m 47'21	
morning rise	3811 Oct 15 14:43	10° £ 27'24		minimum elong	3812 Sep 20 18:28	28° m 34'29	4°12'01
direct	3811 Oct 18 01:19	9° £ 59'05		morning rise	3812 Sep 27 20:25	23° m 53'34	
asc. node	3811 Oct 19 07:25	10° Ω 06'44		direct .	3812 Sep 30 05:08	23° m/30'36	
morning max el	3811 Oct 24 16:17	13° £ 24'43	17°50'25	asc. node	3812 Oct 05 04:28	25° m 16'28	15055105
	3811 Nov 05 01:22	0°M		morning max el	3812 Oct 07 06:51	27° m 02'42	17°57'35
morning set	3811 Nov 10 00:44	8°M39'26		. ,	3812 Oct 09 21:44	0° ⊽	
	2011 N 21 22 52	200M 00126	0022152	morning set	3812 Oct 23 02:01	21° £ 55'35	
superior conj	3811 Nov 21 23:53 3811 Nov 22 02:17	29°M.08'36 29°M.18'33	0°23'52		3812 Oct 27 11:57	0° M ₊	
minimum elong	3811 Nov 22 02:17 3811 Nov 22 12:17	29°11⊾18'33 0° √	0°23'32	aumariar aani	2012 Nav. 02 00:21	10°M30'26	0°59'54
desc. node	3811 Nov 25 10:59	0 x . 4° ∡ 750'14		superior conj minimum elong	3812 Nov 02 09:21 3812 Nov 02 13:32	10 1163020 10°M48'42	0°59'21
max. Earth dist.	3811 Nov 28 09:36	9° 🗷 35'38	1.43984 AU	max. Earth dist.	3812 Nov 02 13:32 3812 Nov 09 22:34	23°M20'11	1.42414 AU
evening rise	3811 Nov 28 09:30 3811 Dec 07 10:16	23° х 47'07	1.43964 AU	desc. node	3812 Nov 11 08:02	25°M37'46	1.42414 AU
evening rise	3811 Dec 07 10:10	23 × 47 07 0°る		desc. Hode	3812 Nov 14 00:46	0° ₹	
	3812 Jan 01 10:06	0° ≈		evening rise	3812 Nov 14 00:40	3° × ⁷ 21'57	
evening max el	3812 Jan 05 20:47	5°≈06'36	20°57'58	6 v 6 mmg 1150	3812 Dec 03 21:39	0°ਰ	
retrograde	3812 Jan 14 07:19	10°≈06'13	20 0, 00	evening max el	3812 Dec 18 15:38	18° る 40'27	22°12'50
asc. node	3812 Jan 15 06:42	10°≈01'01		retrograde	3812 Dec 28 03:53	24° ට 20'01	
evening set	3812 Jan 18 08:36	8° ≈ 32'54		asc. node	3813 Jan 01 03:44	22° る 54'57	
inferior conj	3812 Jan 23 17:06	2°≈20'50	2°33'07	evening set	3813 Jan 01 16:15	22° る 30'50	
minimum elong	3812 Jan 23 14:36	2° ≈ 29'26		inferior conj	3813 Jan 07 00:40		1°53'12
min. Earth dist.	3812 Jan 24 03:30	1°≈45′02	0.67665 AU	minimum elong	3813 Jan 06 22:27	16° ප 18'04	1°52'25
	3812 Jan 25 10:33	30° Ŗ ⋜		min. Earth dist.	3813 Jan 06 23:24	16° る 14'48	0.67971 AU
morning rise	3812 Jan 28 20:27	26° る 07'55		morning rise	3813 Jan 12 04:32	9° る 59'48	
direct	3812 Feb 03 05:12	23° る 46'16		direct	3813 Jan 16 22:23	8° る 00'23	
	3812 Feb 13 19:10	0° ≈		morning max el	3813 Jan 26 10:40	13° る 36'33	22°21'29
morning max el	3812 Feb 13 23:40	0° ≈ 11'16	23°49'59	desc. node	3813 Feb 07 07:14	28° る 13'27	
desc. node	3812 Feb 21 10:12	8° ≈ 47'34			3813 Feb 08 13:53	0° ≈	
	3812 Mar 07 10:31	0° ∀			3813 Feb 28 09:22	0° ∀	
morning set	3812 Mar 20 11:51	21°) €06'05		morning set	3813 Feb 28 23:57	0° ∺ 59'11	
max. Earth dist.	3812 Mar 24 08:03	27°) 47′37	1.38538 AU	max. Earth dist.	3813 Mar 06 04:49	9°) 36′43	1.40711 AU
	3812 Mar 25 13:45	0 ° $\mathbf{\Upsilon}$					
				superior conj	3813 Mar 13 23:44	23° 升 10′32	
superior conj	3812 Mar 31 15:51	11° Υ 13'04		minimum elong	3813 Mar 14 03:38	23° ∺ 27'59	1°58'39
minimum elong	3812 Mar 31 20:33	11° Y 35'16	1°38'51		3813 Mar 17 17:52	0°Υ	
evening rise	3812 Apr 09 17:19	28° Y 46'42		evening rise	3813 Mar 24 04:21	12° Y 00′24	
	3812 Apr 10 08:20	9° 8		asc. node	3813 Mar 30 03:05	22° Y 58'45	

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	3813 Apr 03 07:01	0°8			3814 Mar 10 02:38	0° Υ	
evening max el	3813 Apr 09 09:02	7° 8 53'53	18°19'23	asc. node	3814 Mar 17 00:05	11° Ƴ 48'48	
retrograde	3813 Apr 16 14:32	11° 8 29'47		evening max el	3814 Mar 23 20:07	20° Ƴ 54'53	18°07'06
evening set	3813 Apr 19 00:35	11° 8 06'34		retrograde	3814 Mar 30 10:48	24° Ƴ 18'17	
inferior conj	3813 Apr 26 05:27	6° 8 27'50	2°35'20	evening set	3814 Apr 02 03:07	23° Ƴ 44'51	
minimum elong	3813 Apr 26 09:05	6° 8 20'07	2°34'26	inferior conj	3814 Apr 08 16:22	18° Ƴ 45'44	3°18'12
min. Earth dist.	3813 Apr 29 15:54	3° 8 35'01	0.59046 AU	minimum elong	3814 Apr 08 18:46	18° Ƴ 39'53	3°17'51
morning rise	3813 May 03 14:45	0° 8 51'48		min. Earth dist.	3814 Apr 11 20:05	15° Ƴ 42'24	0.61232 AU
	3813 May 05 10:16	30° ₹ Υ		morning rise	3814 Apr 15 08:31	12° Ƴ 50′29	
desc. node	3813 May 06 06:27	29° Ƴ 41'46		direct	3814 Apr 22 02:51	10° Ƴ 32'08	
direct	3813 May 09 20:27	29° Ƴ 07'03		desc. node	3814 Apr 23 03:28	10° Ƴ 35′09	
	3813 May 14 09:47	8° 0		morning max el	3814 May 06 08:11	18° Ƴ 29'09	27°48'40
morning max el	3813 May 24 05:45	6° 8 54'07	27°14'38		3814 May 16 00:31	9° 8	
	3813 Jun 10 13:02	Π $^{\circ}0$			3814 Jun 03 07:14	Π $^{\circ}0$	
morning set	3813 Jun 24 00:01	25° Ⅱ 15'18		morning set	3814 Jun 08 04:42	9° Ⅱ 43'17	
asc. node	3813 Jun 26 02:20	29° Ⅱ 41'53		asc. node	3814 Jun 12 23:24	19° Ⅱ 49'03	
	3813 Jun 26 05:43	0°€		max. Earth dist.	3814 Jun 14 03:41	22° Ⅲ 22'31	1.32208 AU
max. Earth dist.	3813 Jun 30 17:25	9° 5 47'43	1.32035 AU				
				superior conj	3814 Jun 15 12:49	25° Ⅲ 23'29	0°26'37
superior conj	3813 Jul 01 02:06	10° © 35'37	0°50'21	minimum elong	3814 Jun 15 11:38	25° Ⅱ 16'59	0°26'22
minimum elong	3813 Jul 01 00:08	10° © 24'43	0°49'57		3814 Jun 17 15:13	0 \circ \odot	
evening rise	3813 Jul 07 22:06	25° © 28'39		evening rise	3814 Jun 22 09:13	10° © 18'26	
	3813 Jul 10 02:07	0 $^{\circ}\Omega$			3814 Jul 02 10:48	$0 {\circ} \Omega$	
	3813 Jul 27 10:23	O° m y		evening max el	3814 Jul 18 11:37	21° Ω 57'26	24°55'38
desc. node	3813 Aug 02 05:47	7° m √18'09		desc. node	3814 Jul 20 02:46	23° Ω 26'38	
evening max el	3813 Aug 05 19:02	10° m 59'46	26°15'23	retrograde	3814 Aug 01 10:24	29° Ω 01'00	
retrograde	3813 Aug 19 18:24	18° Mp 09′29		evening set	3814 Aug 06 19:16	27° Ω 55'26	
evening set	3813 Aug 26 06:43	16° Mp 25′23		min. Earth dist.	3814 Aug 11 23:08	25° Ω 09'21	0.57283 AU
min. Earth dist.	3813 Aug 30 08:00	13° m 50'15	0.59260 AU	inferior conj	3814 Aug 14 21:26	23° Ω 12'59	
inferior conj	3813 Sep 02 14:39	11° m 20'33		minimum elong	3814 Aug 14 21:01		5°09'36
minimum elong	3813 Sep 02 18:52	11°Mp 12'29	4°54'04	morning rise	3814 Aug 23 01:15	19° Ω 03'54	
morning rise	3813 Sep 10 09:13	6° Mp 49′34		direct	3814 Aug 25 15:16	18° Ω 44'45	
direct	3813 Sep 12 19:06	6° ™ 29'30		morning max el	3814 Sep 03 16:53	23° Ω 00'14	19°12'30
morning max el	3813 Sep 20 16:09	10° m 17'41	18°24'30	asc. node	3814 Sep 08 22:35	29° Ω 14'54	
asc. node	3813 Sep 22 01:32	11° m)44'10			3814 Sep 09 11:01	0° m ∕	
	3813 Oct 03 15:00	0∘ ⊽		morning set	3814 Sep 20 15:57	20° m/08'30	
morning set	3813 Oct 06 16:25	5° £ 48'47			3814 Sep 25 14:42	0∘ ⊽	
	2012 0 4 15 10 07	220 0 00112	1004141		2014 G 20 20 42	60 0 22120	1020150
superior conj	3813 Oct 15 18:07	23° ⊆ 00'12		superior conj	3814 Sep 28 20:42	6° £ 22'38	
minimum elong	3813 Oct 15 21:41	23° ≏ 16'42	1°24'20	minimum elong	3814 Sep 28 22:41	6° £ 32'19	
Earth diet	3813 Oct 19 14:42	0°M	1 40450 ATT	max. Earth dist.	3814 Oct 05 10:06		1.38377 AU
max. Earth dist.	3813 Oct 23 05:49		1.40459 AU	evening rise	3814 Oct 09 05:01	25° Ω 26'59	
evening rise desc. node	3813 Oct 27 16:27 3813 Oct 29 05:04	13°M51'52		desc. node	3814 Oct 11 20:34 3814 Oct 16 02:06	0° ጤ 7° ጤ 00'20	
desc. node		16°M22'20 0°⊀		desc. node		/ 1160020 0° √ 1	
	3813 Nov 06 20:53 3813 Nov 29 02:07	0°중		avanina may al	3814 Oct 31 12:09 3814 Nov 13 19:05	0 x . 15° ∡ 758'04	24°50'45
evening max el	3813 Nov 29 02:07 3813 Dec 01 06:20	0 3 2° る 17'02	22022124	evening max el retrograde	3814 Nov 15 19:05 3814 Nov 25 11:15	22° × ⁷ 45'09	24 30 43
retrograde	3813 Dec 01 00:20	2 8° ප 34'18	23 32 34	evening set	3814 Nov 25 11:15 3814 Dec 01 01:51	20° × 24'39	
evening set	3813 Dec 11 21.33 3813 Dec 16 22:31	6°る29'02		min. Earth dist.	3814 Dec 01 01:31 3814 Dec 05 15:27	20 x ·24 39 15° x 15'14	0.67516 AU
asc. node	3813 Dec 19 00:45	4°る22'36		asc. node	3814 Dec 05 21:46	14° 🖈 54'26	0.07510710
inferior conj	3813 Dec 19 00:43		1°06'30	inferior conj	3814 Dec 05 21:40 3814 Dec 06 14:17	13° × 59'49	0°14'06
minimum elong	3813 Dec 22 06:49	0° る 09'15	1°05'54	minimum elong	3814 Dec 06 13:56	14° × 700'59	0°13'56
min. Earth dist.	3813 Dec 21 20:10	0° 궁 45'44	0.67915 AU	transit middle	3814 Dec 06 13:56	14° ∡ 00′59	0°13'56
	3813 Dec 22 09:31	30°R. ✓	***************************************	transit begin	3814 Dec 06 12:31	14° ∡ °05'38	
morning rise	3813 Dec 27 15:05	23° × 757'43		transit end	3814 Dec 06 15:20	13° х 56'19	
direct	3813 Dec 31 18:45	22° ₹ 21'05		morning rise	3814 Dec 12 02:09	7° × 759'43	
morning max el	3814 Jan 09 03:25	27° х 11'19	20°59'36	direct	3814 Dec 15 17:05	6° х 44′09	
<i>5</i> 2-	3814 Jan 11 17:43	0°ප		morning max el	3814 Dec 23 03:56	10° ₹ 57'20	19°49'47
desc. node	3814 Jan 25 04:16	18° る 07'23		<i>5</i>	3815 Jan 06 12:03	0°ਰ ਹਾਰ	
	3814 Feb 02 03:09	0° ≈		desc. node	3815 Jan 12 01:19	8° ට 21'48	
morning set	3814 Feb 08 08:27	9° ≈ 36'08		morning set	3815 Jan 18 04:22	17° る 45'14	
max. Earth dist.	3814 Feb 16 07:41	22° ≈ 19'16	1.42687 AU	5	3815 Jan 26 01:05	0°≈	
	3814 Feb 20 23:16	0°) €		max. Earth dist.	3815 Jan 29 18:20		1.44208 AU
superior conj	3814 Feb 23 09:12	4°) €04'12	-2°07'23	superior conj	3815 Feb 03 16:54	13° ≈ 48'50	-1°59'29
minimum elong	3814 Feb 23 09:31	4°) €05'35		minimum elong	3815 Feb 03 11:19	13° ≈ 26'13	
evening rise	3814 Mar 07 00:57	24°) 30′19		Į.	3815 Feb 13 11:48	0° ∀	
=							

evening rise asc. node	3815 Feb 17 02:46 3815 Mar 03 21:06	6°) 08'41 0° Υ 03'23		superior conj minimum elong	3816 Jan 14 02:16 3816 Jan 13 17:03	22°る36'45 22°る00'27	
use. Houe	3815 Mar 03 20:05	0° Υ		minimum crong	3816 Jan 18 18:25	0°≈	1 31 10
evening max el	3815 Mar 07 08:52	4° Y 11'57	18°13'54	evening rise	3816 Jan 29 06:11	16° ≈ 50'30	
retrograde	3815 Mar 13 19:05	7° Y 37'07			3816 Feb 06 08:57	0° ∀	
evening set	3815 Mar 16 17:16	6° Y 52'13		asc. node	3816 Feb 18 18:06	17°) 31′57	
inferior conj	3815 Mar 22 18:51		3°35'55	evening max el	3816 Feb 18 20:34	17° ∺ 38'14	18°39'03
minimum elong	3815 Mar 22 19:27	1° Υ 31'48	3°35'53	retrograde	3816 Feb 25 11:15	21°) 17'57	
	3815 Mar 24 04:40	30° ₹		evening set	3816 Feb 28 15:30	20°) €20'43	
min. Earth dist.	3815 Mar 25 09:02	28°) (43'15	0.63296 AU	inferior conj	3816 Mar 05 08:55	14°) (43'55	3°34'40
morning rise	3815 Mar 28 20:37	25°) 27'36 22°) 46'09		minimum elong	3816 Mar 05 08:00	14°) 46'44 12°) 23'29	3°34'36 0.65041 AU
direct desc. node	3815 Apr 04 18:12 3815 Apr 10 00:30	24° H 06'51		min. Earth dist. morning rise	3816 Mar 07 07:27 3816 Mar 11 00:00	8°\(\frac{12}{32}\)	0.65041 AU
desc. Hode	3815 Apr 17 21:30	24 χ0031 0°Υ		direct	3816 Mar 17 16:44	5°) 42'04	
morning max el	3815 Apr 18 15:26	0° Υ 44'08	27°45'04	desc. node	3816 Mar 26 21:31	9°) 45'39	
	3815 May 10 02:45	0°8	_,	morning max el	3816 Mar 31 01:10	13°) €31'15	27°07'17
morning set	3815 May 23 02:53	23° 8 48'31		5 8	3816 Apr 13 08:42	0°Υ	
	3815 May 26 03:44	$\Pi^{\circ}0$			3816 May 01 17:52	0°8	
max. Earth dist.	3815 May 28 08:36	4° Ⅱ 37'16	1.32814 AU	morning set	3816 May 05 15:44	7° 8 22'50	
				max. Earth dist.	3816 May 10 04:40	16° 8 23'32	1.33876 AU
superior conj	3815 May 30 20:36	9° ∏ 58′05	0°00'05				
minimum elong	3815 May 30 20:36	9° ∏ 58′04	0°00'05	superior conj	3816 May 13 23:29	24° 8 13'38	
behind sun begin	3815 May 30 15:23	9° ∏ 29'59		minimum elong	3816 May 14 00:58	24° 8 21'23	0°28'02
behind sun end	3815 May 31 01:49	10° Ⅲ 26′11		asc. node	3816 May 16 17:26	0°∏02'22	
asc. node	3815 May 30 20:25	9° I I57'05			3816 May 16 17:00	0°II	
evening rise	3815 Jun 06 21:01	25° ∏ 06'12		evening rise	3816 May 21 07:42	9° Ⅱ 46'12	
	3815 Jun 09 05:14 3815 Jun 27 16:56	0ం V 0ంతి		avanina may al	3816 May 31 22:34	0°ତ 12° ତ 54'44	21°45'15
evening max el	3815 Jun 30 00:43	2° Ω 25'15	23°20'21	evening max el desc. node	3816 Jun 10 17:50 3816 Jun 22 20:46	12°934'44 19°904'19	21-45-15
desc. node	3815 Jul 06 23:46	7°Ω33'12	23 20 21	retrograde	3816 Jun 23 05:27	19° 5 04'19	
retrograde	3815 Jul 13 13:30	9° Ω 11'20		evening set	3816 Jun 25 19:31	18°9549'33	
evening set	3815 Jul 17 10:23	8° Ω 38'35		inferior conj	3816 Jul 05 04:22	14° © 47'18	-3°25'39
min. Earth dist.	3815 Jul 24 10:22	5° Ω 26'21	0.55724 AU	minimum elong	3816 Jul 04 20:02	14°958'58	3°23'12
inferior conj	3815 Jul 26 08:13	4° Ω 18'54	-4°42'49	min. Earth dist.	3816 Jul 04 20:55	14° © 57'43	0.54906 AU
minimum elong	3815 Jul 26 01:52	4° Ω 28'16	4°41'47	morning rise	3816 Jul 13 21:51	10° © 54'51	
morning rise	3815 Aug 03 19:45	0° Ω 25′28		direct	3816 Jul 17 03:49	10° © 31'44	
direct	3815 Aug 06 16:28	0° Ω 05'32		morning max el	3816 Jul 29 08:05	16° © 14'43	21°51'34
morning max el	3815 Aug 17 06:20	5° Ω 00'09	20°22'15		3816 Aug 08 23:27	0 ° Ω	
asc. node	3815 Aug 26 19:38	17° Ω 33'45		asc. node	3816 Aug 12 16:42	6° Ω 29'10	
	3815 Sep 02 13:01	0° m		morning set	3816 Aug 19 07:03	19° Ω 33'53	
morning set	3815 Sep 04 21:35	4° m 45'42			3816 Aug 24 05:39	0° m)	
aumorior comi	2015 Cap. 12 12:07	200 m 22140	1944!10	aumariar aani	2016 Aug 26 12:21	49 m 40122	1942!12
superior conj minimum elong	3815 Sep 12 12:07 3815 Sep 12 12:26	20° m/22'48 20° m/24'25	1°44'19 1°44'19	superior conj minimum elong	3816 Aug 26 12:31 3816 Aug 26 11:29	4° m/49'23 4° m/43'57	1°42'13 1°42'11
minimum clong	3815 Sep 17 08:40	0° ⊡	1 44 19	max. Earth dist.	3816 Aug 30 06:15	12° My 32'57	1.34725 AU
max. Earth dist.	3815 Sep 17 16:40	ი∘ ჲ 38'34	1.36405 AU	evening rise	3816 Sep 03 16:59	21°m/21'02	1.5 1/25 110
evening rise	3815 Sep 21 14:37	8° ⊆ 00'23	1.50.00110	evening rise	3816 Sep 08 08:16	0∘ ⊽	
desc. node	3815 Oct 02 23:07	27° Ω 26'32		desc. node	3816 Sep 18 20:07	17° ≏ 35'01	
	3815 Oct 04 14:05	0° M			3816 Sep 27 10:23	0° M	
evening max el	3815 Oct 27 07:32	29°M40'36	26°00'06	evening max el	3816 Oct 08 20:05	13°ML17'31	26°53'08
	3815 Oct 27 15:36	0° ∡ 7		retrograde	3816 Oct 21 23:19	20°M33'37	
retrograde	3815 Nov 08 19:58	6° ҂ 47'03		evening set	3816 Oct 28 16:18	17°M52'39	
evening set	3815 Nov 15 00:28	4° ∡ 13'48		min. Earth dist.	3816 Nov 01 15:49	13°M54'38	0.65673 AU
	3815 Nov 19 00:12	30°RM		inferior conj	3816 Nov 03 13:36	11°M42'00	
min. Earth dist.	3815 Nov 19 06:48	29°M39'43	0.66771 AU	minimum elong	3816 Nov 03 16:28	11°M33'40	1°41'56
inferior conj	3815 Nov 20 16:43	27°M53'43		asc. node	3816 Nov 08 15:52	6°M41'07	
minimum elong	3815 Nov 20 17:52	27°M50'09	0°42'26	morning rise	3816 Nov 09 17:27	6°M02'53	
asc. node morning rise	3815 Nov 22 18:49 3815 Nov 26 11:41	25°M22'20 22°M02'38		direct morning max el	3816 Nov 12 12:45 3816 Nov 19 01:31	5°M19'43 8°M51'31	18°16'24
direct	3815 Nov 29 15:44	21°M05'06		morning max er	3816 Nov 19 01:31 3816 Dec 03 18:10	8°11€31'31	10 10 24
morning max el	3815 Dec 06 11:56	24°M52'18	18°54'57	morning set	3816 Dec 03 18:10 3816 Dec 08 01:57	7° ∡¹ 01'30	
man or	3815 Dec 10 20:35	0° √	100101	desc. node	3816 Dec 15 19:23	19° ∡ 29'04	
morning set	3815 Dec 28 13:09	26° ⋌ ¹40'34			3816 Dec 22 10:25	0°る	
desc. node	3815 Dec 29 22:22	28° ₹ 50'36				=	
	3815 Dec 30 16:05	8°0		superior conj	3816 Dec 23 04:45	1° る 12'14	-0°49'03
max. Earth dist.	3816 Jan 12 11:06	20° る 02'39	1.45080 AU	minimum elong	3816 Dec 22 22:35	0° る 47'57	0°48'14
				max. Earth dist.	3816 Dec 25 06:30	4° る 27'49	1.45220 AU

evening rise	3817 Jan 08 10:46	26° る 38'12		behind sun begin	3817 Dec 02 11:05	9° ∡ 52'17	
	3817 Jan 10 14:25	0° ≈		behind sun end	3817 Dec 03 07:17	11° ∡ 14'06	
greatest brilliancy	3817 Jan 19 21:39	14°≈25'51	-0.7m	desc. node	3817 Dec 02 16:25	10° ∡ 13'56	
	3817 Jan 31 03:28	0° ∺		max. Earth dist.	3817 Dec 08 01:05	18° ∡ ⁴49'28	1.44625 AU
evening max el	3817 Feb 01 04:52	1°) €08'07	19°21'26		3817 Dec 15 04:10	0°る	
asc. node	3817 Feb 04 15:09	4°) €00'41		evening rise	3817 Dec 18 23:15	5° පි 51'46	
retrograde	3817 Feb 08 07:47	5°) 13′04			3818 Jan 04 00:23	0° ≈	20010102
evening set	3817 Feb 11 18:58	4°) €02'44		evening max el	3818 Jan 15 08:16	14°≈39'56	20°19'02
: <i>£</i> :	3817 Feb 15 20:39	30°R≈	2910100	asc. node	3818 Jan 22 12:11 3818 Jan 23 05:55	19°≈15'22 19°≈18'21	
inferior conj minimum elong	3817 Feb 17 07:09 3817 Feb 17 05:12	28°≈10′03 28°≈16′24	3°19'09 3°18'51	retrograde evening set	3818 Jan 27 01:30	19°≈18′21 17°≈53′54	
min. Earth dist.	3817 Feb 17 03.12 3817 Feb 18 14:32	26°≈28'18	0.66383 AU	inferior conj	3818 Feb 01 10:47	17 ≈33 34 11°≈48'01	2°52'36
morning rise	3817 Feb 18 14.32 3817 Feb 22 15:09	20 ≈28 18 21°≈56'24	0.00383 AU	minimum elong	3818 Feb 01 10.47	11 ≈48 01 11°≈56'19	2°52'00
direct	3817 Feb 28 21:36	19°≈09'43		min. Earth dist.	3818 Feb 02 04:29	10°≈48'00	0.67314 AU
morning max el	3817 Mar 13 10:59	26°≈37'41	26°02'39	morning rise	3818 Feb 06 14:59	5°≈34'07	0.07314 AC
desc. node	3817 Mar 13 18:34	26°≈56'57	20 02 37	direct	3818 Feb 12 08:04	3°≈01'14	
dese. node	3817 Mar 16 14:17	0°) €		morning max el	3818 Feb 23 19:42	9°≈53'10	24°40'41
	3817 Apr 06 23:13	$0^{\circ}\Upsilon$		desc. node	3818 Feb 28 15:37	15°≈14'41	
morning set	3817 Apr 18 15:19	20° Y 14'16			3818 Mar 11 18:01	0°) €	
max. Earth dist.	3817 Apr 22 13:19	27° Ƴ 39'10	1.35391 AU		3818 Mar 30 15:08	$0^{\circ}\Upsilon$	
	3817 Apr 23 18:16	0°8		morning set	3818 Mar 31 20:28	2° Y 08'31	
	•			max. Earth dist.	3818 Apr 04 11:42	8° Ƴ 40'08	1.37311 AU
superior conj	3817 Apr 27 18:58	8° 8 02'24	-0°57'21		-		
minimum elong	3817 Apr 27 22:01	8° 8 17'54	0°56'48	superior conj	3818 Apr 11 03:57	21° Υ 16'20	-1°25'05
asc. node	3817 May 03 14:28	20° 8 00'16		minimum elong	3818 Apr 11 08:18	21° Y 37'28	1°24'28
evening rise	3817 May 05 15:09	24° 8 11'19			3818 Apr 15 14:07	$0^{\circ}S$	
	3817 May 08 12:04	$\Pi^{\circ}0$		evening rise	3818 Apr 19 17:04	8° 8 14'50	
evening max el	3817 May 23 21:32	23° ∏ 54′25	20°22'50	asc. node	3818 Apr 20 11:30	9° 8 46'34	
retrograde	3817 Jun 03 18:51	29° Ⅱ 13'09			3818 May 01 21:34	$\Pi^{\circ}0$	
evening set	3817 Jun 05 18:41	29° Ⅱ 03'13		evening max el	3818 May 06 13:32	5° Ⅱ 35'54	19°19'02
desc. node	3817 Jun 09 17:47	27° Ⅱ 50'36		retrograde	3818 May 15 17:45	10° Ⅱ 03'35	
inferior conj	3817 Jun 14 22:43	25° ∏ 05'08		evening set	3818 May 17 18:00	9° Ⅱ 51'39	
minimum elong	3817 Jun 14 18:23	25° Ⅱ 11'29		inferior conj	3818 May 26 05:28	5° Ⅱ 43'34	
min. Earth dist.	3817 Jun 16 09:06	24° Ⅱ 14'57	0.55027 AU	minimum elong	3818 May 26 06:29	5° Ⅱ 41'53	0°23'56
morning rise	3817 Jun 23 16:59	20° Ⅱ 52'49		desc. node	3818 May 27 14:49	4° Ⅱ 48'19	0.50004.477
direct	3817 Jun 27 13:59	20°II20'22	22022112	min. Earth dist.	3818 May 28 23:48	3°II54'34	0.56084 AU
morning max el	3817 Jul 11 01:11	26° Ⅱ 53'04	23°33'12	morning rise	3818 Jun 03 15:57	0°II57'27	
1	3817 Jul 14 01:47	0.2 0.2		direct	3818 Jun 08 11:19	0°Ⅲ04'27 7°Ⅲ16'43	2501.4100
asc. node	3817 Jul 30 13:45	25° © 51'52 0° Ω		morning max el	3818 Jun 22 15:12 3818 Jul 09 07:16	/°Щ1643 0°9	25-14-09
morning set	3817 Aug 01 15:03 3817 Aug 03 18:29	4° Ω 27'31		asc. node	3818 Jul 17 10:47	0 55 15°534'16	
morning set	3617 Aug 03 16.29	4 062/31		morning set	3818 Jul 19 06:10	19° © 21'05	
superior conj	3817 Aug 10 18:55	19° Ω 33'18	1°33'57	morning set	3818 Jul 24 04:18	0°Ω	
minimum elong	3817 Aug 10 10:33	19° Ω 22'57			3010 Jul 24 04.10	0 00	
max. Earth dist.	3817 Aug 13 04:40		1.33434 AU	superior conj	3818 Jul 26 04:56	4° Ω 26'31	1°20'26
	3817 Aug 15 17:26	0° m)		minimum elong	3818 Jul 26 02:37	4°Ω13'48	1°20'07
evening rise	3817 Aug 18 07:56	5° m) 17'50		max. Earth dist.	3818 Jul 27 10:42	7° Ω 09'08	1.32569 AU
Č	3817 Aug 31 23:57	0∘ ⊽		evening rise	3818 Aug 02 07:54	19° Ω 40'15	
desc. node	3817 Sep 05 17:08	7° ≏ 18'10			3818 Aug 07 12:53	0° m	
evening max el	3817 Sep 21 07:53	26° ≏ 38'35	27°22'43	desc. node	3818 Aug 23 14:10	26° Mp 24'51	
	3817 Sep 25 06:10	0° M ₊			3818 Aug 26 06:28	0∘ ত	
retrograde	3817 Oct 04 20:56	3°M56'56		evening max el	3818 Sep 03 17:04	9° ≏ 30'57	27°22'41
evening set	3817 Oct 11 22:49	1°M16'37		retrograde	3818 Sep 17 12:02	16° ≏ 46′26	
	3817 Oct 13 11:57	30° ₹ Ω		evening set	3818 Sep 24 16:31	14° ≙ 18'19	
min. Earth dist.	3817 Oct 15 16:28	27° £ 53'05		min. Earth dist.	3818 Sep 28 07:07	11° ≏ 23'27	0.62450 AU
inferior conj	3817 Oct 18 02:33	25° ≙ 19'55		inferior conj	3818 Oct 01 04:39	8° ≏ 39'43	
minimum elong	3817 Oct 18 07:08	25° ≙ 07'48	2°42'38	minimum elong	3818 Oct 01 10:25	8° ≏ 26'05	3°41'19
morning rise	3817 Oct 24 16:43	19° ≙ 55'51		morning rise	3818 Oct 08 05:59	3° △ 33'50	
asc. node	3817 Oct 26 12:57	19° £ 25'44		direct	3818 Oct 10 15:16	3° ₽ 08'16	
direct	3817 Oct 27 05:37	19° £ 23'15	1705 450	asc. node	3818 Oct 13 10:00	3° £ 44'01	15051100
morning max el	3817 Nov 02 17:56	22° £ 48'54	17°54'52	morning max el	3818 Oct 17 10:04	6° £ 36′00	17°51'09
	3817 Nov 08 09:34	0°M			3818 Nov 01 13:33	0°M	
morning set	3817 Nov 19 19:05	18°M45'40		morning set	3818 Nov 02 10:27	1°M33'20	
	3817 Nov 26 10:59	0° ∡ 7		gunorior co-:	2010 Nov. 12 15:27	210M 10120	0°40'28
superior coni	3817 Dec 02 21:20	10° ∡ ³33'52	-0°01'26	superior conj	3818 Nov 13 15:27	21°M10'29 21°M25'30	0°40'28 0°39'58
superior conj minimum elong	3817 Dec 02 21:20 3817 Dec 02 21:11	10° × '33'52 10° × '33'14		minimum elong	3818 Nov 13 19:00 3818 Nov 18 22:29	21°11625′30 0° √ 7	U 3738
mmmum ciong	J017 DCC 02 21.11	10 🗡 33 14	J UI 24		JOIO 190V 10 44.49	· ^	

desc. node	3818 Nov 19 13:28	1° ∡ 01'16		desc. node	3819 Nov 06 10:30	21° M 47'40	
			1 42274 ATT				
max. Earth dist.	3818 Nov 20 16:19	2° 🗷 50'31	1.43374 AU	evening rise	3819 Nov 08 10:38	25°M02'57	
evening rise	3818 Nov 28 09:59	15° ₹ 07'07			3819 Nov 11 13:16	0° ∡	
	3818 Dec 08 04:54	0°る	21020152		3819 Dec 02 02:18	0° る	22046122
evening max el	3818 Dec 29 06:13	28° ⋜ 12'59	21°28'52	evening max el	3819 Dec 11 23:14	•	22°46'33
_	3818 Dec 31 03:02	0° ≈		retrograde	3819 Dec 21 22:51	17° る 43'44	
retrograde	3819 Jan 07 03:30	3° ≈ 29'35		evening set	3819 Dec 26 16:26	15° る 47'47	
asc. node	3819 Jan 09 09:14	3° ≈ 02'19		asc. node	3819 Dec 27 06:17	15° 云 17'20	
evening set	3819 Jan 11 09:11	1° ≈ 49'52		inferior conj	3820 Jan 01 01:17	9° ප 25'14	1°34'10
	3819 Jan 13 07:00	30°₹ ⋜		minimum elong	3819 Dec 31 23:20	9° る 32'00	1°33'26
inferior conj	3819 Jan 16 17:29	25° ⋜ 33'54		min. Earth dist.	3819 Dec 31 19:23	9° ⋜ 45'39	0.67997 AU
minimum elong	3819 Jan 16 15:03	25° る 42'20	2°16'20	morning rise	3820 Jan 06 06:07	3° る 16'14	
min. Earth dist.	3819 Jan 16 22:53	25° る 15'12	0.67844 AU	direct	3820 Jan 10 17:55	1°る26'22	
morning rise	3819 Jan 21 20:44	19° る 21'34		morning max el	3820 Jan 19 17:38	6° る 41'39	21°45'25
direct	3819 Jan 26 23:11	17°る08'50		desc. node	3820 Feb 02 09:43	23° る 58'22	
morning max el	3819 Feb 06 04:42	23° る 13'27	23°11'50		3820 Feb 06 14:01	0° ≈	
	3819 Feb 12 03:45	0° ≈		morning set	3820 Feb 21 00:38	22° ≈ 06'41	
desc. node	3819 Feb 15 12:40	4° ≈ 19'33			3820 Feb 25 21:23	0° ∀	
	3819 Mar 05 03:20	0° ∀		max. Earth dist.	3820 Feb 27 05:45	2°) 13′54	1.41598 AU
morning set	3819 Mar 13 01:00	12°) 49′00					
max. Earth dist.	3819 Mar 17 06:31	20° ∺ 01'29	1.39469 AU	superior conj	3820 Mar 05 21:26	15° ∺ 17'26	-2°04'10
	3819 Mar 22 21:15	$0^{\circ}\Upsilon$		minimum elong	3820 Mar 06 00:11	15° ¥ 29'31	2°04'03
					3820 Mar 14 01:53	0°Υ	
superior conj	3819 Mar 24 22:25	3° Y 45′24	-1°48'42	evening rise	3820 Mar 16 15:56	4° Υ 45'14	
minimum elong	3819 Mar 25 03:02	4° Υ 06'47		asc. node	3820 Mar 24 05:34	18° Y 22'50	
evening rise	3819 Apr 03 10:31	21° Υ 49'04	1 10 10	use. Houe	3820 Apr 01 07:11	0°8	
asc. node	3819 Apr 07 08:33	29° Υ 16'15		evening max el	3820 Apr 02 00:27	0° 8 44'13	18°11'45
asc. node	3819 Apr 07 08:55	0° 8		retrograde	3820 Apr 02 00:27 3820 Apr 08 22:05	4° 8 12'43	10 11 43
avaning may al	3819 Apr 19 15:40	17° 8 55'45	18°35'25	evening set	3820 Apr 10 11:01	3° 8 45'12	
evening max el	3819 Apr 27 10:37	21° 8 45'26	16 33 23	evening set	3820 Apr 17 04:31	30°RΥ	
retrograde	•	21° 8 27'05		: <i>c</i> :	•	28° Y 57'29	2057102
evening set	3819 Apr 29 17:02		1056140	inferior conj	3820 Apr 18 08:43	28° Y 50'09	2°57'02
inferior conj	3819 May 07 08:34	17° 8 00'23	1°56'48	minimum elong	3820 Apr 18 11:58		2°56'21
minimum elong	3819 May 07 12:08	16° 8 53'29	1°55'44	min. Earth dist.	3820 Apr 21 17:22	25° Y 57'25	0.59978 AU
min. Earth dist.	3819 May 10 17:50	14° 8 24'57	0.57848 AU	morning rise	3820 Apr 25 10:32	23° Y 12′20	
desc. node	3819 May 14 11:50	12° 8 00'58		desc. node	3820 Apr 30 08:52	21° Y 19'44	
morning rise	3819 May 15 04:03	11° 8 40'36		direct	3820 May 01 22:50	21° Y 12'44	
direct	3819 May 20 22:56	10° 8 16'11		morning max el	3820 May 16 06:40	29° Y ′04′06	27°33'45
morning max el	3819 Jun 04 07:54	17° 8 53'20	26°38'49		3820 May 17 04:51	$0^{\circ}S$	
	3819 Jun 14 09:45	Π °0			3820 Jun 07 06:24	$\Pi^{\circ}0$	
	3819 Jul 01 16:29	0		morning set	3820 Jun 16 23:51	18° Ⅱ 46'44	
morning set	3819 Jul 03 16:33	4° © 09'43		asc. node	3820 Jun 20 04:51	25° Ⅱ 34'35	
asc. node	3819 Jul 04 07:50	5° © 30'30			3820 Jun 22 05:44	0 \circ \odot	
				max. Earth dist.	3820 Jun 23 09:12	2° © 30'38	1.32064 AU
superior conj	3819 Jul 10 16:37	19° © 22'41	1°02'28				
minimum elong	3819 Jul 10 14:22	19° © 10'20	1°02'05	superior conj	3820 Jun 24 04:08	4°গু14'46	0°40'40
max. Earth dist.	3819 Jul 10 21:30	19° 5 49'40	1.32117 AU	minimum elong	3820 Jun 24 02:26	4° © 05'26	0°40'20
	3819 Jul 15 13:11	$0^{\circ}\Omega$		evening rise	3820 Jun 30 23:53	19° 5 07'24	
evening rise	3819 Jul 17 14:01	4° Ω 19'43			3820 Jul 06 07:40	$0^{\circ}\Omega$	
	3819 Jul 31 06:32	o° mp			3820 Jul 25 17:48	0° m)	
desc. node	3819 Aug 10 11:10	14° m 40'08		desc. node	3820 Jul 27 08:10	1° Mp 42'27	
evening max el	3819 Aug 16 21:05	21° m/42'41	26°49'23	evening max el	3820 Jul 28 17:38	3° m 05'20	25°44'14
retrograde	3819 Aug 30 19:14	28° m 53'37		retrograde	3820 Aug 11 16:56	10° m) 12'18	
evening set	3819 Sep 06 16:59	26° m 50'25		evening set	3820 Aug 17 19:25	8° m/44'22	
min. Earth dist.	3819 Sep 10 11:11	24° m) 12'44	0.60455 AU	min. Earth dist.	3820 Aug 22 05:46	6° m) 06'58	0.58397 AU
inferior conj	3819 Sep 13 16:33	21° m 33'02		inferior conj	3820 Aug 25 10:39	3° Mp 49'23	
minimum elong	3819 Sep 13 10:33	21° mp 21'37		minimum elong	3820 Aug 25 13:15	3° Mp 44'42	
morning rise	3819 Sep 21 05:01	16° Mp 48'22	7 32 00	minimum ciong	3820 Aug 31 18:52	30°RΩ	3 0433
direct	3819 Sep 21 03:01 3819 Sep 23 13:50	16° Mp 26'53		morning rise	3820 Aug 31 18.32 3820 Sep 02 09:20	29° Ω 27'58	
asc. node	•	-		•	-	29° Ω 08'20	
	3819 Sep 30 07:03	19° Mp 28'25	18006120	direct	3820 Sep 04 20:52	0° m)	
morning max el	3819 Sep 30 22:43	20° Mp 04'52	18°06'28	morning w1	3820 Sep 08 18:22		100/011/
	3819 Oct 08 07:52	0∘ ⊽		morning max el	3820 Sep 13 04:38	3° Mp 06'21	18°42'16
morning set	3819 Oct 16 17:53	15° Ω 06'45		asc. node	3820 Sep 16 04:05	6° Mp 24'09	
	3819 Oct 24 18:53	0°M₊		morning set	3820 Sep 29 12:33	29° m 12'08	
	2010 0 + 26 11 21	20M 02112	1011146		3820 Sep 29 22:23	0∘ ಹ	
superior conj	3819 Oct 26 11:24	3°M02'19			2020 0 . 00 0421	1.50 • 55:55	1021157
minimum elong	3819 Oct 26 15:31	3°M20'46	1°11'17	superior conj	3820 Oct 08 04:21	15° £ 55'55	1°31'57
max. Earth dist.	3819 Nov 03 02:53	16~IIL17'45	1.41621 AU	minimum elong	3820 Oct 08 07:19	16° ≙ 09'52	1°31'42

max. Earth dist.	3820 Oct 15 08:51	29° ഫ 02'25	1.39577 AU	minimum elong	3821 Sep 21 14:11	29° m 41'59	1°42'12
	3820 Oct 15 21:58	0°M		Č	3821 Sep 21 17:50	0∘ <u>⊽</u>	
evening rise	3820 Oct 19 09:36	5°M59'55		max. Earth dist.	3821 Sep 27 13:16	11° ≏ 09'05	1.37505 AU
desc. node	3820 Oct 23 07:31	12°M29'36		evening rise	3821 Oct 01 07:29	18° ഫ 00'08	
	3820 Nov 03 15:28	0° ∡ ¹			3821 Oct 08 07:35	0° M .	
evening max el	3820 Nov 23 12:51	25° ≮ 26'35	24°06'26	desc. node	3821 Oct 10 04:30	3°ML02'42	
-	3820 Nov 29 00:02	0° ට			3821 Oct 28 22:37	0° ∡ ¹	
retrograde	3820 Dec 04 14:51	1° る 57'14		evening max el	3821 Nov 06 01:05	9° ∡ 07'34	25°21'47
evening set	3820 Dec 09 21:39	29° х 45′06		retrograde	3821 Nov 18 02:34	16° ₰ 04'49	
	3820 Dec 09 14:26	30° ₹ 🎜		evening set	3821 Nov 23 23:12	13° ∡ ³38′08	
asc. node	3820 Dec 13 03:18	26° ⊀ 15'53		min. Earth dist.	3821 Nov 28 09:30	8° ∡ ¹43'49	0.67235 AU
min. Earth dist.	3820 Dec 14 15:41	24° ⊀ 16′21	0.67788 AU	inferior conj	3821 Nov 29 13:05	7° ҂ 14'36	-0°09'39
inferior conj	3820 Dec 15 08:25	23° х 19'50	0°44'55	minimum elong	3821 Nov 29 13:20	7° х 13'49	0°09'32
minimum elong	3820 Dec 15 07:22	23° ҂ ²23'23	0°44'29	transit middle	3821 Nov 29 13:20	7° ҂ 13'49	0°09'32
morning rise	3820 Dec 20 17:07	17° ∡ 16′05		transit begin	3821 Nov 29 11:05	7° ∡ 1'07	
direct	3820 Dec 24 15:12	15° ∡ ¹48'46		transit end	3821 Nov 29 15:35	7° ∡ ¹06'31	
morning max el	3821 Jan 01 13:41	20° ≮ ¹21'32	20°28'20	asc. node	3821 Nov 30 00:20	6° ∡ ³38'19	
	3821 Jan 09 12:24	0°ರ		morning rise	3821 Dec 05 03:45	1° ∡ 18'13	
desc. node	3821 Jan 19 06:45	14° る 01'49		direct	3821 Dec 08 13:44	0° ∡ 10'57	
	3821 Jan 29 18:54	0° ≈		morning max el	3821 Dec 15 17:37	4° ∡ 11'55	19°24'37
morning set	3821 Jan 30 01:07	0° ≈ 24'03		greatest brilliancy	3821 Dec 29 00:36	21° ₹ ¹57'28	-0.7m
max. Earth dist.	3821 Feb 08 12:40	15° ≈ 22'16	1.43402 AU		3822 Jan 03 07:32	0° ප	
				desc. node	3822 Jan 06 03:46	4° る 22'28	
superior conj	3821 Feb 14 20:09	25° ≈ 42′00	-2°06'19	morning set	3822 Jan 08 23:30	8°₹44'08	
minimum elong	3821 Feb 14 18:06	25° ≈ 33'27	2°06'17	max. Earth dist.	3822 Jan 22 02:02	29° る 12'24	1.44657 AU
	3821 Feb 17 09:47	0° ∀			3822 Jan 22 14:05	0° ≈	
evening rise	3821 Feb 27 05:10	16° ¥ 54'53					
	3821 Mar 06 18:01	0 ° Υ		superior conj	3822 Jan 25 17:11	4° ≈ 58'26	-1°50'13
asc. node	3821 Mar 11 02:36	6° Ƴ 59'12		minimum elong	3822 Jan 25 09:24	4° ≈ 27'20	1°49'39
evening max el	3821 Mar 16 12:34	13° Y 52'55	18°07'36	evening rise	3822 Feb 08 21:47	28° ≈ 09'15	
retrograde	3821 Mar 23 00:15	17° Ƴ 15'42			3822 Feb 10 00:20	0° ℋ	
evening set	3821 Mar 25 19:02	16° Ƴ 37'31		asc. node	3822 Feb 25 23:37	24°) ₹55'33	
inferior conj	3821 Apr 01 02:49	11° Ƴ 29'34	3°28'22	evening max el	3822 Feb 28 01:08	27° 升 14′03	18°22'24
minimum elong	3821 Apr 01 04:27	11° Y 25'20	3°28'13		3822 Mar 03 15:21	$0^{\circ}\mathbf{\Upsilon}$	
min. Earth dist.	3821 Apr 04 01:08	8° Y 29'27	0.62138 AU	retrograde	3822 Mar 06 12:25	0° Υ 44'20	
morning rise	3821 Apr 07 12:25	5° Y 28'45			3822 Mar 09 08:48	30° ₹ ₩	
direct	3821 Apr 14 09:02	2° Ƴ 59'19		evening set	3822 Mar 09 13:00	29° 升 54′27	
desc. node	3821 Apr 17 05:54	3° Y 23′14		inferior conj	3822 Mar 15 10:43	24°) €27'51	3°37'21
morning max el	3821 Apr 28 11:40	10° Ƴ 57'38	27°51'41	minimum elong	3822 Mar 15 10:37	24° ∺ 28′07	3°37'21
	3821 May 13 10:01	9° 8		min. Earth dist.	3822 Mar 17 18:21	21°) 48′28	0.64079 AU
	3821 May 30 13:09	$\Pi^{\circ}0$		morning rise	3822 Mar 21 07:27	18° ∺ 18'51	
morning set	3821 Jun 01 02:05	3° Ⅱ 05'55		direct	3822 Mar 28 03:42	15° ∺ 31'40	
max. Earth dist.	3821 Jun 06 17:52	14° Ⅱ 59'02	1.32419 AU	desc. node	3822 Apr 04 02:56	17° ∺ 52'50	
asc. node	3821 Jun 07 01:53	15° Ⅱ 42'18		morning max el	3822 Apr 10 20:31	23° ∺ 28'14	27°32'48
					3822 Apr 16 16:23	$0^{\circ}\mathbf{\Upsilon}$	
superior conj	3821 Jun 08 13:49	18° ∏ 57'16	0°15'40		3822 May 06 17:25	0° 8	
minimum elong	3821 Jun 08 13:05	18° Ⅱ 53'18	0°15'30	morning set	3822 May 15 20:46	16° 8 59'32	
behind sun begin	3821 Jun 08 11:56	18° Ⅱ 47'02		max. Earth dist.	3822 May 20 19:23	27° 8 02'13	1.33205 AU
behind sun end	3821 Jun 08 14:14	18° ∏ 59'33			3822 May 22 05:16	Π $^{\circ}0$	
	3821 Jun 13 15:24	0.20 0.20					
evening rise	3821 Jun 15 11:31	3°956'46		superior conj	3822 May 23 19:49	3° Ⅱ 24'36	
	3821 Jun 29 10:25	0 \circ Ω		minimum elong	3822 May 23 20:24	3° Ⅱ 27'47	0°11'41
evening max el	3821 Jul 10 07:44	13° Ω 45'43	24°15'52	behind sun begin	3822 May 23 16:42	3° Ⅱ 07'59	
desc. node	3821 Jul 14 05:10	17° Ω 03'01		behind sun end	3822 May 24 00:07	3° Ⅱ 47'35	
retrograde	3821 Jul 24 03:39	20° Ω 44'16		asc. node	3822 May 24 22:55	5° Ⅱ 49'40	
evening set	3821 Jul 28 21:49	19° £ 53′52	0.56551 :==	evening rise	3822 May 30 23:05	18° Ⅱ 41'50	
min. Earth dist.	3821 Aug 03 18:26	16° Ω 58'20			3822 Jun 05 12:40	0°9	
inferior conj	3821 Aug 06 08:37	15° Ω 21'02		evening max el	3822 Jun 21 21:31	24°510'20	22°39'01
minimum elong	3821 Aug 06 05:34	15° Ω 25'49	5°03'56		3822 Jun 30 16:58	0°N	
morning rise	3821 Aug 14 15:57	11° Ω 20′18		desc. node	3822 Jul 01 02:10	0° Ω 07'24	
direct	3821 Aug 17 08:36	11° Ω 01'03	10020110	retrograde	3822 Jul 05 02:06	0° Ω 44'06	
morning max el	3821 Aug 27 00:49	15° Ω 31'17	19°39'40	evening set	3822 Jul 08 08:00	0° Ω 20'56	
asc. node	3821 Sep 03 01:07	24° Ω 16′22			3822 Jul 09 14:30	30° ₹ 5	0.55524 :=
	3821 Sep 06 11:59	0° m		min. Earth dist.	3822 Jul 16 05:24	26°953'23	0.55264 AU
morning set	3821 Sep 13 14:57	13° m 39'36		inferior conj	3822 Jul 17 12:09	26°509'29	
	2021 0 21 17	200=	10.10:: -	minimum elong	3822 Jul 17 04:11	26°520'53	4°14'18
superior conj	3821 Sep 21 12:55	29° m 35'45	1°42'15	morning rise	3822 Jul 26 02:32	22°5518'38	

direct	3822 Jul 29 02:24	21° © 57'58		minimum elong	3823 Jun 26 22:36	6° © 40'04	2°37'52
morning max el	3822 Jul 29 02:24 3822 Aug 09 09:22	21 \$37 38 27°\$12'50	20°58'10	min. Earth dist.	3823 Jun 27 16:48	6°9514'28	0.54836 AU
morning max er	3822 Aug 12 02:06	27 3 12 30	20 36 10		3823 Jul 27 10:48 3823 Jul 06 00:25	2°931'08	0.54650 AU
1				morning rise			
asc. node	3822 Aug 20 22:10	12° £ 52′16		direct	3823 Jul 09 12:01	2°504'56	2222112
morning set	3822 Aug 28 22:30	28° £ 22′29		morning max el	3823 Jul 22 06:50	8° © 10'09	22°33'49
	3822 Aug 29 17:21	0° m			3823 Aug 06 17:38	0°N	
				asc. node	3823 Aug 07 19:13	2° Ω 00'19	
superior conj	3822 Sep 05 08:39	13° m 49'02	1°44'16	morning set	3823 Aug 13 09:02	13° Ω 13'37	
minimum elong	3822 Sep 05 08:21	13° m 47'28	1°44'15				
max. Earth dist.	3822 Sep 09 22:02	23° m, 00'38	1.35642 AU	superior conj	3823 Aug 20 11:57	28° Ω 24'01	
	3822 Sep 13 12:59	0∘ ⊽		minimum elong	3823 Aug 20 10:29	28° Ω 16′12	1°39'18
evening rise	3822 Sep 14 00:51	0° £ 55'48			3823 Aug 21 06:04	0° ™	
desc. node	3822 Sep 27 01:31	23° ≏ 22'20		max. Earth dist.	3823 Aug 23 15:23	5° Mp 00'02	1.34129 AU
	3822 Oct 01 09:31	0°M₊		evening rise	3823 Aug 28 09:08	14° Mp 33'36	
evening max el	3822 Oct 19 13:31	22°M48'42	26°25'07		3823 Sep 05 17:49	0∘ ⊽	
	3822 Oct 31 19:11	0° ∡ 7		desc. node	3823 Sep 13 22:33	13° ≏ 21'04	
retrograde	3822 Nov 01 09:18	0° ₹ 01'12			3823 Sep 26 04:14	0° M ₊	
	3822 Nov 01 23:15	30°RM₊		evening max el	3823 Oct 02 02:09	6°M21′02	27°09'00
evening set	3822 Nov 07 19:14	27°M23'54		retrograde	3823 Oct 15 10:15	13°M38'30	
min. Earth dist.	3822 Nov 11 22:34	23°MJ04'58	0.66342 AU	evening set	3823 Oct 22 07:27	10° M 57′00	
inferior conj	3822 Nov 13 13:27	21°M06'56	-1°08'12	min. Earth dist.	3823 Oct 26 04:26	7° ጤ 13'41	0.65099 AU
minimum elong	3822 Nov 13 15:19	21°ML01'17	1°07'24	inferior conj	3823 Oct 28 07:18	4° ጤ 51'39	-2°09'06
asc. node	3822 Nov 16 21:23	17°M22'09		minimum elong	3823 Oct 28 10:55	4°M41'32	2°07'40
morning rise	3822 Nov 19 11:59	15°M20'27			3823 Nov 02 10:02	30° ŖΩ	
direct	3822 Nov 22 11:57	14°M29'37		morning rise	3823 Nov 03 15:21	29° ≏ 18'12	
morning max el	3822 Nov 29 04:18	18° M ₊09'28	18°36'28	asc. node	3823 Nov 03 18:26	29° ₽ 14'40	
	3822 Dec 08 04:26	0° ∡ ¹		direct	3823 Nov 06 07:38	28° ♀ 39'55	
morning set	3822 Dec 19 19:17	18° ∡ 13'21			3823 Nov 10 06:00	0° M	
desc. node	3822 Dec 24 00:48	24° ₹ 55'41		morning max el	3823 Nov 12 19:21	2°M08'11	18°05'02
	3822 Dec 27 05:54	6°0		morning set	3823 Nov 30 20:43	29° ™ 11'39	
				C	3823 Dec 01 08:25	0° ∡ ¹	
superior conj	3823 Jan 04 21:07	13° る 34'04	-1°15'12	desc. node	3823 Dec 10 21:51	15° ∡ ³37′08	
minimum elong	3823 Jan 04 12:25	12° る 59'56	1°14'11				
max. Earth dist.	3823 Jan 04 19:40	13° る 28'20	1.45230 AU	superior conj	3823 Dec 15 03:19	22° х 22'43	-0°28'40
	3823 Jan 15 07:41	0° ≈		minimum elong	3823 Dec 14 23:43	22° × 08'27	
evening rise	3823 Jan 20 15:08	8°≈26'05		max. Earth dist.	3823 Dec 18 15:08	27° × 754'11	1.45058 AU
greatest brilliancy	3823 Jan 29 02:43	21°≈56'43	-0.8m	man. Bartii dige.	3823 Dec 19 23:08	0°る	1.10000110
greatest orimaney	3823 Feb 03 07:43	0° ∀	0.0111	evening rise	3823 Dec 31 11:30	0 3 17° る 55'35	
evening max el	3823 Feb 11 11:38		18°55'09	evening rise	3824 Jan 08 07:36	0°≈	
asc. node	3823 Feb 12 20:40	12°) (00'15	10 22 07	greatest brilliancy	3824 Jan 13 19:33	8° ≈ 19'46	-0.7m
retrograde	3823 Feb 18 06:43	14°) (31'22		evening max el	3824 Jan 25 18:06	24°≈13'28	19°44'18
evening set	3823 Feb 21 13:44	13°) (31'22'		asc. node	3824 Jan 30 17:42	27°≈59'25	17 44 10
inferior conj	3823 Feb 27 04:38	7° H 45'15	3°20'35	retrograde	3824 Feb 02 04:06	28°≈31'19	
minimum elong	3823 Feb 27 03:13	7°) (49'44	3°29'26	evening set	3824 Feb 05 18:45	27°≈15'03	
min. Earth dist.	3823 Feb 28 20:42	5°) (40'15	0.65664 AU	inferior conj	3824 Feb 11 05:27	21°≈16'37	3°09'06
morning rise	3823 Mar 04 16:17	1°\(\frac{1}{3}\)2'39	0.03004 AC	minimum elong	3824 Feb 11 03:14	21°≈24'01	3°08'39
morning risc	3823 Mar 04 10:17 3823 Mar 06 18:17	1 \(3239		min. Earth dist.	3824 Feb 12 06:51	19°≈52'31	0.66832 AU
direct	3823 Mar 11 05:18	28°≈41'55		morning rise	3824 Feb 16 11:29	15°≈02'54	0.00832 AU
direct	3823 Mar 16 02:21	28 ≈ 41 33		direct	3824 Feb 10 11:29 3824 Feb 22 12:38	13 ≈02 34 12°≈21'00	
desc. node	3823 Mar 21 23:59	4° ₩ 14'12			3824 Mar 05 15:29	12 ≈ 21 00 19° ≈ 34'39	25°29'19
	3823 Mar 24 06:21	6° \ 24'12	26042120	morning max el desc. node		19 ≈54 39 21°≈56'25	23 29 19
morning max el		0 π2412 0°Υ	20 42 28	desc. node	3824 Mar 07 21:03		
	3823 Apr 11 10:46				3824 Mar 14 12:50	0° Υ 0°Υ	
morning set	3823 Apr 29 04:32	0° 8 17'12			3824 Apr 03 13:25		
n d r	3823 Apr 29 00:55	0°8	1 24450 411	morning set	3824 Apr 10 21:00	12° Y 46'17	1.26165.444
max. Earth dist.	3823 May 03 10:24	8° 8 33'07	1.34459 AU	max. Earth dist.	3824 Apr 14 14:16	19° Ƴ 39'34	1.36165 AU
	2022 14 07 10 55	170 400150	0040120		3824 Apr 19 22:15	0°8	
superior conj	3823 May 07 19:55	17° 8 29'52					
minimum elong	3823 May 07 22:04	17° 8 41'00	0°40'14	superior conj	3824 Apr 20 11:25	1° 8 05'29	
asc. node	3823 May 11 19:58	25° 8 52'19		minimum elong	3824 Apr 20 15:05	1° 8 23'48	1°08'47
	3823 May 13 19:06	0°II		asc. node	3824 Apr 27 17:01	15° 8 46'14	
evening rise	3823 May 15 08:39	3° Ⅱ 16'10		evening rise	3824 Apr 28 14:06	17° 8 33'22	
	3823 May 30 12:42	0ංම			3824 May 04 23:13	Π °0	
evening max el	3823 Jun 03 18:49	4°950'57	21°08'17	evening max el	3824 May 16 03:55	16° ∏ 08'34	19°53'17
retrograde	3823 Jun 15 15:15	10° © 39'36		retrograde	3824 May 26 06:58	21° ∏ 04'17	
evening set	3823 Jun 17 20:59	10° © 27'56		evening set	3824 May 28 06:01	20° ∏ 54'01	
desc. node	3823 Jun 17 23:12	10° 9 26'58		desc. node	3824 Jun 03 20:13	18° Ⅱ 15'56	
inferior conj	3823 Jun 27 05:48	6° 5 29'56	-2°40'16	inferior conj	3824 Jun 06 03:55	16° Ⅱ 53'06	-0°41'13

minimum elong	3824 Jun 06 02:01	16° Ⅱ 56'00	0°40'30	minimum elong	3825 May 17 21:17	27° 8 41'44	1°06'30
min. Earth dist.	3824 Jun 08 05:40	16 Ⅱ 3000	0.55376 AU	min. Earth dist.	3825 May 20 21:21	25° 8 35'34	0.56765 AU
	3824 Jun 14 20:02	13 II 37 24 12° II 27'48	0.55570 AU	desc. node	•	25° 8 02'39	0.30703 AU
morning rise					3825 May 21 17:15		
direct	3824 Jun 19 02:10	11° II 48'03	0.404.500	morning rise	3825 May 25 23:31	22° 8 45'06	
morning max el	3824 Jul 02 21:41	18° Ⅱ 38'27	24°17'03	direct	3825 May 31 04:58	21° 8 40'08	25052110
	3824 Jul 12 08:08	0.ee		morning max el	3825 Jun 14 12:20	29° 8 04'12	25°53'10
asc. node	3824 Jul 24 16:17	21°532'20			3825 Jun 15 10:56	0° I	
morning set	3824 Jul 27 20:48	28° © 07'57			3825 Jul 05 20:56	0°50	
	3824 Jul 28 17:53	0 $^{\circ}$ Ω		asc. node	3825 Jul 11 13:20	11° © 21'14	
		_		morning set	3825 Jul 12 08:08	13° © 00'08	
superior conj	3824 Aug 03 20:09	13° Ω 12'30	1°28'48				
minimum elong	3824 Aug 03 17:59	13° Ω 00'49	1°28'34	superior conj	3825 Jul 19 07:04	28° © 07'31	1°13'19
max. Earth dist.	3824 Aug 05 17:37	17° Ω 18'13	1.33024 AU	minimum elong	3825 Jul 19 04:43	27° © 54'38	1°12'58
evening rise	3824 Aug 11 04:19	28° Ω 42'27		max. Earth dist.	3825 Jul 20 02:11	29° © 52'33	1.32327 AU
	3824 Aug 11 19:41	0° m			3825 Jul 20 03:33	$0 {\circ} \Omega$	
	3824 Aug 28 21:25	0∘ ত		evening rise	3825 Jul 26 07:10	13° Ω 12'44	
desc. node	3824 Aug 30 19:33	2° £ 50'02			3825 Aug 03 22:04	O°Mp	
evening max el	3824 Sep 13 13:18	19° ≏ 31'49	27°26'32	desc. node	3825 Aug 17 16:33	21° m 37'07	
retrograde	3824 Sep 27 04:53	26° ≙ 48'17			3825 Aug 24 17:12	0∘ ⊽	
evening set	3824 Oct 04 08:56	24° £ 11'48		evening max el	3825 Aug 26 20:27	2° ♀ 07'45	27°12'32
min. Earth dist.	3824 Oct 08 00:55	21° ≏ 01'27	0.63511 AU	retrograde	3825 Sep 09 16:42	9° ₽ 21'23	
inferior conj	3824 Oct 10 16:01	18° ≏ 22'39	-3°09'45	evening set	3825 Sep 16 19:55	7° ≏ 01'58	
minimum elong	3824 Oct 10 21:12	18° ഫ 09'32	3°08'01	min. Earth dist.	3825 Sep 20 10:47	4° £ 16'33	0.61625 AU
morning rise	3824 Oct 17 10:51	13° ≏ 05'46		inferior conj	3825 Sep 23 12:30	1° £ 32'19	-4°05'48
direct	3824 Oct 19 21:59	12° ≏ 36'24		minimum elong	3825 Sep 23 18:24	1° ≏ 19'07	
asc. node	3824 Oct 20 15:30	12° ₽ 39'02			3825 Sep 25 06:47	30°R. Mp	
morning max el	3824 Oct 26 11:58	16° ₽ 01'38	17°51'01	morning rise	3825 Sep 30 18:39	26° m/35'26	
morning max cr	3824 Nov 05 08:47	0°M	17 51 01	direct	3825 Oct 03 03:24	26° Mp 11'55	
morning set	3824 Nov 12 00:06	11°M25'14		asc. node	3825 Oct 07 12:33	27° mp 35'48	
morning set	3824 Nov 12 00:00 3824 Nov 22 21:38	0°×7		morning max el	3825 Oct 10 03:05	29° Mp 42'34	17°55'19
	3624 NOV 22 21.36	0 🗴		morning max er	3825 Oct 10 03:05	0° ∵	17 33 19
aumorior coni	2024 Nov. 24, 06:02	2° ҂ 14'02	0°17'30	marning sat		0 = 24° £ 34'35	
superior conj	3824 Nov 24 06:02			morning set	3825 Oct 25 22:59	24° == 34°33 0°M	
minimum elong	3824 Nov 24 07:52	2° 🗷 21'35	0°17'14		3825 Oct 28 22:30	0-116	
desc. node	3824 Nov 26 18:53	6° ₹ 23'11	1 44171 417		202531 05 11 20	120 m 24144	0055107
max. Earth dist.	3824 Nov 30 09:09	12° 🖈 11'01	1.44171 AU	superior conj	3825 Nov 05 11:38	13°M24'44	0°55'07
evening rise	3824 Dec 09 21:11	27° ₹ 04'50		minimum elong	3825 Nov 05 15:44	13°M42'30	0°54'35
	3824 Dec 11 18:49	6°0		max. Earth dist.	3825 Nov 12 22:39	26° ™ 00'07	1.42675 AU
	3825 Jan 01 07:43	0° ≈		desc. node	3825 Nov 13 15:54	27°M10'46	
evening max el	3825 Jan 07 19:10	7°≈45'28	20°47'29		3825 Nov 15 09:32	0° ∡	
retrograde	3825 Jan 16 02:11	12° ≈ 39'30		evening rise	3825 Nov 19 12:15	6° ∡ ³33'40	
asc. node	3825 Jan 16 14:45	12° ≈ 38′00			3825 Dec 05 01:38	0°る	
evening set	3825 Jan 20 01:58	11° ≈ 08′26		evening max el	3825 Dec 21 14:44	21° る 19'02	22°01'10
inferior conj	3825 Jan 25 10:36	4° ≈ 57'46	2°38'32	retrograde	3825 Dec 30 23:06	26° る 52'53	
minimum elong	3825 Jan 25 08:06	5°≈06'21	2°37'50	asc. node	3826 Jan 03 11:46	25° る 46'03	
min. Earth dist.	3825 Jan 25 22:49	4°≈15'51	0.67588 AU	evening set	3826 Jan 04 09:40	25° る 06'10	
	3825 Jan 29 07:47	30°Ŗる		inferior conj	3826 Jan 09 18:00	18° る 46'40	1°59'45
morning rise	3825 Jan 30 14:05	28° る 44'34		minimum elong	3826 Jan 09 15:43	18° る 54'36	1°58'57
direct	3825 Feb 05 00:59	26° る 19'58		min. Earth dist.	3826 Jan 09 18:26	18° る 45'12	0.67952 AU
	3825 Feb 12 21:29	0° ≈		morning rise	3826 Jan 14 21:38	12° る 35'28	
morning max el	3825 Feb 16 00:02	2°≈52'11	24°03'15	direct	3826 Jan 19 17:39	10°る32'35	
desc. node	3825 Feb 22 18:05	10° ≈ 35'48		morning max el	3826 Jan 29 10:26	16° පි 16'16	22°34'18
	3825 Mar 08 16:28	0° ∀		desc. node	3826 Feb 09 15:08	29° る 56'38	
morning set	3825 Mar 23 16:21	24°) (10′22			3826 Feb 09 16:07	0° ≈	
	3825 Mar 27 00:10	$0^{\circ}\mathbf{\Upsilon}$			3826 Mar 01 17:44	0° ∀	
max. Earth dist.	3825 Mar 27 10:33	0° Ƴ 46'19	1.38215 AU	morning set	3826 Mar 04 08:45	4°) 15′43	
				max. Earth dist.	3826 Mar 09 06:27	12°) 26′47	1.40396 AU
superior conj	3825 Apr 03 14:42	14° Ƴ 01'07	-1°35'49				
minimum elong	3825 Apr 03 19:21	14° Υ 23'16		superior conj	3826 Mar 17 01:26	26°) €06'43	-1°56'33
	3825 Apr 11 19:26	0°8		minimum elong	3826 Mar 17 05:36	26°) 25'34	
evening rise	3825 Apr 12 12:46	1° 8 25'14			3826 Mar 19 04:39	0°Υ	
asc. node	3825 Apr 12 12:40 3825 Apr 14 14:03	5° 8 26'01		evening rise	3826 Mar 27 01:33	14° Ƴ 44'07	
evening max el	3825 Apr 29 00:27	28° 8 06'15	18°57'58	asc. node	3826 Apr 01 11:04	24° Υ '46'30	
2. Junia mun oi	3825 May 01 06:00	0°II	10 0 / 00	u.c. 11040	3826 Apr 04 10:54	0°8	
retrograde	3825 May 07 00:00 3825 May 07 13:17	2° Ⅱ 16'15		evening max el	3826 Apr 12 05:43	10° 8 38'38	18°22'53
evening set	•	2° I I013		•	-	14° 8 17'36	10 22 33
evening set							
	3825 May 09 15:50			retrograde	3826 Apr 21 23:26		
inferior conj	3825 May 14 10:07 3825 May 17 18:45	30°R 8 27° 8 46'11	1°07'21	evening set inferior conj	3826 Apr 19 14:21 3826 Apr 21 23:26 3826 Apr 29 06:59	13° 8 55'45 9° 8 20'17	2°26'15

minimum elong	3826 Apr 29 10:41	9° 8 12'38	2°25'17	min. Earth dist.	3827 Apr 14 20:32	18° Ƴ 30′02	0.60910 AU
min. Earth dist.	3826 May 02 17:38	6° 8 31'02	0.58727 AU	morning rise	3827 Apr 18 09:50	15° Ƴ 40'30	
morning rise	3826 May 06 18:56	3° 8 48'01		direct	3827 Apr 25 03:01	13° Y ′26'39	
desc. node	3826 May 08 14:17	2° 8 58'16		desc. node	3827 Apr 25 11:20	13° Y 26'59	
direct	3826 May 12 22:04	2° 8 08'29		morning max el	3827 May 09 08:59	21° Y °22'24	27°46'00
morning max el	3826 May 27 07:33	9° 8 53'40	27°06'28		3827 May 16 21:06	$0^{\circ}B$	
	3826 Jun 11 17:53	Π $^{\circ}0$			3827 Jun 04 17:46	Π $^{\circ}$ 0	
morning set	3826 Jun 26 17:24	27° ∏ 44'24		morning set	3827 Jun 10 22:49	12° Ⅱ 14'59	
	3826 Jun 27 19:06	0 \circ \odot		asc. node	3827 Jun 15 07:22	21° Ⅲ 27'45	
asc. node	3826 Jun 28 10:21	1° 5 21'15		max. Earth dist.	3827 Jun 17 00:22	25° Ⅱ 10'31	1.32156 AU
superior conj	3826 Jul 03 18:52	13° © 02'32	0°53'39	superior conj	3827 Jun 18 05:51	27° Ⅱ 51'53	0°30'26
minimum elong	3826 Jul 03 16:48	12° © 51'10	0°53'16	minimum elong	3827 Jun 18 04:31	27° Ⅱ 44'34	0°30'09
max. Earth dist.	3826 Jul 03 13:40	12° © 33'51	1.32036 AU		3827 Jun 19 05:11	0∘ ௐ	
evening rise	3826 Jul 10 15:05	27° © 56'08		evening rise	3827 Jun 25 01:57	12°5545'46	
	3826 Jul 11 14:41	0° N			3827 Jul 03 18:29	0°N	
	3826 Jul 28 09:40	0° m		evening max el	3827 Jul 21 14:48	25° Ω 02'13	25°08'54
desc. node	3826 Aug 04 13:34	9° m/24'38	2 < 0.2 511 <	desc. node	3827 Jul 22 10:34	25° Ω 48′20	
evening max el	3826 Aug 08 21:13	13° Mp 58'19	26°25'16		3827 Jul 28 03:11	0° m)	
retrograde	3826 Aug 22 20:30	21° Mp 08'37		retrograde	3827 Aug 04 13:58	2° Mp 06'44	
evening set	3826 Aug 29 11:38	19° m 19'17	0.50566 ATT	evening set	3827 Aug 10 03:44	0° m 55'31	
min. Earth dist.	3826 Sep 02 10:34	16° Mp 44'03	0.59566 AU	: E 4 E 4	3827 Aug 12 02:30	30°RΩ	0.57562 ATT
inferior conj	3826 Sep 05 17:13	14° Mp 11'03		min. Earth dist.	3827 Aug 15 02:32	28°Ω12'10	
minimum elong	3826 Sep 05 21:52	14° Mp 01'57	4°49'07	inferior conj	3827 Aug 18 02:58	26° Ω 09'52 26° Ω 09'07	
morning rise	3826 Sep 13 10:15	9° Mp 36'30		minimum elong	3827 Aug 18 03:24		3-0943
direct	3826 Sep 15 19:40	9°Mp16'11	18°19'08	morning rise direct	3827 Aug 26 05:29	21° Ω 57'35 21° Ω 38'21	
morning max el asc. node	3826 Sep 23 13:22 3826 Sep 24 09:35	13° m 01'32 13° m 52'35	18 1908	morning max el	3827 Aug 28 18:47 3827 Sep 06 15:30	$25^{\circ} \Omega 49'00$	19°03'56
asc. node	3826 Oct 05 00:32	0° ∵		morning max er	3827 Sep 10 08:30	0°m)	19 03 30
morning set	3826 Oct 09 11:42	0 == 8° £ 22'54		asc. node	3827 Sep 10 08:38	1° Mg 14'26	
morning set	3820 000 09 11.42	0 == 22 34		morning set	3827 Sep 11 00:38 3827 Sep 23 10:04	22° m/39'06	
superior conj	3826 Oct 18 17:13	25° Ω 45'02	1°21'37	morning set	3827 Sep 27 03:00	ე∘ 亞	
minimum elong	3826 Oct 18 20:59	26° ♀ 02'14			3027 Sep 27 03.00	· –	
minimum ciong	3826 Oct 21 01:30	0°M	1 21 1 1	superior conj	3827 Oct 01 17:27	9° 亞 00'10	1°37'25
max. Earth dist.	3826 Oct 26 06:33	9° 11 07'44	1.40767 AU	minimum elong	3827 Oct 01 17:27 3827 Oct 01 19:42	9° ⊡ 11'01	1°37'16
evening rise	3826 Oct 30 21:52	16°M54'15		max. Earth dist.	3827 Oct 08 11:08	21° ≏ 34'08	1.38690 AU
desc. node	3826 Oct 31 12:54	17° M 55'49		evening rise	3827 Oct 12 06:57	28° ≏ 19'29	
	3826 Nov 08 03:51	0° √		Č	3827 Oct 13 06:19	0° M	
	3826 Nov 29 18:30	6°0		desc. node	3827 Oct 18 09:54	8° M 34'44	
evening max el	3826 Dec 04 05:59	4° ප 55'15	23°20'37		3827 Nov 01 14:48	0° ∡ ¹	
retrograde	3826 Dec 14 17:18	11° る 07'08		evening max el	3827 Nov 16 18:57	18° ∡ ³35'35	24°39'30
evening set	3826 Dec 19 16:14	9° ට 04'22		retrograde	3827 Nov 28 07:31	25° ∡ 18'27	
asc. node	3826 Dec 21 08:48	7° る 25'22		evening set	3827 Dec 03 20:06	23° ∡ °00'08	
min. Earth dist.	3826 Dec 24 15:14	3° ප 16'02	0.67949 AU	asc. node	3827 Dec 08 05:51	18° ∡ °02′11	
inferior conj	3826 Dec 25 01:45	2° る 39'57	1°14'00	min. Earth dist.	3827 Dec 08 10:51	17° ∡ °45'40	0.67600 AU
minimum elong	3826 Dec 25 00:07	2°₹45'31	1°13'21	inferior conj	3827 Dec 09 08:04	16° ∡ °35′08	0°22'21
	3826 Dec 27 01:33	30°₽ ⋌ ¹		minimum elong	3827 Dec 09 07:31	16° ∡ ³36'58	0°22'08
morning rise	3826 Dec 30 07:56	26° ₹ 32'40		morning rise	3827 Dec 14 19:02	10° ∡ ³33'59	
direct	3827 Jan 03 13:41	24° ₹ 52'34		direct	3827 Dec 18 11:49	9° ∡ 15'24	
morning max el	3827 Jan 12 02:04	29° ∡ ¹49'07	21°11'03	morning max el	3827 Dec 26 01:22	13° ∡ ³33′08	19°59'17
	3827 Jan 12 06:23	0°る			3828 Jan 07 16:39	0°る	
desc. node	3827 Jan 27 12:10	19° る 46'57		desc. node	3828 Jan 14 09:11	9° ප 58'26	
_	3827 Feb 03 09:44	0° ≈		morning set	3828 Jan 21 17:08	21° る 10'55	
morning set	3827 Feb 11 20:53	13°≈02'24			3828 Jan 27 09:13	0° ≈	
max. Earth dist.	3827 Feb 19 08:11		1.42419 AU	max. Earth dist.	3828 Feb 01 18:01	8° ≈ 29'11	1.44018 AU
	3827 Feb 22 08:31	0° ∀		gunorier con-	2020 Eak 07 02:11	1790005155	2001155
aumonia '	2027 E-L 26 14.26	70W 11100	2007102	superior conj	3828 Feb 07 02:11	17°≈05'55	
superior conj minimum elong	3827 Feb 26 14:36	7° ∺ 11'08 7° ∺ 15'41		minimum elong	3828 Feb 14 20:48	16° ≈ 46'50 0° 米	2 0143
Č	3827 Feb 26 15:40 3827 Mar 10 00:36	27° H 21'27	2 0 / 02	evening rice	3828 Feb. 20, 05:30	0° X 9° X 08'04	
evening rise		41 T ZIZ/		evening rise	3828 Feb 20 05:30		
		0°			3828 Mar 03 10:05	$0_{\circ}(\Lambda)$	
asc node	3827 Mar 11 11:45	0° Υ 13° Υ 41'27		asc node	3828 Mar 03 19:05	0° Υ 2° Υ 02'14	
asc. node	3827 Mar 11 11:45 3827 Mar 19 08:05	13° Y 41'27	18°07'41	asc. node	3828 Mar 05 05:07	2° Y 02'14	18°11'41
evening max el	3827 Mar 11 11:45 3827 Mar 19 08:05 3827 Mar 26 16:21	13° Υ 41'27 23° Υ 37'15	18°07'41	evening max el	3828 Mar 05 05:07 3828 Mar 09 05:05	2° Υ '02'14 6° Υ '52'34	18°11'41
evening max el retrograde	3827 Mar 11 11:45 3827 Mar 19 08:05 3827 Mar 26 16:21 3827 Apr 02 08:27	13° Υ 41'27 23° Υ 37'15 27° Υ 01'19	18°07'41	evening max el retrograde	3828 Mar 05 05:07 3828 Mar 09 05:05 3828 Mar 15 15:18	2° Υ 02'14 6° Υ 52'34 10° Υ 16'38	18°11'41
evening max el retrograde evening set	3827 Mar 11 11:45 3827 Mar 19 08:05 3827 Mar 26 16:21 3827 Apr 02 08:27 3827 Apr 04 23:55	13°Y41'27 23°Y37'15 27°Y01'19 26°Y29'28		evening max el retrograde evening set	3828 Mar 05 05:07 3828 Mar 09 05:05 3828 Mar 15 15:18 3828 Mar 18 12:39	2°Y02'14 6°Y52'34 10°Y16'38 9°Y33'26	
evening max el retrograde	3827 Mar 11 11:45 3827 Mar 19 08:05 3827 Mar 26 16:21 3827 Apr 02 08:27	13° Υ 41'27 23° Υ 37'15 27° Υ 01'19	3°13'27	evening max el retrograde	3828 Mar 05 05:07 3828 Mar 09 05:05 3828 Mar 15 15:18	2° Υ 02'14 6° Υ 52'34 10° Υ 16'38	3°34'31

min. Earth dist.	3828 Mar 27 08:03	100024107	0.63006 AU	arramina aat	3829 Mar 02 09:55	22°) 59'23	
min. Earm dist.	3828 Mar 28 17:44	1 1 24 0 / 30°R) (0.03000 AU	evening set	3829 Mar 08 04:21	17° H 25'02	2025150
morning rise	3828 Mar 30 19:25	28° 升 12'42		inferior conj minimum elong	3829 Mar 08 03:37	17 X 2302	3°35'47
direct	3828 Apr 06 17:00	28 X 1242 25° X 34'02		min. Earth dist.	3829 Mar 10 05:11	17 X 2712 14° X 59'26	0.64804 AU
desc. node	•	26°\(\frac{1}{36}\)45			3829 Mar 13 20:47	14 X 39 20	0.04804 AU
desc. node	3828 Apr 11 08:23 3828 Apr 16 17:58	20 π 3043		morning rise direct	3829 Mar 20 14:33	8° \(\) 24'11	
mamina may al	-	3° Υ 32'03	27047156	direct desc. node		11°) (58'38	
morning max el	3828 Apr 20 15:42	3° 1 3203	2/-4/36		3829 Mar 29 05:25 3829 Apr 03 01:25	16°)(15'40	27°14'49
mamina sat	3828 May 10 09:16			morning max el	-	10 χ1540 0° Υ	27 1449
morning set	3828 May 24 22:08	26° ႘ 24'03 0° Ⅱ			3829 Apr 14 09:54		
E d Ed	3828 May 26 16:37	0°П 7°П29'30	1 22701 ATT	· ,	3829 May 03 04:10	0° 8	
max. Earth dist.	3828 May 30 06:28		1.32701 AU	morning set	3829 May 08 12:37	10° 8 03'39	1 22/01 ATT
asc. node	3828 Jun 01 04:23	11° Ⅱ 35'47		max. Earth dist.	3829 May 13 04:08	19° 8 20'39	1.33691 AU
	3828 Jun 01 14:12	12° Ⅱ 28'44	0°04'18		2020 M 16 17-50	26° 8 47'21	0922157
superior conj	3828 Jun 01 13:59	12 H 28 44 12° H 27'35	0°04'14	superior conj	3829 May 16 17:58 3829 May 16 19:12	26° 8 53'53	
minimum elong		12 H 2/33 12° H 00'08	0 04 14	minimum elong	•	20 Ο 33 33	0 23 42
behind sun begin	3828 Jun 01 08:54	12° Д 00 08		4-	3829 May 18 06:20	0° П 1° П 41'44	
behind sun end	3828 Jun 01 19:04			asc. node	3829 May 19 01:27		
evening rise	3828 Jun 08 13:47	27° I I34'13		evening rise	3829 May 24 00:46	12° Ⅱ 15'41	
	3828 Jun 09 17:27	0°©			3829 Jun 02 03:34	0.22	21050146
	3828 Jun 27 05:00	0° Ω	2202445	evening max el	3829 Jun 13 19:52	15°958'52	21°58'46
evening max el	3828 Jul 02 03:55	5° Ω 32'05	23°34'47	desc. node	3829 Jun 25 04:38	22° © 11'39	
desc. node	3828 Jul 08 07:36	10° Ω 15'25		retrograde	3829 Jun 26 12:23	22° © 15'42	
retrograde	3828 Jul 15 18:51	12° Ω 21'48		evening set	3829 Jun 29 06:03	21° © 58'59	
evening set	3828 Jul 19 21:20	11° Ω 44'54		min. Earth dist.	3829 Jul 08 00:24	18° © 13'52	0.54969 AU
min. Earth dist.	3828 Jul 26 13:53		0.55919 AU	inferior conj	3829 Jul 08 14:10	17° © 54'35	-3°40'17
inferior conj	3828 Jul 28 16:28	7° Ω 21'59	-4°50'04	minimum elong	3829 Jul 08 05:41	18° © 06'27	3°37'57
minimum elong	3828 Jul 28 10:54	7° Ω 30′20	4°49'18	morning rise	3829 Jul 17 06:57	14° © 03'18	
morning rise	3828 Aug 06 02:58	3° Ω 27'08		direct	3829 Jul 20 11:10	13° © 41'01	
direct	3828 Aug 08 22:40	3° Ω 07′23		morning max el	3829 Aug 01 10:08	19° © 16'31	21°37'20
morning max el	3828 Aug 19 06:41	7° Ω 55'12	20°10'36		3829 Aug 10 02:30	$0 {\circ} \Omega$	
asc. node	3828 Aug 28 03:40	19° Ω 26′25		asc. node	3829 Aug 15 00:42	8° Ω 16'48	
	3828 Sep 03 00:01	0° m		morning set	3829 Aug 21 23:59	22° Ω 00'57	
morning set	3828 Sep 06 14:58	7° m 14'05			3829 Aug 25 19:06	0° m	
superior conj	3828 Sep 14 07:14	22° M 55'26	1°44'01	superior conj	3829 Aug 29 06:32	7° m 18'52	
superior conj minimum elong	3828 Sep 14 07:48	22° m 58'16	1°44'01 1°44'00	minimum elong	3829 Aug 29 05:40	7° Mp 14'24	1°42'56
	3828 Sep 14 07:48 3828 Sep 17 20:57	22°₱58'16 0° <u>₽</u>	1°44'00	minimum elong max. Earth dist.	3829 Aug 29 05:40 3829 Sep 02 05:20	7° m 14'24 15° m 25'40	
minimum elong max. Earth dist.	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07	22° № 58'16 0° <u>••</u> 3° <u>••</u> 32'52		minimum elong	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49	7° Mp 14'24 15° Mp 25'40 23° Mp 58'56	1°42'56
minimum elong	3828 Sep 14 07:48 3828 Sep 17 20:57	22° m 58'16 0° <u>a</u> 3° <u>a</u> 32'52 10° <u>a</u> 44'34	1°44'00	minimum elong max. Earth dist.	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58	7° m 14'24 15° m 25'40 23° m 58'56 0° <u>a</u>	1°42'56
minimum elong max. Earth dist.	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07	22° № 58'16 0° <u>••</u> 3° <u>••</u> 32'52	1°44'00	minimum elong max. Earth dist.	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49	7° M 14'24 15° M 25'40 23° M 58'56 0° Ω 19° Ω 14'46	1°42'56
minimum elong max. Earth dist. evening rise	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39	22° \$\pi 58' 16 0° \$\oldsymbol{\Omega}\$ 3° \$\oldsymbol{\Omega}\$32' 52 10° \$\oldsymbol{\Omega}\$44' 34 29° \$\oldsymbol{\Omega}\$03' 02 0° \$\mathbb{M}\$.	1°44'00	minimum elong max. Earth dist. evening rise	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58	7° m 14'24 15° m 25'40 23° m 58'56 0° <u>a</u>	1°42'56
minimum elong max. Earth dist. evening rise	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55	22° \$\mathbf{m}\$58'16 0° \omega 3° \omega 32'52 10° \omega 44'34 29° \omega 03'02	1°44'00	minimum elong max. Earth dist. evening rise	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56	7° M 14'24 15° M 25'40 23° M 58'56 0° Ω 19° Ω 14'46	1°42'56 1.34946 AU
minimum elong max. Earth dist. evening rise	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55 3828 Oct 04 21:14	22° \$\pi 58' 16 0° \$\oldsymbol{\Omega}\$ 3° \$\oldsymbol{\Omega}\$32' 52 10° \$\oldsymbol{\Omega}\$44' 34 29° \$\oldsymbol{\Omega}\$03' 02 0° \$\mathbb{M}\$.	1°44'00 1.36681 AU	minimum elong max. Earth dist. evening rise desc. node	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56 3829 Sep 28 11:21	7° ነ 14'24 15° ነ 25'40 23° ነ 58'56 0°	1°42'56 1.34946 AU
minimum elong max. Earth dist. evening rise desc. node	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55 3828 Oct 04 21:14 3828 Oct 27 01:09	22° \$\mathbb{m} 58'16 0° \oldsymbol{\Omega} 3° \oldsymbol{\Omega} 32'52 10° \oldsymbol{\Omega} 44'34 29° \oldsymbol{\Omega} 03'02 0° \$\mathbb{M}\$ 0° \$\vec{\sigma}\$	1°44'00 1.36681 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56 3829 Sep 28 11:21 3829 Oct 11 19:49	7° m 14'24 15° m 25'40 23° m 58'56 0° <u>a</u> 19° <u>a</u> 14'46 0° m 15° m 56'19	1°42'56 1.34946 AU 26°46'36
minimum elong max. Earth dist. evening rise desc. node evening max el	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55 3828 Oct 04 21:14 3828 Oct 27 01:09 3828 Oct 29 07:22	22° \$\mathbb{m} 58'16 0° \Lambda 3° \Lambda 32'52 10° \Lambda 44'34 29° \Lambda 03'02 0° \$\mathbb{M}\$ 0° \$\nabla\$ 2° \$\nabla\$ 18'15	1°44'00 1.36681 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56 3829 Sep 28 11:21 3829 Oct 11 19:49 3829 Oct 24 21:18	7° m 14'24 15° m 25'40 23° m 58'56 0° <u>a</u> 19° <u>a</u> 14'46 0° m 15° m 56'19 23° m 12'05	1°42'56 1.34946 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55 3828 Oct 04 21:14 3828 Oct 27 01:09 3828 Oct 29 07:22 3828 Nov 10 17:02	22° \$\mathbb{m} 58'16 0° \oldsymbol{\Omega} 3° \oldsymbol{\Omega} 32'52 10° \oldsymbol{\Omega} 44'34 29° \oldsymbol{\Omega} 03'02 0° \$\mathbb{m} \qquad 0° \$\mathbb{A} \qquad 20' \mathbb{M} 18'15 9° \$\mathbb{A} 22'29	1°44'00 1.36681 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56 3829 Sep 28 11:21 3829 Oct 11 19:49 3829 Oct 24 21:18 3829 Oct 31 12:35	7° m 14'24 15° m 25'40 23° m 58'56 0° Ω 19° Ω 14'46 0° M 15° M 56'19 23° M 12'05 20° M 31'43	1°42'56 1.34946 AU 26°46'36 0.65855 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55 3828 Oct 04 21:14 3828 Oct 27 01:09 3828 Oct 29 07:22 3828 Nov 10 17:02 3828 Nov 16 19:34	22° \$\mathbb{m} 58'16 0° \overline{\Omega} 3° \overline{\Omega} 32'52 10° \overline{\Omega} 44'34 29° \overline{\Omega} 03'02 0° \$\mathbb{m}\$ 0° \$\nrac{\sqrt{N}}{2}' 22'29 6° \$\nrac{\sqrt{N}}{2}' 50'44	1°44'00 1.36681 AU 25°50'38 0.66903 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56 3829 Sep 28 11:21 3829 Oct 11 19:49 3829 Oct 24 21:18 3829 Oct 31 12:35 3829 Nov 04 13:01	7° ነ 14'24 15° ነ 25'40 23° ነ 58'56 0°	1°42'56 1.34946 AU 26°46'36 0.65855 AU -1°33'52
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55 3828 Oct 04 21:14 3828 Oct 27 01:09 3828 Oct 29 07:22 3828 Nov 10 17:02 3828 Nov 16 19:34 3828 Nov 21 02:54	22° \$\mathbb{m} 58'16 0° \omega 3° \omega 32'52 10° \omega 44'34 29° \omega 03'02 0° \$\mathbb{m}\$ 0° \$\star* 22'29 6° \$\star* 50'44 2° \$\tail 11'30	1°44'00 1.36681 AU 25°50'38 0.66903 AU -0°34'03	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56 3829 Sep 28 11:21 3829 Oct 11 19:49 3829 Oct 24 21:18 3829 Oct 31 12:35 3829 Nov 04 13:01 3829 Nov 06 09:03	7° ነ 14'24 15° ነ 25'40 23° ነ 58'56 0°	1°42'56 1.34946 AU 26°46'36 0.65855 AU -1°33'52
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55 3828 Oct 04 21:14 3828 Oct 27 01:09 3828 Oct 29 07:22 3828 Nov 10 17:02 3828 Nov 16 19:34 3828 Nov 21 02:54 3828 Nov 22 11:11	22° \$\mathbb{m} 58'16 0° \omega 3° \omega 32'52 10° \omega 44'34 29° \omega 03'02 0° \$\mathbb{m}\$ 0° \$\star* 22'29 6° \$\star* 50'44 2° \$\star* 11'30 0° \$\star* 29'41	1°44'00 1.36681 AU 25°50'38 0.66903 AU -0°34'03	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56 3829 Sep 28 11:21 3829 Oct 11 19:49 3829 Oct 24 21:18 3829 Oct 31 12:35 3829 Nov 04 13:01 3829 Nov 06 09:03 3829 Nov 06 11:39	7° ነ 14'24 15° ነነ 25'40 23° ነነ 58'56 0°	1°42'56 1.34946 AU 26°46'36 0.65855 AU -1°33'52
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55 3828 Oct 04 21:14 3828 Oct 27 01:09 3828 Oct 29 07:22 3828 Nov 10 17:02 3828 Nov 16 19:34 3828 Nov 21 02:54 3828 Nov 22 11:11 3828 Nov 22 12:05	22° \$\mathbb{m} 58'16 0° \omega 3° \omega 32'52 10° \omega 44'34 29° \omega 03'02 0° \$\mathbb{m}\$ 0° \$\star* 22'29 6° \$\star* 50'44 2° \$\star* 11'30 0° \$\star* 29'41 0° \$\star* 26'51	1°44'00 1.36681 AU 25°50'38 0.66903 AU -0°34'03	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56 3829 Sep 28 11:21 3829 Oct 11 19:49 3829 Oct 24 21:18 3829 Oct 31 12:35 3829 Nov 04 13:01 3829 Nov 06 09:03 3829 Nov 06 11:39 3829 Nov 10 23:58	7° ነ 14'24 15° ነ 25'40 23° ነ 58'56 0°	1°42'56 1.34946 AU 26°46'36 0.65855 AU -1°33'52
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55 3828 Oct 04 21:14 3828 Oct 27 01:09 3828 Oct 29 07:22 3828 Nov 10 17:02 3828 Nov 16 19:34 3828 Nov 21 02:54 3828 Nov 22 11:11 3828 Nov 22 12:05 3828 Nov 22 20:37	22° \$\mathbb{m} 58'16 0° \omega 3° \omega 32'52 10° \omega 44'34 29° \omega 03'02 0° \$\mathbb{m}\$ 2° \$\stackled{x}^2 18'15 9° \$\tau^2 22'29 6° \$\tau^2 50'44 2° \$\tau^2 11'30 0° \$\tau^2 29'41 0° \$\tau^2 26'51 30° \$\mathbb{m}\$	1°44'00 1.36681 AU 25°50'38 0.66903 AU -0°34'03	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56 3829 Sep 28 11:21 3829 Oct 11 19:49 3829 Oct 24 21:18 3829 Oct 31 12:35 3829 Nov 04 13:01 3829 Nov 06 09:03 3829 Nov 06 11:39 3829 Nov 10 23:58 3829 Nov 12 11:29	7° ነ 14'24 15° ነ 25'40 23° ነ 58'56 0°	1°42'56 1.34946 AU 26°46'36 0.65855 AU -1°33'52 1°32'47
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55 3828 Oct 04 21:14 3828 Oct 27 01:09 3828 Oct 29 07:22 3828 Nov 10 17:02 3828 Nov 10 17:02 3828 Nov 21 02:54 3828 Nov 22 11:11 3828 Nov 22 12:05 3828 Nov 24 02:54	22° \$\mathbb{m} 58'16 0° \omega 3° \omega 32'52 10° \omega 44'34 29° \omega 03'02 0° \$\mathbb{m}\$ 2° \nabla 18'15 9° \nabla 22'29 6° \nabla 50'44 2° \nabla 11'30 0° \nabla 29'41 0° \nabla 26'51 30° \nabla m 28° \$\mathbb{m} 27'11	1°44'00 1.36681 AU 25°50'38 0.66903 AU -0°34'03	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56 3829 Sep 28 11:21 3829 Oct 11 19:49 3829 Oct 24 21:18 3829 Oct 31 12:35 3829 Nov 04 13:01 3829 Nov 06 09:03 3829 Nov 06 11:39 3829 Nov 10 23:58 3829 Nov 12 11:29 3829 Nov 15 07:52	7° ነ 14'24 15° ነ 25'40 23° ነ 58'56 0°	1°42'56 1.34946 AU 26°46'36 0.65855 AU -1°33'52 1°32'47
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55 3828 Oct 04 21:14 3828 Oct 27 01:09 3828 Oct 29 07:22 3828 Nov 10 17:02 3828 Nov 16 19:34 3828 Nov 21 02:54 3828 Nov 22 11:11 3828 Nov 22 12:05 3828 Nov 22 02:37 3828 Nov 24 02:54 3828 Nov 28 04:59	22° \$\mathbb{m} 58'16 0° \(\Omega\) 3° \(\Omega\) 32'52 10° \(\Omega\) 403'02 0° \$\mathbb{m}\) 0° \(\nabla\) 2° \(\nabla\) 18'15 9° \(\nabla\) 22'29 6° \(\nabla\) 50'44 2° \(\nabla\) 11'30 0° \(\nabla\) 26'51 30° \(\nabla\) 28° \$\mathbb{m}\) 27'11 24° \$\mathbb{m}\) 37'15	1°44'00 1.36681 AU 25°50'38 0.66903 AU -0°34'03	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56 3829 Sep 28 11:21 3829 Oct 11 19:49 3829 Oct 24 21:18 3829 Oct 31 12:35 3829 Nov 04 13:01 3829 Nov 06 09:03 3829 Nov 06 11:39 3829 Nov 10 23:58 3829 Nov 12 11:29 3829 Nov 15 07:52 3829 Nov 21 21:24	7° m 14'24 15° m 25'40 23° m 58'56 0° n 19° n 14'46 0° m 15° m 56'19 23° m 12'05 20° m 31'43 16° m 28'25 14° m 19'15 14° m 11'37 9° m 35'35 8° m 38'15 7° m 53'17 11° m 26'54	1°42'56 1.34946 AU 26°46'36 0.65855 AU -1°33'52 1°32'47
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55 3828 Oct 04 21:14 3828 Oct 27 01:09 3828 Oct 29 07:22 3828 Nov 10 17:02 3828 Nov 16 19:34 3828 Nov 21 02:54 3828 Nov 22 11:11 3828 Nov 22 12:05 3828 Nov 22 02:37 3828 Nov 24 02:54 3828 Nov 28 04:59 3828 Dec 01 10:32	22° \$\mathbb{m} 58'16 0° \(\Omega\) 3° \(\Omega\) 32'52 10° \(\Omega\) 44'34 29° \(\Omega\) 30'02 0° \$\mathbb{m}\) 0° \(\nabla\) 22'29 6° \(\nabla\) 50'44 2° \(\nabla\) 11'30 0° \(\nabla\) 26'51 30° \(\mathbb{m}\) 26'51 30° \(\mathbb{m}\) 37'15 23° \$\mathbb{m}\) 37'17	1°44'00 1.36681 AU 25°50'38 0.66903 AU -0°34'03 0°33'39	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56 3829 Sep 28 11:21 3829 Oct 11 19:49 3829 Oct 24 21:18 3829 Oct 31 12:35 3829 Nov 04 13:01 3829 Nov 06 09:03 3829 Nov 06 11:39 3829 Nov 10 23:58 3829 Nov 12 11:29 3829 Nov 15 07:52 3829 Nov 21 21:24 3829 Dec 05 01:13	7° m 14'24 15° m 25'40 23° m 58'56 0° n 19° n 14'46 0° m 15° m 56'19 23° m 12'05 20° m 31'43 16° m 28'25 14° m 19'15 14° m 11'37 9° m 35'35 8° m 38'15 7° m 53'17 11° m 26'54 0° x	1°42'56 1.34946 AU 26°46'36 0.65855 AU -1°33'52 1°32'47
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55 3828 Oct 04 21:14 3828 Oct 27 01:09 3828 Oct 29 07:22 3828 Nov 10 17:02 3828 Nov 16 19:34 3828 Nov 21 02:54 3828 Nov 22 11:11 3828 Nov 22 12:05 3828 Nov 22 02:37 3828 Nov 24 02:54 3828 Nov 28 04:59 3828 Dec 01 10:32 3828 Dec 08 08:27	22° \$\mathbb{m} 58'16 0° \(\Omega\) 3° \(\Omega\) 32'52 10° \(\Omega\) 44'34 29° \(\Omega\) 30'02 0° \$\mathbb{m}\) 0° \(\nabla\) 22'29 6° \(\nabla\) 50'44 2° \(\nabla\) 11'30 0° \(\nabla\) 22'51 30° RM 28° \$\mathbb{m}\) 27'11 24° \$\mathbb{m}\) 37'15 23° \$\mathbb{m}\) 37'17 27° \$\mathbb{m}\) 27'33	1°44'00 1.36681 AU 25°50'38 0.66903 AU -0°34'03 0°33'39	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56 3829 Sep 28 11:21 3829 Oct 11 19:49 3829 Oct 24 21:18 3829 Oct 31 12:35 3829 Nov 04 13:01 3829 Nov 06 09:03 3829 Nov 06 11:39 3829 Nov 10 23:58 3829 Nov 12 11:29 3829 Nov 15 07:52 3829 Nov 21 21:24 3829 Dec 05 01:13 3829 Dec 11 06:59	7° m 14'24 15° m 25'40 23° m 58'56 0° n 19° n 14'46 0° m 15° m 56'19 23° m 12'05 20° m 31'43 16° m 28'25 14° m 19'15 14° m 11'37 9° m 35'35 8° m 38'15 7° m 53'17 11° m 26'54 0° 7 10° 703'31	1°42'56 1.34946 AU 26°46'36 0.65855 AU -1°33'52 1°32'47
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55 3828 Oct 04 21:14 3828 Oct 27 01:09 3828 Oct 29 07:22 3828 Nov 10 17:02 3828 Nov 16 19:34 3828 Nov 21 02:54 3828 Nov 22 11:11 3828 Nov 22 11:11 3828 Nov 22 12:05 3828 Nov 24 02:54 3828 Nov 24 02:54 3828 Nov 28 04:59 3828 Dec 01 10:32 3828 Dec 08 08:27 3828 Dec 10 15:53	22° \$\mathbb{m} 58'16 0° \(\Omega\) 3° \(\Omega\) 32'52 10° \(\Omega\) 44'34 29° \(\Omega\) 30'02 0° \$\mathbb{m}\) 0° \(\nabla\) 2° \(\nabla\) 11'30 0° \(\nabla\) 22'29 6° \(\nabla\) 50'44 2° \(\nabla\) 11'30 0° \(\nabla\) 22'51 30° \(\nabla\) 28° \$\mathbb{m}\) 27'11 24° \$\mathbb{m}\) 37'17 27° \$\mathbb{m}\) 27'33 0° \(\nabla\)	1°44'00 1.36681 AU 25°50'38 0.66903 AU -0°34'03 0°33'39	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56 3829 Sep 28 11:21 3829 Oct 11 19:49 3829 Oct 24 21:18 3829 Oct 31 12:35 3829 Nov 04 13:01 3829 Nov 06 09:03 3829 Nov 06 11:39 3829 Nov 10 23:58 3829 Nov 12 11:29 3829 Nov 15 07:52 3829 Nov 21 21:24 3829 Dec 05 01:13 3829 Dec 11 06:59 3829 Dec 18 03:13	7° m 14'24 15° m 25'40 23° m 58'56 0° n 19° n 14'46 0° m 15° m 56'19 23° m 12'05 20° m 31'43 16° m 28'25 14° m 19'15 14° m 11'37 9° m 35'35 8° m 38'15 7° m 53'17 11° m 26'54 0° 7 10° 703'31 21° 702'40	1°42'56 1.34946 AU 26°46'36 0.65855 AU -1°33'52 1°32'47
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55 3828 Oct 04 21:14 3828 Oct 27 01:09 3828 Oct 29 07:22 3828 Nov 10 17:02 3828 Nov 16 19:34 3828 Nov 21 02:54 3828 Nov 22 11:11 3828 Nov 22 12:05 3828 Nov 22 20:37 3828 Nov 24 02:54 3828 Nov 28 04:59 3828 Dec 01 10:32 3828 Dec 08 08:27 3828 Dec 10 15:53 3828 Dec 30 22:39	22° \$\mathbb{m} 58'16 0° \(\Omega\) 3° \(\Omega\) 32'52 10° \(\Omega\) 44'34 29° \(\Omega\) 30'02 0° \$\mathbb{m}\) 0° \(\nabla\) 2° \(\nabla\) 11'30 0° \(\nabla\) 22'29 6° \(\nabla\) 50'44 2° \(\nabla\) 11'30 0° \(\nabla\) 22'941 0° \(\nabla\) 26'51 30° \(\mathbb{m}\) 11'22° \$\mathbb{m}\) 37'15 23° \$\mathbb{m}\) 37'17 27° \$\mathbb{m}\) 27'33 0° \(\nabla\) 29° \(\nabla\) 55'52	1°44'00 1.36681 AU 25°50'38 0.66903 AU -0°34'03 0°33'39	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56 3829 Sep 28 11:21 3829 Oct 11 19:49 3829 Oct 24 21:18 3829 Oct 31 12:35 3829 Nov 04 13:01 3829 Nov 06 09:03 3829 Nov 06 11:39 3829 Nov 10 23:58 3829 Nov 12 11:29 3829 Nov 15 07:52 3829 Nov 21 21:24 3829 Dec 05 01:13 3829 Dec 11 06:59 3829 Dec 18 03:13	7° m 14'24 15° m 25'40 23° m 58'56 0° n 19° n 14'46 0° m 15° m 56'19 23° m 12'05 20° m 31'43 16° m 28'25 14° m 19'15 14° m 11'37 9° m 35'35 8° m 38'15 7° m 53'17 11° m 26'54 0° 7 10° 703'31 21° 702'40	1°42'56 1.34946 AU 26°46'36 0.65855 AU -1°33'52 1°32'47
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minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55 3828 Oct 04 21:14 3828 Oct 27 01:09 3828 Oct 29 07:22 3828 Nov 10 17:02 3828 Nov 16 19:34 3828 Nov 21 02:54 3828 Nov 22 11:11 3828 Nov 22 12:05 3828 Nov 22 20:37 3828 Nov 24 02:54 3828 Nov 25 03:54 3828 Nov 27 03:54 3828 Nov 28 04:59 3828 Dec 01 10:32 3828 Dec 08 08:27 3828 Dec 30 22:39 3828 Dec 30 23:42 3828 Dec 31 06:12	22° \$\mathbb{m} 58'16 0° \(\Omega\) 3° \(\Omega\) 3'2'52 10° \(\Omega\) 44'34 29° \(\Omega\) 3'02 0° \$\mathbb{m}\) 0° \(\Z^2\) 22'29 6° \(\Z^3\) 55'44 2° \(\Z^3\) 11'30 0° \(\Z^2\) 29'41 0° \(\Z^2\) 25'51 30° \(\mathbb{m}\) 30'51'1 24° \$\mathbb{m} 37'17 27° \$\mathbb{m} 27'33 0° \(\Z^2\) 29° \(\Z^3\) 55'52 0° \(\Z^3\) 0° \(\Z^2\) 25'21	1°44'00 1.36681 AU 25°50'38 0.66903 AU -0°34'03 0°33'39	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56 3829 Sep 28 11:21 3829 Oct 11 19:49 3829 Oct 24 21:18 3829 Oct 31 12:35 3829 Nov 04 13:01 3829 Nov 06 09:03 3829 Nov 06 11:39 3829 Nov 10 23:58 3829 Nov 12 11:29 3829 Nov 15 07:52 3829 Nov 15 07:52 3829 Nov 21 21:24 3829 Dec 05 01:13 3829 Dec 11 06:59 3829 Dec 18 03:13 3829 Dec 23 18:45	7° ነ 14'24 15° ነ 25'40 23° ነ 25'40 23° ነ 58'56 0°	1°42'56 1.34946 AU 26°46'36 0.65855 AU -1°33'52 1°32'47 18°21'06
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minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist. superior conj minimum elong	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55 3828 Oct 04 21:14 3828 Oct 27 01:09 3828 Oct 29 07:22 3828 Nov 10 17:02 3828 Nov 16 19:34 3828 Nov 21 02:54 3828 Nov 22 11:11 3828 Nov 22 11:11 3828 Nov 22 12:05 3828 Nov 22 02:37 3828 Nov 24 02:54 3828 Nov 28 04:59 3828 Dec 01 10:32 3828 Dec 08 08:27 3828 Dec 10 15:53 3828 Dec 30 22:39 3828 Dec 30 22:39 3828 Dec 31 06:12 3829 Jan 16 14:10 3829 Jan 16 05:06 3829 Jan 19 02:47	22° № 58'16 0° 요 3° 요32'52 10° 요44'34 29° 요03'02 0° M 0° % 2° % 18'15 9° % 22'29 6° % 50'44 2° % 11'30 0° % 29'41 0° % 26'51 30° RM 28° M.27'11 24° M.37'15 23° M.37'17 27° M.27'33 0° % 29° % 55'52 0° 중 0° 중25'21 22° 중35'32 26° 중00'06 25° 중24'18 0° ≈	1°44'00 1.36681 AU 25°50'38 0.66903 AU -0°34'03 0°33'39 19°02'09 1.44994 AU -1°37'26	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56 3829 Sep 28 11:21 3829 Oct 11 19:49 3829 Oct 24 21:18 3829 Oct 31 12:35 3829 Nov 04 13:01 3829 Nov 06 09:03 3829 Nov 10 23:58 3829 Nov 12 11:29 3829 Nov 15 07:52 3829 Nov 15 07:52 3829 Nov 21 21:24 3829 Dec 05 01:13 3829 Dec 11 06:59 3829 Dec 18 03:13 3829 Dec 23 18:45 3829 Dec 26 09:24 3829 Dec 28 05:16 3830 Jan 11 20:13 3830 Jan 11 21:49 3830 Jan 22 13:57	7° m 14'24 15° m 25'40 23° m 58'56 0° ユ 19° ユ14'46 0° m 15° m 56'19 23° m 12'05 20° m 31'43 16° m 28'25 14° m 19'15 14° m 11'37 9° m 35'35 8° m 38'15 7° m 53'17 11° m 26'54 0° ズ 10° ズ 03'31 21° ズ 02'40 0° 云 4° ろ 34'05 4° ろ 06'38 6° 丙 58'52 29° 丙 53'41 0° ※ 16° ※ 40'51	1°42'56 1.34946 AU 26°46'36 0.65855 AU -1°33'52 1°32'47 18°21'06 -0°56'10 0°55'16 1.45246 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist. superior conj minimum elong	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55 3828 Oct 04 21:14 3828 Oct 27 01:09 3828 Oct 29 07:22 3828 Nov 10 17:02 3828 Nov 16 19:34 3828 Nov 21 02:54 3828 Nov 22 11:11 3828 Nov 22 11:11 3828 Nov 22 12:05 3828 Nov 22 02:37 3828 Nov 24 02:54 3828 Nov 28 04:59 3828 Dec 01 10:32 3828 Dec 08 08:27 3828 Dec 10 15:53 3828 Dec 30 22:39 3828 Dec 30 22:39 3828 Dec 30 23:42 3829 Jan 16 14:10 3829 Jan 16 05:06 3829 Jan 19 02:47 3829 Jan 19 02:47 3829 Jan 11 12:25	22° № 58'16 0° 요 3° 요32'52 10° 요44'34 29° 요03'02 0° M 0° % 2° % 18'15 9° % 22'29 6° % 50'44 2° % 11'30 0° % 29'41 0° % 26'51 30° RM 28° M.27'11 24° M.37'15 23° M.37'17 27° M.27'33 0° % 29° % 55'52 0° ♂ 25'21 22° ♂ 35'32 26° ♂ 00'06 25° ♂ 24'18 0° ≈ 19° ≈ 58'35	1°44'00 1.36681 AU 25°50'38 0.66903 AU -0°34'03 0°33'39 19°02'09 1.44994 AU -1°37'26	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56 3829 Sep 28 11:21 3829 Oct 11 19:49 3829 Oct 24 21:18 3829 Oct 31 12:35 3829 Nov 04 13:01 3829 Nov 06 09:03 3829 Nov 10 23:58 3829 Nov 12 11:29 3829 Nov 15 07:52 3829 Nov 15 07:52 3829 Nov 21 21:24 3829 Dec 05 01:13 3829 Dec 11 06:59 3829 Dec 18 03:13 3829 Dec 23 18:45 3829 Dec 26 09:24 3829 Dec 26 09:24 3829 Dec 28 05:16 3830 Jan 11 20:13 3830 Jan 11 21:49 3830 Jan 22 13:57 3830 Jan 31 19:35	7° m 14'24 15° m 25'40 23° m 58'56 0° 요 19° 요 14'46 0° m 15° m 56'19 23° m 12'05 20° m 31'43 16° m 28'25 14° m 19'15 14° m 11'37 9° m 35'35 8° m 38'15 7° m 53'17 11° m 26'54 0° ズ 10° ズ 03'31 21° ズ 02'40 0° 古 4° る 34'05 4° る 6' る 58'52 29° る 53'41 0° ※ 16° ※ 40'51 0° 光	1°42'56 1.34946 AU 26°46'36 0.65855 AU -1°33'52 1°32'47 18°21'06 -0°56'10 0°55'16 1.45246 AU -0.8m
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist. superior conj minimum elong evening rise asc. node	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55 3828 Oct 04 21:14 3828 Oct 27 01:09 3828 Oct 29 07:22 3828 Nov 10 17:02 3828 Nov 16 19:34 3828 Nov 22 12:05 3828 Nov 22 12:05 3828 Nov 22 12:05 3828 Nov 22 02:37 3828 Nov 24 02:54 3828 Nov 24 02:54 3828 Nov 28 04:59 3828 Dec 01 10:32 3828 Dec 08 08:27 3828 Dec 10 15:53 3828 Dec 30 22:39 3828 Dec 30 22:39 3828 Dec 30 23:42 3829 Dec 31 06:12 3829 Jan 16 14:10 3829 Jan 16 05:06 3829 Jan 19 02:47 3829 Jan 19 02:47 3829 Jan 11 12:25 3829 Feb 06 15:32 3829 Feb 00 02:11	22° № 58'16 0° 요 3° 요32'52 10° 요44'34 29° 요03'02 0° M 0° % 2° % 18'15 9° % 22'29 6° % 50'44 2° % 11'30 0° % 29'41 0° % 26'51 30° RM 28° M.27'11 24° M.37'15 23° M.37'17 27° M.27'33 0° % 29° % 55'52 0° % 0° ♂ 25'21 22° ♂ 35'32 26° ♂ 00'06 25° ♂ 24'18 0° ≈ 19° ≈ 58'35 0° ℃	1°44'00 1.36681 AU 25°50'38 0.66903 AU -0°34'03 0°33'39 19°02'09 1.44994 AU -1°37'26	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56 3829 Sep 28 11:21 3829 Oct 11 19:49 3829 Oct 24 21:18 3829 Oct 31 12:35 3829 Nov 04 13:01 3829 Nov 06 09:03 3829 Nov 10 23:58 3829 Nov 10 23:58 3829 Nov 12 11:29 3829 Nov 15 07:52 3829 Nov 15 07:52 3829 Nov 21 21:24 3829 Dec 05 01:13 3829 Dec 11 06:59 3829 Dec 18 03:13 3829 Dec 18 03:13 3829 Dec 26 16:23 3829 Dec 26 09:24 3829 Dec 26 09:24 3829 Dec 28 05:16 3830 Jan 11 20:13 3830 Jan 11 21:49 3830 Jan 31 19:35 3830 Feb 04 01:59	7° m 14'24 15° m 25'40 23° m 58'56 0° 요 19° 요 14'46 0° m 15° m 56'19 23° m 12'05 20° m 31'43 16° m 28'25 14° m 19'15 14° m 11'37 9° m 35'35 8° m 38'15 7° m 53'17 11° m 26'54 0° ズ 10° ズ 03'31 21° ズ 02'40 0° ጜ 4° ጜ 34'05 4° ጜ 36'38 6° ጜ 58'52 29° ጜ 53'41 0° ≈ 16° ≈ 40'51 0° ዢ 3° ዢ 47'11	1°42'56 1.34946 AU 26°46'36 0.65855 AU -1°33'52 1°32'47 18°21'06 -0°56'10 0°55'16 1.45246 AU -0.8m
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist. superior conj minimum elong evening rise	3828 Sep 14 07:48 3828 Sep 17 20:57 3828 Sep 19 17:07 3828 Sep 23 13:39 3828 Oct 04 06:55 3828 Oct 04 21:14 3828 Oct 27 01:09 3828 Oct 29 07:22 3828 Nov 10 17:02 3828 Nov 16 19:34 3828 Nov 21 02:54 3828 Nov 22 11:11 3828 Nov 22 11:11 3828 Nov 22 12:05 3828 Nov 22 02:37 3828 Nov 24 02:54 3828 Nov 24 02:54 3828 Nov 28 04:59 3828 Dec 01 10:32 3828 Dec 08 08:27 3828 Dec 10 15:53 3828 Dec 30 22:39 3828 Dec 30 22:39 3828 Dec 30 23:42 3829 Dec 31 06:12 3829 Jan 16 14:10 3829 Jan 16 05:06 3829 Jan 19 02:47 3829 Jan 19 02:47 3829 Jan 31 12:25 3829 Feb 06 15:32	22°™58'16 0° Ω 3° Ω32'52 10° Ω44'34 29° Ω03'02 0° ™ 0° ¾ 2° ¾18'15 9° ¾22'29 6° ¾50'44 2° ¾11'30 0° ¾29'41 0° ¾26'51 30° № 28° ™27'11 24° ™37'15 23° ™37'17 27° ™27'33 0° ¾ 29° ¾55'52 0° ♂ 0° ♂25'21 22° ♂35'32 26° ♂00'06 25° ♂24'18 0° ≈ 19° ≈58'35 0° ℋ 19° ¾38'41	1°44'00 1.36681 AU 25°50'38 0.66903 AU -0°34'03 0°33'39 19°02'09 1.44994 AU -1°37'26 1°36'35	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	3829 Aug 29 05:40 3829 Sep 02 05:20 3829 Sep 06 13:49 3829 Sep 09 18:58 3829 Sep 21 03:56 3829 Sep 28 11:21 3829 Oct 11 19:49 3829 Oct 24 21:18 3829 Oct 31 12:35 3829 Nov 04 13:01 3829 Nov 06 09:03 3829 Nov 10 23:58 3829 Nov 12 11:29 3829 Nov 15 07:52 3829 Nov 15 07:52 3829 Nov 21 21:24 3829 Dec 05 01:13 3829 Dec 11 06:59 3829 Dec 18 03:13 3829 Dec 13 03:13 3829 Dec 26 16:23 3829 Dec 26 09:24 3829 Dec 26 09:24 3829 Dec 28 05:16 3830 Jan 11 20:13 3830 Jan 11 21:49 3830 Jan 31 19:35 3830 Feb 04 01:59 3830 Feb 06 23:15	7° m 14'24 15° m 25'40 23° m 58'56 0° 요 19° 요 14'46 0° m 15° m 56'19 23° m 12'05 20° m 31'43 16° m 28'25 14° m 19'15 14° m 11'37 9° m 35'35 8° m 38'15 7° m 53'17 11° m 26'54 0° ズ 10° ズ 03'40 0° ズ 4° ろ34'05 4° ろ6'38 6° ろ58'52 29° ろ53'41 0° ※ 16° ※ 40'51 0° 米 3° 光 47'11 6° 光 17'26	1°42'56 1.34946 AU 26°46'36 0.65855 AU -1°33'52 1°32'47 18°21'06 -0°56'10 0°55'16 1.45246 AU -0.8m

inferior conj	3830 Feb 20 01:34	0° ¥ 49'16	3°22'16		3831 Jan 05 04:15	0° ≈	
minimum elong	3830 Feb 20 01:34 3830 Feb 19 23:44	0° X 4910		greatest brilliancy	3831 Jan 06 00:17	0 ∞ 1°≈13'46	-0.6m
minimum ciong	3830 Feb 20 16:51	30°R≈	3 22 00	evening max el	3831 Jan 18 06:12	1 ≈1340 17°≈18'57	20°09'36
min. Earth dist.	3830 Feb 21 11:10	29°≈01'17	0.66211 AU	asc. node	3831 Jan 24 20:17	21° ≈ 44'11	20 07 30
morning rise	3830 Feb 25 10:24	24°≈35'42	0.00211 AC	retrograde	3831 Jan 26 00:42	21°≈51'49	
direct	3830 Mar 03 18:37	21°≈47'35		evening set	3831 Jan 29 18:55	20°≈29'36	
desc. node	3830 Mar 16 02:27	28°≈57'44		inferior conj	3831 Feb 04 04:31	14°≈25'38	2°57'14
morning max el	3830 Mar 16 11:21	29°≈20'01	26°13'32	minimum elong	3831 Feb 04 02:07	14°≈33'45	2°56'40
morning max or	3830 Mar 17 02:58	0° ∀	20 13 32	min. Earth dist.	3831 Feb 05 00:12	13° ≈ 19'14	0.67206 AU
	3830 Apr 08 06:22	0° Υ		morning rise	3831 Feb 09 09:06	8°≈11'41	0.07200710
morning set	3830 Apr 21 14:30	23° Υ 02'36		direct	3831 Feb 15 04:22	5°≈36'07	
morning sec	3830 Apr 25 06:13	0°8		morning max el	3831 Feb 26 20:04	12° ≈ 34'10	24°53'31
max. Earth dist.	3830 Apr 25 14:22	0° 8 39'43	1.35134 AU	desc. node	3831 Mar 02 23:30	17°≈06'46	24 33 31
max. Earth dist.	3030 ripi 23 11.22	0 039 13	1.55151110	dese. Hode	3831 Mar 12 21:11	0° ∀	
superior conj	3830 Apr 30 14:45	10° 8 40'47	-0°53'00		3831 Apr 01 00:45	0°Υ	
minimum elong	3830 Apr 30 17:34	10° 8 55'11	0°52'28	morning set	3831 Apr 03 22:46	5° Υ 06'27	
asc. node	3830 May 05 22:31	21° 8 41'21	0 32 20	max. Earth dist.	3831 Apr 07 13:50	11° Υ '40'27	1.37002 AU
evening rise	3830 May 08 08:52	26° 8 43'34		max. Lartii dist.	3031 Apr 07 13.30	11 402/	1.57002710
evening rise	3830 May 09 23:17	20 O 43 34 0° I		superior conj	3831 Apr 14 01:31	24° Y ′00'44	-1°21'06
evening max el	3830 May 26 21:51	26° I I53'38	20°34'04	minimum elong	3831 Apr 14 01:31 3831 Apr 14 05:43	24° Υ 21'16	
evening max er	3830 May 30 17:46	0°9	20 34 04	minimum clong	3831 Apr 17 02:10	0° 8	1 2027
ratra ara da	3830 Jun 07 01:29	2° 5 20'22		avanina riaa		10° 8 50'47	
retrograde				evening rise	3831 Apr 22 11:45	_	
evening set	3830 Jun 09 02:12	2°910'16		asc. node	3831 Apr 22 19:34	11° 8 29'56	
desc. node	3830 Jun 12 01:39	1°921'56			3831 May 02 21:17	0°П	10027110
	3830 Jun 15 02:40	30°RⅡ	1050100	evening max el	3831 May 09 12:08	8° Ⅱ 29'11	19°27'19
inferior conj	3830 Jun 18 07:56	28° Ⅱ 12'45		retrograde	3831 May 18 22:01	13° Ⅱ 03'38	
minimum elong	3830 Jun 18 02:45	28° Ⅱ 20'14		evening set	3831 May 20 21:44	12° Ⅱ 52'17	
min. Earth dist.	3830 Jun 19 12:31	27° Ⅱ 31'30	0.54943 AU	inferior conj	3831 May 29 12:05	8° Ⅱ 46'32	0°07'46
morning rise	3830 Jun 27 02:30	24° Ⅱ 04'22		minimum elong	3831 May 29 12:25	8° Ⅱ 46'00	0°07'38
direct	3830 Jun 30 20:45	23° Ⅱ 33'52		transit middle	3831 May 29 12:25	8° Ⅱ 46'00	0°07'38
morning max el	3830 Jul 14 04:17	29° ∏ 59'57	23°17'43	transit begin	3831 May 29 09:01	8° Ⅱ 51'30	
	3830 Jul 14 04:18	0ංම		transit end	3831 May 29 15:50	8° ∏ 40′28	
asc. node	3830 Aug 01 21:45	27° © 36'15		desc. node	3831 May 29 22:41	8° Ⅱ 29'23	
	3830 Aug 03 02:46	$0^{\circ}\Omega$		min. Earth dist.	3831 Jun 01 02:43	7° Ⅱ 05'50	0.55873 AU
morning set	3830 Aug 06 11:15	6° Ω 54'29		morning rise	3831 Jun 07 00:17	4° Ⅱ 05'57	
				direct	3831 Jun 11 16:12	3° Ⅱ 16'42	
superior conj	3830 Aug 13 12:13	22° Ω 01'14	1°35'33	morning max el	3831 Jun 25 18:15	10° Ⅲ 23'52	24°59'46
minimum elong	3830 Aug 13 10:24	21° Ω 51'27	1°35'24		3831 Jul 10 13:21	0 \circ ∞	
max. Earth dist.	3830 Aug 16 02:22		1.33599 AU	asc. node	3831 Jul 19 18:47	17° © 16'15	
	3830 Aug 17 06:38	0° m)		morning set	3831 Jul 21 22:59	21° 5 548'28	
evening rise	3830 Aug 21 03:10	7° m 51'37			3831 Jul 25 18:12	$0 {\circ} \Omega$	
	3830 Sep 02 07:01	0∘ ত					
desc. node	3830 Sep 08 00:58	9° ഫ 02'38		superior conj	3831 Jul 28 21:48	6° £ 53′32	1°22'48
evening max el	3830 Sep 24 07:51	29° ഫ 20'50	27°20'04	minimum elong	3831 Jul 28 19:31	6° Ω 41′00	1°22'30
	3830 Sep 25 00:36	0°M		max. Earth dist.	3831 Jul 30 07:30	9° Ω 57'07	1.32674 AU
retrograde	3830 Oct 07 19:55	6°M39′25		evening rise	3831 Aug 05 01:58	22° Ω 11′00	
evening set	3830 Oct 14 20:40	3°M58'28			3831 Aug 08 23:58	0° m y	
min. Earth dist.	3830 Oct 18 15:06	0°M29'53	0.64457 AU	desc. node	3831 Aug 25 21:59	28° m 15'42	
	3830 Oct 19 02:27	30° ₹ Ω			3831 Aug 27 04:11	0∘ ⊽	
inferior conj	3830 Oct 20 23:20	27° ≏ 59'16	-2°35'04	evening max el	3831 Sep 06 17:41	12° ≏ 18'41	27°24'45
minimum elong	3830 Oct 21 03:41	27° £ 47'37	2°33'28	retrograde	3831 Sep 20 11:53	19° ≏ 34'18	
morning rise	3830 Oct 27 11:53	22° ≏ 32'40		evening set	3831 Sep 27 16:29	17° ≏ 03'45	
asc. node	3830 Oct 28 20:59	22° ₽ 06'06		min. Earth dist.	3831 Oct 01 07:21	14° ≏ 05'02	0.62735 AU
direct	3830 Oct 30 01:33	21° £ 58'45		inferior conj	3831 Oct 04 03:13	11° ≏ 22'17	
morning max el	3830 Nov 05 13:33	25° ≏ 24'58	17°56'56	minimum elong	3831 Oct 04 08:53	11° ≏ 08'40	3°32'46
<i>3</i>	3830 Nov 09 09:36	0°M		morning rise	3831 Oct 11 02:51	6° Ω 13'17	-
morning set	3830 Nov 22 20:12	21°MJ36'22		direct	3831 Oct 13 12:30	5° Ω 46'51	
	3830 Nov 27 20:09	0°×7		asc. node	3831 Oct 15 18:00	6° ⊆ 10'14	
desc. node	3830 Dec 05 00:16	11° ×7 46'52		morning max el	3831 Oct 20 05:50	9° £ 13'44	17°50'30
acce. node	3030 200 00 00.10	11 7 10 02			3831 Nov 02 22:52	0°M	1, 2030
superior conj	3830 Dec 06 05:49	13° ∡ ¹46'04	-0°08'28	morning set	3831 Nov 02 22:32 3831 Nov 05 08:38	4°M15'48	
minimum elong	3830 Dec 06 03:49	13° х 40'04	0°08'19	morning set	JUJI 1107 UJ U0.J0	4 IIV1340	
behind sun begin	3830 Dec 00 04.48 3830 Dec 05 19:53	13° × ⁴ 201	0 0017	superior conj	3831 Nov 16 19:48	24°M10'35	0°34'45
behind sun begin	3830 Dec 03 19.33 3830 Dec 06 13:44	13 × 00 03 14° × 17'55		minimum elong	3831 Nov 16 19.48 3831 Nov 16 23:00	24 IL10 33 24°M24'03	0°34'18
max. Earth dist.		21° × '17'33	1.44761 AU	minimum ciong		24°االہ24'03 0° الہ	U J+10
max. Earm aist.	3830 Dec 10 23:55	21° メ ・21'18	1.44/01 AU	daga mada	3831 Nov 20 07:44		
ovonina rica	3830 Dec 16 12:07			desc. node	3831 Nov 21 21:18	2° × ⁷ 34'00	1 42500 411
evening rise	3830 Dec 22 10:18	9° る 10'13		max. Earth dist.	3831 Nov 23 15:56	5° ∡ 127'02	1.43599 AU

	2021 D 01 20 11	100 700147			2022 N 07 10 17	220 m 20142	
evening rise	3831 Dec 01 20:11	18° ₹ 22'47		desc. node	3832 Nov 07 18:17	23°M20'42	
	3831 Dec 09 11:05	0°₹		evening rise	3832 Nov 10 17:56	28°M10'32	
	3831 Dec 31 09:01	0° ≈			3832 Nov 11 21:24	0° ∡	
evening max el	3832 Jan 01 04:59	0°≈52'15	21°17'52		3832 Dec 02 03:27	0°ಕ	
retrograde	3832 Jan 09 22:24	6° ≈ 02'46		evening max el	3832 Dec 13 22:35	14° る 26'57	22°34'42
asc. node	3832 Jan 11 17:17	5° ≈ 45'22		retrograde	3832 Dec 23 18:10	20° ට 16'55	
evening set	3832 Jan 14 02:32	4° ≈ 25'19		evening set	3832 Dec 28 09:55	18° ට 23'16	
•	3832 Jan 18 02:53	30°Ŗ₹		asc. node	3832 Dec 28 14:18	18° る 14'03	
inferior conj	3832 Jan 19 10:52		2°23'01	inferior conj	3833 Jan 02 18:36	12°る01'24	1°41'07
minimum elong	3832 Jan 19 08:24		2°22'15	minimum elong	3833 Jan 02 16:33	12°る08'32	1°40'22
min. Earth dist.	3832 Jan 19 18:00	28 3 1913 27° 3 46'04	0.67791 AU	min. Earth dist.	3833 Jan 02 14:17	12°る16'20	0.67995 AU
			0.67791 AU				0.07993 AU
morning rise	3832 Jan 24 14:05	21° る 58'12		morning rise	3833 Jan 07 23:03	5° る 51'54	
direct	3832 Jan 29 18:48	19° る 42'13		direct	3833 Jan 12 12:57	3° る 58'42	
morning max el	3832 Feb 09 04:48	25° る 53'57	23°25'10	morning max el	3833 Jan 21 16:57	9° る 21'03	21°57'54
	3832 Feb 12 22:45	0° ≈		desc. node	3833 Feb 03 17:33	25° る 40'11	
desc. node	3832 Feb 17 20:32	6° ≈ 05'48			3833 Feb 06 18:29	0° ≈	
	3832 Mar 05 10:26	0° ∀		morning set	3833 Feb 23 11:17	25°≈29'05	
morning set	3832 Mar 15 07:21	15° ¥ 59'09		Č	3833 Feb 26 06:06	0°) €	
max. Earth dist.	3832 Mar 19 08:52	22°) 57'48	1.39145 AU	max. Earth dist.	3833 Mar 01 07:18		1.41296 AU
max. Lattii dist.	3832 Mar 23 07:50	0° Υ	1.371 4 3 A0	max. Lartii dist.	3033 War 01 07.10	3 7(02 40	1.41270 AO
	3632 Mai 23 07.30	0 1			2022 M 00 00 20	1001/10156	2002122
		50 0 00 = 144		superior conj	3833 Mar 09 00:39	18°) 18′56	
superior conj	3832 Mar 26 22:27	6° Ƴ 37'41		minimum elong	3833 Mar 09 03:53	18° ∺ 33'11	2°02'24
minimum elong	3832 Mar 27 03:08	6° Ƴ 59'33	1°45'04		3833 Mar 15 12:06	0 ° $\mathbf{\Upsilon}$	
evening rise	3832 Apr 05 06:40	24° Ƴ 30′20		evening rise	3833 Mar 19 14:08	7° Ƴ 33'00	
	3832 Apr 08 03:20	9° 8		asc. node	3833 Mar 26 13:37	20° Ƴ 13'30	
asc. node	3832 Apr 08 16:36	1° 8 02'47			3833 Apr 01 20:32	0°8	
evening max el	3832 Apr 21 12:56	20° 8 43'50	18°40'34	evening max el	3833 Apr 04 20:53	3° 8 28'29	18°13'57
retrograde	3832 Apr 29 12:03	24° 8 38'09	10 .05.	retrograde	3833 Apr 11 21:02	6° 8 59'19	10 1507
•	•	24° 8 20'57		•	•	6° 8 33'20	
evening set	3832 May 01 17:30		104450	evening set	3833 Apr 14 08:58		20.40150
inferior conj	3832 May 09 11:55	19° 8 57'05	1°44'50	inferior conj	3833 Apr 21 09:05	1° 8 48'40	2°49'50
minimum elong	3832 May 09 15:19	19° 8 50'40	1°43'47	minimum elong	3833 Apr 21 12:31	1° 8 41'06	2°49'06
min. Earth dist.	3832 May 12 19:58	17° 8 27'32	0.57556 AU		3833 Apr 23 10:11	30° ₹Ƴ	
desc. node	3832 May 15 19:42	15° 8 31'11		min. Earth dist.	3833 Apr 24 18:34	28° Ƴ 50'38	0.59653 AU
morning rise	3832 May 17 09:58	14° 8 42'01		morning rise	3833 Apr 28 13:31	26° Ƴ 06′27	
direct	3832 May 23 01:34	13° 8 22'54		desc. node	3833 May 02 16:45	24° Y 26'31	
morning max el	3832 Jun 06 10:13	20° 8 56'40	26°27'51	direct	3833 May 04 23:38	24° Υ 12'03	
morning max er	3832 Jun 14 06:25	0°II	20 27 31	uncet	3833 May 17 03:40	0°8	
	3832 Jul 14 00:23	0°©			3833 May 17 03:40 3833 May 19 08:08		27927140
				morning max el	,	2° 8 01'58	27°27'49
morning set	3832 Jul 05 09:38	6° © 38'03			3833 Jun 08 14:09	$\Pi^{\circ 0}$	
asc. node	3832 Jul 05 15:50	7° © 10'46		morning set	3833 Jun 19 17:32	21° Ⅱ 17'20	
				asc. node	3833 Jun 22 12:53	27° Ⅱ 14'08	
superior conj	3832 Jul 12 09:19	21° © 49'22	1°05'28		3833 Jun 23 19:33	0 \circ \odot	
minimum elong	3832 Jul 12 07:02	21° 5 36'48	1°05'04	max. Earth dist.	3833 Jun 26 05:40	5° © 18'13	1.32044 AU
max. Earth dist.	3832 Jul 12 17:51	22°536'25	1.32162 AU				
	3832 Jul 16 02:50	$0^{\circ}\Omega$		superior conj	3833 Jun 26 20:58	6°542'28	0°44'12
evening rise	3832 Jul 19 07:17	6° Ω 48'12		minimum elong	3833 Jun 26 19:10	6°932'31	0°43'50
evening rise				_			0 43 30
	3832 Jul 31 12:33	0° m		evening rise	3833 Jul 03 16:44	21°935'06	
desc. node	3832 Aug 11 18:59	16° m 39'49	2605555		3833 Jul 07 18:41	$\Omega^{\circ}\Omega$	
evening max el	3832 Aug 18 22:36	24° Mp 36'54	26°56'26		3833 Jul 26 06:06	O° m y	
	3832 Aug 26 04:12	0∘ ⊽		desc. node	3833 Jul 29 16:00	3° m 55'06	
retrograde	3832 Sep 01 20:10	1° ≏ 48'12		evening max el	3833 Jul 31 20:14	6°№06'53	25°55'43
	3832 Sep 08 06:13	30°₽, Т р		retrograde	3833 Aug 14 19:34	13° m) 14'54	
evening set	3832 Sep 08 19:47	29° Mp 40'29		evening set	3833 Aug 21 01:50	11° m /41'06	
min. Earth dist.	3832 Sep 12 12:49	27° m 01'19	0.60763 AU	min. Earth dist.	3833 Aug 25 08:34	9° m 05'01	0.58694 AU
inferior conj	3832 Sep 12 12:49	24° mp 19'59		inferior conj	3833 Aug 28 14:24	6° Mp 42'45	
	•	24° Mp 07'57		,	-	6° Mp 36'47	
minimum elong	3832 Sep 15 23:07		7 43 44	minimum elong	3833 Aug 28 17:39		J 01 40
morning rise	3832 Sep 23 04:18	19° m/32'02		morning rise	3833 Sep 05 11:42	2° m/ 18'05	
direct	3832 Sep 25 13:02	19° m 10'02		direct	3833 Sep 07 22:36	1° m ,58′20	
asc. node	3832 Oct 01 15:02	21°Mp42'23		morning max el	3833 Sep 16 02:24	5° m 52'35	18°35'37
morning max el	3832 Oct 02 19:11	22° Mp 45'44	18°02'55	asc. node	3833 Sep 18 12:05	8° ™ 28'46	
	3832 Oct 08 11:31	0∘ ⊽			3833 Oct 01 09:31	0∘ ত	
morning set	3832 Oct 18 13:58	17° ≏ 43'20		morning set	3833 Oct 02 07:16	1° ≏ 45'07	
Č	3832 Oct 25 05:42	0°M		Č			
				superior conj	3833 Oct 11 02:21	18° ≏ 38'01	1°29'33
superior conj	3832 Oct 28 12:06	5°M51'54	1°07'46	minimum elong	3833 Oct 11 02:21	18° ⊆ 52'57	1°29'16
			1°07'46 1°07'15	minimum ciong		0° M	1 2710
minimum elong	3832 Oct 28 16:17	6°M10'28		P. (1. 1)	3833 Oct 17 08:21		1 20006 437
max. Earth dist.	3832 Nov 05 03:24	19°M00'51	1.41904 AU	max. Earth dist.	3833 Oct 18 09:52	1°M52'05	1.39886 AU

evening rise	3833 Oct 22 13:26	8°M.58'19			3834 Oct 09 16:17	0°M	
desc. node	3833 Oct 25 15:18	14°M03'48		desc. node	3834 Oct 12 12:19	4°M38'49	
dese. Hode	3833 Nov 04 20:54	0° ⊼ 7		desc. Hode	3834 Oct 29 21:02	0° × 7	
evening max el	3833 Nov 26 12:32	28° х 04'44	23°54'38	evening max el	3834 Nov 09 00:53	11° ×7 45'44	25°11'08
* · · · · · · · · · · · · · · · · · · ·	3833 Nov 28 13:26	0°ਰ		retrograde	3834 Nov 20 23:17	18° х 39′52	
retrograde	3833 Dec 07 10:49	4° る 30'57		evening set	3834 Nov 26 17:47	16° ∡ 15'17	
evening set	3833 Dec 12 15:34	2° ප් 21'08		min. Earth dist.	3834 Dec 01 05:14	11° ҂ 15'36	0.67341 AU
Č	3833 Dec 14 22:50	30°₽ ✓		inferior conj	3834 Dec 02 07:09	9° х 51′06	-0°01'03
asc. node	3833 Dec 15 11:20	29° ₹ 22'22		minimum elong	3834 Dec 02 07:10	9° ₰ 751'01	0°01'02
min. Earth dist.	3833 Dec 17 10:48	26° ∡ ¹47'18	0.67841 AU	transit middle	3834 Dec 02 07:10	9° ∡ ′51′01	0°01'02
inferior conj	3833 Dec 18 01:57	25° ₹ 55'51	0°52'44	transit begin	3834 Dec 02 04:24	10° ₹ 00'05	
minimum elong	3833 Dec 18 00:44	25° ₹ 59'58	0°52'15	transit end	3834 Dec 02 09:57	9° ∡ 141'58	
morning rise	3833 Dec 23 09:56	19° ₰ 51'09		asc. node	3834 Dec 02 08:23	9° ∡ 747'04	
direct	3833 Dec 27 09:55	18° ₰ 20'40		morning rise	3834 Dec 07 20:47	3° ₹ 53'18	
morning max el	3834 Jan 04 11:52	22° 渘 ′59′21	20°38'59	direct	3834 Dec 11 08:26	2° ҂ ¹43'14	
	3834 Jan 10 11:38	8°0		morning max el	3834 Dec 18 14:39	6° ≯ 48'21	19°33'04
desc. node	3834 Jan 21 14:34	15° る 40'20		greatest brilliancy	3834 Dec 31 18:07	24° 渘 15′00	-0.7m
	3834 Jan 31 02:08	0° ≈			3835 Jan 04 13:42	0°ಕ	
morning set	3834 Feb 02 14:10	3° ≈ 52'08		desc. node	3835 Jan 08 11:36	5° る 58'44	
max. Earth dist.	3834 Feb 11 12:49	18° ≈ 02'15	1.43163 AU	morning set	3835 Jan 12 11:08	12° る 06'44	
					3835 Jan 23 22:13	0°≈	
superior conj	3834 Feb 18 03:11	28° ≈ 53'43	-2°07'04	max. Earth dist.	3835 Jan 25 01:03	1° ≈ 46′07	1.44511 AU
minimum elong	3834 Feb 18 02:01		2°07'04				
	3834 Feb 18 18:59	0°) €		superior conj	3835 Jan 29 03:51	8° ≈ 19'42	-1°53'57
evening rise	3834 Mar 02 06:02	19° ¥ 50′02		minimum elong	3835 Jan 28 20:45	7°≈51'17	1°53'29
	3834 Mar 08 00:51	0° Υ			3835 Feb 11 08:35	0° ∀	
asc. node	3834 Mar 13 10:39	8° Y 55'04		evening rise	3835 Feb 12 01:57	1°) 12′54	
evening max el	3834 Mar 19 08:43		18°07'01	asc. node	3835 Feb 28 07:42	26° ∺ 58′28	
retrograde	3834 Mar 25 21:17	19° Y 57'32			3835 Mar 02 23:27	0°Υ	
evening set	3834 Mar 28 15:10	19° Y 21′05		evening max el	3835 Mar 02 21:26	29°) 54'58	18°19'06
inferior conj	3834 Apr 04 00:48	14° Y 16′13	3°25'09	retrograde	3835 Mar 09 08:12	3° Y 23'16	
minimum elong	3834 Apr 04 02:43	14° Υ 11'22	3°24'56	evening set	3835 Mar 12 07:55	2°Υ35'10	
min. Earth dist.	3834 Apr 07 01:06	11° Υ 14'27	0.61825 AU		3835 Mar 15 16:07	30° ₹	2027110
morning rise	3834 Apr 10 12:37	8°Υ17'03		inferior conj	3835 Mar 18 06:55	27°) 11'22	
direct	3834 Apr 17 08:35	5° Υ 51'17 6° Υ 05'31		minimum elong	3835 Mar 18 07:04	27° 	3°37'09
desc. node	3834 Apr 19 13:47	13° Y 49'32	27°51'24	min. Earth dist.	3835 Mar 20 16:55	24° X 27'48 21° X 03'23	0.63808 AU
morning max el	3834 May 01 12:21		27-31-24	morning rise	3835 Mar 24 05:21	18° H 17'49	
	3834 May 14 12:08 3834 Jun 01 00:48	0°B 0°B		direct	3835 Mar 31 02:13	18° X 17'49 20° X 15'38	
marning gat	3834 Jun 03 20:42	5° П 40'00		desc. node morning max el	3835 Apr 06 10:50 3835 Apr 13 20:42	26° X 15'18	27027140
morning set asc. node	3834 Jun 09 09:56	17° Ⅲ 21'52		morning max er	3835 Apr 17 08:13	20 χ13 18 0° Υ	21 3146
max. Earth dist.	3834 Jun 09 14:59	17 Ⅱ 21 32 17° Ⅱ 49'13	1.32335 AU		3835 May 08 01:41	0°8	
max. Earth dist.	3634 Juli 09 14.39	1/ Д4913	1.32333 AU	morning set	3835 May 18 16:43	19° 8 38'35	
superior conj	3834 Jun 11 07:05	21° Ⅲ 27'12	0°19'39	max. Earth dist.	3835 May 23 17:48		1.33059 AU
minimum elong	3834 Jun 11 06:11	21° II 22'17	0°19'27	max. Earth dist.	3835 May 23 17:46 3835 May 23 18:20	0°II	1.55057710
minimum crong	3834 Jun 15 04:53	0°95	0 1) 2/		3033 May 23 10.20	V A	
evening rise	3834 Jun 18 04:15	6° 9 24'53		superior conj	3835 May 26 13:49	5° II 57'57	-0°07'30
	3834 Jun 30 13:22	0° N		minimum elong	3835 May 26 14:11	5° Ⅱ 59'56	
evening max el	3834 Jul 13 11:03	16° Ω 52'45	24°30'01	behind sun begin	3835 May 26 09:25	5° Ⅱ 34'23	
desc. node	3834 Jul 16 13:02	19° Ω 33'36		behind sun end	3835 May 26 18:58	6° Ⅱ 25'31	
retrograde	3834 Jul 27 08:16	23° £ 53′33		asc. node	3835 May 27 06:59	7° Ⅱ 30′02	
evening set	3834 Aug 01 07:43	22° Ω 58′00		evening rise	3835 Jun 02 16:00	21° Ⅱ 11'40	
min. Earth dist.	3834 Aug 06 22:04	20° Ω 06′04	0.56793 AU	•	3835 Jun 06 22:47	0°©	
inferior conj	3834 Aug 09 15:27	18° Ω 21'45	-5°07'08	evening max el	3835 Jun 25 00:30	27°518'22	22°53'22
minimum elong	3834 Aug 09 13:21	18° Ω 25'07		C	3835 Jun 28 03:05	$0^{\circ}\Omega$	
morning rise	3834 Aug 17 21:35	14° Ω 18′20		desc. node	3835 Jul 03 10:04	3° Ω 01'15	
direct	3834 Aug 20 13:13	13° Ω 59'12		retrograde	3835 Jul 08 08:21	3° Ω 56'46	
morning max el	3834 Aug 30 00:16	18° Ω 24'05	19°29'45	evening set	3835 Jul 11 19:15	3° £ 30′39	
asc. node	3834 Sep 05 09:09	26° Ω 13'41		min. Earth dist.	3835 Jul 19 09:12	0° Ω 08'40	0.55411 AU
	3834 Sep 07 18:07	0° m			3835 Jul 19 15:15	30° ₹ 5	
morning set	3834 Sep 16 08:46	16° Mp 10'11		inferior conj	3835 Jul 20 21:26	29° © 16'27	-4°26'43
	3834 Sep 23 06:09	0∘ ⊽		minimum elong	3835 Jul 20 13:55	29° 5 27'18	4°25'13
				morning rise	3835 Jul 29 10:50	25° © 24'57	
superior conj	3834 Sep 24 08:58	2° ≏ 12'18	1°41'14	direct	3835 Aug 01 09:33	25° © 04'35	
minimum elong	3834 Sep 24 10:30	2° ≏ 19'47	1°41'10		3835 Aug 12 05:11	0 $^{\circ}$ Ω	
max. Earth dist.	3834 Sep 30 14:02	14° ≏ 02'55	1.37806 AU	morning max el	3835 Aug 12 10:33	0° Ω 12′20	20°45'11
evening rise	3834 Oct 04 08:10	20° ჲ 50'09		asc. node	3835 Aug 23 06:13	14° Ω 43'49	

morning set	3835 Aug 31 05:43 3835 Aug 31 15:42	0° ሙ 0° ሙ 51'13		asc. node morning set	3836 Aug 09 03:16 3836 Aug 15 01:53	3° Ω 47'30 15° Ω 41'22	
					3836 Aug 21 19:33	0° m)	
superior conj	3835 Sep 08 03:17	16° m 21'13	1°44'24		2026 4 22 05 27	00.00.5211.0	1040121
minimum elong	3835 Sep 08 03:12	16° m 20'46	1°44'25	superior conj	3836 Aug 22 05:37	0° m 53'18	1°40'31
max. Earth dist.	3835 Sep 12 21:54	25° M 55'16 0° <u> </u>	1.35904 AU	minimum elong max. Earth dist.	3836 Aug 22 04:17	0° Mp 46'18 7° Mp 52'57	1°40'27 1.34332 AU
evening rise	3835 Sep 15 00:35 3835 Sep 16 22:57	ე° <u>₽</u> 2		evening rise	3836 Aug 25 13:59 3836 Aug 30 05:14	17° My 10'21	1.34332 AU
desc. node	3835 Sep 10 22:37 3835 Sep 29 09:21	25° £ 00'54		evening rise	3836 Sep 06 03:07	ე∘ <u>ი</u>	
dese. Hode	3835 Oct 02 14:36	0°M		desc. node	3836 Sep 15 06:24	0 — 15° Ω 03'27	
evening max el	3835 Oct 22 13:23	25°M27'39	26°16'44	dese. Hode	3836 Sep 25 23:15	0°M	
<i>y</i>	3835 Oct 28 01:01	0° ∡ 7		evening max el	3836 Oct 04 02:05		27°04'00
retrograde	3835 Nov 04 06:45	2° х 38′10		retrograde	3836 Oct 17 08:31	16°M19'05	
evening set	3835 Nov 10 14:46	0° ∡ °02'17		evening set	3836 Oct 24 04:19	13°M27'39	
	3835 Nov 10 15:52	30°RM		min. Earth dist.	3836 Oct 28 02:12	9° M 49'14	0.65307 AU
min. Earth dist.	3835 Nov 14 19:11	25°M37'58	0.66500 AU	inferior conj	3836 Oct 30 03:16	7°M30'26	-1°59'47
inferior conj	3835 Nov 16 08:18	23°M44'04	-0°59'05	minimum elong	3836 Oct 30 06:37	7°M20'56	1°58'27
minimum elong	3835 Nov 16 09:54	23°M39'11	0°58'25	morning rise	3836 Nov 05 09:49	1°M54'54	
asc. node	3835 Nov 19 05:26	20°M24'05		asc. node	3836 Nov 05 02:28	2°M04'17	
morning rise	3835 Nov 22 05:32	17°M55'51		direct	3836 Nov 08 03:08	1°M14'57	
direct	3835 Nov 25 06:54	17°M02'44		morning max el	3836 Nov 14 15:02		18°08'39
morning max el	3835 Dec 02 00:26		18°42'33		3836 Dec 01 16:30	0° ∡	
	3835 Dec 09 07:22	0° ∡ 7		morning set	3836 Dec 02 23:57	2° ₹ 09'18	
morning set	3835 Dec 23 02:49	21° x ⁷ 23'19		desc. node	3836 Dec 12 05:39	17° ∡ 10'55	
desc. node	3835 Dec 26 08:37	26° ₹ 30'13			2026 D 17 12 47	250 741124	0025150
	3835 Dec 28 13:53	0°ප		superior conj	3836 Dec 17 13:47	25° ₹ 41'34 25° ₹ 23'37	
superior conj	3836 Jan 08 09:16	16° る 58'17	1°21'20	minimum elong	3836 Dec 17 09:15 3836 Dec 20 07:16	23 x·233/ 0°る	0 33 21
minimum elong	3836 Jan 08 00:13	16°る3817		max. Earth dist.	3836 Dec 20 07:10 3836 Dec 20 14:10	0°る27'07	1.45133 AU
max. Earth dist.	3836 Jan 07 18:26		1.45193 AU	evening rise	3837 Jan 02 21:53	0 3 2707 21° 3 13'48	1.43133 AC
max. Lartii tist.	3836 Jan 16 15:38	0°≈	1.43173710	evening rise	3837 Jan 08 13:48	0°≈	
evening rise	3836 Jan 23 22:45	11° ≈ 37'55		greatest brilliancy	3837 Jan 15 14:49	10°≈45'57	-0.7m
greatest brilliancy	3836 Jan 31 11:03	23° ≈ 40'51	-0.9m	evening max el	3837 Jan 27 15:32	26° ≈ 53'15	19°35'59
	3836 Feb 04 11:21	0°)			3837 Jan 31 09:46	0°) €	
evening max el	3836 Feb 14 08:24	13°) 22′21	18°49'14	asc. node	3837 Feb 01 01:46	0°) €21'52	
asc. node	3836 Feb 15 04:44	14°) 11'49		retrograde	3837 Feb 03 22:53	1° ∺ 06′21	
retrograde	3836 Feb 21 01:46	17°) €07'55			3837 Feb 07 07:39	30° R ≈	
evening set	3836 Feb 24 07:50	16°) €07'13		evening set	3837 Feb 07 12:20	29° ≈ 52′06	
inferior conj	3836 Feb 29 23:33	10° ¥ 26′03		inferior conj	3837 Feb 12 23:29	23° ≈ 55'35	
minimum elong	3836 Feb 29 22:17	10° 米 29'57		minimum elong	3837 Feb 12 21:21	24° ≈ 02'37	3°12'29
min. Earth dist.	3836 Mar 02 17:52	8° ★ 15'28	0.65452 AU	min. Earth dist.	3837 Feb 14 02:55	22°≈25'20	0.66687 AU
morning rise	3836 Mar 06 12:19	4°) 13'55		morning rise	3837 Feb 18 06:09	17°≈41'53	
direct	3836 Mar 13 02:46	1° ∺ 22'58 6° ∺ 22'07		direct	3837 Feb 24 09:13	14°≈58'11	25041116
desc. node morning max el	3836 Mar 23 07:51 3836 Mar 26 06:29	9° H 07'53	26051142	morning max el desc. node	3837 Mar 08 15:50 3837 Mar 10 04:52	22°≈16'57 23°≈53'35	25-41-16
morning max ci	3836 Apr 11 14:52	9 Λ 0733	20 31 42	desc. Hode	3837 Mar 15 10:24	0° ∺	
	3836 Apr 29 11:53	0°8			3837 Apr 04 21:38	0° Υ	
morning set	3836 May 01 02:20	3° 8 02'01		morning set	3837 Apr 13 21:20	15° Υ 38'42	
max. Earth dist.	3836 May 05 10:36		1.34244 AU	max. Earth dist.	3837 Apr 17 16:03	22° Y 42'03	1.35886 AU
	, ,	=	-		3837 Apr 21 10:18	0°8	-
superior conj	3836 May 09 14:55	20° 8 06'47	-0°36'14		•		
minimum elong	3836 May 09 16:49	20° 8 16'43	0°35'51	superior conj	3837 Apr 23 07:49	3° 8 46'41	-1°05'09
asc. node	3836 May 13 04:01	27° 8 33'43		minimum elong	3837 Apr 23 11:17	4° 8 04'04	1°04'33
	3836 May 14 07:44	$\Pi^{\circ}0$		asc. node	3837 Apr 30 01:04	17° 8 28'58	
evening rise	3836 May 17 01:58	5° Ⅱ 47'55		evening rise	3837 May 01 08:07	20° 8 07'40	
	3836 May 30 08:16	0 \circ \odot			3837 May 06 07:43	Π °0	
evening max el	3836 Jun 05 20:15	7°954'41	21°20'56	evening max el	3837 May 19 03:22	19° Ⅲ 05′22	20°03'15
retrograde	3836 Jun 17 22:10	13°950'51		retrograde	3837 May 29 12:48	24° ∏ 09'09	
desc. node	3836 Jun 19 07:07	13°5946'29		evening set	3837 May 31 11:53	23° II 59'07	
evening set	3836 Jun 20 06:29	13°938'13	2057107	desc. node	3837 Jun 06 04:07	21° Π 54'02	0050114
inferior conj	3836 Jun 29 15:41	9°539'05		inferior conj	3837 Jun 09 12:08	19° ∏ 59'23	
minimum elong min. Earth dist.	3836 Jun 29 07:56 3836 Jun 29 20:12	9° © 49'55 9° © 32'45	2°54'38 0.54844 AU	minimum elong min. Earth dist.	3837 Jun 09 09:22	20° Ⅲ 03'32 18° Ⅲ 52'38	0°58'13 0.55234 AU
min. Earth dist.	3836 Jul 29 20:12 3836 Jul 08 10:00	5°932'45	0.54044 AU	min. Earth dist.	3837 Jun 11 08:41 3837 Jun 18 05:10	18°Щ52′38 15°Щ38′57	0.55254 AU
direct	3836 Jul 11 19:36	5°917'56		direct	3837 Jun 22 07:58	15° Д 02'03	
morning max el	3836 Jul 24 09:24	11°9915'17	22°18'46	morning max el	3837 Jul 06 00:51	21° II 46'18	24°01'48
morning max or	3836 Aug 07 01:37	0°Ω	10 10	morning max or	3837 Jul 13 05:08	0°95	2. 71 10
						. =	

asc. node	3837 Jul 27 00:17	23° © 16'16		direct	3838 Jun 03 08:40	24° 8 50'22	
	3837 Jul 30 06:47	$0^{\circ}\Omega$			3838 Jun 15 04:40	$\Pi^{\circ}0$	
morning set	3837 Jul 30 13:32	0° Ω 35'33		morning max el	3838 Jun 17 15:11	2° Ⅱ 10′50	25°40'02
Č				C	3838 Jul 07 06:06	0° ©	
superior conj	3837 Aug 06 13:11	15° Ω 40'15	1°30'45	asc. node	3838 Jul 13 21:20	13° © 03'13	
minimum elong	3837 Aug 06 11:06	15° Ω 28'59	1°30'31	morning set	3838 Jul 15 01:02	15° © 28'35	
max. Earth dist.	3837 Aug 08 14:56	20° Ω 08′03	1.33160 AU				
	3837 Aug 13 08:09	0° ™		superior conj	3838 Jul 21 23:50	0° Ω 35′04	1°15'59
evening rise	3837 Aug 13 22:58	1° Mp 15'02		minimum elong	3838 Jul 21 21:29	0° £ 22′12	1°15'37
	3837 Aug 30 01:34	0० ⊽			3838 Jul 21 17:27	$0^{\circ}\Omega$	
desc. node	3837 Sep 02 03:26	4° £ 37'48		max. Earth dist.	3838 Jul 22 22:41	2°Ω40'22	1.32399 AU
evening max el	3837 Sep 16 13:26	22° £ 16'31	27°25'48	evening rise	3838 Jul 29 00:51	15° Ω 42'56	1.52577710
•	•		27 23 40	evening rise			
retrograde	3837 Sep 30 04:08	29° ≙ 33'41			3838 Aug 05 07:26	0° m	
evening set	3837 Oct 07 07:37	26° £ 55'35		desc. node	3838 Aug 20 00:26	23° Mp 32'31	
min. Earth dist.	3837 Oct 11 00:05	23° ≏ 40'49	0.63767 AU		3838 Aug 25 03:58	0∘ ಹ	
inferior conj	3837 Oct 13 13:29	21° ≏ 03'45	-3°00'46	evening max el	3838 Aug 29 21:18	4° £ 58'37	27°16'46
minimum elong	3837 Oct 13 18:29	20° ♀ 50'56	2°59'02	retrograde	3838 Sep 12 17:12	12° ₽ 13′03	
morning rise	3837 Oct 20 06:41	15° ≏ 44'22		evening set	3838 Sep 19 21:03	9° ≙ 50'13	
direct	3837 Oct 22 18:24	15° ⊆ 13'56		min. Earth dist.	3838 Sep 23 11:38	7° ≏ 01'48	0.61921 AU
					•		
asc. node	3837 Oct 22 23:30	15° ≙ 14'10		inferior conj	3838 Sep 26 12:00	4° ≙ 17'20	
morning max el	3837 Oct 29 07:37	18° ≏ 39'03	17°52'00	minimum elong	3838 Sep 26 17:54	4° ჲ 03'53	3°56'20
	3837 Nov 06 14:47	0° M			3838 Oct 02 01:26	30°R, Mp	
morning set	3837 Nov 14 23:51	14°M12'50		morning rise	3838 Oct 03 16:30	29° Mp 17'16	
Č	3837 Nov 24 06:46	0° ∡ ¹		direct	3838 Oct 06 01:20	28° m 53'08	
	2037 1101 21 00.10	• ••		asc. node	3838 Oct 09 20:32	29° m 57'30	
	2027 N 27 12 46	50 70001	0010155	asc. Houc			
superior conj	3837 Nov 27 12:46	5° ₹ 22'01	0°10'55		3838 Oct 09 22:17	0∘ ⊽	
minimum elong	3837 Nov 27 13:58	5° ≯ 26'53	0°10'46	morning max el	3838 Oct 12 23:11	2° ≏ 22'35	17°53'25
behind sun begin	3837 Nov 27 06:35	4° ₹ 56'40		morning set	3838 Oct 28 20:12	27° ≙ 14'50	
behind sun end	3837 Nov 27 21:20	5° ₹ 57'03			3838 Oct 30 08:43	0° M	
desc. node	3837 Nov 29 02:41	7° ∡ ¹56'37					
max. Earth dist.	3837 Dec 03 08:28	14° √ 46'04	1.44343 AU	superior conj	3838 Nov 08 14:23	16°M20'54	0°50'08
evening rise	3837 Dec 13 08:13	0°る23'44	1.44545 710	minimum elong	3838 Nov 08 18:21	16°M37'55	0°49'35
evening rise				_			0 49 33
	3837 Dec 13 02:03	0°る		desc. node	3838 Nov 15 23:43	28°M44'10	
	3838 Jan 02 07:32	0° ≈		max. Earth dist.	3838 Nov 15 22:27	28°M39'00	1.42932 AU
evening max el	3838 Jan 10 17:23	10° ≈ 25′02	20°37'13		3838 Nov 16 18:19	0° ∡ 7	
retrograde	3838 Jan 18 21:02	15° ≈ 13'33		evening rise	3838 Nov 22 21:25	9° ∡ ¹46'50	
asc. node	3838 Jan 18 22:47	15°≈13'31			3838 Dec 06 06:15	0°ಕ	
evening set	3838 Jan 22 19:19	13° ≈ 44'47		evening max el	3838 Dec 24 13:44	23°る58'08	21°49'42
•	3838 Jan 28 04:08	7°≈35'39	2°43'42	-	3839 Jan 02 18:15	29° පි 26'05	21 47 42
inferior conj				retrograde			
minimum elong	3838 Jan 28 01:39	7° ≈ 44'10	2°43'03	asc. node	3839 Jan 05 19:47	28° る 35'23	
min. Earth dist.	3838 Jan 28 18:13	6° ≈ 47'28	0.67503 AU	evening set	3839 Jan 07 03:02	27° る 41'52	
morning rise	3838 Feb 02 07:48	1° ≈ 22'07		inferior conj	3839 Jan 12 11:19	21° る 23'29	2°06'05
	3838 Feb 04 03:25	30°₽₹		minimum elong	3839 Jan 12 08:59	21° る 31'38	2°05'18
direct	3838 Feb 07 20:51	28° る 54'35		_			2-05/18
anov	3838 Feb 11 22:50			min Earth dist	3839 Jan 12 13:29		
		0°~~		min. Earth dist.	3839 Jan 12 13:29	21° ප 16'01	0.67923 AU
		0°≈	2401704	morning rise	3839 Jan 17 14:45	21° ප 16'01 15° ප 11'47	
morning max el	3838 Feb 19 00:26	5° ≈ 33'55	24°16'24	morning rise direct	3839 Jan 17 14:45 3839 Jan 22 13:01	21°පි16'01 15°පි11'47 13°පි05'24	0.67923 AU
desc. node		5°≈33'55 12°≈25'30	24°16'24	morning rise	3839 Jan 17 14:45	21° ට 16'01 15° ට 11'47 13° ට 55'24 18° ට 56'34	0.67923 AU
•	3838 Feb 19 00:26	5° ≈ 33'55	24°16'24	morning rise direct	3839 Jan 17 14:45 3839 Jan 22 13:01	21°පි16'01 15°පි11'47 13°පි05'24	0.67923 AU
•	3838 Feb 19 00:26 3838 Feb 25 01:53	5°≈33'55 12°≈25'30	24°16'24	morning rise direct	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16	21° ට 16'01 15° ට 11'47 13° ට 55'24 18° ට 56'34	0.67923 AU
desc. node	3838 Feb 19 00:26 3838 Feb 25 01:53 3838 Mar 09 21:37 3838 Mar 26 20:13	5°≈33'55 12°≈25'30 0°¥	24°16'24	morning rise direct morning max el	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16 3839 Feb 10 16:48 3839 Feb 11 22:56	21° उ 16'01 15° उ 11'47 13° उ 05'24 18° उ 56'34 0°æ 1°≈40'49	0.67923 AU
desc. node morning set	3838 Feb 19 00:26 3838 Feb 25 01:53 3838 Mar 09 21:37 3838 Mar 26 20:13 3838 Mar 28 10:14	5°≈33'55 12°≈25'30 0°₩ 27°₩13'31 0°Υ		morning rise direct morning max el desc. node	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16 3839 Feb 10 16:48 3839 Feb 11 22:56 3839 Mar 03 01:38	21°る16'01 15°る11'47 13°る05'24 18°る56'34 0°≈ 1°≈40'49 0°);	0.67923 AU
desc. node	3838 Feb 19 00:26 3838 Feb 25 01:53 3838 Mar 09 21:37 3838 Mar 26 20:13	5°≈33'55 12°≈25'30 0°₩ 27°₩13'31 0°Υ	24°16'24 1.37894 AU	morning rise direct morning max el desc. node morning set	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16 3839 Feb 10 16:48 3839 Feb 11 22:56 3839 Mar 03 01:38 3839 Mar 07 16:57	21°る16'01 15°る11'47 13°る05'24 18°る56'34 0°≈ 1°≈40'49 0°升 7°升31'21	0.67923 AU 22°47'17
desc. node morning set max. Earth dist.	3838 Feb 19 00:26 3838 Feb 25 01:53 3838 Mar 09 21:37 3838 Mar 26 20:13 3838 Mar 28 10:14 3838 Mar 30 12:55	5°≈33'55 12°≈25'30 0°₩ 27°₩13'31 0°Υ 3°Υ45'51	1.37894 AU	morning rise direct morning max el desc. node	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16 3839 Feb 10 16:48 3839 Feb 11 22:56 3839 Mar 03 01:38	21°る16'01 15°る11'47 13°る05'24 18°る56'34 0°≈ 1°≈40'49 0°);	0.67923 AU
desc. node morning set max. Earth dist. superior conj	3838 Feb 19 00:26 3838 Feb 25 01:53 3838 Mar 09 21:37 3838 Mar 26 20:13 3838 Mar 28 10:14 3838 Mar 30 12:55 3838 Apr 06 13:09	5°≈33'55 12°≈25'30 0°₩ 27°₩13'31 0°Ψ 3°Ψ45'51	1.37894 AU -1°32'06	morning rise direct morning max el desc. node morning set max. Earth dist.	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16 3839 Feb 10 16:48 3839 Feb 11 22:56 3839 Mar 03 01:38 3839 Mar 07 16:57 3839 Mar 12 08:11	21°る16'01 15°る11'47 13°る05'24 18°る56'34 0°≈ 1°≈40'49 0°升 7°升31'21 15°升18'46	0.67923 AU 22°47'17 1.40074 AU
desc. node morning set max. Earth dist.	3838 Feb 19 00:26 3838 Feb 25 01:53 3838 Mar 09 21:37 3838 Mar 26 20:13 3838 Mar 28 10:14 3838 Mar 30 12:55 3838 Apr 06 13:09 3838 Apr 06 17:43	5°≈33'55 12°≈25'30 0°₩ 27°₩13'31 0°Υ 3°Υ45'51	1.37894 AU -1°32'06	morning rise direct morning max el desc. node morning set	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16 3839 Feb 10 16:48 3839 Feb 11 22:56 3839 Mar 03 01:38 3839 Mar 07 16:57	21°る16'01 15°る11'47 13°る05'24 18°る56'34 0°≈ 1°≈40'49 0°升 7°升31'21	0.67923 AU 22°47'17 1.40074 AU
desc. node morning set max. Earth dist. superior conj	3838 Feb 19 00:26 3838 Feb 25 01:53 3838 Mar 09 21:37 3838 Mar 26 20:13 3838 Mar 28 10:14 3838 Mar 30 12:55 3838 Apr 06 13:09	5°≈33'55 12°≈25'30 0°₩ 27°₩13'31 0°Ψ 3°Ψ45'51	1.37894 AU -1°32'06	morning rise direct morning max el desc. node morning set max. Earth dist.	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16 3839 Feb 10 16:48 3839 Feb 11 22:56 3839 Mar 03 01:38 3839 Mar 07 16:57 3839 Mar 12 08:11	21°る16'01 15°る11'47 13°る05'24 18°る56'34 0°≈ 1°≈40'49 0°升 7°升31'21 15°升18'46	0.67923 AU 22°47'17 1.40074 AU -1°53'57
desc. node morning set max. Earth dist. superior conj	3838 Feb 19 00:26 3838 Feb 25 01:53 3838 Mar 09 21:37 3838 Mar 26 20:13 3838 Mar 28 10:14 3838 Mar 30 12:55 3838 Apr 06 13:09 3838 Apr 06 17:43	5°≈33'55 12°≈25'30 0°¥ 27°¥13'31 0°Y 3°Y45'51 16°Y48'37 17°Y10'33	1.37894 AU -1°32'06	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16 3839 Feb 10 16:48 3839 Feb 11 22:56 3839 Mar 03 01:38 3839 Mar 07 16:57 3839 Mar 12 08:11	21°る16'01 15°る11'47 13°る05'24 18°る56'34 0°≈ 1°≈40'49 0°米 7°米31'21 15°米18'46	0.67923 AU 22°47'17 1.40074 AU -1°53'57
desc. node morning set max. Earth dist. superior conj minimum elong evening rise	3838 Feb 19 00:26 3838 Feb 25 01:53 3838 Mar 09 21:37 3838 Mar 26 20:13 3838 Mar 28 10:14 3838 Mar 30 12:55 3838 Apr 06 13:09 3838 Apr 06 17:43 3838 Apr 13 06:47 3838 Apr 15 07:58	5°≈33'55 12°≈25'30 0°¥ 27°¥13'31 0°Y 3°Y45'51 16°Y48'37 17°Y10'33 0°8 4°8'03'33	1.37894 AU -1°32'06	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16 3839 Feb 10 16:48 3839 Feb 11 22:56 3839 Mar 03 01:38 3839 Mar 07 16:57 3839 Mar 12 08:11 3839 Mar 20 02:42 3839 Mar 20 07:05 3839 Mar 20 15:16	21°る16'01 15°る11'47 13°る05'24 18°る56'34 0°≈ 1°≈40'49 0°¥ 7°¥31'21 15°¥18'46 29°¥02'38 29°¥22'36 0°♥	0.67923 AU 22°47'17 1.40074 AU -1°53'57
desc. node morning set max. Earth dist. superior conj minimum elong	3838 Feb 19 00:26 3838 Feb 25 01:53 3838 Mar 09 21:37 3838 Mar 26 20:13 3838 Mar 28 10:14 3838 Mar 30 12:55 3838 Apr 06 13:09 3838 Apr 06 17:43 3838 Apr 13 06:47 3838 Apr 15 07:58 3838 Apr 16 22:06	5°≈33'55 12°≈25'30 0° ¥ 27° ¥ 13'31 0° Y 3° Y 45'51 16° Y 48'37 17° Y 10'33 0° 8 4° 803'33 7° 811'06	1.37894 AU -1°32'06	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16 3839 Feb 10 16:48 3839 Feb 11 22:56 3839 Mar 03 01:38 3839 Mar 07 16:57 3839 Mar 12 08:11 3839 Mar 20 02:42 3839 Mar 20 07:05 3839 Mar 20 15:16 3839 Mar 29 22:28	21°る16'01 15°る11'47 13°る05'24 18°る56'34 0°≈ 1°≈40'49 0°升 7°升31'21 15°升18'46 29°升22'36 0°Ŷ 17°Ŷ27'55	0.67923 AU 22°47'17 1.40074 AU -1°53'57
desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	3838 Feb 19 00:26 3838 Feb 25 01:53 3838 Mar 09 21:37 3838 Mar 26 20:13 3838 Mar 28 10:14 3838 Mar 30 12:55 3838 Apr 06 13:09 3838 Apr 06 17:43 3838 Apr 13 06:47 3838 Apr 15 07:58 3838 Apr 16 22:06 3838 Apr 30 23:58	5°≈33'55 12°≈25'30 0° ₩ 27° ₩ 13'31 0° Ψ 3° Ψ 45'51 16° Ψ 48'37 17° Ψ 10'33 0° ₩ 4° ₩ 03'33 7° ₩ 11'06 0° Щ	1.37894 AU -1°32'06 1°31'30	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16 3839 Feb 10 16:48 3839 Feb 11 22:56 3839 Mar 03 01:38 3839 Mar 07 16:57 3839 Mar 12 08:11 3839 Mar 20 02:42 3839 Mar 20 07:05 3839 Mar 20 15:16 3839 Mar 29 22:28 3839 Apr 03 19:07	21°♂16'01 15°♂11'47 13°♂05'24 18°♂56'34 0°≈ 1°≈40'49 0°¥ 7°¥31'21 15°¥18'46 29°¥02'38 29°¥22'36 0°° 17°°27'55 26°°34'54	0.67923 AU 22°47'17 1.40074 AU -1°53'57
desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	3838 Feb 19 00:26 3838 Feb 25 01:53 3838 Mar 09 21:37 3838 Mar 26 20:13 3838 Mar 28 10:14 3838 Mar 30 12:55 3838 Apr 06 13:09 3838 Apr 06 17:43 3838 Apr 13 06:47 3838 Apr 15 07:58 3838 Apr 16 22:06 3838 Apr 30 23:58 3838 May 01 22:19	5°≈33'55 12°≈25'30 0° ₩ 27° ₩ 13'31 0° Ψ 3° Ψ 45'51 16° Ψ 48'37 17° Ψ 10'33 0° ₩ 4° ₩ 03'33 7° ₩ 11'06 0° Ⅲ 0° Ⅲ 57'05	1.37894 AU -1°32'06	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16 3839 Feb 10 16:48 3839 Feb 11 22:56 3839 Mar 03 01:38 3839 Mar 07 16:57 3839 Mar 12 08:11 3839 Mar 20 02:42 3839 Mar 20 07:05 3839 Mar 20 15:16 3839 Mar 29 22:28 3839 Apr 03 19:07 3839 Apr 05 16:49	21°る16'01 15°る11'47 13°る05'24 18°る56'34 0°≈ 1°≈40'49 0°米 7°米31'21 15°米18'46 29°米02'38 29°米22'36 0°Y 17°Y27'55 26°Y34'54 0°8	0.67923 AU 22°47'17 1.40074 AU -1°53'57 1°53'37
desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde	3838 Feb 19 00:26 3838 Feb 25 01:53 3838 Mar 09 21:37 3838 Mar 26 20:13 3838 Mar 28 10:14 3838 Mar 30 12:55 3838 Apr 06 13:09 3838 Apr 06 17:43 3838 Apr 13 06:47 3838 Apr 15 07:58 3838 Apr 16 22:06 3838 Apr 30 23:58 3838 May 01 22:19 3838 May 10 16:25	5°≈33'55 12°≈25'30 0°ℋ 27°ℋ13'31 0°℉ 3°℉45'51 16°℉48'37 17°℉10'33 0°℧ 4°℧03'33 7°℧11'06 0°Ⅲ 0°爪57'05 5°爪13'08	1.37894 AU -1°32'06 1°31'30	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16 3839 Feb 10 16:48 3839 Feb 11 22:56 3839 Mar 03 01:38 3839 Mar 07 16:57 3839 Mar 12 08:11 3839 Mar 20 02:42 3839 Mar 20 07:05 3839 Mar 20 15:16 3839 Mar 20 15:16 3839 Mar 20 15:16 3839 Apr 03 19:07 3839 Apr 05 16:49 3839 Apr 15 02:34	21°る16'01 15°る11'47 13°る05'24 18°る56'34 0°≈ 1°≈40'49 0°¥ 7°¥31'21 15°¥18'46 29°¥02'38 29°¥22'36 0°Y 17°Y27'55 26°Y34'54 0°8 13°825'11	0.67923 AU 22°47'17 1.40074 AU -1°53'57
desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	3838 Feb 19 00:26 3838 Feb 25 01:53 3838 Mar 09 21:37 3838 Mar 26 20:13 3838 Mar 28 10:14 3838 Mar 30 12:55 3838 Apr 06 13:09 3838 Apr 06 17:43 3838 Apr 13 06:47 3838 Apr 15 07:58 3838 Apr 16 22:06 3838 Apr 30 23:58 3838 May 01 22:19	5°≈33'55 12°≈25'30 0° ₩ 27° ₩ 13'31 0° Ψ 3° Ψ 45'51 16° Ψ 48'37 17° Ψ 10'33 0° ₩ 4° ₩ 03'33 7° ₩ 11'06 0° Ⅲ 0° Ⅲ 57'05	1.37894 AU -1°32'06 1°31'30	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16 3839 Feb 10 16:48 3839 Feb 11 22:56 3839 Mar 03 01:38 3839 Mar 07 16:57 3839 Mar 12 08:11 3839 Mar 20 02:42 3839 Mar 20 07:05 3839 Mar 20 15:16 3839 Mar 29 22:28 3839 Apr 03 19:07 3839 Apr 05 16:49	21°る16'01 15°る11'47 13°る05'24 18°る56'34 0°≈ 1°≈40'49 0°米 7°米31'21 15°米18'46 29°米02'38 29°米22'36 0°Y 17°Y27'55 26°Y34'54 0°8	0.67923 AU 22°47'17 1.40074 AU -1°53'57 1°53'37
desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde	3838 Feb 19 00:26 3838 Feb 25 01:53 3838 Mar 09 21:37 3838 Mar 26 20:13 3838 Mar 28 10:14 3838 Mar 30 12:55 3838 Apr 06 13:09 3838 Apr 06 17:43 3838 Apr 13 06:47 3838 Apr 15 07:58 3838 Apr 16 22:06 3838 Apr 30 23:58 3838 May 01 22:19 3838 May 10 16:25	5°≈33'55 12°≈25'30 0°ℋ 27°ℋ13'31 0°℉ 3°℉45'51 16°℉48'37 17°℉10'33 0°℧ 4°℧03'33 7°℧11'06 0°Ⅲ 0°爪57'05 5°爪13'08	1.37894 AU -1°32'06 1°31'30	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16 3839 Feb 10 16:48 3839 Feb 11 22:56 3839 Mar 03 01:38 3839 Mar 07 16:57 3839 Mar 12 08:11 3839 Mar 20 02:42 3839 Mar 20 07:05 3839 Mar 20 15:16 3839 Mar 20 15:16 3839 Mar 20 15:16 3839 Apr 03 19:07 3839 Apr 05 16:49 3839 Apr 15 02:34	21°る16'01 15°る11'47 13°る05'24 18°る56'34 0°≈ 1°≈40'49 0°¥ 7°¥31'21 15°¥18'46 29°¥02'38 29°¥22'36 0°Y 17°Y27'55 26°Y34'54 0°8 13°825'11	0.67923 AU 22°47'17 1.40074 AU -1°53'57 1°53'37
desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj	3838 Feb 19 00:26 3838 Feb 25 01:53 3838 Mar 09 21:37 3838 Mar 26 20:13 3838 Mar 28 10:14 3838 Mar 30 12:55 3838 Apr 06 13:09 3838 Apr 06 17:43 3838 Apr 13 06:47 3838 Apr 15 07:58 3838 Apr 16 22:06 3838 Apr 30 23:58 3838 May 01 22:19 3838 May 10 16:25 3838 May 12 18:01 3838 May 20 23:57	5°≈33'55 12°≈25'30 0° ₩ 27° ₩ 13'31 0° Υ 3° Υ 45'51 16° Υ 48'37 17° Υ 10'33 0° ႘ 4° ႘ 03'33 7° ႘ 11'06 0° Щ 0° Щ 57'05 5° Щ 13'08 4° Ϗ 59'51	1.37894 AU -1°32'06 1°31'30 19°04'56 0°52'36	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16 3839 Feb 10 16:48 3839 Feb 11 22:56 3839 Mar 03 01:38 3839 Mar 07 16:57 3839 Mar 12 08:11 3839 Mar 20 02:42 3839 Mar 20 07:05 3839 Mar 20 15:16 3839 Mar 20 15:16 3839 Apr 03 19:07 3839 Apr 05 16:49 3839 Apr 15 02:34 3839 Apr 22 14:34 3839 Apr 24 22:42	21°る16'01 15°る11'47 13°る05'24 18°る56'34 0°≈ 1°≈40'49 0°升 7°升31'21 15°升18'46 29°升02'38 29°升22'36 0°Y 17°Y27'55 26°Y34'54 0°8 13°825'11 17°807'31 16°846'58	0.67923 AU 22°47'17 1.40074 AU -1°53'57 1°53'37
desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set	3838 Feb 19 00:26 3838 Feb 25 01:53 3838 Mar 09 21:37 3838 Mar 26 20:13 3838 Mar 28 10:14 3838 Mar 30 12:55 3838 Apr 06 13:09 3838 Apr 06 17:43 3838 Apr 13 06:47 3838 Apr 15 07:58 3838 Apr 16 22:06 3838 Apr 30 23:58 3838 May 01 22:19 3838 May 10 16:25 3838 May 12 18:01 3838 May 20 23:57 3838 May 21 02:00	5°≈33'55 12°≈25'30 0° ₩ 27° ₩ 13'31 0° Υ 3° Υ 45'51 16° Υ 48'37 17° Υ 10'33 0° ႘ 4° ႘ 03'33 7° ႘ 11'06 0° Щ 0° ∭ 57'05 5° ∭ 13'08 4° ∭ 59'51 0° ∭ 46'52 0° ∭ 43'19	1.37894 AU -1°32'06 1°31'30 19°04'56	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16 3839 Feb 10 16:48 3839 Feb 11 22:56 3839 Mar 03 01:38 3839 Mar 07 16:57 3839 Mar 12 08:11 3839 Mar 20 02:42 3839 Mar 20 07:05 3839 Mar 20 15:16 3839 Mar 20 15:16 3839 Apr 03 19:07 3839 Apr 05 16:49 3839 Apr 15 02:34 3839 Apr 22 14:34 3839 Apr 24 22:42 3839 May 02 08:59	21°る16'01 15°る11'47 13°る05'24 18°る56'34 0°≈ 1°≈40'49 0°升 7°升31'21 15°升18'46 29°升02'38 29°升22'36 0°쒸 17°Ŷ27'55 26°Ŷ34'54 0°엉 13°엉25'11 17°엉07'31 16°엉46'58 12°엉14'42	0.67923 AU 22°47'17 1.40074 AU -1°53'57 1°53'37 18°26'51 2°16'23
desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	3838 Feb 19 00:26 3838 Feb 25 01:53 3838 Mar 09 21:37 3838 Mar 26 20:13 3838 Mar 28 10:14 3838 Mar 30 12:55 3838 Apr 06 13:09 3838 Apr 06 17:43 3838 Apr 13 06:47 3838 Apr 15 07:58 3838 Apr 16 22:06 3838 Apr 30 23:58 3838 May 01 22:19 3838 May 10 16:25 3838 May 10 16:25 3838 May 20 23:57 3838 May 21 02:00 3838 May 22 03:02	5°≈33'55 12°≈25'30 0° ₩ 27° ₩ 13'31 0° Υ 3° Υ 45'51 16° Υ 48'37 17° Υ 10'33 0° ੴ 4° ੴ3'33 7° ੴ11'06 0° ∭ 0° ∭ 5° ∭ 13'08 4° ∭ 4° ∭ 59'51 0° ∭ 46'52 0° ∭ 43'19 30° ℝ 8	1.37894 AU -1°32'06 1°31'30 19°04'56 0°52'36 0°51'53	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16 3839 Feb 10 16:48 3839 Feb 11 22:56 3839 Mar 03 01:38 3839 Mar 07 16:57 3839 Mar 12 08:11 3839 Mar 20 02:42 3839 Mar 20 07:05 3839 Mar 20 15:16 3839 Mar 20 15:16 3839 Apr 03 19:07 3839 Apr 05 16:49 3839 Apr 05 16:49 3839 Apr 15 02:34 3839 Apr 22 14:34 3839 Apr 24 22:42 3839 May 02 08:59 3839 May 02 12:41	21°\overline{316'01} 15°\overline{311'47} 13°\overline{305'24} 18°\overline{356'34} 0°\overline{31'21} 15°\overline{31'21} 15°\overline{31'21} 15°\overline{31'21} 15°\overline{31'21} 15°\overline{31'21} 15°\overline{31'21} 29°\overline{32'36} 0°\overline{31'25'36} 0°\overline{31'25'36} 13°\overline{32'5'11} 17°\overline{30'7'31} 16°\overline{34'65'58} 12°\overline{31'4'42} 12°\overline{30'7'13}	0.67923 AU 22°47'17 1.40074 AU -1°53'57 1°53'37 18°26'51 2°16'23 2°15'22
desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	3838 Feb 19 00:26 3838 Feb 25 01:53 3838 Mar 09 21:37 3838 Mar 26 20:13 3838 Mar 28 10:14 3838 Mar 30 12:55 3838 Apr 06 13:09 3838 Apr 06 17:43 3838 Apr 13 06:47 3838 Apr 15 07:58 3838 Apr 16 22:06 3838 Apr 30 23:58 3838 May 01 22:19 3838 May 10 16:25 3838 May 10 16:25 3838 May 12 18:01 3838 May 20 23:57 3838 May 21 02:00 3838 May 22 03:02 3838 May 24 00:01	5°≈33'55 12°≈25'30 0° ₩ 27° ₩ 13'31 0° Ψ 3° Ψ 45'51 16° Ψ 48'37 17° Ψ 10'33 0° ₩ 4° ₩ 03'33 7° ₩ 11'06 0° Щ 0° Щ 57'05 5° Щ 13'08 4° Щ 59'51 0° Щ 46'52 0° Щ 43'19 30° № 28° ₩ 43'28	1.37894 AU -1°32'06 1°31'30 19°04'56 0°52'36	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16 3839 Feb 10 16:48 3839 Feb 11 22:56 3839 Mar 03 01:38 3839 Mar 07 16:57 3839 Mar 12 08:11 3839 Mar 20 02:42 3839 Mar 20 07:05 3839 Mar 20 15:16 3839 Mar 20 15:16 3839 Apr 03 19:07 3839 Apr 05 16:49 3839 Apr 05 16:49 3839 Apr 15 02:34 3839 Apr 22 14:34 3839 Apr 24 22:42 3839 May 02 08:59 3839 May 02 12:41 3839 May 05 19:30	21°♂16'01 15°♂11'47 13°♂05'24 18°♂56'34 0°≈ 1°≈40'49 0°₭ 7°₭31'21 15°₭18'46 29°₭02'38 29°₭22'36 0°Ŷ 17°Ŷ27'55 26°Ŷ34'54 0°℧ 13°♂25'11 17°♂07'31 16°♂46'58 12°♂14'42 12°♂07'13 9°♂29'41	0.67923 AU 22°47'17 1.40074 AU -1°53'57 1°53'37 18°26'51 2°16'23
desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	3838 Feb 19 00:26 3838 Feb 25 01:53 3838 Mar 09 21:37 3838 Mar 26 20:13 3838 Mar 28 10:14 3838 Mar 30 12:55 3838 Apr 06 13:09 3838 Apr 06 17:43 3838 Apr 13 06:47 3838 Apr 15 07:58 3838 Apr 16 22:06 3838 Apr 30 23:58 3838 May 01 22:19 3838 May 10 16:25 3838 May 10 16:25 3838 May 20 23:57 3838 May 21 02:00 3838 May 22 03:02	5°≈33'55 12°≈25'30 0° ₩ 27° ₩ 13'31 0° Υ 3° Υ 45'51 16° Υ 48'37 17° Υ 10'33 0° ੴ 4° ੴ3'33 7° ੴ11'06 0° ∭ 0° ∭ 5° ∭ 13'08 4° ∭ 4° ∭ 59'51 0° ∭ 46'52 0° ∭ 43'19 30° ℝ 8	1.37894 AU -1°32'06 1°31'30 19°04'56 0°52'36 0°51'53	morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	3839 Jan 17 14:45 3839 Jan 22 13:01 3839 Feb 01 10:16 3839 Feb 10 16:48 3839 Feb 11 22:56 3839 Mar 03 01:38 3839 Mar 07 16:57 3839 Mar 12 08:11 3839 Mar 20 02:42 3839 Mar 20 07:05 3839 Mar 20 15:16 3839 Mar 20 15:16 3839 Apr 03 19:07 3839 Apr 05 16:49 3839 Apr 05 16:49 3839 Apr 15 02:34 3839 Apr 22 14:34 3839 Apr 24 22:42 3839 May 02 08:59 3839 May 02 12:41	21°\overline{316'01} 15°\overline{311'47} 13°\overline{305'24} 18°\overline{356'34} 0°\overline{31'21} 15°\overline{31'21} 15°\overline{31'21} 15°\overline{31'21} 15°\overline{31'21} 15°\overline{31'21} 15°\overline{31'21} 29°\overline{32'36} 0°\overline{31'25'36} 0°\overline{31'25'36} 13°\overline{32'5'11} 17°\overline{30'7'31} 16°\overline{34'65'58} 12°\overline{31'4'42} 12°\overline{30'7'13}	0.67923 AU 22°47'17 1.40074 AU -1°53'57 1°53'37 18°26'51 2°16'23 2°15'22

direct morning max el	3839 May 16 00:01 3839 May 30 09:27	5° 8 12'15 12° 8 55'04	26°57'34	morning max el	3840 May 11 09:57 3840 May 16 14:11	24° Ƴ 17'20 0° ႘	27°42'28
_	3839 Jun 12 20:51	$\Pi^{\circ}0$			3840 Jun 05 03:36	Π °0	
morning set	3839 Jun 29 10:43	0°9514'08		morning set	3840 Jun 12 16:50	14° Ⅱ 46'44	
1	3839 Jun 29 08:01	0°99		asc. node	3840 Jun 16 15:27	23° II 07'23	1 22116 ATT
asc. node	3839 Jun 30 18:23	3° © 01'46		max. Earth dist.	3840 Jun 18 21:02	2/°Щ58′50	1.32116 AU
superior conj	3839 Jul 06 11:37	15° © 30'18	0°56'55	superior conj	3840 Jun 19 22:51	0° 5 20'27	0°34'10
minimum elong	3839 Jul 06 09:29	15° © 18'33	0°56'30	minimum elong	3840 Jun 19 21:22	0°512'22	0°33'51
max. Earth dist.	3839 Jul 06 09:54	15° © 20'50	1.32051 AU		3840 Jun 19 19:07	0ංම	
evening rise	3839 Jul 13 08:09	0° Ω 24'46		evening rise	3840 Jun 26 18:44	15° © 13'36	
	3839 Jul 13 03:28	$0^{\circ}\Omega$			3840 Jul 04 03:15	$0^{\circ}\Omega$	
	3839 Jul 29 11:11	0° m		evening max el	3840 Jul 23 17:53	28° Ω 06'32	25°21'43
desc. node	3839 Aug 06 21:27	11° Mp 30'17	26924126	desc. node	3840 Jul 23 18:28	28° Ω 07'55 0° ™	
evening max el retrograde	3839 Aug 11 23:14 3839 Aug 25 22:16	16° m 56'35 24° m 07'13	20 34 20	retrograde	3840 Jul 25 20:34 3840 Aug 06 17:12	5° Mp 11'50	
evening set	3839 Sep 01 15:58	24 m/07 13 22° m/12'51		evening set	3840 Aug 10 17:12 3840 Aug 12 11:40	3° Mp 54'51	
min. Earth dist.	3839 Sep 05 12:57	19° m 37'05	0.59877 AU	min. Earth dist.	3840 Aug 17 05:45		0.57846 AU
inferior conj	3839 Sep 08 19:19	17° mp 01'20		mm. Earth dist.	3840 Aug 19 01:01	30°RΩ	0.57010710
minimum elong	3839 Sep 09 00:20	16° m 51'18		inferior conj	3840 Aug 20 08:01	29° Ω 06'01	-5°08'54
morning rise	3839 Sep 16 10:48	12°m/23'10		minimum elong	3840 Aug 20 09:17	29° Ω 03'50	
direct	3839 Sep 18 19:54	12° m 02'31		morning rise	3840 Aug 28 09:13	24° Ω 50'33	
morning max el	3839 Sep 26 10:22	15°M/45'10	18°14'13	direct	3840 Aug 30 21:53	24° Ω 31′10	
asc. node	3839 Sep 26 17:35	16°Mp02'54		morning max el	3840 Sep 08 13:51	28° Ω 37'14	18°55'56
	3839 Oct 06 08:53	0∘ ⊽			3840 Sep 09 22:25	0° m	
morning set	3839 Oct 12 07:11	10° £ 58'14		asc. node	3840 Sep 12 14:39	3° Mp 15'23	
				morning set	3840 Sep 25 04:22	25° mp 10'45	
superior conj	3839 Oct 21 16:43	28° £ 31'30	1°18'19		3840 Sep 27 15:02	0∘ ত	
minimum elong	3839 Oct 21 20:38	28° £ 49'16	1°17'53		2040.0 . 02 14.21	110 0 20112	1025120
Earth diet	3839 Oct 22 12:17	0°M	1 41074 411	superior conj	3840 Oct 03 14:31	11° ≏ 39'13 11° ≏ 51'13	1°35'38 1°35'28
max. Earth dist. desc. node	3839 Oct 29 07:10 3839 Nov 02 20:45	11°M53'13 19°M29'49	1.41074 AU	minimum elong max. Earth dist.	3840 Oct 03 17:02 3840 Oct 10 12:18	24° £ 26'17	1.39000 AU
evening rise	3839 Nov 02 20.43 3839 Nov 03 03:47	19°M58'32		max. Earth dist.	3840 Oct 10 12:18 3840 Oct 13 16:13	0°M	1.39000 AU
evening rise	3839 Nov 09 11:05	0° √		evening rise	3840 Oct 14 09:23	1°ML13'53	
	3839 Nov 30 14:14	° ਨ ਹ		desc. node	3840 Oct 19 17:47	10°ML09'53	
evening max el	3839 Dec 07 05:36	7° る 34'07	23°08'43		3840 Nov 01 18:17	0° ∡ 7	
retrograde	3839 Dec 17 12:53	13° る 40'24		evening max el	3840 Nov 18 18:50	21° х 14′00	24°28'04
evening set	3839 Dec 22 09:54	11° る 40'06		retrograde	3840 Nov 30 03:43	27° ₹ 52'36	
asc. node	3839 Dec 23 16:49	10° る 27'11		evening set	3840 Dec 05 14:18	25° х 36′24	
inferior conj	3839 Dec 27 19:10	5° る 16'17	1°21'21	asc. node	3840 Dec 09 13:53	21° ∡ 10'47	
minimum elong	3839 Dec 27 17:25	5° පි 22'19	1°20'40	min. Earth dist.	3840 Dec 10 06:11	20° ∡ 16'58	0.67676 AU
min. Earth dist.	3839 Dec 27 10:17	5°₹46'52	0.67973 AU	inferior conj	3840 Dec 11 01:50	19° √ 11'17	0°30'33
	3840 Jan 01 01:38	30°₹ <i>≯</i> 7		minimum elong	3840 Dec 11 01:06	19° 🖈 13'45	0°30'15
morning rise direct	3840 Jan 02 00:49 3840 Jan 06 08:41	29° ₹ 08'20 27° ₹ 24'46		morning rise direct	3840 Dec 16 11:58	13° х 09'13 11° х 47'35	
direct	3840 Jan 12 07:27	27 x ·2446		morning max el	3840 Dec 20 06:36 3840 Dec 27 23:03	11 x ·4/33 16° x 10'11	20°09'06
morning max el	3840 Jan 15 00:53	0 ප 2° ප 27'41	21°22'50	morning max ci	3841 Jan 07 20:07	0°중	20 09 00
desc. node	3840 Jan 29 19:58	21° る 27'17	21 22 30	desc. node	3841 Jan 15 17:00	11° ට 35'51	
	3840 Feb 04 15:42	0° ≈		morning set	3841 Jan 24 06:08	24° る 38'14	
morning set	3840 Feb 15 08:58	16° ≈ 28'30			3841 Jan 27 17:02	0° ≈	
max. Earth dist.	3840 Feb 22 09:01	27° ≈ 45'44	1.42141 AU	max. Earth dist.	3841 Feb 03 18:01	11° ≈ 07′29	1.43818 AU
	3840 Feb 23 17:32	0° ∀					
				superior conj	3841 Feb 09 10:55	20° ≈ 22'11	-2°03'54
superior conj	3840 Feb 29 19:28	10° ∺ 17'19		minimum elong	3841 Feb 09 07:11	20° ≈ 06'48	2°03'46
minimum elong	3840 Feb 29 21:12	10°) 24'47	2°06'18		3841 Feb 15 05:49	0° ∺	
evening rise	3840 Mar 11 23:53	0° Υ 12'17		evening rise	3841 Feb 22 07:46	12° ₩ 06'53	
1	3840 Mar 11 21:10	0°Υ 15° Υ 24110		1	3841 Mar 04 21:23	0° Υ	
asc. node	3840 Mar 20 16:10 3840 Mar 28 12:42	15° Υ 34'18 26° Υ 20'52	18°08'42	asc. node	3841 Mar 07 13:13 3841 Mar 12 01:18	4° Υ 00'40 9° Υ 33'52	10000151
evening max el retrograde	3840 Mar 28 12:42 3840 Apr 04 06:27	26° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10 0044	evening max el retrograde	3841 Mar 12 01:18 3841 Mar 18 11:48	9° Y 33'52 12° Y 57'12	10 09 31
evening set	3840 Apr 06 21:05	29° Y $15'43$		evening set	3841 Mar 21 08:16	12° Y $15'44$	
inferior conj	3840 Apr 13 14:33	$24^{\circ}\Upsilon^{22'32}$	3°08'04	inferior conj	3841 Mar 27 12:54	7° Υ 02'24	3°32'42
minimum elong	3840 Apr 13 17:26	24°Υ15'46	3°07'34	minimum elong	3841 Mar 27 14:03	6°Υ59'20	3°32'37
min. Earth dist.	3840 Apr 16 21:13	21° Υ 19'51	0.60588 AU	min. Earth dist.	3841 Mar 30 07:22	4° Υ 06'26	0.62710 AU
morning rise	3840 Apr 20 11:39	18° Ƴ 32'14		morning rise	3841 Apr 02 18:36	0° Ƴ 58'57	
desc. node	3840 Apr 26 19:10	16° Ƴ 23'31			3841 Apr 04 05:28	30° ₹	
direct	3840 Apr 27 03:22	16° Ƴ 23'11		direct	3841 Apr 09 15:59	28° ∺ 23′21	

desc. node	3841 Apr 13 16:12	29° ∺ 10'07		morning rise	3842 Mar 16 17:48	13° ¥ 56′23	
	3841 Apr 15 12:33	$0^{\circ}\Upsilon$		direct	3842 Mar 23 12:31	11°) 07'09	
morning max el	3841 Apr 23 16:09	6° Y 21′28	27°49'59	desc. node	3842 Mar 31 13:14	14° ∺ 13'49	
	3841 May 11 14:45	9° 8		morning max el	3842 Apr 06 01:40	19° ∺ 00'47	27°21'42
morning set	3841 May 27 17:15	28° 8 59'24			3842 Apr 15 09:18	0°Υ	
	3841 May 28 05:13	0° Π			3842 May 04 13:58	0° 8	
max. Earth dist.	3841 Jun 02 04:10	10° Ⅲ 21'32	1.32595 AU	morning set	3842 May 11 09:16	12° 8 44'02	
asc. node	3841 Jun 03 12:30	13° Ⅱ 15′21		max. Earth dist.	3842 May 16 03:17	22° 8 17'04	1.33511 AU
superior conj	3841 Jun 04 07:43	14° Ⅱ 59'17	0°08'24	superior conj	3842 May 19 12:18	29° 8 20'55	-0°19'35
minimum elong	3841 Jun 04 07:19	14° Ⅱ 57′06	0°08'19	minimum elong	3842 May 19 13:18	29° 8 26'14	0°19'22
behind sun begin	3841 Jun 04 02:50	14° Ⅱ 32′50			3842 May 19 19:40	$\Pi^{\circ}0$	
behind sun end	3841 Jun 04 11:48	15° Ⅱ 21'23		asc. node	3842 May 21 09:33	3° Ⅱ 21'44	
evening rise	3841 Jun 11 06:35	0°9502'30		evening rise	3842 May 26 17:48	14° ∏ 45'14	
	3841 Jun 11 06:06	0° ©			3842 Jun 03 10:26	0°95	22212125
	3841 Jun 27 23:11	0° Ω 8° Ω 39'21	22940114	evening max el desc. node	3842 Jun 16 22:09	19°504'19	22°12'37
evening max el desc. node	3841 Jul 05 07:13 3841 Jul 10 15:29	12° Ω 54'42	23°49'14	retrograde	3842 Jun 27 12:30 3842 Jun 29 19:17	25°915'37 25°927'41	
retrograde	3841 Jul 10 13:29 3841 Jul 19 00:05	12 δι 34 42		evening set	3842 Jul	25°509'00	
evening set	3841 Jul 23 08:08	14° Ω 51'05		min. Earth dist.	3842 Jul 11 04:02	21°930'18	0.55051 AU
min. Earth dist.	3841 Jul 29 17:25	11° Ω 48'07	0.56124 AU	inferior conj	3842 Jul 11 23:55	21°902'17	
inferior conj	3841 Aug 01 00:25	10° Ω 24'49	-4°56'14	minimum elong	3842 Jul 11 15:29	21°5914'11	3°51'52
minimum elong	3841 Jul 31 19:43	10° Ω 31′59	4°55'41	morning rise	3842 Jul 20 15:55	17° © 11'37	
morning rise	3841 Aug 09 09:50	6° £ 28′13		direct	3842 Jul 23 18:29	16°950'02	
direct	3841 Aug 12 04:28	6° Ω 08'40		morning max el	3842 Aug 04 12:02	22° © 18'14	21°23'23
morning max el	3841 Aug 22 06:49	10° Ω 50′00	19°59'26		3842 Aug 11 02:03	0 $^{\circ}$ Ω	
asc. node	3841 Aug 30 11:43	21° Ω 20′35		asc. node	3842 Aug 17 08:46	10° Ω 05'51	
	3841 Sep 04 10:02	0° m)		morning set	3842 Aug 24 16:59	24° Ω 28'43	
morning set	3841 Sep 09 08:29	9° m 43'27			3842 Aug 27 08:19	0° Т р	
superior conj	3841 Sep 17 02:37	25° m 29'33	1°43'32	superior conj	3842 Sep 01 00:41	9° m 49'22	1°43'33
minimum elong	3841 Sep 17 03:25	25°M 33'36	1°43'31	minimum elong	3842 Sep 01 00:01	9° m 45'55	1°43'32
	3841 Sep 19 09:13	0∘ ⊽		max. Earth dist.	3842 Sep 05 04:33	18° m 19'02	1.35176 AU
max. Earth dist.	3841 Sep 22 17:46	6° ≏ 27'59	1.36961 AU	evening rise	3842 Sep 09 10:56	26° Mp 38'17	
evening rise	3841 Sep 26 13:07	13° △ 30'39			3842 Sep 11 05:55	0∘ ट	
	3841 Oct 06 04:48	0°M,		desc. node	3842 Sep 23 11:49	20° £ 54'37	
desc. node	3841 Oct 06 14:48	0° IL 40'10		avanina may al	3842 Sep 29 13:41	0°M	26°39'31
evening max el	3841 Oct 27 16:01 3841 Nov 01 07:10	0° ∡ 7 4° ∡7 56′21	25°40'47	evening max el retrograde	3842 Oct 14 19:32 3842 Oct 27 19:12	18°M35'13 25°M50'17	20-39-31
retrograde	3841 Nov 01 07:10 3841 Nov 13 14:02	11° ₹ 58'20	23 40 47	evening set	3842 Nov 03 08:39	23°M10'47	
evening set	3841 Nov 19 14:32	9°×728'13		min. Earth dist.	3842 Nov 07 10:03	19°ML02'04	0.66031 AU
min. Earth dist.	3841 Nov 23 22:53		0.67030 AU	inferior conj	3842 Nov 09 04:18	16°M56'34	
inferior conj	3841 Nov 25 05:33	3° ₹ 06'11	-0°25'11	minimum elong	3842 Nov 09 06:38	16°M49'38	1°23'39
minimum elong	3841 Nov 25 06:12	3° ₰ ¹04'06	0°24'55	asc. node	3842 Nov 13 07:57	12°M32'18	
asc. node	3841 Nov 26 10:55	1° х ³33′58		morning rise	3842 Nov 15 05:20	11°ML13'38	
	3841 Nov 27 18:54	30°RM		direct	3842 Nov 18 02:54	10°M26'44	
morning rise	3841 Nov 30 22:12	27°M12'23		morning max el	3842 Nov 24 17:19	14°M02'23	18°26'08
direct	3841 Dec 04 05:17	26°M09'58	10000111		3842 Dec 06 07:26	0° ⊀ ⁷	
morning max el	3841 Dec 11 05:07	0° ₹ 03'39	19°09'41	morning set	3842 Dec 14 12:38	13° ₹ 07'35	
	3841 Dec 11 03:39 3842 Jan 01 06:57	0°る		desc. node	3842 Dec 20 11:05 3842 Dec 25 03:01	22°♂36'41 0°る	
desc. node	3842 Jan 02 14:03	0 8 2° る 00'48			3842 Dec 23 03.01	0.0	
morning set	3842 Jan 03 08:47	2 ට0046 3°ට13'36		superior conj	3842 Dec 30 04:16	7° る 56'58	-1°03'08
max. Earth dist.	3842 Jan 17 09:24	25° පි 08'48	1.44896 AU	minimum elong	3842 Dec 29 20:33	7° る 26'43	
mun. Durun uibu	30.2001 17 03.21	20 000 10	1090110	max. Earth dist.	3842 Dec 31 03:50	9° ට 29'26	
superior conj	3842 Jan 20 01:53	29° る 23'30	-1°42'22		3843 Jan 13 05:26	0° ≈	
minimum elong	3842 Jan 19 17:07	28° る 48'49	1°41'37	evening rise	3843 Jan 15 05:13	3° ≈ 08'18	
	3842 Jan 20 11:06	0° ≈		greatest brilliancy	3843 Jan 25 05:10	18° ≈ 51'55	-0.8m
evening rise	3842 Feb 03 18:09	23° ≈ 05'50			3843 Feb 01 16:53	0° ℋ	
	3842 Feb 07 22:43	0° ∀		evening max el	3843 Feb 06 22:59	6° ∺ 26'31	19°07'07
asc. node	3842 Feb 22 10:14	21°) (44'12		asc. node	3843 Feb 09 07:15	8° ₩ 32'31	
evening max el	3842 Feb 23 13:31	22°\(\frac{1}{2}57'25	18°29'39	retrograde	3843 Feb 13 21:38	10°) €23'05	
retrograde	3842 Mar 02 02:08	26°) 31′52 25°) 38′30		evening set	3843 Feb 17 06:34	9° 升 16'54	2025106
evening set inferior conj	3842 Mar 05 04:26 3842 Mar 10 23:56	25° ↑ 38'30 20° ↑ 06'46	3°36'39	inferior conj minimum elong	3843 Feb 22 20:04 3843 Feb 22 18:22	3°) 28′52 3°) 34′18	3°25'06 3°24'53
minimum elong	3842 Mar 10 23:26	20° X 08'15	3°36'38	min. Earth dist.	3843 Feb 24 07:56	1°)(34'42	
min. Earth dist.	3842 Mar 13 03:08	17° X 36'06	0.64560 AU	mm. Darm dist.	3843 Feb 25 14:56	1 7(3442 30°R≈	0.00020 AU
		1. 7(3000			20.2.20 20 11.00	*	

	2042 F 1 20 05 40	27015121		. 1	2044 1 20 10 24	24025122	
morning rise	3843 Feb 28 05:48	27°≈15'31		retrograde	3844 Jan 28 19:24	24°≈25'32	
direct	3843 Mar 06 15:46	24°≈26′12		evening set	3844 Feb 01 12:20	23°≈05'26	
	3843 Mar 17 08:33	0° ∀		inferior conj	3844 Feb 06 22:17	17° ≈ 03′26	3°01'38
desc. node	3843 Mar 18 10:16	1° ∺ 00'08		minimum elong	3844 Feb 06 19:56	17° ≈ 11'19	3°01'08
morning max el	3843 Mar 19 11:37	2° 升 02'37	26°24'05	min. Earth dist.	3844 Feb 07 19:57	15° ≈ 50'45	0.67084 AU
	3843 Apr 09 12:48	0 ° $\mathbf{\Upsilon}$		morning rise	3844 Feb 12 03:19	10° ≈ 49'32	
morning set	3843 Apr 24 13:19	25° Y 50′08		direct	3844 Feb 18 00:43	8° ≈ 11'30	
	3843 Apr 26 17:54	$8^{\circ 0}$		morning max el	3844 Feb 29 20:23	15° ≈ 15'17	25°06'14
max. Earth dist.	3843 Apr 28 15:12	3° 8 40'16	1.34886 AU	desc. node	3844 Mar 04 07:18	18° ≈ 59'52	
					3844 Mar 12 23:10	0° ∀	
superior conj	3843 May 03 10:18	13° 8 18'53	-0°48'36		3844 Apr 01 10:04	$_{0}^{\circ}\Upsilon$	
minimum elong	3843 May 03 12:53	13° 8 32'09	0°48'06	morning set	3844 Apr 06 00:31	8° Y 02'51	
asc. node	3843 May 08 06:34	23° 8 22'34	0 10 00	max. Earth dist.	3844 Apr 09 15:56	14° Υ 41'38	1.36704 AU
evening rise	3843 May 11 02:26	29° 8 15'38		max. Earth dist.	5044 гърг 05 15.50	14 41 50	1.50704710
evening rise	3843 May 11 11:02	0°II		aumorior coni	2011 Apr. 15 22:16	26° Ƴ 44'18	1916/50
	•		20945142	superior conj	3844 Apr 15 22:46		
evening max el	3843 May 29 22:28	29° ∏ 54'10	20°45'42	minimum elong	3844 Apr 16 02:48		1°16'21
_	3843 May 30 00:52	0°©			3844 Apr 17 14:16	0°8	
retrograde	3843 Jun 10 08:12	5° © 28'40		evening rise	3844 Apr 24 06:14	13° 8 26'14	
evening set	3843 Jun 12 10:15	5° © 18'14		asc. node	3844 Apr 24 03:35	13° 8 12'53	
desc. node	3843 Jun 14 09:30	4° © 50'24			3844 May 03 00:41	Π $\circ 0$	
inferior conj	3843 Jun 21 17:24	1° 5 20'56	-2°08'33	evening max el	3844 May 11 10:58	11° Ⅲ 23'17	19°36'00
minimum elong	3843 Jun 21 11:25	1° 5 29'29	2°06'27	retrograde	3844 May 21 02:42	16° Ⅱ 04'49	
min. Earth dist.	3843 Jun 22 15:58	0°5548'42	0.54885 AU	evening set	3844 May 23 02:02	15° Ⅲ 53'57	
	3843 Jun 24 02:41	30° Ŗ Ⅱ		desc. node	3844 May 31 06:31	12° Ⅱ 10′05	
morning rise	3843 Jun 30 12:06	27° Ⅱ 16'13		inferior conj	3844 May 31 19:10	11° Ⅱ 50′10	-0°09'19
direct	3843 Jul 04 03:54	26° Ⅱ 47'23		minimum elong	3844 May 31 18:45	11° Ⅱ 50'49	0°09'10
	3843 Jul 13 11:06	0°9		transit middle	3844 May 31 18:45	11° I I50'49	0°09'10
morning max el	3843 Jul 17 07:16	3° © 06'28	23°02'12	transit begin	3844 May 31 15:32	11° I I55'53	0 07 10
asc. node		29° © 21'25	23 02 12	transit end	3844 May 31 21:58	11° II 45'44	
asc. Houe	3843 Aug 04 05:49				,		0.55604.411
	3843 Aug 04 13:44	0° N		min. Earth dist.	3844 Jun 03 05:38	10° Ⅱ 18'05	0.55684 AU
morning set	3843 Aug 09 03:59	9° Ω 21'16		morning rise	3844 Jun 09 08:54	7° Ⅱ 15'07	
		_		direct	3844 Jun 13 21:24	6° Ⅱ 29'23	
superior conj	3843 Aug 16 05:34	24° Ω 29'07	1°37'03	morning max el	3844 Jun 27 21:20	13° Ⅱ 30′53	24°45'00
minimum elong	3843 Aug 16 03:52	24° Ω 20′00	1°36'54		3844 Jul 10 17:43	0	
	3843 Aug 18 19:59	0° m p		asc. node	3844 Jul 21 02:51	18° © 58'34	
max. Earth dist.	3843 Aug 19 00:13	0° Mp 22′13	1.33777 AU	morning set	3844 Jul 23 15:45	24°©15'17	
evening rise	3843 Aug 23 22:34	10° Mp 25′48			3844 Jul 26 08:02	$0^{\circ}\Omega$	
	3843 Sep 03 14:53	0∘ ত					
desc. node	3843 Sep 10 08:50	10° ≏ 46'14		superior conj	3844 Jul 30 14:41	9° Ω 20'03	1°25'03
	3843 Sep 25 06:44	0°M		minimum elong	3844 Jul 30 12:26	9° Ω 07'46	1°24'45
evening max el	3843 Sep 27 07:48	2°M02'19	27°16'48	max. Earth dist.	3844 Aug 01 04:24	12° Ω 45'00	1.32791 AU
retrograde	3843 Oct 10 18:39	9°M20'43	27 1040	evening rise	3844 Aug 06 20:10	24°Ω41'36	1.52771710
•		6°M39'25		evening rise	Č		
evening set	3843 Oct 17 18:12		0.64606.411		3844 Aug 09 11:38	0° m	
min. Earth dist.	3843 Oct 21 13:30	3°M05'41	0.64686 AU	desc. node	3844 Aug 27 05:51	0° ჲ 05'08	
inferior conj	3843 Oct 23 19:51	0°M37'54			3844 Aug 27 04:25	0∘ ⊽	
minimum elong	3843 Oct 23 23:56	0°M26'45	2°24'18	evening max el	3844 Sep 08 18:11	15° ≏ 05'04	27°26'04
	3843 Oct 24 09:49	30° ₹ Ω		retrograde	3844 Sep 22 11:31	22° £ 20'51	
morning rise	3843 Oct 30 06:48	25° ≏ 08'47		evening set	3844 Sep 29 16:04	19° ≏ 48'05	
asc. node	3843 Oct 31 04:59	24° ≙ 48'14		min. Earth dist.	3844 Oct 03 07:17	16° ≙ 45'24	0.63011 AU
direct	3843 Nov 01 21:17	24° £ 33'26		inferior conj	3844 Oct 06 01:29	14° ഫ 03'52	-3°25'52
morning max el	3843 Nov 08 09:05	28° ₽ 00'18	17°59'23	minimum elong	3844 Oct 06 07:01	13° ≏ 50'22	3°24'07
	3843 Nov 10 04:41	0°M		morning rise	3844 Oct 12 23:25	8° £ 51'58	
morning set	3843 Nov 25 21:46	24°M28'11		direct	3844 Oct 15 09:33	8° £ 24'33	
3	3843 Nov 29 05:10	0° ∡ 7		asc. node	3844 Oct 17 02:02	8° ≏ 38'11	
desc. node	3843 Dec 07 08:06	13° х 19'40		morning max el	3844 Oct 22 01:32	11° ⊆ 50'42	17°50'17
desc. node	3043 DCC 07 00.00	13 × 13 40		morning max cr	3844 Nov 03 07:40	0°M	17 30 17
	2042 D 00 14.45	1.69.750120	0015126				
superior conj	3843 Dec 09 14:45	16° ₹ 59'28		morning set	3844 Nov 07 07:11	6°M59'04	
minimum elong	3843 Dec 09 12:51	16° ₹ 51'52	0°15'19		204437 12 12 1	0.00	0000:10
behind sun begin	3843 Dec 09 09:28	16° ∡ ³38'17		superior conj	3844 Nov 19 00:43	27°M12'08	0°28'49
behind sun end	3843 Dec 09 16:14	17° ₹ 05'26		minimum elong	3844 Nov 19 03:30	27°M23'46	0°28'25
max. Earth dist.	3843 Dec 13 22:42	23° ₹ 52'49	1.44878 AU		3844 Nov 20 17:06	0°⊀	
	3843 Dec 17 20:12	0°ප		desc. node	3844 Nov 23 05:08	4° ₰ 06'30	
evening rise	3843 Dec 25 21:09	12° る 28'18		max. Earth dist.	3844 Nov 25 15:32	8° ₹ 03'00	1.43809 AU
	3844 Jan 06 09:01	0° ≈		evening rise	3844 Dec 04 06:39	21° ₹ 39'02	
	3077 Juli 00 07.01						
greatest brilliancy	3844 Jan 09 04:29	4°≈11'00	-0.6m	-	3844 Dec 09 17:42	5°0	
	3844 Jan 09 04:29		-0.6m 20°00'29	-	3844 Dec 09 17:42 3844 Dec 30 23:50	ರ°0 š0	
greatest brilliancy evening max el asc. node		4° ≈ 11'00		evening max el			21°07'02

, 1	2045 1 11 17 15	0025147			2045 D 16 21 52	170705112	22022154
retrograde	3845 Jan 11 17:15	8°≈35'47		evening max el	3845 Dec 16 21:53	17° る 05'13	22°22'54
asc. node	3845 Jan 13 01:16	8°≈26′03		retrograde	3845 Dec 26 13:29	22° る 49'35	
evening set	3845 Jan 15 19:52	7° ≈ 00'32		asc. node	3845 Dec 30 22:20	21° ろ 08'32	
inferior conj	3845 Jan 21 04:16	0° ≈ 47'19	2°28'43	evening set	3845 Dec 31 03:25	20° る 58'19	
minimum elong	3845 Jan 21 01:47	0° ≈ 55'53	2°27'59	inferior conj	3846 Jan 05 11:56	14° る 37'09	1°47'55
min. Earth dist.	3845 Jan 21 13:09	0° ≈ 16'40	0.67729 AU	minimum elong	3846 Jan 05 09:47	14° る 44'35	1°47'09
	3845 Jan 21 17:59	30°Ŗる		min. Earth dist.	3846 Jan 05 09:14	14° පි 46'31	0.67987 AU
morning rise	3845 Jan 26 07:31	24° る 34'34		morning rise	3846 Jan 10 16:03	8° る 27'05	
direct	3845 Jan 31 14:26	22° る 15'28		direct	3846 Jan 15 08:04	6° る 30'33	
morning max el	3845 Feb 11 04:58	28° る 34'16	23°38'31	morning max el	3846 Jan 24 16:29	12° ろ 00'15	22°10'30
	3845 Feb 12 13:52	0°≈	20 0001	desc. node	3846 Feb 06 01:22	27° る 21'47	22 1000
desc. node	3845 Feb 19 04:20	7°≈52'14		dese. Hode	3846 Feb 07 22:24	27 ⊙ 21 47	
uese. Houe		0°) €		mamina aat		0 ∞ 28°≈49'11	
	3845 Mar 06 17:10			morning set	3846 Feb 26 21:20		
morning set	3845 Mar 18 13:00	19°) €06'52			3846 Feb 27 14:49	0° ∀	
max. Earth dist.	3845 Mar 22 11:21	25° ¥ 55′03	1.38823 AU	max. Earth dist.	3846 Mar 04 08:57	7° ¥ 51'36	1.40985 AU
	3845 Mar 24 18:25	0° Y					
				superior conj	3846 Mar 12 03:21	21° ∺ 18′09	-2°00'40
superior conj	3845 Mar 29 22:02	9° Ƴ 28'07		minimum elong	3846 Mar 12 06:59	21°) 34′18	2°00'28
minimum elong	3845 Mar 30 02:45	9° Ƴ 50'16	1°41'42		3846 Mar 16 22:40	0° Y	
evening rise	3845 Apr 08 02:34	27° Ƴ 10′19		evening rise	3846 Mar 22 12:00	10° Ƴ 19′02	
	3845 Apr 09 13:34	0° ႘		asc. node	3846 Mar 28 21:39	22° Y '02'44	
asc. node	3845 Apr 11 00:37	2° 8 48'14			3846 Apr 02 18:05	0° ႘	
evening max el	3845 Apr 24 10:19	23° 8 31'56	18°46'11	evening max el	3846 Apr 07 17:25	6° 8 12'37	18°16'39
-	1	27° 8 31'23	10 4011	•	-	9° 8 46'04	10 10 37
retrograde	3845 May 02 13:57			retrograde	3846 Apr 14 20:21	_	
evening set	3845 May 04 18:23	27° 8 15'16		evening set	3846 Apr 17 07:15	9° 8 21'37	
inferior conj	3845 May 12 15:45	22° 8 54'11	1°32'07	inferior conj	3846 Apr 24 09:54	4° 8 40'06	2°42'01
minimum elong	3845 May 12 18:54	22° 8 48'22	1°31'06	minimum elong	3846 Apr 24 13:27	_	2°41'11
min. Earth dist.	3845 May 15 22:13	20° 8 30'55	0.57272 AU	min. Earth dist.	3846 Apr 27 20:00	1° 8 44'37	0.59324 AU
desc. node	3845 May 18 03:32	19° 8 03'30			3846 Apr 30 03:25	30° ŖƳ	
morning rise	3845 May 20 16:14	17° 8 43'54		morning rise	3846 May 01 16:57	29° Y ′01'04	
direct	3845 May 26 04:21	16° 8 29'57		desc. node	3846 May 05 00:33	27° Y '36'37	
morning max el	3845 Jun 09 12:42	24° 8 00'20	26°16'18	direct	3846 May 08 00:44	27° Ƴ 11'53	
Č	3845 Jun 14 23:25	$\Pi^{\circ}0$			3846 May 16 07:14	0°႘	
	3845 Jul 03 15:50	0°5		morning max el	3846 May 22 09:47	5° 8 00'26	27°21'10
asc. node	3845 Jul 07 23:54	8° 9 51'03		morning max or	3846 Jun 09 21:00	0°Ⅱ	27 21 10
morning set	3845 Jul 08 02:42	9° 5 05'49		morning set	3846 Jun 22 11:10	23° II 47'30	
morning set	3843 Jul 08 02.42	9 2003 49		C			
				asc. node	3846 Jun 24 20:58	28° Ⅱ 53'39	
superior conj	3845 Jul 15 02:03	24° © 15'36	1°08'22		3846 Jun 25 09:17	0∘ ௐ	
minimum elong	3845 Jul 14 23:44	24° © 02'52		max. Earth dist.	3846 Jun 29 02:08	8° © 05'23	1.32031 AU
max. Earth dist.	3845 Jul 15 14:16	25° © 22'55	1.32212 AU				
	3845 Jul 17 16:47	$0 {\circ} \mathcal{N}$		superior conj	3846 Jun 29 13:51	9° 5 09'57	0°47'40
evening rise	3845 Jul 22 00:41	9° Ω 16′29		minimum elong	3846 Jun 29 11:56	8° © 59'26	0°47'18
	3845 Aug 01 19:50	0° m y		evening rise	3846 Jul 06 09:41	24° © 02'42	
desc. node	3845 Aug 14 02:52	18° m 37'47			3846 Jul 09 06:26	$0^{\circ}\Omega$	
evening max el	3845 Aug 21 23:58	27° m/29'42	27°02'44		3846 Jul 26 23:46	0° m)	
<i>5</i>	3845 Aug 24 20:56	0∘ <u>⊽</u>		desc. node	3846 Jul 31 23:53	6° m) 05'23	
retrograde	3845 Sep 04 21:00	ა _ 4° ჲ 41'38		evening max el	3846 Aug 03 22:42	9° Mp 07'11	26°06'37
evening set	3845 Sep 11 22:10	2° £ 29'34		retrograde	3846 Aug 17 22:04	16° Mp 16'11	20 0037
evening set	•			•	_	~	
i matri	3845 Sep 15 08:41	30°₹ ™	0.61060.411	evening set	3846 Aug 24 07:46	14° Mp 36'42	0.50007.441
min. Earth dist.	3845 Sep 15 14:14	29° Mp 48'36		min. Earth dist.	3846 Aug 28 11:21	12° m) 01'22	0.58997 AU
inferior conj	3845 Sep 18 17:58	27° m 05'55		inferior conj	3846 Aug 31 17:47	9° m 34'54	
minimum elong	3845 Sep 18 23:47	26° Mp 53'23	4°18'12	minimum elong	3846 Aug 31 21:36	9° ™ 27'44	4°57'53
morning rise	3845 Sep 26 03:13	22° Mp 14'49		morning rise	3846 Sep 08 13:38	5° Mg 06′52	
direct	3845 Sep 28 11:56	21°Mp52'19		direct	3846 Sep 10 23:56	4° Mp 46′59	
asc. node	3845 Oct 03 23:06	23° m 58'00		morning max el	3846 Sep 19 00:01	8° m 37'50	18°29'24
morning max el	3845 Oct 05 15:35	25° m 25'58	17°59'51	asc. node	3846 Sep 20 20:10	10° m/34'32	
•	3845 Oct 09 11:46	0∘ ⊽			3846 Oct 02 20:18	0∘ <mark>ಹ</mark>	
morning set	3845 Oct 21 10:24	20° £ 20'30		morning set	3846 Oct 05 02:13	4° £ 18'05	
	3845 Oct 26 16:33	0°M			20.2000 00 02.10	1003	
	30.13 300 20 10.33	O IIO		superior conj	3846 Oct 14 00:47	21° ≏ 20'44	1°26'54
gunorior c	2045 Oct 21 12 22	00m 40150	1902120				
superior conj	3845 Oct 31 13:23	8°M42'53	1°03'29	minimum elong	3846 Oct 14 04:11	21° Ω 36'33	1°26'35
minimum elong	3845 Oct 31 17:35	9°M01'21	1°02'57		3846 Oct 18 19:03	0°M	4.400
max. Earth dist.	3845 Nov 08 03:53	21°M42'46	1.42181 AU	max. Earth dist.	3846 Oct 21 10:47	4° ጤ 39'47	1.40199 AU
desc. node	3845 Nov 10 02:10	24°M53'29		evening rise	3846 Oct 25 17:52	11° M 57'40	
	3845 Nov 13 05:56	0°⊀		desc. node	3846 Oct 27 23:12	15°M37'32	
evening rise	3845 Nov 14 01:49	1° √ 19'17			3846 Nov 06 03:10	0° ∡ 7	
	3845 Dec 03 05:58	ರ°0			3846 Nov 28 19:34	ರ∘ರ	

evening max el	3846 Nov 29 12:11	0° る 42'08	23°42'46	retrograde	3847 Nov 23 19:54	21° ₹ 13'41	
retrograde	3846 Dec 10 06:44	7° る 03'42	25 .2 .0	evening set	3847 Nov 29 12:16	18° × 751'19	
evening set	3846 Dec 15 09:26	4° ප 56'18		min. Earth dist.	3847 Dec 04 00:52	13° х 46′21	0.67439 AU
asc. node	3846 Dec 17 19:23	2°る27'09		asc. node	3847 Dec 04 16:26	12° ₹ 55'19	
	3846 Dec 19 17:21	30°R. ✓		inferior conj	3847 Dec 05 01:07	12° ∡ ¹26'42	0°07'26
min. Earth dist.	3846 Dec 20 05:56	29° √ 17'21	0.67886 AU	minimum elong	3847 Dec 05 00:56	12° ≯ 27'18	0°07'21
inferior conj	3846 Dec 20 19:29	28° ₹ 31'08	1°00'29	transit middle	3847 Dec 05 00:56	12° ₹ 27'18	0°07'21
minimum elong	3846 Dec 20 18:07	28° ₹ 35'49	0°59'55	transit begin	3847 Dec 04 22:28	12° ∡ ³35'25	
morning rise	3846 Dec 26 02:48	22° ∡ ¹25'28		transit end	3847 Dec 05 03:24	12° ₹ 19'12	
direct	3846 Dec 30 04:43	20° ∡ 751'43		morning rise	3847 Dec 10 13:47	6° ∡ 27'37	
morning max el	3847 Jan 07 10:15	25° ∡ ³36'33	20°49'54	direct	3847 Dec 14 03:11	5° ≯ 14'38	
	3847 Jan 11 08:23	ರ∘ರ		morning max el	3847 Dec 21 11:49	9° ∡ ¹23'58	19°41'52
desc. node	3847 Jan 23 22:25	17° る 18'24		greatest brilliancy	3848 Jan 03 15:23	26° х 45′33	-0.7m
	3847 Feb 01 09:21	0° ≈			3848 Jan 05 19:30	ರ°0	
morning set	3847 Feb 06 03:04	7° ≈ 19'06		desc. node	3848 Jan 10 19:28	7° る 34'42	
max. Earth dist.	3847 Feb 14 12:56	20° ≈ 41'43	1.42909 AU	morning set	3848 Jan 15 23:13	15° る 29'58	
	3847 Feb 20 04:22	0° ℋ			3848 Jan 25 06:30	0° ≈	
				max. Earth dist.	3848 Jan 28 00:18	4° ≈ 20′06	1.44351 AU
superior conj	3847 Feb 21 09:38	2°) €03'05					
minimum elong	3847 Feb 21 09:19	2°) €01'44	2°07'26	superior conj	3848 Feb 01 14:03	11° ≈ 39′03	-1°57'13
evening rise	3847 Mar 05 06:29	22°) 43′10		minimum elong	3848 Feb 01 07:45	11° ≈ 13'40	1°56'51
	3847 Mar 09 08:51	0 ° $\mathbf{\Upsilon}$			3848 Feb 12 17:18	0° ∀	
asc. node	3847 Mar 15 18:42	10° Ƴ 49'19		evening rise	3848 Feb 15 05:36	4° ∺ 14'26	
evening max el	3847 Mar 22 04:55	19° Ƴ 16′25	18°06'54	asc. node	3848 Mar 01 15:43	28°) 59'14	
retrograde	3847 Mar 28 18:33	22° Y 39'25			3848 Mar 02 10:44	$0^{\circ}\mathbf{\Upsilon}$	
evening set	3847 Mar 31 11:35	22° Y 04'38		evening max el	3848 Mar 04 17:43	2° Y 35'12	18°16'11
inferior conj	3847 Apr 06 23:07	17° Y 02'53	3°21'26	retrograde	3848 Mar 11 04:06	6° Y 01'41	
minimum elong	3847 Apr 07 01:18	16° Y 57′27	3°21'08	evening set	3848 Mar 14 02:59	5° Y 15'18	
min. Earth dist.	3847 Apr 10 01:19	14° Y 00'01	0.61504 AU	inferior conj	3848 Mar 20 03:20	29° ¥ 54'16	
morning rise	3847 Apr 13 13:14	11° Υ 05'42		minimum elong	3848 Mar 20 03:44		3°36'31
direct	3847 Apr 20 08:24	8° Ƴ 43'48			3848 Mar 20 01:16	30° ₹	
desc. node	3847 Apr 21 21:36	8° Y 50'45		min. Earth dist.	3848 Mar 22 15:37	27°) €06'55	0.63533 AU
morning max el	3847 May 04 13:04	16° Y 41'37	27°50'20	morning rise	3848 Mar 26 03:32	23°) (47'23	
	3847 May 15 12:36	0° 8		direct	3848 Apr 02 00:51	21°) (03'53	
	3847 Jun 02 12:07	0°II		desc. node	3848 Apr 07 18:37	22°) (39'59	25042102
morning set	3847 Jun 06 15:10	8° Ⅱ 13'09		morning max el	3848 Apr 15 20:51	29° 米 01'45 0° Ƴ	27°42'03
asc. node	3847 Jun 11 17:59	19° Ⅱ 01'03	1 22262 ATT		3848 Apr 16 19:36		
max. Earth dist.	3847 Jun 12 11:58	20° Ⅱ 38'27	1.32262 AU		3848 May 08 09:30	0° と 22° と 15'29	
gunariar agni	3847 Jun 14 00:18	23° II 56'29	0022125	morning set	3848 May 20 12:22 3848 May 24 07:28	0° Ⅱ	
superior conj minimum elong	3847 Jun 14 00:18 3847 Jun 13 23:14	23° II 50'40		max. Earth dist.	3848 May 25 15:57		1.32924 AU
minimum clong	3847 Jun 16 18:39	0°9	0 23 21	max. Earth dist.	3646 Way 23 13.37	2 1130 19	1.32924 AU
evening rise	3847 Jun 20 21:01	8° 9 52'33		superior conj	3848 May 28 07:37	8° Ⅱ 29'28	-0°03'15
evening rise	3847 Jul	0°Ω		minimum elong	3848 May 28 07:46	8° П 30'19	
evening max el	3847 Jul 16 14:22		24°43'55	behind sun begin	3848 May 28 02:33	8° П 02'16	0 03 13
desc. node	3847 Jul 18 20:54	22° Ω 00'40	21 1333	behind sun end	3848 May 28 13:00	8° I 58'24	
retrograde	3847 Jul 30 12:34	27° Ω 01'22		asc. node	3848 May 28 15:02	9° ∏ 09'20	
evening set	3847 Aug 04 17:11	26° Ω 00′29		evening rise	3848 Jun 04 08:49	23° Ⅲ 39'59	
min. Earth dist.	3847 Aug 10 01:42		0.57053 AU	3	3848 Jun 07 09:57	0ಂತಾ	
inferior conj	3847 Aug 12 21:52	21° Ω 20'54			3848 Jun 26 17:15	$0^{\circ}\Omega$	
minimum elong	3847 Aug 12 20:43	21° Ω 22'48	5°09'01	evening max el	3848 Jun 27 03:34	0° Ω 25'21	23°07'49
morning rise	3847 Aug 21 02:47	17° Ω 14'31		desc. node	3848 Jul 04 17:53	5° Ω 50'06	
direct	3847 Aug 23 17:30	16° Ω 55'24		retrograde	3848 Jul 10 14:13	7° Ω 07'56	
morning max el	3847 Sep 01 23:27	21° Ω 15'10	19°20'15	evening set	3848 Jul 14 06:25	6° Ω 38'25	
asc. node	3847 Sep 07 17:14	28° Ω 11'31		min. Earth dist.	3848 Jul 21 12:50	3° Ω 21'45	0.55576 AU
	3847 Sep 08 22:00	o° mp		inferior conj	3848 Jul 23 06:19	2° Ω 21'19	-4°36'11
morning set	3847 Sep 19 02:41	18° m 40'15		minimum elong	3848 Jul 22 23:24	2° Ω 31′26	
-	3847 Sep 24 18:37	0∘ ⊽		-	3848 Jul 27 13:55	30° ₹ 5	
	-			morning rise	3848 Jul 31 18:43	28°528'53	
superior conj	3847 Sep 27 05:16	4° ≏ 48'38	1°40'02	direct	3848 Aug 03 16:24	28° © 08'43	
minimum elong	3847 Sep 27 07:03		1°39'56		3848 Aug 10 06:18	$0^{\circ}\Omega$	
max. Earth dist.	3847 Oct 03 14:51	16° ≏ 55'14	1.38114 AU	morning max el	3848 Aug 14 11:22	3° Ω 09′22	20°32'40
evening rise	3847 Oct 07 09:18	23° ≏ 40'32		asc. node	3848 Aug 24 14:16	16° Ω 35'16	
	3847 Oct 11 01:34	0°M₊			3848 Aug 31 17:47	0° m	
desc. node	3847 Oct 14 20:14	6°M14'11		morning set	3848 Sep 02 08:55	3°M 19'02	
	3847 Oct 30 21:30	0° ∡ ″					
evening max el	3847 Nov 12 00:44	14° ≯ 23'11	25°00'15	superior conj	3848 Sep 09 22:02	18° ™ 52'44	1°44'25

minimum elong	3848 Sep 09 22:10	18° m 53'25	1°44'24	minimum elong	3849 Aug 24 22:11	3° m) 16'09	1°41'28
max. Earth dist.	3848 Sep 14 21:58	28° mp 49'18	1.36171 AU	max. Earth dist.	3849 Aug 28 12:46	10° mp 45'50	1.34539 AU
	3848 Sep 15 12:36	0∘ ⊽		evening rise	3849 Sep 02 01:32	19° m) 47'08	
evening rise	3848 Sep 18 21:19	6° £ 20'45		8 11	3849 Sep 07 13:03	0∘ ⊽	
desc. node	3848 Sep 30 17:16	26° £ 38'34		desc. node	3849 Sep 17 14:15	16° ≏ 44'44	
	3848 Oct 02 20:42	0°M			3849 Sep 26 21:05	0°M₊	
evening max el	3848 Oct 24 13:15	28°M05'41	26°07'59	evening max el	3849 Oct 07 01:53	11°ML42'02	26°58'23
Č	3848 Oct 26 14:54	0° ₹		retrograde	3849 Oct 20 06:37	18°ML58'34	
retrograde	3848 Nov 06 04:01	5° ∡ 14'04		evening set	3849 Oct 27 00:56	16°ML17'21	
evening set	3848 Nov 12 10:08	2° х 39′36		min. Earth dist.	3849 Oct 30 23:42	12°M23'48	0.65508 AU
8	3848 Nov 15 02:24	30°RM		inferior conj	3849 Nov 01 23:00	10°ML08'16	
min. Earth dist.	3848 Nov 16 15:35	28°M10'02	0.66649 AU	minimum elong	3849 Nov 02 02:05	9°M59'24	1°49'15
inferior conj	3848 Nov 18 02:59	26°M20'21	-0°50'04	asc. node	3849 Nov 07 10:29	4°M55'22	
minimum elong	3848 Nov 18 04:19	26°M16'12		morning rise	3849 Nov 08 04:05	4°MJ30'48	
asc. node	3848 Nov 20 13:28	23°M26'52		direct	3849 Nov 10 22:27	3°M49'08	
morning rise	3848 Nov 23 22:58	20°M30'32		morning max el	3849 Nov 17 10:44	7°ML19'37	18°12'40
direct	3848 Nov 27 01:46	19°M35'04			3849 Dec 03 00:22	0° ∡ ¹	
morning max el	3848 Dec 03 20:39	23°M19'50	18°49'02	morning set	3849 Dec 06 03:47	5° ∡ 108'07	
	3848 Dec 09 08:24	0° ∡ ¹		desc. node	3849 Dec 14 13:33	18° ∡ ¹44'45	
morning set	3848 Dec 25 11:03	24° х 34'50					
desc. node	3848 Dec 27 16:30	28° ∡ 04'50		superior conj	3849 Dec 21 00:43	29° ∡ *01'19	-0°43'14
	3848 Dec 28 21:50	0°ಕ		minimum elong	3849 Dec 20 19:15	28° х 39'48	0°42'30
max. Earth dist.	3849 Jan 09 17:26		1.45142 AU	8	3849 Dec 21 15:36	0°ਰ	
				max. Earth dist.	3849 Dec 23 13:06	2°₹59'03	1.45191 AU
superior conj	3849 Jan 10 21:24	20° る 22'04	-1°27'29	evening rise	3850 Jan 06 07:59	24° ට 30'53	
minimum elong	3849 Jan 10 12:11	19° ප් 45'51		8 11	3850 Jan 09 20:34	0° ≈	
	3849 Jan 16 23:51	0° ≈		greatest brilliancy	3850 Jan 18 08:55	13° ≈ 07'30	-0.7m
evening rise	3849 Jan 26 05:54	14° ≈ 48'10		evening max el	3850 Jan 30 12:49	29° ≈ 32'16	19°27'56
8	3849 Feb 04 16:29	0°) €		<i>&</i>	3850 Jan 30 23:51	0°) €	
evening max el	3849 Feb 16 05:03	16°) €01'42	18°43'36	asc. node	3850 Feb 03 09:45	2°) (41'41	
asc. node	3849 Feb 16 12:45	16° ¥ 20'55		retrograde	3850 Feb 06 17:42	3°) (40′52	
retrograde	3849 Feb 22 20:52	19°) 43′56		evening set	3850 Feb 10 05:56	2°) €28'42	
evening set	3849 Feb 26 01:58	18°) 45′05		8	3850 Feb 12 23:02	30°R≈	
inferior conj	3849 Mar 03 18:34	13°) €06'15	3°33'21	inferior conj	3850 Feb 15 17:37	26° ≈ 34'10	3°16'25
minimum elong	3849 Mar 03 17:30	13°) €09'33	3°33'17	minimum elong	3850 Feb 15 15:35	26°≈40'51	3°16'04
min. Earth dist.	3849 Mar 05 15:09	10°) 50′18	0.65236 AU	min. Earth dist.	3850 Feb 16 23:10	24°≈57'43	0.66533 AU
morning rise	3849 Mar 09 08:34	6°) 54'33		morning rise	3850 Feb 21 00:59	20° ≈ 20'29	
direct	3849 Mar 16 00:17	4°) €03'44		direct	3850 Feb 27 05:53	17° ≈ 35'07	
desc. node	3849 Mar 25 15:39	8°) (30′59		morning max el	3850 Mar 11 16:12	24°≈58'53	25°52'53
morning max el	3849 Mar 29 06:35	11°) 51'02	27°00'20	desc. node	3850 Mar 12 12:43	25°≈51'40	
	3849 Apr 12 18:11	0° Υ			3850 Mar 16 05:34	0°) €	
	3849 Apr 30 22:45	0°8			3850 Apr 06 05:33	0°Υ	
morning set	3849 May 03 23:43	5° 8 44'31		morning set	3850 Apr 16 21:13	18° Ƴ 29'09	
max. Earth dist.	3849 May 08 10:26	_	1.34040 AU	max. Earth dist.	3850 Apr 20 17:36	25° Ƴ 43'33	1.35614 AU
	.,				3850 Apr 22 22:25	0°8	
superior conj	3849 May 12 09:40	22° 8 41'44	-0°31'50		r		
minimum elong	3849 May 12 11:20	22° 8 50'27		superior conj	3850 Apr 26 03:58	6° 8 26'19	-1°00'51
asc. node	3849 May 15 12:03	29° 8 13'48		minimum elong	3850 Apr 26 07:13	6° 8 42'41	1°00'16
	3849 May 15 20:46	0°II		asc. node	3850 May 02 09:04	19° 8 10'30	
evening rise	3849 May 19 19:08	8° Ⅱ 18'05		evening rise	3850 May 04 02:00	22° 8 40'44	
* · · · · · · · · · · · · · · · · · · ·	3849 May 31 08:37	0ංම _		2 / 2 8	3850 May 07 17:31	0°II	
evening max el	3849 Jun 08 21:49	10°957'49	21°33'54	evening max el	3850 May 22 03:04	22° I 102'22	20°13'39
retrograde	3849 Jun 21 05:04	17°501'29		retrograde	3850 Jun 01 18:55	27° Ⅱ 14'21	
desc. node	3849 Jun 21 14:52	17°901'05		evening set	3850 Jun 03 18:17	27° Ⅱ 04'25	
evening set	3849 Jun 23 16:20	16°947'37		desc. node	3850 Jun 08 11:53	25° II 29'45	
inferior conj	3849 Jul 03 01:29	12°9346'59	-3°13'15	inferior conj	3850 Jun 12 20:40	23° I 105'43	-1°17'30
minimum elong	3849 Jul 02 17:21	12°958'21		minimum elong	3850 Jun 12 17:02	23° I I1'06	
min. Earth dist.	3849 Jul 02 23:32	12°5949'42		min. Earth dist.	3850 Jun 14 11:50	22° I 07'54	0.55108 AU
morning rise	3849 Jul 11 19:22	8°953'04		morning rise	3850 Jun 21 14:24	18° ∏ 49'51	
direct	3849 Jul 15 03:00	8°929'06		direct	3850 Jun 25 14:00	18° Ⅱ 15'29	
morning max el	3849 Jul 27 11:43	14°9518'39	22°04'03	morning max el	3850 Jul 09 04:01	24° I 53'38	23°46'29
monning man or	3849 Aug 08 08:08	0°Ω	0.00		3850 Jul 13 21:33	0°9	20 10 27
asc. node	3849 Aug 11 11:18	5° Ω 34'45		asc. node	3850 Jul 29 08:20	25° © 00'27	
morning set	3849 Aug 17 18:44	18° Ω 08'37		use. Houe	3850 Jul 31 19:20	0°Ω	
	3849 Aug 23 09:04	0° m		morning set	3850 Aug 02 06:16	3° Ω 02'46	
	50.7.1ug 25 07.0T	יעיי י			5000 11ag 02 00.10	5 0002 70	
superior conj	3849 Aug 24 23:21	3° m 22'17	1°41'31	superior conj	3850 Aug 09 06:18	18° Ω 07'54	1°32'35

minimum elong	3850 Aug 09 04:18	17° Ω 57'07		morning set	3851 Jul 17 17:55	17° © 56'24	
max. Earth dist.	3850 Aug 11 12:22	22° Ω 57'51	1.33301 AU		3851 Jul 23 07:27	$0 {\circ} \mathcal{N}$	
	3850 Aug 14 20:58	0° m					
evening rise	3850 Aug 16 17:46	3° m 47'47		superior conj	3851 Jul 24 16:39	3° Ω 02'11	1°18'31
•	3850 Aug 31 06:58	0∘ ⊽		minimum elong	3851 Jul 24 14:19	2° Ω 49'23	1°18'11
desc. node	3850 Sep 04 11:15	6° £ 24'12		max. Earth dist.	3851 Jul 25 19:14	5° Ω 27'39	1.32484 AU
evening max el	3850 Sep 19 13:28	25° £ 00'10	27024124	evening rise	3851 Jul 31 18:40	18° Ω 13'02	1.52404710
evening max ci			21 24 24	evening rise			
. 1	3850 Sep 25 22:15	0°M			3851 Aug 06 17:38	0° m/y	
retrograde	3850 Oct 03 03:18	2°M18'00		desc. node	3851 Aug 22 08:15	25° m 25'46	
	3850 Oct 09 18:06	30° ₹ Ω			3851 Aug 25 20:07	0。 ಹ	
evening set	3850 Oct 10 05:59	29° ≏ 38'34		evening max el	3851 Sep 01 22:03	7° ≏ 47'58	27°20'15
min. Earth dist.	3850 Oct 13 23:03	26° ≏ 19'11	0.64017 AU	retrograde	3851 Sep 15 17:29	15° ≏ 03'02	
inferior conj	3850 Oct 16 10:42	23° £ 44'04	-2°51'41	evening set	3851 Sep 22 21:46	12° ≏ 37'13	
minimum elong	3850 Oct 16 15:29	23° £ 31'37	2°49'58	min. Earth dist.	3851 Sep 26 12:19	9° ≏ 45'23	0.62211 AU
morning rise	3850 Oct 23 02:16	18° ≏ 22'10		inferior conj	3851 Sep 29 11:11	7° ഫ 01'09	-3°49'47
asc. node	3850 Oct 25 07:33	17° £ 51'03		minimum elong	3851 Sep 29 17:02	6° £ 47'34	3°48'08
direct	3850 Oct 25 14:35	17° ⊆ 50'37		morning rise	3851 Oct 06 14:00	1° £ 57'56	5 .000
	3850 Nov 01 03:15	21° ⊆ 15'54	17°53'21	direct	3851 Oct 08 23:00	1° ⊆ 33'05	
morning max el			1/ 33 21				
	3850 Nov 07 19:11	0°M		asc. node	3851 Oct 12 04:37	2° £ 20'38	
morning set	3850 Nov 18 00:03	17°M01'10		morning max el	3851 Oct 15 19:09	5° ≏ 01'32	17°51'57
	3850 Nov 25 15:59	0° ∡ ¹		morning set	3851 Oct 31 17:45	29° ≏ 55'34	
					3851 Oct 31 18:44	0° M	
superior conj	3850 Nov 30 20:06	8° ₹ ³31'13	0°04'11				
minimum elong	3850 Nov 30 20:35	8° ₮ 33'08	0°04'06	superior conj	3851 Nov 11 17:40	19° M ₊18'07	0°44'51
behind sun begin	3850 Nov 30 10:52	7° ∡ ¹53'35		minimum elong	3851 Nov 11 21:25	19°M34'07	0°44'21
behind sun end	3850 Dec 01 06:17	9° ∡ 12'36		desc. node	3851 Nov 18 07:35	0° ҂ 17′20	
desc. node	3850 Dec 01 10:34	9° х 30'00			3851 Nov 18 03:21	0° × 7	
max. Earth dist.	3850 Dec 06 07:32	17° × 19'28	1.44504 AU	max. Earth dist.	3851 Nov 18 22:05		1.43177 AU
max. Earm dist.	3850 Dec 00 07:32 3850 Dec 14 09:39	0°る	1.44304 AU			13°×700'40	1.431// AU
				evening rise	3851 Nov 26 06:57		
evening rise	3850 Dec 16 19:16	3° る 42'12			3851 Dec 07 11:35	0°る	
	3851 Jan 03 09:15	0° ≈		evening max el	3851 Dec 27 12:41	26° る 37'16	21°38'28
evening max el	3851 Jan 13 15:30	13° ≈ 04'10	20°27'18		3851 Dec 31 09:18	0° ≈	
asc. node	3851 Jan 21 06:47	17° ≈ 46′27		retrograde	3852 Jan 05 13:20	1° ≈ 59'13	
retrograde	3851 Jan 21 15:53	17° ≈ 47'14		asc. node	3852 Jan 08 03:51	1° ≈ 22'25	
evening set	3851 Jan 25 12:42	16° ≈ 20'48		evening set	3852 Jan 09 20:26	0°≈17'26	
inferior conj	3851 Jan 30 21:45	10°≈13'23	2°48'44		3852 Jan 10 04:50	30°R₹	
minimum elong	3851 Jan 30 19:17	10° ≈ 21'47	2°48'06	inferior conj	3852 Jan 15 04:43	24° පි 00'19	2°12'19
min. Earth dist.	3851 Jan 31 13:45	9°≈18'50	0.67406 AU	minimum elong	3852 Jan 15 02:19	24°₹08'38	
	3851 Feb 05 01:40	3°≈59'36	0.07400 AC	min. Earth dist.	3852 Jan 15 08:36		0.67884 AU
morning rise							0.07664 AU
direct	3851 Feb 10 16:53	1°≈29'09	2.1020120	morning rise	3852 Jan 20 08:00	17° る 48'15	
morning max el	3851 Feb 22 00:53	8° ≈ 15′28	24°29'30	direct	3852 Jan 25 08:31	15° る 38'23	
desc. node	3851 Feb 27 09:47	14°≈16′12		morning max el	3852 Feb 04 10:13	21° る 36'54	23°00'26
	3851 Mar 11 02:08	0° ℋ			3852 Feb 11 15:47	0° ≈	
morning set	3851 Mar 29 23:35	0° Y 15′06		desc. node	3852 Feb 14 06:49	3° ≈ 25'58	
	3851 Mar 29 20:08	0 ° $\mathbf{\Upsilon}$			3852 Mar 03 09:16	0° ∀	
max. Earth dist.	3851 Apr 02 15:18	6° Ƴ 46'11	1.37576 AU	morning set	3852 Mar 10 00:33	10°) 45′21	
				max. Earth dist.	3852 Mar 14 10:11	18° ¥ 12'30	1.39749 AU
superior conj	3851 Apr 09 11:20	19° Ƴ 35'15	-1°28'16		3852 Mar 21 01:51	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	3851 Apr 09 15:48	19° Y 56'49				•	
8	3851 Apr 14 18:27	0°8	, -,	superior conj	3852 Mar 22 03:35	1° Y 57'36	-1°51'09
evening rise	3851 Apr 18 03:02	6° 8 41'15		minimum elong	3852 Mar 22 08:07	2° Υ 18'28	
•	-			_			1 30 43
asc. node	3851 Apr 19 06:06	8° 8 55'15		evening rise	3852 Mar 31 19:10	20°Υ11'10	
	3851 May 01 12:12	$\Pi^{\circ}0$		asc. node	3852 Apr 05 03:09	28° Y 22'30	
evening max el	3851 May 04 20:29	3° Ⅱ 49'01	19°12'21		3852 Apr 06 00:23	9° 8	
retrograde	3851 May 13 19:59	8° Ⅱ 11'15		evening max el	3852 Apr 16 23:38	16° 8 12'46	18°31'15
evening set	3851 May 15 20:46	7° Ⅱ 58'46		retrograde	3852 Apr 24 15:15	19° 8 58'51	
inferior conj	3851 May 24 05:44	3° Ⅱ 48′32	0°37'08	evening set	3852 Apr 26 22:27	19° 8 39'32	
minimum elong	3851 May 24 07:14	3° Ⅱ 46′00	0°36'36	inferior conj	3852 May 04 11:32	15° 8 10'17	2°05'47
desc. node	3851 May 26 08:56	2° Ⅲ 22'15		minimum elong	3852 May 04 15:12	15° 8 03'05	2°04'43
min. Earth dist.	3851 May 27 02:51	1° II 52'47	0.56268 AU	min. Earth dist.	3852 May 07 21:33		0.58106 AU
mm. Latin dist.	3851 May 30 07:09	30°R ∀	5.56206 AU	morning rise	3852 May 07 21:33 3852 May 12 04:48	9° 8 46'34	5.55100 AU
				•	-		
morning rise	3851 Jun 01 14:35	28° 8 57'53		desc. node	3852 May 12 05:59	9° 8 45'06	
direct	3851 Jun 06 12:57	28° 8 01'30		direct	3852 May 18 02:19	8° 8 17'34	
	3851 Jun 13 17:44	$\Pi^{\circ 0}$		morning max el	3852 Jun 01 11:32	15° 8 57'25	26°47'48
morning max el	3851 Jun 20 18:11	5° Ⅱ 17'48	25°26'20		3852 Jun 12 21:50	$\Pi^{\circ}0$	
	3851 Jul 08 14:20	0 \circ \odot			3852 Jun 29 20:39	0 \circ \odot	
asc. node	3851 Jul 16 05:24	14° © 45'06		morning set	3852 Jul 01 03:59	2° © 43'21	

asc. node	3852 Jul 02 02:26	4°9542'07		morning set	3853 Jun 15 10:45	17° Ⅱ 18'17	
				asc. node	3853 Jun 18 23:29	24° Ⅱ 46′52	
superior conj	3852 Jul 08 04:24	17° © 57'46	1°00'03		3853 Jun 21 09:03	0ංම	
minimum elong	3852 Jul 08 02:13	17° © 45'39	0°59'40	max. Earth dist.	3853 Jun 21 17:41	0°547'18	1.32084 AU
max. Earth dist.	3852 Jul 08 06:11	18° © 07'36	1.32082 AU				
max. Lartii dist.	3852 Jul 13 16:41	0°Ω	1.52002 AC	superior coni	2052 Jun 22 15:40	2° © 48'55	0°37'50
				superior conj	3853 Jun 22 15:48		
evening rise	3852 Jul 15 01:21	2° £ 53′25		minimum elong	3853 Jun 22 14:12	2°540'07	0°37'30
	3852 Jul 29 14:48	0°Щ		evening rise	3853 Jun 29 11:35	17°5641'40	
desc. node	3852 Aug 08 05:16	13° Mp 33'20			3853 Jul 05 12:58	$0 {\circ} \Omega$	
evening max el	3852 Aug 14 01:09	19° m 53′23	26°42'48		3853 Jul 25 16:23	0° m	
retrograde	3852 Aug 27 23:45	27° Mp 04'09		desc. node	3853 Jul 26 02:17	0° m 24'57	
evening set	3852 Sep 03 19:45	25° m 05'00		evening max el	3853 Jul 26 20:51	1°10'11 (10'11	25°34'04
min. Earth dist.	3852 Sep 07 15:07	22° m 28'21	0.60186 AU	retrograde	3853 Aug 09 20:10	8° m 16'20	
inferior conj	3852 Sep 10 21:00	19° m 50'20		evening set	3853 Aug 15 19:05	6° m 53'26	
minimum elong	3852 Sep 10 21:00 3852 Sep 11 02:19	19° m ₀ 39'29		min. Earth dist.	3853 Aug 20 08:49	4° M) 14'38	0.58136 AU
•		•	4 3/ 33		=		
morning rise	3852 Sep 18 10:53	15° m 08'37		inferior conj	3853 Aug 23 12:37	2° m 01'25	
direct	3852 Sep 20 19:46	14° m 47'34		minimum elong	3853 Aug 23 14:39	1° m 57'49	5°07'10
asc. node	3852 Sep 28 01:40	18° Mp 14'34			3853 Aug 26 12:37	30° R Ω	
morning max el	3852 Sep 28 07:11	18° Mp 27′42	18°09'51	morning rise	3853 Aug 31 12:29	27° Ω 42'46	
	3852 Oct 06 15:52	0∘ ⊽		direct	3853 Sep 03 00:31	27° Ω 23'15	
morning set	3852 Oct 14 02:55	13° ≏ 34'10			3853 Sep 09 20:28	0° m	
-	3852 Oct 22 23:07	0°M		morning max el	3853 Sep 11 12:00	1° m)24'55	18°48'25
				asc. node	3853 Sep 14 22:43	5° m) 17'55	
superior conj	3852 Oct 23 16:39	1° M .19'10	101445	morning set	3853 Sep 27 22:49	27° m 43'09	
	3852 Oct 23 10:37 3852 Oct 23 20:42	1°M37'22	1°14'18	morning set	•	27 iiv 1 3 07	
minimum elong					3853 Sep 29 02:44	0 ==	
max. Earth dist.	3852 Oct 31 07:52	14°M38'21	1.41371 AU				
desc. node	3852 Nov 04 04:37	21°M03'42		superior conj	3853 Oct 06 11:55	14° ≏ 19'35	
evening rise	3852 Nov 05 10:15	23°M04'17		minimum elong	3853 Oct 06 14:41	14° ≏ 32'41	1°33'26
	3852 Nov 09 18:39	0° ∡ 7		max. Earth dist.	3853 Oct 13 13:32	27° ≏ 18'16	1.39309 AU
	3852 Nov 30 12:29	8°0			3853 Oct 15 02:19	0° M.	
evening max el	3852 Dec 09 05:12	10°る13'21	22°56'47	evening rise	3853 Oct 17 12:18	4°M09'56	
retrograde	3852 Dec 19 08:21	16° る 13'51		desc. node	3853 Oct 22 01:37	11° M 44'55	
evening set	3852 Dec 24 03:31	14° る 15'55			3853 Nov 02 22:31	0°⊀	
asc. node	3852 Dec 25 00:54	13° る 27'23		evening max el	3853 Nov 21 18:38	23° х 52'34	24°16'27
min. Earth dist.	3852 Dec 29 05:17	8° る 17'54	0.67991 AU	evening max ci		23 × 32 34	24 1027
					3853 Nov 30 09:30		
inferior conj	3852 Dec 29 12:34	7°る52'46	1°28'34	retrograde	3853 Dec 02 23:49	0°る26'54	
minimum elong	3852 Dec 29 10:42	7° る 59'13	1°27'51		3853 Dec 05 10:31	30°₽ ⋌ ¹	
morning rise	3853 Jan 03 17:45	1° る 44'14		evening set	3853 Dec 08 08:22	28° ∡ 12'51	
	3853 Jan 07 10:17	30°Ŗ ⋌ ¹		asc. node	3853 Dec 11 21:56	24° ∡ 18'51	
direct	3853 Jan 08 03:44	29° ∡ ¹57'15		min. Earth dist.	3853 Dec 13 01:24	22° ∡ ¹48'27	0.67744 AU
	3853 Jan 08 21:29	0°る		inferior conj	3853 Dec 13 19:29	21° ∡¹ 47'37	0°38'36
morning max el	3853 Jan 16 23:54	5° る 06'39	21°34'51	minimum elong	3853 Dec 13 18:34	21° ₹ ′50'42	0°38'14
desc. node	3853 Jan 31 03:51	23° る 08'26		morning rise	3853 Dec 19 04:50	15° ∡ 744'40	
desc. node	3853 Feb 04 21:09	0°≈		direct	3853 Dec 23 01:19	14° ≯ 19'58	
morning set	3853 Feb 17 20:36	19°≈53'27		morning max el	3853 Dec 29 01:19	18° × ⁷ 47'50	20°19'15
morning set				morning max er			20 1913
	3853 Feb 24 02:27	0°) (3854 Jan 08 22:16	0°る	
max. Earth dist.	3853 Feb 24 10:11	0°大31'56	1.41855 AU	desc. node	3854 Jan 18 00:53	13° 云 14'09	
				morning set	3854 Jan 27 19:16	28° る 06'23	
superior conj	3853 Mar 03 23:45	13° ∺ 21'53	-2°05'17		3854 Jan 29 00:35	0° ≈	
minimum elong	3853 Mar 04 02:05	13°) 32′02	2°05'13	max. Earth dist.	3854 Feb 06 18:05	13° ≈ 46′39	1.43603 AU
	3853 Mar 13 06:58	0° Y					
evening rise	3853 Mar 14 22:47	3° Y 02'03		superior conj	3854 Feb 12 19:04	23°≈37'02	-2°05'26
asc. node	3853 Mar 23 00:12	17° Ƴ 26'09		minimum elong	3854 Feb 12 16:15	23° ≈ 25'24	2°05'21
evening max el	3853 Mar 31 09:05	29° Υ 04'45	18°10'07		3854 Feb 16 14:51	0°) €	
evening max er	3853 Apr 01 09:11	0° 8	10 1007	evening rise	3854 Feb 25 09:31	15°) €04'33	
. 1				evening rise			
retrograde	3853 Apr 07 04:46	2° 8 31'32			3854 Mar 06 01:52	0° Υ	
evening set	3853 Apr 09 18:31	2° 8 02'42		asc. node	3854 Mar 09 21:14	5° Y 58'06	
	3853 Apr 13 07:45	30° ₹ Υ		evening max el	3854 Mar 14 21:26	12° Y 15′22	18°08'29
inferior conj	3853 Apr 16 14:14	27° Y 12'26	3°02'06	retrograde	3854 Mar 21 08:28	15° Ƴ 38'17	
minimum elong	3853 Apr 16 17:19	27° Y 05'19	3°01'30	evening set	3854 Mar 24 04:02	14° Ƴ 58'35	
min. Earth dist.	3853 Apr 19 22:03	24° Y 10'56	0.60264 AU	inferior conj	3854 Mar 30 10:19	9° Ƴ 48'06	3°30'23
morning rise	3853 Apr 23 13:52	21° Y ′24'48		minimum elong	3854 Mar 30 11:44	9° Ƴ 44'22	3°30'17
desc. node	3853 Apr 29 03:01	19° Υ 23'49		min. Earth dist.	3854 Apr 02 06:52	6° Ƴ 49'44	0.62403 AU
direct	3853 Apr 30 03:50	19° Υ 20'49		morning rise	3854 Apr 05 18:05	3° Υ 45'59	
morning max el	3853 May 14 11:05	27° Υ 13'24	27°38'08	direct	3854 Apr 12 15:07	1° Υ 13'39	
morning max ci	•		21 30 00			1° Υ 46'43	
	3853 May 17 02:38	0° Β		desc. node	3854 Apr 16 00:03		27951110
	3853 Jun 06 12:41	Π °0		morning max el	3854 Apr 26 16:41	9° Ƴ 12'00	27°51'19

See See See See See See See See See Se		3854 May 12 19:03	0°8		desc. node	3855 Apr 02 21:05	16°) 31′53	
Pare Part		3854 May 29 17:22	$\Pi^{\circ}0$		morning max el	3855 Apr 09 01:51	21°) 46′48	27°28'00
Second S	morning set	3854 May 30 12:10				3855 Apr 16 06:17		
Separation Sep	max. Earth dist.			1.32492 AU		•		
	asc. node	3854 Jun 05 20:31	14° ∏ 55'04		•	•	. •	1 22220 177
Minimum clong MSA May 0 0 003		2054 I 07 01.00	170 T 20100	0912120	max. Earth dist.	•		1.33339 AU
Pebeland same pages						3855 May 21 08:49	0.П	
Politication Sis Aum 10 10 10 10 10 10 10 1	•			0 1221	superior coni	3855 May 22 06:28	1°∏54'49	-0°15'14
1854 mm 2 mm	•					•		
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Sees node		3854 Jun 28 21:22	$0^{\circ}\Omega$		asc. node	3855 May 23 17:32	5° Ⅱ 01'59	
Percentage 3854 Jul 2 0 508 81-241 270-275 287-281 291-241 291-281 291-241 2	evening max el	3854 Jul 08 10:32		24°03'41	evening rise	3855 May 29 10:43		
Seeming act 38.54 Jul 20 18-44 17-215723 seeming act 3855 Jul 20 20-19 28-26-2015 inferior conj 3854 Aug 04 08:03 38-21738 3-90114 evening set 3855 Jul 06 04:01 28-26-2015 1-90105 3-10105								
mine Earth dist. 38.5 Aug. 01 21.00 14°Q58% 6 0.564.6 AU retrograde minimum of minerior ong mass and minerior ong mass and minerior ong minerior ong minerior ong mass and mi	•				•			22°26'47
minimum clong minimum clo	•			0.56246 ATT				
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direct 3854 Aug 15 09-54 9°Q0936 minimum clong 3855 Jul 15 01-21 24°92219 4°9474 4°9474 1°94836 moming rise 3855 Jul 2 1 01-24 02°22033 4°9474 1°94836 moming rise 3854 Sep 0 18-55 0°P moming max cl 3855 Jul 27 01-34 25°9209 2°900	•	=		2 0002				
morning max el 385 Aug 25 66.44 3°,4448 3°,444	_	•	9° Ω 09'36		·	3855 Jul 15 01:21	24° © 22'19	4°04'47
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morning set 3854 Sep 12 02.02 12*¶ 1331	asc. node	3854 Sep 01 19:45	23° Ω 16′19		direct	3855 Jul 27 01:49	19° © 58'59	
superior of super		=			morning max el	Č		21°09'38
superior conj minimum clong 3845 k Sp 1 9 2:114 28*® p10'04 1°42'50 moming set 3855 kag 2 8 21:10 0° m 1°40'00 max Earth dist. 3854 k Sp 2 0 21:27 0° Δ 1°40'00	morning set	3854 Sep 12 02:02	12°Mp 13'31			-		
minimum elong 3854 Sep 19 23:14 28°By10'd 4°24'S0 3855 Arg 28 21:10 0°\$Q 1 max. Earth dist. 3854 Sep 20<1:27		2054.0 10 22 11	200 m. 0.4140	1040150		•		
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evening max el 3854 Nov 04 06:53	desc. node	3854 Oct 08 22:38	2°M17'03		evening rise	3855 Sep 12 08:23	29° m 19'12	
retrograde 3854 Nov 16 10:53		3854 Oct 28 10:28	0° ∡ ¹			3855 Sep 12 17:03	0∘ ত	
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morning set max. Earth dist.	daga mada				•			
max. Earth dist. 3855 Jan 20 08:20 27°₹41'57 1.44777 AU 3855 Jan 21 19:16 0°≈ superior conj minimum elong minimum elong minimum elong 3856 Jan 02 16:17 11°₹20'54 -1°09'54 superior conj 3855 Jan 23 13:11 2°≈46'16 -1°46'54 max. Earth dist. 3856 Jan 03 02:24 12°₹00'35 1.45248 AU minimum elong 3855 Jan 23 04:54 2°≈13'20 1°46'14 3856 Jan 14 13:05 0°≈ evening rise 3855 Feb 06 23:15 26°≈11'52 evening rise 3856 Jan 14 13:05 0°≈ asc. node 3855 Feb 09 06:16 0° ★ greatest brilliancy 3856 Jan 27 18:54 20°≈57'58 -0.8m asc. node 3855 Feb 26 09:49 25° ★37'37 18°25'35 evening max el 3856 Feb 09 19:53 9° ★06'39 19°00'30 retrograde 3855 Mar 04 21:40 29° ★09'47 asc. node 3856 Feb 11 15:16 10° ★46'48 evening set 3855 Mar 13 19:41 22° ★9'18 3°37'06 evening set 3856 Feb 20 00:26 11° ★54'56 minimum elong 3855 Mar 13 19:24 22° ★50'07 3°37'07 inferior conj 3856 Feb 25 13:06 6° ★09'19 3°27'39 min. Earth dist. 3855 Mar 19 15:04 16° ★39'35 min. Earth dist. 3856 Feb 27 04:48 4° ★09'11 0.65837 AU					desc. node			
Superior conj 3855 Jan 21 19:16 0° ≈ Superior conj 3856 Jan 02 16:17 11° ₹20′54 -1°09′54 Superior conj 3855 Jan 23 13:11 2° ≈46′16 -1°46′54 max. Earth dist. 3856 Jan 03 02:24 12° ₹00′35 1.45248 AU Minimum elong 3855 Jan 23 04:54 2° ≈13′20 1°46′14 max. Earth dist. 3856 Jan 03 02:24 12° ₹00′35 1.45248 AU Minimum elong 3855 Feb 06 23:15 26° ≈11′25 evening rise 3856 Jan 14 13:05 0° ≈ 3855 Feb 09 06:16 0° ★ greatest brilliancy 3856 Jan 18 13:43 6° ≈22′25 Asc. node 3855 Feb 24 18:15 23° ★48′54 evening max el 3856 Feb 02 17:11 0° ★ Private evening max el 3855 Feb 26 09:49 25° ★37′37 18°25′35 evening max el 3856 Feb 01 15:16 10° ★46′48 Private evening set 3855 Mar 07 23:01 28° ★18′19 retrograde 3856 Feb 26 09:49 22° ★59′07 3°37′06 evening set 3856 Feb 25 14:39 6° ★09′19 3°27′39 Minimum elong 3855 Mar 13 19:24 22° ★59′07 3°37′07 inferior conj 3856 Feb 25 13:06 6° ★14′13 3°27′29 Minimum elong 3855 Mar 19 15:04 16° ★39′35 minimum elong 3856 Feb 27 04:48 4° ★09′11 0.65837 AU Av ★09′11 0.65837 AU 10° ★46′48 10° ★14′3 10° ★14′4	•			1 44777 AU		3633 Dec 20 11.03	0 0	
minimum elong superior conj 3855 Jan 23 13:11 2°≈46'16 -1°46'54 max. Earth dist. 3856 Jan 02 07:58 10°₹48'17 1°08'55 superior conj 3855 Jan 23 13:11 2°≈46'16 -1°46'54 max. Earth dist. 3856 Jan 03 02:24 12°₹00'35 1.45248 AU minimum elong 3855 Jan 23 04:54 2°≈13'20 1°46'14 3856 Jan 14 13:05 0°≈ evening rise 3855 Feb 06 23:15 26°≈11'52 evening rise 3856 Jan 18 13:43 6°≈22'25 3855 Feb 09 06:16 0° ★ greatest brilliancy 3856 Jan 27 18:54 20°≈57'58 -0.8m asc. node 3855 Feb 24 18:15 23° ★48'54 evening max el 3855 Feb 09 09:49 25° ★37'37 18°25'35 evening max el 3856 Feb 09 19:53 9° ★06'39 19°00'30 retrograde 3855 Mar 04 21:40 29° ★09'47 asc. node 3856 Feb 11 15:16 10° ★46'48 evening set 3855 Mar 07 23:01 28° ★18'19 retrograde 3856 Feb 16 16:33 12° ★59'07 inferior conj 3855 Mar 13 19:41 22° ★49'18 3°37'06 evening set 3856 Feb 20 00:26 11° ★54'56 minimum elong 3855 Mar 13 19:24 22° ★50'07 3°37'07 inferior conj 3856 Feb 25 14:39 6° ★09'19 3°27'39 min. Earth dist. 3855 Mar 16 01:17 20° ★13'46 0.64303 AU minimum elong 3856 Feb 27 04:48 4° ★09'11 0.65837 AU morning rise 3855 Mar 19 15:04 16° ★39'35 min. Earth dist. 3856 Feb 27 04:48 4° ★09'11 0.65837 AU					superior conj	3856 Jan 02 16:17	11° る 20'54	-1°09'54
minimum elong					minimum elong	3856 Jan 02 07:58	10° ප් 48'17	1°08'55
evening rise 3855 Feb 06 23:15 3855 Feb 09 06:16 0° ★ greatest brilliancy 3856 Jan 18 13:43 6°≈22'25 3856 Jan 27 18:54 20°≈57'58 -0.8m 3856 Feb 02 17:11 0° ★ evening max el 3855 Feb 26 09:49 25° ★37'37 18°25'35 evening max el 3856 Feb 09 19:53 retrograde 3856 Feb 11 15:16 10° ★46'48 evening set 3855 Mar 04 21:40 29° ★09'47 asc. node 3856 Feb 11 15:16 10° ★46'48 evening set 3855 Mar 13 19:41 22° ★49'18 3°37'06 minimum elong 3855 Mar 13 19:24 22° ★49'18 3°37'07 minerior conj 3855 Mar 13 19:24 3856 Feb 25 14:39 3856 Feb 25 13:06 6° ★09'19 3°27'39 min. Earth dist. 3856 Feb 27 04:48 4° ★09'11 0.65837 AU	superior conj	3855 Jan 23 13:11	2° ≈ 46'16	-1°46'54	max. Earth dist.	3856 Jan 03 02:24	12° る 00'35	1.45248 AU
3855 Feb 09 06:16 0° ★ greatest brilliancy 3856 Jan 27 18:54 20°≈57'58 -0.8m asc. node 3855 Feb 24 18:15 23° ★48'54	minimum elong			1°46'14		3856 Jan 14 13:05	0° ≈	
asc. node 3855 Feb 24 18:15 23°\text{\tex{\tex	evening rise				•			
evening max el 3855 Feb 26 09:49 25°\darkgar3737 18°25'35 evening max el 3856 Feb 09 19:53 9°\darkgar40'39 19°00'30 retrograde 3855 Mar 04 21:40 29°\darkgar40'947 asc. node 3856 Feb 11 15:16 10°\darkgar46'48 evening set 3855 Mar 07 23:01 28°\darkgar48'19 retrograde 3856 Feb 16 16:33 12°\darkgar459'07 inferior conj 3855 Mar 13 19:41 22°\darkgar49'18 3°37'06 evening set 3856 Feb 20 00:26 11°\darkgar45'56 minimum elong 3855 Mar 13 19:24 22°\darkgar45'07 3°37'07 inferior conj 3856 Feb 25 14:39 6°\darkgar40'91'9 3°27'39 min. Earth dist. 3855 Mar 16 01:17 20°\darkgar43'46 0.64303 AU minimum elong 3856 Feb 25 13:06 6°\darkgar41'13 3°27'29 morning rise 3855 Mar 19 15:04 16°\darkgar43'935 min. Earth dist. 3856 Feb 27 04:48 4°\darkgar40'91'1 0.65837 AU	•				greatest brilliancy			-0.8m
retrograde 3855 Mar 04 21:40 29°\times 09'47 asc. node 3856 Feb 11 15:16 10°\times 46'48 evening set 3855 Mar 07 23:01 28°\times 18'19 retrograde 3856 Feb 16 16:33 12°\times 59'07 inferior conj 3855 Mar 13 19:41 22°\times 49'18 3°37'06 evening set 3856 Feb 20 00:26 11°\times 54'56 minimum elong 3855 Mar 13 19:24 22°\times 50'07 3°37'07 inferior conj 3856 Feb 25 14:39 6°\times 09'19 3°27'39 min. Earth dist. 3855 Mar 16 01:17 20°\times 13'46 0.64303 AU minimum elong 3856 Feb 25 13:06 6°\times 14'13 3°27'29 morning rise 3855 Mar 19 15:04 16°\times 39'35 min. Earth dist. 3856 Feb 27 04:48 4°\times 09'11 0.65837 AU				10025125	ovanina ma1			10000120
evening set 3855 Mar 07 23:01 28°\times 18'19 retrograde 3856 Feb 16 16:33 12°\times 5'007 inferior conj 3855 Mar 13 19:41 22°\times 49'18 3°37'06 evening set 3856 Feb 20 00:26 11°\times 54'56 minimum elong 3855 Mar 13 19:24 22°\times 50'07 3°37'07 inferior conj 3856 Feb 25 14:39 6°\times 09'19 3°27'39 min. Earth dist. 3855 Mar 16 01:17 20°\times 13'46 0.64303 AU minimum elong 3856 Feb 25 13:06 6°\times 14'13 3°27'29 morning rise 3855 Mar 19 15:04 16°\times 39'35 min. Earth dist. 3856 Feb 27 04:48 4°\times 09'11 0.65837 AU	•			10 43 33	•			17 00 30
inferior conj 3855 Mar 13 19:41 22°\text{\pmathcal{4}}\text{\pmathcal{4}} 13 20°\text{\pmathcal{4}}\text{\pmathcal{4}} 18 3°37'06 evening set 3856 Feb 20 00:26 11°\text{\pmathcal{5}}\text{\pmathcal{5}}\text{\pmathcal{5}}\text{\pmathcal{5}}\text{\pmathcal{5}}\text{\pmathcal{6}}\text{\pmathcal{5}}\text{\pmathcal{6}}\text{\pmathcal{5}}\text{\pmathcal{5}}\text{\pmathcal{6}}\text{\pmathcal{5}}\text{\pmathcal{6}}\text{\pmathcal{5}}\text{\pmathcal{6}}\text{\pmathcal{5}}\text{\pmathcal{6}}\text{\pmathcal{5}}\text{\pmathcal{6}}\text{\pmathcal{6}}\text{\pmathcal{5}}\text{\pmathcal{6}}\text{\pmathcal{5}}\text{\pmathcal{6}}\text{\pmathcal{5}}\text{\pmathcal{6}}\text{\pmathcal{6}}\text{\pmathcal{5}}\text{\pmathcal{6}}\text{\pmathcal{5}}\text{\pmathcal{6}}\text{\pmathcal{5}}\text{\pmathcal{6}\text{\pmathcal{6}}\text{\pmathcal{6}}\text{\pmathcal{6}}\text{\pmathcal{6}\text{\pmathcal{6}}\text{\pmathcal{6}}\tex	•							
minimum elong 3855 Mar 13 19:24 22° ₹50′07 3°37′07 inferior conj 3856 Feb 25 14:39 6° ₹09′19 3°27′39 min. Earth dist. 3855 Mar 16 01:17 20° ₹13′46 0.64303 AU minimum elong 3856 Feb 25 13:06 6° ₹14′13 3°27′29 morning rise 3855 Mar 19 15:04 16° ₹39′35 min. Earth dist. 3856 Feb 27 04:48 4° ₹09′11 0.65837 AU	•			3°37'06	-			
min. Earth dist. 3855 Mar 16 01:17 20° \(\) 13'46 0.64303 AU minimum elong 3856 Feb 25 13:06 6° \(\) 14'13 3°27'29 morning rise 3855 Mar 19 15:04 16° \(\) 3856 Feb 27 04:48 16° \(\) 3856 Feb 28 16° \(\) 3856 Feb	·				•			3°27'39
		3855 Mar 16 01:17	20° 升 13'46	0.64303 AU	minimum elong	3856 Feb 25 13:06	6° ¥ 14'13	3°27'29
direct 3855 Mar 26 10:37 13°\text{\text{51'19}} 3856 Mar 01 23:44 30°\text{\text{R}} ≈	morning rise				min. Earth dist.	3856 Feb 27 04:48		0.65837 AU
	direct	3855 Mar 26 10:37	13° ¥ 51'19			3856 Mar 01 23:44	30°R ≈	

morning rise	3856 Mar 02 01:24	29° ≈ 56'18		min. Earth dist.	3857 Feb 09 15:50	18° ≈ 23′20	0.66956 AU
direct	3856 Mar 08 13:03	27°≈06'04		morning rise	3857 Feb 13 21:42	13° ≈ 28′23	
	3856 Mar 16 00:17	0° ∀		direct	3857 Feb 19 21:10	10° ≈ 48'10	
desc. node	3856 Mar 19 18:08	3°) €04'55		morning max el	3857 Mar 03 20:42	17° ≈ 57'17	25°18'44
morning max el	3856 Mar 21 11:47	4°) 45′54	26°34'10	desc. node	3857 Mar 06 15:11	20° ≈ 55′04	
	3856 Apr 09 18:20	0 ° Υ			3857 Mar 13 23:36	0° ∀	
morning set	3856 Apr 26 11:42	28° Ƴ 36'49			3857 Apr 02 18:54	0° Y	
	3856 Apr 27 05:14	8°		morning set	3857 Apr 09 01:46	10° Ƴ 58'15	
max. Earth dist.	3856 Apr 30 15:40	6° 8 40'29	1.34653 AU	max. Earth dist.	3857 Apr 12 17:59	17° Ƴ 43'52	1.36414 AU
superior conj	3856 May 05 05:36	15° 8 56'45	-0°44'11	superior conj	3857 Apr 18 19:44	29° Y '27'31	-1°12'49
minimum elong	3856 May 05 07:57	16° 8 08'50	0°43'44	minimum elong	3857 Apr 18 23:34	29° Y '46'33	1°12'11
asc. node	3856 May 09 14:34	25° 8 03'54		· ·	3857 Apr 19 02:17	0° ႘	
	3856 May 11 23:09	Π°		asc. node	3857 Apr 26 11:36	14° 8 56'03	
evening rise	3856 May 12 19:52	1° Ⅱ 47'43		evening rise	3857 Apr 27 00:34	16° 8 01'41	
8 11	3856 May 29 06:21	0°9		8 21	3857 May 04 06:29	0°П	
evening max el	3856 May 31 23:20	2°956'02	20°57'42	evening max el	3857 May 14 10:00	14° Ⅱ 18'34	19°45'05
retrograde	3856 Jun 12 14:57	8°938'10	20 57 .2	retrograde	3857 May 24 07:45	19° Ⅱ 07'37	17 .6 06
evening set	3856 Jun 14 18:46	8° 9 27'10		evening set	3857 May 26 06:50	18° Ⅱ 57'07	
desc. node	3856 Jun 15 17:19	8°915'50		desc. node	3857 Jun 02 14:21	15° II 50'25	
inferior conj	3856 Jun 24 02:59	4°929'40	2°26'10	inferior conj	3857 Jun 02 14:21 3857 Jun 04 02:37	13 H 50 23	0°26'48
·	3856 Jun 23 20:16		2°24'00	•	3857 Jun 04 02:37 3857 Jun 04 01:24	14° П 56'52	
minimum elong	3856 Jun 24 19:22	4°539'09		minimum elong		14 П 36 32 13° П 31'39	0.55510 AU
min. Earth dist.		4°506'28	0.54851 AU	min. Earth dist.	3857 Jun 06 08:34		0.55510 AU
morning rise	3856 Jul 02 21:40	0°928'18		morning rise	3857 Jun 12 17:41	10° Ⅱ 25'19	
direct	3856 Jul 06 11:11	0°900'55		direct	3857 Jun 17 02:46	9° ∏ 42'52	
morning max el	3856 Jul 19 10:03	6° © 12'37	22°46'52	morning max el	3857 Jul 01 00:26	16° ∏ 38′28	24°30'09
	3856 Aug 04 23:40	$0^{\circ}\Omega$			3857 Jul 11 19:46	0	
asc. node	3856 Aug 05 13:50	1° Ω 07'29		asc. node	3857 Jul 23 10:53	20° © 41'52	
morning set	3856 Aug 10 20:45	11° Ω 48'45		morning set	3857 Jul 26 08:33	26°5943'04	
					3857 Jul 27 21:29	0 $^{\circ}$ Ω	
superior conj	3856 Aug 17 23:01	26° Ω 57'52	1°38'24				
minimum elong	3856 Aug 17 21:26	26° Ω 49'28	1°38'17	superior conj	3857 Aug 02 07:41	11° Ω 47'40	1°27'10
	3856 Aug 19 09:21	0° m		minimum elong	3857 Aug 02 05:28	11° Ω 35'41	1°26'56
max. Earth dist.	3856 Aug 20 22:20	3° Mp 13'53	1.33963 AU	max. Earth dist.	3857 Aug 04 01:32	15° Ω 34'28	1.32908 AU
evening rise	3856 Aug 25 18:13	13°Mp01'21		evening rise	3857 Aug 09 14:33	27° Ω 13'38	
	3856 Sep 03 23:16	0∘ ⊽			3857 Aug 10 23:33	0° m ∕	
desc. node	3856 Sep 11 16:39	12° ≏ 29'37			3857 Aug 28 06:12	0∘ ⊽	
	3856 Sep 24 19:13	0°M		desc. node	3857 Aug 29 13:39	1° ♀ 54'22	
evening max el	3856 Sep 29 07:45	4°M44'13	27°12'55	evening max el	3857 Sep 11 18:38	17° ≏ 51'54	27°26'42
retrograde	3856 Oct 12 17:12	12°Mo2'13		retrograde	3857 Sep 25 11:03	25° ≏ 08'00	
evening set	3856 Oct 19 15:30	9° M 20'47		evening set	3857 Oct 02 15:24	22° ٩ 33'09	
min. Earth dist.	3856 Oct 23 11:43	5°M41'52	0.64909 AU	min. Earth dist.	3857 Oct 06 07:00	19° ≏ 26'26	0.63282 AU
inferior conj	3856 Oct 25 16:10	3°M17'08		inferior conj	3857 Oct 08 23:33	16° ≏ 46'16	
minimum elong	3856 Oct 25 20:00	3°M06'32		minimum elong	3857 Oct 09 04:54	16° ≏ 32'57	
	3856 Oct 28 20:40	30° ŖΩ		morning rise	3857 Oct 15 19:49	11° ≏ 31'38	
morning rise	3856 Nov 01 01:33	27° ≏ 45'38		direct	3857 Oct 18 06:27	11° ഫ 03'11	
asc. node	3856 Nov 01 13:02	27° △ 33'34		asc. node	3857 Oct 19 10:07	11° ≏ 09'39	
direct	3856 Nov 03 16:58	27° ♀ 08'45		morning max el	3857 Oct 24 21:16	14° ≏ 28'45	17°50'29
	3856 Nov 09 13:32	0°M		morning man er	3857 Nov 04 15:29	0°M	1, 502)
morning max el	3856 Nov 10 04:40	0°M36'19	18°02'15	morning set	3857 Nov 10 06:13	9°M44'39	
morning set	3856 Nov 27 23:56	27°M22'37	10 02 15	morning set	3037 1107 10 00.13) IIU-1-3)	
morning set	3856 Nov 29 13:48	0° ⊼		superior conj	3857 Nov 22 06:21	0° ∡ 16'43	0°22'36
desc. node	3856 Dec 08 15:58	14° ₹ 53'28		minimum elong	3857 Nov 22 08:38	0° ∡ 10 4 3	0°22'17
desc. Hode	3630 Dec 06 13.36	14 × 33 26		minimum ciong		0° x ⁷ 2011	0 22 17
	205(D 12 00.17	200.715126	0922140	4 4-	3857 Nov 22 02:19		
superior conj	3856 Dec 12 00:17	20° ₹ 15′26		desc. node	3857 Nov 25 12:59	5° ⋌ ³39'53	1 44011 411
minimum elong	3856 Dec 11 21:28	20° ₹ 04'11		max. Earth dist.	3857 Nov 28 15:11	10° 🗷 39'40	1.44011 AU
max. Earth dist.	3856 Dec 15 21:36		1.44981 AU	evening rise	3857 Dec 07 17:26	24° 🗷 57'00	
	3856 Dec 18 04:12	0°る			3857 Dec 11 00:29	5°0	
evening rise	3856 Dec 28 07:57	15° ⋜ 47'13			3857 Dec 31 19:15	0° ≈	2005 (125
	3857 Jan 06 14:19	0°≈	o =	evening max el	3858 Jan 06 02:09	6°≈10'50	20°56'22
greatest brilliancy	3857 Jan 11 03:49	6°≈51'37		retrograde	3858 Jan 14 12:09	11° ≈ 09'38	
evening max el	3857 Jan 23 01:42	22° ≈ 38'11	19°51'37	asc. node	3858 Jan 15 09:22	11° ≈ 05'21	
asc. node	3857 Jan 28 12:18	26° ≈ 37'01		evening set	3858 Jan 18 13:15	9° ≈ 36'36	
retrograde	3857 Jan 30 14:08	27° ≈ 00'18		inferior conj	3858 Jan 23 21:45	3° ≈ 24'44	
evening set	3857 Feb 03 05:50	25° ≈ 42'15		minimum elong	3858 Jan 23 19:16	3° ≈ 33'19	
inferior conj	3857 Feb 08 16:10	19° ≈ 42'11		min. Earth dist.	3858 Jan 24 08:25	2° ≈ 48'03	0.67661 AU
minimum elong	3857 Feb 08 13:53	19° ≈ 49'49	3°05'22		3858 Jan 26 11:05	30°Ŗる	

morning rise	3858 Jan 29 01:06	27° る 11'45		minimum elong	3859 Jan 08 03:05	17° る 21'28	1°53'47
direct	3858 Feb 03 10:11	24°₹49'39		min. Earth dist.	3859 Jan 08 04:16	17° る 17'22	0.67973 AU
direct	3858 Feb 12 22:16	0°≈		morning rise	3859 Jan 13 09:07	11°る03'05	0.07773710
morning max el	3858 Feb 14 05:17	1°≈15'36	23°51'47	direct	3859 Jan 18 03:17	9° ප 03'08	
desc. node	3858 Feb 21 12:14	9°≈40'24	23 31 17	morning max el	3859 Jan 27 16:12	14°る40'23	22°23'14
dese. node	3858 Mar 07 23:16	0° ∀		desc. node	3859 Feb 08 09:16	29° る 04'54	
morning set	3858 Mar 21 18:02	22°) 13'20		dese. node	3859 Feb 09 01:12	0°≈	
max. Earth dist.	3858 Mar 25 13:56	28° H 53'55	1.38499 AU		3859 Feb 28 23:08	0° ∀	
	3858 Mar 26 04:47	0°Υ		morning set	3859 Mar 02 06:47	2° ₩ 08'17	
				max. Earth dist.	3859 Mar 07 10:36	10°) (41'53	1.40667 AU
superior conj	3858 Apr 01 21:14	12° Υ 17'55	-1°38'44				
minimum elong	3858 Apr 02 01:56		1°38'11	superior conj	3859 Mar 15 05:33	24°) 16'40	-1°58'30
evening rise	3858 Apr 10 22:14	29° Y 50'12		minimum elong	3859 Mar 15 09:31	24°) 34'27	
Č	3858 Apr 11 00:14	0°8		Č	3859 Mar 18 09:12	$0^{\circ}\Upsilon$	
asc. node	3858 Apr 13 08:39	4° 8 33'58		evening rise	3859 Mar 25 09:33	13° Υ 04'52	
evening max el	3858 Apr 27 07:54	26° 8 21'25	18°52'16	asc. node	3859 Mar 31 05:42	23° Y 52'11	
Č	3858 May 02 22:03	$\Pi^{\circ}0$			3859 Apr 03 19:52	0°8	
retrograde	3858 May 05 16:20	0° Ⅱ 26'26		evening max el	3859 Apr 10 14:06	8° 8 58'15	18°19'50
evening set	3858 May 07 19:44	0° Ⅱ 11'22		retrograde	3859 Apr 17 20:01	12° 8 34'34	
Č	3858 May 08 12:50	30° ₹ 8		evening set	3859 Apr 20 05:55	12° 8 11'34	
inferior conj	3858 May 15 20:06	25° 8 53'06	1°18'42	inferior conj	3859 Apr 27 11:10	7° 8 33'20	2°33'28
minimum elong	3858 May 15 22:56	25° 8 48'00	1°17'45	minimum elong	3859 Apr 27 14:49	7° 8 25'37	
min. Earth dist.	3858 May 19 00:38	23° 8 36'28	0.56993 AU	min. Earth dist.	3859 Apr 30 21:40	4° 8 40'58	0.58998 AU
desc. node	3858 May 20 11:25	22° 8 39'02		morning rise	3859 May 04 20:52	1° 8 57'48	
morning rise	3858 May 23 22:55	20° 8 47'42		desc. node	3859 May 07 08:27	0° 8 51'32	
direct	3858 May 29 07:28	19° 8 38'42		direct	3859 May 11 02:12	0° 8 13'48	
morning max el	3858 Jun 12 15:24	27° 8 05'46	26°04'12	morning max el	3859 May 25 11:33	8° 8 00'41	27°13'36
C	3858 Jun 15 10:39	$\Pi^{\circ}0$		C	3859 Jun 11 02:28	$\Pi^{\circ}0$	
	3858 Jul 05 02:24	0°ಲ		morning set	3859 Jun 25 04:40	26° Ⅱ 17'52	
asc. node	3858 Jul 10 07:56	10° © 32'19			3859 Jun 26 22:41	0ಂತಾ	
morning set	3858 Jul 10 19:45	11° © 34'32		asc. node	3859 Jun 27 04:57	0° © 33'36	
superior conj	3858 Jul 17 18:49	26°©42'55	1°11'11	superior conj	3859 Jul 02 06:40	11° © 37'52	0°51'04
minimum elong	3858 Jul 17 16:29	26°530'04	1°10'48	minimum elong	3859 Jul 02 04:40	11° © 26'51	0°50'41
max. Earth dist.	3858 Jul 18 10:46	28° © 10'39	1.32265 AU	max. Earth dist.	3859 Jul 01 22:28	10° © 52'38	1.32031 AU
	3858 Jul 19 06:41	$0^{\circ}\Omega$		evening rise	3859 Jul 09 02:40	26° © 30'54	
evening rise	3858 Jul 24 18:12	11° Ω 46′03			3859 Jul 10 18:37	0 $^{\circ}$ Ω	
	3858 Aug 03 03:54	0°Щ			3859 Jul 27 21:04	0°Щ	
desc. node	3858 Aug 16 10:41	20°m/35'12		desc. node	3859 Aug 03 07:42	8°Mp 13'56	
	3858 Aug 24 15:43	0∘ ⊽		evening max el	3859 Aug 07 00:58	12° Mp 06'47	26°16'54
evening max el	3858 Aug 25 01:11	0° £ 22'38	27°08'23	retrograde	3859 Aug 21 00:19	19°M) 16'34	
retrograde	3858 Sep 07 21:46	7° £ 35'27		evening set	3859 Aug 27 13:05	17° m 31'39	
evening set	3858 Sep 15 00:12	5° Ω 19'15		min. Earth dist.	3859 Aug 31 14:00	14° m 56'33	0.59304 AU
min. Earth dist.	3858 Sep 18 15:30	2° £ 36'06	0.61370 AU	inferior conj	3859 Sep 03 20:39	12° Mp 26'22	
inferior conj	3858 Sep 21 18:13	29° m 52'25		minimum elong	3859 Sep 04 00:58	12° Mp 18'05	4°53'24
minimum elong	3858 Sep 22 00:07	29° m 39'27	4°10'42	morning rise	3859 Sep 11 15:02	7° m 54'51	
	3858 Sep 21 14:47	30°RM)		direct	3859 Sep 14 00:49	7° Mp 34'47	10022142
morning rise	3858 Sep 29 01:50	24° m 58'11		morning max el	3859 Sep 21 21:23	11° m/22'34	18°23'40
direct	3858 Oct 01 10:31	24° m 35'10		asc. node	3859 Sep 23 04:12	12° Mp 42'02	
asc. node	3858 Oct 06 07:11	26° Mp 16'39	17057112	. ,	3859 Oct 04 06:18	0° ⊽	
morning max el	3858 Oct 08 11:57	28° Mp 07'04	1/~5/12	morning set	3859 Oct 07 21:19	6° £ 51'58	
. ,	3858 Oct 10 05:47	0° ʊ			2050 0 + 16 22 22	240 0 04151	102402
morning set	3858 Oct 24 07:08	22° £ 59'31		superior conj	3859 Oct 16 23:33	24° £ 04'51	1°24'02
	3858 Oct 28 03:06	0°M		minimum elong	3859 Oct 17 03:09	24° £ 21'29	1°23'41
	2050 N 02 15.14	1.19 M 2.7120	0050155	Fauth diat	3859 Oct 20 05:45	0°M 7°M 2€122	1 40500 ATT
superior conj	3858 Nov 03 15:14	11°MJ36'30	0°58'55 0°58'24	max. Earth dist.	3859 Oct 24 11:30	7°M26'33	1.40508 AU
minimum elong	3858 Nov 03 19:23	11°M.54'39		evening rise	3859 Oct 28 22:47	14°M 58'57	
max. Earth dist.	3858 Nov 11 04:12	24°M24'29	1.42454 AU	desc. node	3859 Oct 30 07:00	17° M ₊11'17 0° √	
desc. node	3858 Nov 12 10:00	26°M26'54 0°⊀			3859 Nov 07 09:49 3859 Nov 29 08:55	್ರಿಸ್ ರ∘×್	
avaning rise	3858 Nov 14 14:29			avanina may al			23020152
evening rise	3858 Nov 17 10:14	4° ≯ 30'25		evening max el	3859 Dec 02 11:50	3°る20'22	25 30 55
ovenie 1	3858 Dec 04 09:18	0°る 10° 3 44'10	22011100	retrograde	3859 Dec 13 02:33	9° る 36'53	
evening max el	3858 Dec 19 21:05	19° る 44'10	22°11'09	evening set	3859 Dec 18 03:13	7° る 31'58	
retrograde	3858 Dec 29 08:48	25° る 22'57		asc. node	3859 Dec 20 03:28	5° る 31'14	0.67024 411
asc. node	3859 Jan 02 06:26	24°る01'41		min. Earth dist.	3859 Dec 23 01:02	1°る47'57	
evening set	3859 Jan 02 20:54	23°₹34'06	1054124	inferior conj	3859 Dec 23 12:57	1°る07'08	1°08'03
inferior conj	3859 Jan 08 05:18	17° る 13'44	1~54'34	minimum elong	3859 Dec 23 11:27	1° る 12'19	150/2/

	3859 Dec 24 08:40	30°R ✓		minimum elong	3860 Dec 06 18:35	15° ₹ '04'02	0°15'30
morning rise	3859 Dec 24 08:40 3859 Dec 28 19:38	25° ₹ 100'33		transit middle	3860 Dec 06 18:35	15° × 04'02	0°15'39
direct	3860 Jan 01 23:36	23° x ⁷ 23'24			3860 Dec 06 17:52	15° × 04'02	0 13 39
	3860 Jan 10 08:46	28° 🖈 14'28	21901107	transit begin transit end	3860 Dec 06 17:32 3860 Dec 06 19:18	15°×'0023	
morning max el	3860 Jan 12 00:43	28 メ *1428	21 0107		3860 Dec 10 19:18	9° ×702'31	
JJ.		0°る 18°る57'42		morning rise	3860 Dec 12 06:42 3860 Dec 15 21:55	, ,, ,_,,	
desc. node	3860 Jan 26 06:17			direct		7°×746'30	10051104
	3860 Feb 02 16:05	0° ≈		morning max el	3860 Dec 23 09:07	12° ₹ 00'14	19°51'04
morning set	3860 Feb 09 15:45	10°≈46'14	1 42640 411		3861 Jan 06 00:29	0°る	
max. Earth dist.	3860 Feb 17 13:14	23°≈22'48	1.42648 AU	desc. node	3861 Jan 12 03:18	9°る11'23	
	3860 Feb 21 13:32	0° ℋ		morning set	3861 Jan 18 11:43	18°る55'09	
					3861 Jan 25 14:36	0° ≈	
superior conj	3860 Feb 24 15:31	5° ₩ 11'36		max. Earth dist.	3861 Jan 29 23:50	6° ≈ 55'53	1.44181 AU
minimum elong	3860 Feb 24 16:00	5° ∺ 13'36	2°07'24				
evening rise	3860 Mar 07 06:30	25°) 35′40		superior conj	3861 Feb 03 23:46	14° ≈ 57'34	
	3860 Mar 09 17:29	0°Υ		minimum elong	3861 Feb 03 18:20	14° ≈ 35'34	1°59'45
asc. node	3860 Mar 17 02:44	12° Y 43'16			3861 Feb 13 02:08	0° ∀	
evening max el	3860 Mar 24 01:08	21° Y 58'55	18°07'10	evening rise	3861 Feb 17 08:44	7° ∺ 15'00	
retrograde	3860 Mar 30 16:01	25° Y 22′23			3861 Mar 03 06:40	$0^{\circ}\Upsilon$	
evening set	3860 Apr 02 08:12	24° Ƴ 49'12		asc. node	3861 Mar 03 23:46	0° Ƴ 59'03	
inferior conj	3860 Apr 08 21:44	19° Ƴ 50'30	3°17'06	evening max el	3861 Mar 07 13:55	5° Ƴ 15'35	18°13'35
minimum elong	3860 Apr 09 00:11	19° Ƴ 44'33	3°16'45	retrograde	3861 Mar 14 00:06	8° Ƴ 40'34	
min. Earth dist.	3860 Apr 12 01:41	16° Ƴ 47'09	0.61184 AU	evening set	3861 Mar 16 22:10	7° Y 55'53	
morning rise	3860 Apr 15 14:15	13° Ƴ 55'34		inferior conj	3861 Mar 22 23:56	2° Y 37'33	3°35'29
direct	3860 Apr 22 08:24	11° Y 37'53		minimum elong	3861 Mar 23 00:36	2° Y 35'43	3°35'28
desc. node	3860 Apr 23 05:29	11° Y 40'06			3861 Mar 25 09:29	30°₽ Ж	
morning max el	3860 May 06 13:49	19° Ƴ 34'43	27°48'21	min. Earth dist.	3861 Mar 25 14:26	29°) (46′50	0.63254 AU
	3860 May 15 10:43	$6^{\circ}B$		morning rise	3861 Mar 29 02:00	26°) €31'47	
	3860 Jun 02 22:53	Π $^{\circ}$ 0		direct	3861 Apr 04 23:33	23°) (50′47	
morning set	3860 Jun 08 09:25	10° Ⅱ 45'50		desc. node	3861 Apr 10 02:30	25°) €07'19	
asc. node	3860 Jun 13 01:59	20° Ⅱ 40′16			3861 Apr 16 23:33	0° Y	
max. Earth dist.	3860 Jun 14 08:46	23° Ⅲ 27'18	1.32202 AU	morning max el	3861 Apr 18 21:01	1° Y '48'49	27°45'32
				C	3861 May 09 16:34	0° ႘	
superior conj	3860 Jun 15 17:24	26° Ⅱ 25'36	0°27'27	morning set	3861 May 23 07:46	24° 8 51'26	
minimum elong	3860 Jun 15 16:11	26° Ⅱ 18'55	0°27'10	Č	3861 May 25 20:26	0° I I	
8	3860 Jun 17 08:29	0ಂತ		max. Earth dist.	3861 May 28 13:52	5° ∏ 42'34	1.32799 AU
evening rise	3860 Jun 22 13:45	11°520'18		asc. node	3861 May 30 23:01	10° ∏ 48'14	
* · · · · · · · · · · · · · · · · · · ·	3860 Jul 02 01:18	0°N			,		
evening max el	3860 Jul 18 17:36	23° £ 04′26	24°57'27	superior conj	3861 May 31 01:16	11° Ⅱ 00'24	0°01'00
desc. node	3860 Jul 20 04:43	24°Ω24'52	,	minimum elong	3861 May 31 01:13	11° I 100'07	
	3860 Jul 30 19:53	0° m)		behind sun begin	3861 May 30 19:57	10° Ⅲ 31'44	
retrograde	3860 Aug 01 16:26	0°m/08'02		behind sun end	3861 May 31 06:29	11° Ⅲ 28'31	
101108111110	3860 Aug 03 13:00	30°R Ω		evening rise	3861 Jun 07 01:33	26° I 08'00	
evening set	3860 Aug 07 02:02	29° Ω 01'39		evening rise	3861 Jun 08 21:47	0°50	
min. Earth dist.	3860 Aug 12 05:09	_	0.57323 AU		3861 Jun 26 23:22	$0^{\circ}\Omega$	
inferior conj	3860 Aug 15 03:44	24°Ω18'48		evening max el	3861 Jun 30 06:42	3° Ω 32'27	23°22'20
minimum elong	3860 Aug 15 03:44	24°Ω19'14		desc. node	3861 Jul 07 01:44	8° Ω 35'27	23 22 20
morning rise	3860 Aug 23 07:23	20° Ω 09'15	3 07 30	retrograde	3861 Jul 13 19:46	10° Ω 18'56	
direct	3860 Aug 25 21:18	19° Ω 50'05		evening set	3861 Jul 17 17:30	9°Ω45'35	
morning max el	3860 Sep 03 22:15	24° Ω 04'58	19°11'18	min. Earth dist.	3861 Jul 24 16:23	6° Ω 34'01	0.55754 AU
morning max ci	3860 Sep 08 22:19	0° m)	17 11 10	inferior conj	3861 Jul 26 14:54	5° Ω 25'28	
asc. node	3860 Sep 09 01:13	0°Mp10'14		minimum elong	3861 Jul 26 08:41	5° Ω 34'40	4°43'28
morning set	3860 Sep 20 20:40	21° Mp 10'42		morning rise	3861 Aug 04 02:15	1° Ω 31'50	4 43 28
morning set	3860 Sep 25 06:57	0° ت		direct	•	1° Ω 11'53	
	3800 Sep 23 00.37	0 ==			3861 Aug 06 22:53	6° Ω 05'31	20°20'36
aumorior coni	2060 Cam 20 01:46	79 0 25146	1°38'39	morning max el asc. node	3861 Aug 17 11:55	18° Ω 27'30	20 20 30
superior conj	3860 Sep 29 01:46	7° £ 25'46	1°38'31	asc. node	3861 Aug 26 22:14	0° m	
minimum elong	3860 Sep 29 03:49	7° £ 35'40		marning act	3861 Sep 02 05:09		
max. Earth dist.	3860 Oct 05 15:46	19° £ 47'34	1.38420 AU	morning set	3861 Sep 05 02:11	5° Mp 47′23	
evening rise	3860 Oct 09 10:49	26° £ 32'17		annori	2061 0 12 16 56	210m-24/50	1044!14
daga == -1-	3860 Oct 11 11:03	0°M		superior conj	3861 Sep 12 16:56	21°Mp24'59	1°44'14
desc. node	3860 Oct 16 04:01	7°M49'13		minimum elong	3861 Sep 12 17:18	21° Mp 26'52	1-44-14
	3860 Oct 30 23:16	0° ⊼	24040112	T 4 11 1	3861 Sep 17 00:44	0° 亞	1 26442 437
evening max el	3860 Nov 14 00:37	17°×701'18	24°49'12	max. Earth dist.	3861 Sep 17 22:15	1° Ω 43'58	1.36442 AU
retrograde	3860 Nov 25 16:18	23° × ⁷ 47'48		evening rise	3861 Sep 21 20:00	9° £ 04'17	
evening set	3860 Dec 01 06:36	21° × ⁷ 27'39	0.68520 : **	desc. node	3861 Oct 03 01:02	28° Ω 15'40	
min. Earth dist.	3860 Dec 05 20:22	16° 🖈 17'33	0.67528 AU		3861 Oct 04 03:24	0°M	
asc. node	3860 Dec 06 00:28	16° ₹ 04'01	0015440		3861 Oct 26 19:20	0° ₹	25050150
inferior conj	3860 Dec 06 18:59	15° ∡ 02'44	0°15'48	evening max el	3861 Oct 27 13:03	0° ∡ 143'43	25°58'50

retrograde	3861 Nov 09 01:07	7° ∡ ¹49'55		avaning sat	3862 Oct 29 21:21	18°M56'24	
				evening set			0.65702 ATT
evening set	3861 Nov 15 05:19	5° ₹ 16'55	0.66500.433	min. Earth dist.	3862 Nov 02 21:00	14°M57'37	
min. Earth dist.	3861 Nov 19 11:47	0° ∡ ¹42'09	0.66789 AU	inferior conj	3862 Nov 04 18:33	12°M45'24	
	3861 Nov 20 01:19	30°RM		minimum elong	3862 Nov 04 21:22	12°M37'13	1°40'05
inferior conj	3861 Nov 20 21:30	28°M56'41	-0°41'07	asc. node	3862 Nov 09 18:31	7°M48'02	
minimum elong	3861 Nov 20 22:36	28°M53'16	0°40'38	morning rise	3862 Nov 10 22:11	7° ™ 06'03	
asc. node	3861 Nov 22 21:30	26°M31'07		direct	3862 Nov 13 17:39	6°M22'38	
morning rise	3861 Nov 26 16:17	23°M05'25		morning max el	3862 Nov 20 06:30	9° ™ 54'37	18°17'00
direct	3861 Nov 29 20:34	22°M07'33		_	3862 Dec 04 07:50	0° ∡ ¹	
morning max el	3861 Dec 06 16:59	25°M55'06	18°55'56	morning set	3862 Dec 09 08:11	8° ≯ 08'01	
morning max or	3861 Dec 10 06:17	0° ⊼ ¹	10 23 30	desc. node	3862 Dec 16 21:21	20°×17'56	
morning got	3861 Dec 28 20:00	27° х 48'46		desc. Hode	3862 Dec 23 00:01	20×1730 0°る	
morning set					3862 Dec 23 00:01	0.0	
desc. node	3861 Dec 30 00:19	29° ∡ 39'35				_	
	3861 Dec 30 05:32	0°ಕ		superior conj	3862 Dec 24 11:57	2° る 21'37	
max. Earth dist.	3862 Jan 12 16:33	21° る 05'03	1.45073 AU	minimum elong	3862 Dec 24 05:37	1° る 56'42	0°49'35
				max. Earth dist.	3862 Dec 26 11:53	5° る 29'57	1.45230 AU
superior conj	3862 Jan 14 09:28	23° る 46'02	-1°33'08	evening rise	3863 Jan 09 17:40	27° る 46'33	
minimum elong	3862 Jan 14 00:15	23° る 09'46	1°32'14	-	3863 Jan 11 03:48	0° ≈	
	3862 Jan 18 08:06	0° ≈		greatest brilliancy	3863 Jan 21 02:11	15° ≈ 25'52	-0.7m
evening rise	3862 Jan 29 12:35	17° ≈ 57'33		greatest similare y	3863 Jan 31 10:45	0° ∀	0.7111
evening rise	3862 Feb 05 22:32	0° ∺		avanina may al	3863 Feb 02 10:00	2° ★ 11'05	10920120
				evening max el			19 20 20
asc. node	3862 Feb 18 20:48	18°) €28'46		asc. node	3863 Feb 05 17:50	4°) € 59'38	
evening max el	3862 Feb 19 01:36	18° ∺ 41'07	18°38'20	retrograde	3863 Feb 09 12:35	6° ∺ 15′22	
retrograde	3862 Feb 25 16:07	22°) € 20′22		evening set	3863 Feb 12 23:39	5° ₩ 05'19	
evening set	3862 Feb 28 20:14	21°) €23'24			3863 Feb 17 21:19	30°R≈	
inferior conj	3862 Mar 06 13:47	15°) (46′55	3°34'48	inferior conj	3863 Feb 18 11:54	29° ≈ 12'57	3°19'44
minimum elong	3862 Mar 06 12:54	15°) 49'35	3°34'45	minimum elong	3863 Feb 18 09:58	29°≈19'12	3°19'25
min. Earth dist.	3862 Mar 08 12:39	13°) €25'42	0.65010 AU	min. Earth dist.	3863 Feb 19 19:36	27°≈30'14	0.66364 AU
morning rise	3862 Mar 12 05:04	9°) 35'38	***************************************	morning rise	3863 Feb 23 20:01	22° ≈ 59'14	
direct	3862 Mar 18 21:56	6° X 45'10		direct	3863 Mar 02 02:42	20°≈12'21	
							26004100
desc. node	3862 Mar 27 23:32	10°) (42′10	25000122	morning max el	3863 Mar 14 16:34	27°≈40'58	26°04'09
morning max el	3862 Apr 01 06:44		27°08'23	desc. node	3863 Mar 14 20:35	27°≈51'08	
	3862 Apr 13 20:17	$0^{\circ}\mathbf{\Upsilon}$			3863 Mar 16 21:13	0° ∀	
	3862 May 02 09:16	0°B			3863 Apr 07 13:01	0° Y	
morning set	3862 May 06 20:50	8° 8 26'04		morning set	3863 Apr 19 20:45	21° Ƴ 18′27	
max. Earth dist.	3862 May 11 10:06	17° 8 28'54	1.33843 AU	max. Earth dist.	3863 Apr 23 18:58	28° Ƴ 44'50	1.35351 AU
	•				3863 Apr 24 10:27	0°8	
superior conj	3862 May 15 04:16	25° 8 15'59	-0°27'26		1	_	
minimum elong	3862 May 15 05:41	25° 8 23'29		superior conj	3863 Apr 28 23:56	9° 8 05'16	0°56'31
minimum clong	3862 May 17 10:00	0°II	0 27 00		3863 Apr 29 02:57	9° 8 20'35	
	•			minimum elong	•	_	0 33 37
asc. node	3862 May 17 20:05	0° Д 53'34		asc. node	3863 May 04 17:08	20° 8 51'47	
evening rise	3862 May 22 12:15	10° Ⅱ 47'55		evening rise	3863 May 06 19:50	25° 8 13'21	
	3862 Jun 01 12:06	0			3863 May 09 04:17	Π $^{\circ}0$	
evening max el	3862 Jun 11 23:40	14° © 01'43	21°47'15	evening max el	3863 May 25 03:07	25° Ⅱ 00′26	20°24'27
desc. node	3862 Jun 23 22:45	20°9512'04			3863 Jun 02 06:18	0ಂ ತಾ	
retrograde	3862 Jun 24 12:03	20°512'47		retrograde	3863 Jun 05 01:23	0°\$20'28	
evening set	3862 Jun 27 02:39	19° © 57'28		evening set	3863 Jun 07 01:17	0°910'32	
inferior conj	3862 Jul 06 11:22	15° © 54'58	-3°28'41	<i>3</i> - 1 - 1	3863 Jun 07 22:35	30°R∏	
minimum elong	3862 Jul 06 02:59	16°506'42		desc. node	3863 Jun 10 19:48	29° I I02'56	
•				inferior conj	3863 Jun 16 05:36		1025147
min. Earth dist.	3862 Jul 06 02:59	16°506'41	0.54909 AU	,		26° Ⅱ 12'36	
morning rise	3862 Jul 15 04:41	12°502'45		minimum elong	3863 Jun 16 01:05	26° Ⅱ 19'11	
direct	3862 Jul 18 10:26	11° © 39'45		min. Earth dist.	3863 Jun 17 15:07		0.55007 AU
morning max el	3862 Jul 30 13:58	17° © 21'39	21°49'32	morning rise	3863 Jun 24 23:50	22° Ⅱ 00'57	
	3862 Aug 09 12:36	$0 { m ^o} \Omega$		direct	3863 Jun 28 20:29	21° ∏ 28'46	
asc. node	3862 Aug 13 19:18	7° Ω 22'19		morning max el	3863 Jul 12 07:12	28° Ⅱ 00'35	23°31'04
morning set	3862 Aug 20 11:38	20° Ω 36′00			3863 Jul 14 07:01	0ಂತಾ	
C	3862 Aug 24 22:33	0° m		asc. node	3863 Jul 31 16:22	26°5944'18	
		· '4			3863 Aug 02 07:28	0°Ω	
superior conj	3862 Aug 27 17:14	5° m 51'46	10/12/22	morning set	3863 Aug 04 23:03	5° Ω 29'35	
	•	-		morning set	3003 Aug 04 23.03	J 062933	
minimum elong	3862 Aug 27 16:14	5° Mp 46'33	1°42'20		20/2 4 11 22 22	200 02	102 411 7
max. Earth dist.	3862 Aug 31 11:44	13° m 38'57	1.34755 AU	superior conj	3863 Aug 11 23:33	20° Ω 35'25	1°34'17
evening rise	3862 Sep 04 22:07	22° Mp 24'41		minimum elong	3863 Aug 11 21:39	20° Ω 25'12	
	3862 Sep 08 23:27	0∘ ⊽		max. Earth dist.	3863 Aug 14 09:58	25° Ω 47'26	1.33457 AU
desc. node	3862 Sep 19 22:04	18° ≏ 25′10			3863 Aug 16 10:08	0° m	
	3862 Sep 27 21:01	0° M.		evening rise	3863 Aug 19 12:50	6° ™ 20'47	
evening max el	3862 Oct 10 01:38	14°M21'09	26°52'11	-	3863 Sep 01 13:34	0∘ ⊽	
retrograde	3862 Oct 23 04:37	21°M37'14		desc. node	3863 Sep 06 19:06	8° ഫ 09'10	
J					-r		

evening max el	3863 Sep 22 13:27	27° £ 42'30	27°22'18	desc. node	3864 Aug 23 16:07	27° mp 17'03	
C	3863 Sep 25 03:17	0° M.			3864 Aug 25 16:14	0∘ ⊽	
retrograde	3863 Oct 06 02:22	5°M00'49		evening max el	3864 Sep 03 22:44	10° ≏ 35'42	27°23'00
evening set	3863 Oct 13 04:04	2°M20'26		retrograde	3864 Sep 17 17:35	17° ≙ 51'09	
	3863 Oct 15 20:25	30° Ŗ Ω		evening set	3864 Sep 24 22:05	15° ≏ 22'43	
min. Earth dist.	3863 Oct 16 21:51	28° ≏ 56′08	0.64260 AU	min. Earth dist.	3864 Sep 28 12:45	12° ≏ 27'16	0.62493 AU
inferior conj	3863 Oct 19 07:41	26° ≏ 23'20	-2°42'30	inferior conj	3864 Oct 01 10:02	9° ≏ 43'41	-3°41'28
minimum elong	3863 Oct 19 12:14	26° ≙ 11'18	2°40'51	minimum elong	3864 Oct 01 15:48	9° ჲ 30'02	3°39'46
morning rise	3863 Oct 25 21:38	20° ≏ 58'53		morning rise	3864 Oct 08 11:09	4° £ 37'21	
asc. node	3863 Oct 27 15:35	20° ₽ 29'21		direct	3864 Oct 10 20:27	4° £ 11'41	
direct	3863 Oct 28 10:37	20° ≏ 26′07		asc. node	3864 Oct 13 12:38	4° £ 44'50	
morning max el	3863 Nov 03 22:52	23° ≏ 51'50	17°55'03	morning max el	3864 Oct 17 15:02	7° ≏ 39'16	17°50'58
	3863 Nov 08 21:21	0°M			3864 Nov 01 04:30	0°M₊	
morning set	3863 Nov 21 00:42	19° ™ 50'08		morning set	3864 Nov 02 15:40	2°M36'51	
	3863 Nov 27 01:18	0° ∡					
desc. node	3863 Dec 03 18:23	11° ∡ 02'26		superior conj	3864 Nov 13 21:32	22°M16'27	0°39'21
				minimum elong	3864 Nov 14 01:01	22°M31'09	0°38'52
superior conj	3863 Dec 04 04:02	11° ∡ ′41′29			3864 Nov 18 12:37	0°⊀	
minimum elong	3863 Dec 04 03:42	11° ∡ ′40′09	0°02'44	desc. node	3864 Nov 19 15:24	1° ∡ °49'42	
behind sun begin	3863 Dec 03 17:39	10° ≯ 59'28		max. Earth dist.	3864 Nov 20 21:44		1.43409 AU
behind sun end	3863 Dec 04 13:45	12° ≯ 20'46		evening rise	3864 Nov 28 16:52	16° ₹ 15'11	
max. Earth dist.	3863 Dec 09 06:24	19° ∡ ′51'17	1.44647 AU		3864 Dec 07 17:35	0°ප	
	3863 Dec 15 17:35	0°る		evening max el	3864 Dec 29 11:33	29° る 16'05	21°27'20
evening rise	3863 Dec 20 06:17	7° る 00'07			3864 Dec 30 05:12	0° ≈	
	3864 Jan 04 12:27	0° ≈		retrograde	3865 Jan 07 08:18	4° ≈ 31'52	
evening max el	3864 Jan 16 13:31	15° ≈ 42'58	20°17'42	asc. node	3865 Jan 09 11:54	4°≈06'43	
asc. node	3864 Jan 23 14:52	20°≈16′52		evening set	3865 Jan 11 13:48	2° ≈ 52'26	
retrograde	3864 Jan 24 10:44	20° ≈ 20'36			3865 Jan 14 08:59	30°Rる	
evening set	3864 Jan 28 06:07	18° ≈ 56′26		inferior conj	3865 Jan 16 22:05	26° ⋜ 36'40	
inferior conj	3864 Feb 02 15:26	12° ≈ 50'51	2°53'32	minimum elong	3865 Jan 16 19:39	26° ප 45'07	2°17'33
minimum elong	3864 Feb 02 13:00	12° ≈ 59'07	2°52'56	min. Earth dist.	3865 Jan 17 03:44	26°る17'08	0.67839 AU
min. Earth dist.	3864 Feb 03 09:25	11° ≈ 49'55	0.67299 AU	morning rise	3865 Jan 22 01:19	20°る24'19	
morning rise	3864 Feb 07 19:40	6°≈36'56		direct	3865 Jan 27 04:06	18°る11'06	22012110
direct	3864 Feb 13 13:05	4°≈03'38	2.40.42(2.1	morning max el	3865 Feb 06 10:14	24° る 16'42	23°13'40
morning max el	3864 Feb 25 01:18	10°≈56'33	24°42'31		3865 Feb 11 12:42	0° ≈	
desc. node	3864 Feb 29 17:38	16°≈07'21		desc. node	3865 Feb 15 14:39	5°≈10'59	
	3864 Mar 11 05:55	0°) €		. ,	3865 Mar 04 16:44	0°) {	
. ,	3864 Mar 30 05:54	0°Υ 2° Ω 1.422		morning set	3865 Mar 13 07:26	13° ¥ 56'32	1.39426 AU
morning set	3864 Apr 01 02:24	3°Υ14'32	1 27266 ATT	max. Earth dist.	3865 Mar 17 12:22	21°π06'39 0°Υ	1.39426 AU
max. Earth dist.	3864 Apr 04 17:33	9 1 40 10	1.37266 AU		3865 Mar 22 12:33	U- Y	
	2064 A 11 00.12	2200020127	1924/20		2965 Mar. 25, 02.59	4° Ƴ 50'24	1940100
superior conj	3864 Apr 11 09:12 3864 Apr 11 13:32	22° Υ 20'27 22° Υ 41'31		superior conj minimum elong	3865 Mar 25 03:58 3865 Mar 25 08:37	5°Υ11'56	
minimum elong	3864 Apr 15 06:26	0° 8	1 23 42	evening rise	3865 Apr 03 15:33	22° Υ 52'34	1 4/42
evening rise	3864 Apr 19 21:55	9° 8 17'46		asc. node	3865 Apr 07 11:14	0° 8 09'04	
asc. node	3864 Apr 20 14:12	10° 8 38'51		asc. node	3865 Apr 07 09:18	0°8	
asc. node	3864 May 01 08:50	0° Ⅱ		evening max el	3865 Apr 19 20:48	18° 8 59'54	18036'04
evening max el	3864 May 06 18:53	6° П 41'11	19°20'10	retrograde	3865 Apr 27 16:18	22° 8 50'13	10 30 04
retrograde	3864 May 15 23:54	11° Д 09'50	17 20 10	evening set	3865 Apr 29 22:33	22° 8 32'03	
evening set	3864 May 18 00:02	10° Д 58'01		inferior conj	3865 May 07 14:30		1°54'25
inferior conj	3864 May 26 11:56	6° П 50'17	0°21'06	minimum elong	3865 May 07 18:03	17° 8 58'53	1°53'21
minimum elong	3864 May 26 12:49	6° П 48'49	0°20'46	min. Earth dist.	3865 May 10 23:38	15° 8 31'04	0.57808 AU
desc. node	3864 May 27 16:50	6° Ⅱ 02'33	0 20 10	desc. node	3865 May 14 13:52	13° 8 12'29	0.57000710
min. Earth dist.	3864 May 29 05:45	5° П 02'30	0.56050 AU	morning rise	3865 May 15 10:21	12° 8 46'35	
morning rise	3864 Jun 03 22:38	2° I 05'01	0.00000110	direct	3865 May 21 04:47	11° 8 22'53	
direct	3864 Jun 08 17:34	1° Ⅱ 12'31		morning max el	3865 Jun 04 13:43	18° 8 59'30	26°37'24
morning max el	3864 Jun 22 21:11	8° ∏ 24'04	25°12'13		3865 Jun 13 20:35	0°II	·
	3864 Jul 08 21:30	0°95			3865 Jul 01 09:00	0. 0	
asc. node	3864 Jul 17 13:26	16°526'14		morning set	3865 Jul 03 21:09	5° © 11'24	
morning set	3864 Jul 19 10:46	20°523'07		asc. node	3865 Jul 04 10:29	6°521'52	
	3864 Jul 23 21:34	0°Ω			5000 0. 10.27	2102	
				superior conj	3865 Jul 10 21:09	20°524'09	1°03'07
superior conj	3864 Jul 26 09:31	5° Ω 28'25	1°20'57	minimum elong	3865 Jul 10 18:54	20° © 11'45	1°02'43
minimum elong	3864 Jul 26 07:12	5° Ω 15'45	1°20'38	max. Earth dist.	3865 Jul 11 02:31	20°953'45	1.32117 AU
max. Earth dist.	3864 Jul 27 15:50	8° Ω 14'04	1.32581 AU		3865 Jul 15 06:19	0° Ω	
evening rise	3864 Aug 02 12:37	20° Ω 42'39		evening rise	3865 Jul 17 18:36	5° Ω 21'23	
	3864 Aug 07 04:37	0° my			3865 Jul 30 20:08	0° my	
		4				4	

daga mada	2065 Aug 10 12:00	150 mm 24100		dasa mada	3866 Jul 28 10:10	20 m, 20112	
desc. node	3865 Aug 10 13:08	15° Mp 34'09	26950122	desc. node		2° Mp 39'12	25946100
evening max el	3865 Aug 17 02:54	22° m/48'32	26°50'32	evening max el	3866 Jul 29 23:37	4° m/ 12'21	25°46'00
retrograde	3865 Aug 31 00:59	29° m 59'32		retrograde	3866 Aug 12 22:54	11° m 19'29	
evening set	3865 Sep 06 23:02	27° m 55'41		evening set	3866 Aug 19 01:59	9° m ,50'39	
min. Earth dist.	3865 Sep 10 17:01	25° Mp 17'52	0.60494 AU	min. Earth dist.	3866 Aug 23 11:45	-	0.58433 AU
inferior conj	3865 Sep 13 22:17	22°M 37'56	-4°32'11	inferior conj	3866 Aug 26 16:47	4° m 55'18	-5°04'50
minimum elong	3865 Sep 14 03:50	22° Mp 26'23	4°31'05	minimum elong	3866 Aug 26 19:31	4° Mp 50′22	5°04'38
morning rise	3865 Sep 21 10:33	17° m 52'48		morning rise	3866 Sep 03 15:17	0° m/33'26	
direct	3865 Sep 23 19:18	17° m 31'17		direct	3866 Sep 06 02:41	0° mp 13'49	
asc. node	3865 Sep 30 09:41	20° m 27'04		morning max el	3866 Sep 14 09:56	4° m 11'21	18°41'20
morning max el	3865 Oct 01 03:49	21° mp 09'01	18°05'56	asc. node	3866 Sep 17 06:42	7° m) 20'58	
morning max er	3865 Oct 07 21:06	0° ⊡	10 03 30	morning set	3866 Sep 30 17:23	0° £ 15'19	
				morning set	•	0∘ ರ	
morning set	3865 Oct 16 22:53	16° Ω 10'11			3866 Sep 30 14:14	0-22	
	3865 Oct 24 10:05	0°M					
				superior conj	3866 Oct 09 09:38	17° ≏ 00'22	1°31'26
superior conj	3865 Oct 26 17:02	4°M07'35	1°10'57	minimum elong	3866 Oct 09 12:39	17° ≏ 14'30	1°31'11
minimum elong	3865 Oct 26 21:10	4° ™ 26′02	1°10'27	max. Earth dist.	3866 Oct 16 14:40	0°M08'25	1.39622 AU
max. Earth dist.	3865 Nov 03 08:36	17° M 22'27	1.41663 AU		3866 Oct 16 12:45	0° M	
desc. node	3865 Nov 06 12:25	22°M36'35		evening rise	3866 Oct 20 15:44	7° IL 06'44	
evening rise	3865 Nov 08 17:13	26°M₁10'46		desc. node	3866 Oct 24 09:27	13° M L18'54	
S	3865 Nov 11 02:42	0° ∡ ¹			3866 Nov 04 03:43	0° ∡ ¹	
	3865 Dec 01 12:50	0°ਰ		evening max el	3866 Nov 24 18:21	26° х 30′11	24°04'41
evening max el	3865 Dec 12 04:42	· <u> </u>	22°44'49	evening max er	3866 Nov 28 17:14	20×3011 0°る	24 0441
•			22 44 49	. 1			
retrograde	3865 Dec 22 03:44	18°る46'30		retrograde	3866 Dec 05 19:49	3°る00'12	
evening set	3865 Dec 26 21:04	16° る 50'52		evening set	3866 Dec 11 02:20	0° る 48'24	
asc. node	3865 Dec 27 08:55	16° る 25'00			3866 Dec 11 23:25	30°Ŗ ⋌ ¹	
inferior conj	3866 Jan 01 05:54	10° る 28'22	1°35'37	asc. node	3866 Dec 14 05:56	27° ∡ ¹25'34	
minimum elong	3866 Jan 01 03:55	10°る35'12	1°34'53	min. Earth dist.	3866 Dec 15 20:33	25° ∡ 18'56	0.67804 AU
min. Earth dist.	3866 Jan 01 00:12	10° る 48'04	0.68004 AU	inferior conj	3866 Dec 16 13:04	24° ∡ ¹23'05	0°46'33
morning rise	3866 Jan 06 10:40	4° る 19'19		minimum elong	3866 Dec 16 11:59	24° ∡ ¹26'45	0°46'07
direct	3866 Jan 10 22:47	2° る 28'58		morning rise	3866 Dec 21 21:39	18° ∡ 19'12	
morning max el	3866 Jan 19 23:04	7° る 45'08	21°47'03	direct	3866 Dec 25 20:01	16° х 51′25	
desc. node	3866 Feb 02 11:40	24°る49'02	21 17 03	morning max el	3867 Jan 02 18:57	21°×724'55	20°29'42
desc. node		24 ⊙ 49 02 0° ≈		morning max ci		21 × 24 33	20 29 42
. ,	3866 Feb 06 02:14			1 1	3867 Jan 09 22:58	0 る 14°る51'49	
morning set	3866 Feb 21 07:38	23°≈15'56		desc. node	3867 Jan 20 08:41		
	3866 Feb 25 11:26	0° ∀			3867 Jan 30 08:06	0° ≈	
max. Earth dist.	3866 Feb 27 11:29	3° ∺ 18′25	1.41561 AU	morning set	3867 Jan 31 08:25	1° ≈ 34'06	
				max. Earth dist.	3867 Feb 09 18:07	16° ≈ 25'22	1.43372 AU
superior conj	3866 Mar 07 03:23	16°) €23'38	-2°03'55				
minimum elong	3866 Mar 07 06:14	16° ¥ 36′11	2°03'49	superior conj	3867 Feb 16 02:37	26° ≈ 49'41	-2°06'33
	3866 Mar 14 17:11	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	3867 Feb 16 00:43	26° ≈ 41'48	2°06'30
evening rise	3866 Mar 17 21:13	5° Ƴ 49'36			3867 Feb 18 00:07	0° ₩	
asc. node	3866 Mar 25 08:14	19° Ƴ 16'31		evening rise	3867 Feb 28 10:48	18° ¥ 00'23	
uov. 110 uv	3866 Apr 01 13:29	0°8		evening rise	3867 Mar 07 08:02	0°Υ	
evening max el	3866 Apr 03 05:27	1° 8 47'53	18°12'01	asc. node	3867 Mar 12 05:15	7° Υ 54'07	
•	=	5° 8 16'41	16 12 01			14° Y 56'31	18°07'31
retrograde	3866 Apr 10 03:24	4° 8 49'23		evening max el	3867 Mar 17 17:32	14 γ 36 31 18° γ 19'17	16 0/31
evening set	3866 Apr 12 16:11			retrograde	3867 Mar 24 05:20		
inferior conj	3866 Apr 19 14:14	0° 8 02'05	2°55'29	evening set	3867 Mar 26 23:59	17° Y ′41'22	
minimum elong	3866 Apr 19 17:31	29° Y 54'42	2°54'49	inferior conj	3867 Apr 02 08:01	12° Y ′33′52	
	3866 Apr 19 15:09	30° ₹Ƴ		minimum elong	3867 Apr 02 09:42		
min. Earth dist.	3866 Apr 22 23:00	27° Y 02'15	0.59933 AU	min. Earth dist.	3867 Apr 05 06:38	9° Y 33'27	0.62089 AU
morning rise	3866 Apr 26 16:26	24° Ƴ 17'16		morning rise	3867 Apr 08 17:56	6° Ƴ 33'15	
desc. node	3866 May 01 10:52	22° Y 26'48		direct	3867 Apr 15 14:26	4° Υ ′04'22	
direct	3866 May 03 04:24	22° Ƴ 18′27		desc. node	3867 Apr 18 07:54	4° Y °25'59	
	3866 May 17 08:26	0° ႘		morning max el	3867 Apr 29 17:16	12° Y ′02'51	27°51'48
morning max el	3866 May 17 12:22		27°33'02		3867 May 13 22:10	0°8	. 30
morning max or	3866 Jun 07 21:04	0°II	2, 33 02		3867 May 31 05:16	0°II	
morning set		0 H 19°H48'47		morning sat	•	0 П 4°П09'06	
morning set	3866 Jun 18 04:31			morning set	3867 Jun 02 06:54		1 22 402 433
asc. node	3866 Jun 21 07:31	26° Ⅱ 25'58		max. Earth dist.	3867 Jun 07 23:02	16° Ⅱ 04'29	1.32402 AU
	3866 Jun 22 23:00	0°€		asc. node	3867 Jun 08 04:32	16° Ⅱ 34'16	
max. Earth dist.	3866 Jun 24 14:14	3° © 34'57	1.32056 AU				
				superior conj	3867 Jun 09 18:26	19° Ⅱ 59'57	0°16'31
superior conj	3866 Jun 25 08:41	5° © 16'26	0°41'26	minimum elong	3867 Jun 09 17:40	19° Ⅱ 55'46	0°16'21
minimum elong	3866 Jun 25 06:57	5° 5 06'59	0°41'05		3867 Jun 14 08:25	0 \circ \odot	
evening rise	3866 Jul 02 04:24	20° © 09'03		evening rise	3867 Jun 16 16:03	4° © 59'09	
Č				Č			
	3866 Jul 06 23:36	$0^{\circ}\Omega$			3867 Jun 29 22:53	0°&2	
	3866 Jul 06 23:36 3866 Jul 26 00:06	0° №		evening max el	3867 Jun 29 22:53 3867 Jul 11 13:48	0° Ω 14° Ω 53'58	24°17'57

Secondary Seco	desc. node	3867 Jul 15 07:10	18° Ω 03'51		behind sun end	3868 May 24 05:04	4° ∏ 51'54	
evening fast 38 of Nay 0. 50 0. 40 0.						•		
min faridatidation inferior continination (inferior continuation) (1972 and 1972 and 197	•					•		
inferior 3867 Aug of 15.12 16.9228-1 078095 079025 078000 078000 079000	•			0 56584 AU	evening rise	•		
minimationing moming rise of sear and a sea		=			evening max el			22°41'02
morning mare 886 Aug 15 2222 12 27 18 seeing mare 886 Aug 16 123 17 1273 19 18 14 seeing mare 886 Aug 16 123 17 19 18 18 18 18 18 18 18 1	3	•			evening man er			22 .1 02
direct 3867 Aug 18 1453 127,08903 returning man and 8867 Jul 28 105 127,2373 1914 verning set 1888 Jul 18 12 1816 17,02003 197,2373 1914 verning set 1868 Jul 18 12 1816 17,02003 197,2373 1914 verning set 1868 Jul 18 12 1816 3687 Sep 10 1914 147,842 Jul 18 18 18 18 18 18 18 18 18 18 18 18 18	•	=			desc. node			
morning mark 886 X ag 90 022 10 - 23 19 - 18 19 19 19 19 19 19 19	-	•						
Second S		•		19°38'14	Č			
moming set patch in the patch in	=	3867 Sep 04 03:45	25° Ω 11'56			3868 Jul 12 18:16	30° ℝ ∽	
Section 1967 1972		3867 Sep 07 02:12	0° m		min. Earth dist.	3868 Jul 16 11:28	28° © 02'18	0.55286 AU
Superior corp 3867 Sep 22 17-57 0*A 9479 1*4200 direct 386 Aug 9 1505 22*92179 0*26*00 minimum clong 3867 Sep 22 19-16 0*A 94609 1*4158 meming max el 3866 Aug 9 1505 22*92179 0*26*00 3866 Aug 9 1505 22*92179 0*26*00 3866 Aug 9 1506 22*92179 0*26*00	morning set	3867 Sep 14 19:41	14° m 42'43		inferior conj	3868 Jul 17 19:00	27° © 17'13	-4°18'21
supprior conj minimum clong 1 3867 Sep 2 11757 (1946) 0°A.9198 (1946) 194108 (1946) 3868 Aug 1 1 0732 (1952) 23°290737 (1952) 20°20 (1952)		3867 Sep 22 09:56	0∘ ⊽		minimum elong	3868 Jul 17 11:06	27° 5 28'33	4°16'37
minimal elong 3867 Sign 2 Bits 20°4 Along 1°4 Sign 2 Liys 40°4 Along morning max el 3868 Aug 10 1,503 20°2 Big 30 0°5 Color 10°2 Liys 10°3 Along 20°5					morning rise	3868 Jul 26 09:12	23° 5 26'17	
max. Earth dist 3867 Oct 02 1312 12°4 16732 1.3754 9 AU sec. nede 3868 Aug 10 07.20 0°40 sec. nede 3868 Aug 20 03.60 29°40/21 centing may 3867 Oct 10 6283 3°8.50 3°8.50 3°8.50 3°8.50 10°8.20 3°8.50 3°8.70 3°8.70 4°8.70<	superior conj	3867 Sep 22 17:57	0° ₽ 39'39	1°42'00	direct	3868 Jul 29 08:59	23° © 05'37	
evening rised 3567 Oct 10 2 13:12 19°-Buf0001 asc. node 3867 Oct 11 66:28 3"BL234 evening may 3868 Aug 29 03:06 29°-D24'52 centing may 3867 Oct 11 16:28 3"BL234 morning set 3868 Aug 29 03:05 29°-D24'52 centing may 3867 Oct 12 00°-53 0"-P4 morning may 3867 Nov 19 00°-30 10°-P4 1172 25°-2013 superior conj 3868 Sep 05 13:10 14°-By5150 144116 evening max 3867 Nov 29 14:28 0"P4*157 minitimum dong 3867 Nov 20 14:28 0"P4*157 max. Earth dist 3868 Sep 10 03:33 24°-B007-10 144116 minitimum dong 3867 Nov 30 18:02 0"P4*157 o"P0*45 desc. node 3868 Sep 13 04:39 0"A 0"A minitimum dong 3867 Nov 30 18:02 8"P1*16 0"P0*45 desc. node 3868 Sep 30 02:151 0"B 0"B 0"A 0"D 0"A 0"B 0"A 0"D 0"A 0"D 0"A 0"B 0"A	minimum elong	3867 Sep 22 19:16	0° ≙ 46′09	1°41'58	morning max el	3868 Aug 09 15:05	28° © 19'30	20°56'20
Second S	max. Earth dist.	3867 Sep 28 18:59	12° ≏ 15'32	1.37549 AU		3868 Aug 11 07:32	$0^{\circ}\Omega$	
Seek node	evening rise	3867 Oct 02 13:12	19° ≙ 06'01		asc. node	3868 Aug 21 00:49	13° Ω 46′23	
cevening max el 3867 Ord 29 07:53 0°.24 10°.24°1127 2°.25°20′13 superior conj 3868 Sep 05 13:05 14°.19570 1°.44°16 1°.25°20′13 18°.24°16 1°.25°20′13 18°.24°16 1°.25°20′13 18°.24°16 1°.25°20′13 18°.24°16 1°.25°20′13 18°.25°20°13 18°.25°20°13 18°.25°20°13 18°.25°20°13 18°.25°20°13 18°.25°20°13 18°.25°20°13 18°.25°20°13 18°.25°20°13 18°.25°20°13 18°.25°20°13 18°.25°20°13 18°.25°20°13 18°.25°20°13 18°.25°20°1		3867 Oct 08 21:31	0° M		morning set	3868 Aug 29 03:06	29° Ω 24'52	
evening max el 3867 Nov 07 06.37 10° 31127 2° 2°013 3868 Sep 03 13.26 14° 18° 50°30 14'416 16° 18° 50°30 14'416 16° 18' 18' 18' 18' 18' 18' 18' 18' 18' 18'	desc. node	3867 Oct 11 06:28	3°M52'34			3868 Aug 29 09:55	0° ™	
Part		3867 Oct 29 07:53	0°⊀					
Pernin Server	evening max el	3867 Nov 07 06:37	10° ∡ 11′27	25°20'13	superior conj	3868 Sep 05 13:26	14° m 51'50	1°44'16
min. Earth dist. 3867 Nov 30 14.28 9°x 4652 (3 c.7255 AU evening rise 3868 Sep 13 04.39 0°x 2 c. 20007 inferior conj 3867 Nov 30 18.02 8°x 1776 (0°7045) desc. node 3868 Sep 1 30 4.39 24°421236 transit middle 3867 Nov 30 18.02 8°x 1776 (0°7045) evening max el 3868 Sep 1 30 21.51 0°x 1 transit edid 3867 Nov 30 18.02 8°x 1776 (0°7045) evening max el 3868 Oct 28 02.04 0°x 1 ass. node 3867 Nov 30 18.02 8°x 1776 (0°7045) evening max el 3868 Nov 01 14:33 22°m 1.078 (0°704) morning rise 3867 Doc 09 18:34 1°x 1491 (0°704) evening set 3868 Nov 01 14:33 1°x 1000 (0°704) direct 3867 Doc 09 18:34 1°x 1491 (0°704) evening set 3868 Nov 08 00:11 28°m 1.000 (0°704) greatest brilliane 3867 Doc 09 18:34 1°x 1491 (0°704) min. Earth dist. 3868 Nov 13 18:20 22°m 1.079 (0°704) desc. node 3868 Jan 10 06:38 9°E31217 asc. node 3868 Nov 13 18:20 22°m 1.079 (0°704) desc. node 3868 Jan 20 07:23 0°x 145124	retrograde	3867 Nov 19 07:41	17° ∡ 08'17		minimum elong	3868 Sep 05 13:10	14° m 50'30	1°44'16
inferior conj 3867 Nov 30 17.50 8°,3°,18°14 - 0°07.49 evening rise 3868 Sep 14 06.08 2°,200007 chance 2°,4°,2°,2°,2° 2°,4°,2° 368 Or 20°,2° 368 Or 20°,2° 2°,4°,2° 368 Or 20°,2° 368	evening set	3867 Nov 25 04:00	14° ∡ °41′57		max. Earth dist.	3868 Sep 10 03:33	24° Mp 06'36	1.35677 AU
minimum elong 3867 Nov 30 18:02 8° № 1736 0°0745 desc. node 3868 Sep 27 03:30 24° № 1235 - 10° № transit middle 3867 Nov 30 18:02 8° № 2733 0°0745 sevening max el 3868 Oct 19:05 23° № 2545 26° 24° 11 asc. node 3867 Dec 01 02:58 7° № 348° 3 retrograde 3868 Nov 05 18:22 30° № 10° № 22° № 12 10° № 20° № 3688 Nov 05 18:22 30° № 10° № <td>min. Earth dist.</td> <td>3867 Nov 29 14:28</td> <td>9°х 46′52</td> <td>0.67255 AU</td> <td></td> <td>3868 Sep 13 04:39</td> <td>0∘⊽</td> <td></td>	min. Earth dist.	3867 Nov 29 14:28	9° х 46′52	0.67255 AU		3868 Sep 13 04:39	0∘ ⊽	
transit bidgin 3867 Nov 30 18.02 8°×1756 0°745 evening max 4868 Sep 30 21.51 0°III 1526 26°2401 transit begin 3867 Nov 30 15.35 8°×2753 evening max 3868 Oct 20 19 19.05 23°IE.245 26°2401 asc. node 3867 Dec 01 02.58 7°×248*3 retrograde 3868 Nov 01 14.33 11°±0 150 18°±0 150 <td>inferior conj</td> <td>3867 Nov 30 17:50</td> <td>8°≯18'14</td> <td>-0°07'49</td> <td>evening rise</td> <td>•</td> <td>2°ഫ00'07</td> <td></td>	inferior conj	3867 Nov 30 17:50	8° ≯ 18'14	-0°07'49	evening rise	•	2° ഫ 00'07	
transit begin	•	3867 Nov 30 18:02			desc. node	-		
transit end 3867 Nov 30 2029 8° 20040 1° 20° 20° 38° 30° 10° 20° 20° 20° 20° 20° 20° 20° 20° 20° 2				0°07'45		•		
Sac. node 3867 Dec 0 02:58 7°,48°43 retrograde 3868 Nov 0 14:33 0°,20° 30°,811 roming rise 3867 Dec 06 82:40 1°,27° 1°,2	•	3867 Nov 30 15:35			evening max el			26°24'01
moming rise 3867 Dec 06 08:20 2°×21'140 vereing set 3868 Nov 05 18:22 30°RIL 2°RIL 2°RIL 4°RIL 4°RIL 4°RIL 2°RIL 4°RIL 2°RIL 2°RIL 2°RIL 4°RIL 2°RIL 2°RIL 4°RIL 2°RIL 4°RIL 2°RIL 4°RIL 2°RIL 4°RIL 2°RIL 4°RIL 2°RIL 2°RIL 4°RIL 2°RIL 4°RIL 2°RIL 4°RIL 2°RIL 4°RIL 4°R								
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superior conj 3868 May 24 00:30 4° II 27'35 -0° 10'55 morning max el 3869 Mar 24 11:56 7° ★28'52 26° 43'45 minimum elong 3868 May 24 01:03 4° II 30'30 0° 10'48 3869 Apr 10 23:11 0° ❤		3868 May 21 22:02	$\Pi^{\circ}0$			3869 Mar 13 10:10		
minimum elong 3868 May 24 01:03 4°Ⅲ30'30 0°10'48 3869 Apr 10 23:11 0°℃								
		•			morning max el			26°43'45
behind sun begin 3868 May 23 21:03 4°Щ09′08 3869 Apr 28 16:29 0° ठ	•			0°10'48		•		
	behind sun begin	3868 May 23 21:03	4°Щ09'08			3869 Apr 28 16:29	0° 8	

morning set	3869 Apr 29 09:46	1° 8 21'47		morning set	3870 Apr 12 02:35	13° Y 51′56	
max. Earth dist.	3869 May 03 15:56	9° 8 39'41	1.34431 AU	max. Earth dist.	3870 Apr 15 19:59	20° Y 46′22	1.36128 AU
					3870 Apr 20 14:22	9° 8	
superior conj	3869 May 08 00:46	18° 8 33'24	-0°39'46				
minimum elong	3869 May 08 02:52	18° 8 44'18	0°39'21	superior conj	3870 Apr 21 16:27	2° 8 09'36	-1°08'35
asc. node	3869 May 11 22:38	26° 8 44'43		minimum elong	3870 Apr 21 20:06	2° 8 27'46	1°07'58
	3869 May 13 11:45	Π $^{\circ}0$		asc. node	3870 Apr 28 19:42	16° 8 39'00	
evening rise	3869 May 15 13:15	4° Ⅱ 18'54		evening rise	3870 Apr 29 18:48	18° 8 36'31	
	3869 May 29 22:10	0°€			3870 May 05 14:09	Π $\circ 0$	
evening max el	3869 Jun 04 00:31	5° © 58'08	21°10'01	evening max el	3870 May 17 09:19	17° Ⅱ 14'43	19°54'38
retrograde	3869 Jun 15 21:45	11° © 47'52		retrograde	3870 May 27 13:17	22° Ⅱ 11'40	
evening set	3869 Jun 18 03:49	11° © 36'04		evening set	3870 May 29 12:17	22° Ⅱ 01′28	
desc. node	3869 Jun 18 01:14	11° © 37'09		desc. node	3870 Jun 04 22:14	19° Ⅱ 29'54	
inferior conj	3869 Jun 27 12:42	7° 5 37'56	-2°43'34	inferior conj	3870 Jun 07 10:33	18° Ⅲ 00'45	-0°44'39
minimum elong	3869 Jun 27 05:23	7° 5 48'14	2°41'08	minimum elong	3870 Jun 07 08:29	18° Ⅱ 03'54	0°43'54
min. Earth dist.	3869 Jun 27 22:47	7° 5 23'46	0.54837 AU	min. Earth dist.	3870 Jun 09 11:35	16° Ⅱ 46'19	0.55350 AU
morning rise	3869 Jul 06 07:13	3° 5 39'35		morning rise	3870 Jun 16 02:44	13° Ⅱ 36'14	
direct	3869 Jul 09 18:36	3°513'30		direct	3870 Jun 20 08:26	12° Ⅱ 56'53	
morning max el	3869 Jul 22 12:42	9° © 17'34	22°31'44	morning max el	3870 Jul 04 03:38	19° Ⅱ 46′28	24°15'02
	3869 Aug 06 08:35	$0^{\circ}\Omega$		•	3870 Jul 12 18:59	0ංම	
asc. node	3869 Aug 07 21:52	2° Ω 53'46		asc. node	3870 Jul 25 18:56	22°525'34	
morning set	3869 Aug 13 13:34	14° Ω 15'56		morning set	3870 Jul 29 01:21	29° © 10'50	
3				3	3870 Jul 29 10:38	$0^{\circ}\Omega$	
superior conj	3869 Aug 20 16:34	29° Ω 26′28	1°39'38				
minimum elong	3869 Aug 20 15:08	29° Ω 18'50		superior conj	3870 Aug 05 00:43	14° Ω 15'22	1°29'14
	3869 Aug 20 22:54	0° m		minimum elong	3870 Aug 04 22:35	14°Ω03'46	1°28'59
max. Earth dist.	3869 Aug 23 20:43	6° Mp 05'54	1.34156 AU	max. Earth dist.	3870 Aug 06 22:50	18° Ω 24'25	1.33037 AU
evening rise	3869 Aug 28 14:06	15° m 37'08	1.5 1150 110	evening rise	3870 Aug 12 09:06	29° Ω 46′00	1.55057 110
evening rise	3869 Sep 05 08:20	0° ⊡		evening rise	3870 Aug 12 11:52	0° m)	
desc. node	3869 Sep 14 00:33	° – 14° ⊆ 12'15			3870 Aug 29 09:36	0∘ ⊽ ∘ .w	
dese. Hode	3869 Sep 25 12:17	0°M		desc. node	3870 Aug 31 21:34	ა — 3° Ω 42'53	
evening max el	3869 Oct 02 07:43	7°M25'27	27°08'25	evening max el	3870 Sep 14 18:56	20° ⊆ 37'23	27°26'30
retrograde	3869 Oct 15 15:36	14°M42'55	27 00 23	retrograde	3870 Sep 28 10:23	27° ⊆ 53'56	27 2030
evening set	3869 Oct 22 12:36	12°M01'28		evening set	3870 Oct 05 14:21	25° ⊆ 17'14	
min. Earth dist.	3869 Oct 26 09:42	8°M17'27	0.65125 AU	min. Earth dist.	3870 Oct 03 14.21 3870 Oct 09 06:24	23 ⊆ 1714 22° ⊆ 06'15	0.63550 AU
inferior conj	3869 Oct 28 12:20	5°M55'51		inferior conj	3870 Oct 09 00:24 3870 Oct 11 21:16	19° ♀ 27'40	
minimum elong	3869 Oct 28 12:20 3869 Oct 28 15:54	5°M45'50		minimum elong	3870 Oct 11 21:10 3870 Oct 12 02:27	19 ⊆ 27 40 19° ⊆ 14'36	
morning rise	3869 Nov 03 20:11	0°ML22'07	2 03 32	morning rise	3870 Oct 12 02:27 3870 Oct 18 15:54	19 = 14 30 14° ⊆ 10'25	3 00 19
asc. node	3869 Nov 03 20:11 3869 Nov 03 21:06	0°M21'02		direct	3870 Oct 18 13:34 3870 Oct 21 03:06	13° £ 40′56	
asc. Houc	3869 Nov 04 18:41	30°RΩ		asc. node	3870 Oct 21 03:00 3870 Oct 21 18:08	13° 2 42′52	
direct	3869 Nov 06 12:35	29° £ 43'36		morning max el	3870 Oct 27 16:57	13 = 42 32 17° £ 06'07	17°51'05
direct	3869 Nov 08 06:42	0°M		morning max ci	3870 Nov 05 22:23	0° M	17 31 03
morning may al	3869 Nov 13 00:18	3°M11'58	18°05'31	morning set	3870 Nov 13 05:35	12°MJ30'46	
morning max el		0° √ 1	16 03 31	morning set		0° √	
morning set	3869 Nov 30 22:15 3869 Dec 01 02:41	0° ₹ 18'21			3870 Nov 23 11:37	0 X -	
desc. node	3869 Dec 10 23:47	16° ₹ 26'42		aumanian aani	3870 Nov 25 12:31	3° ∡ ¹22'28	0°16'13
desc. node	3809 Dec 10 23.47	10 × 20 42		superior conj minimum elong		3° x °22′28 3° x °22′30	0°15'58
superior conj	3869 Dec 15 10:20	23° ∡ ³32'33	0°20'06	behind sun begin	3870 Nov 25 14:14 3870 Nov 25 12:56	3° х 2930 3° х 24′09	0 13 36
minimum elong	3869 Dec 15 10:20	23° 🖈 17'35		behind sun end	3870 Nov 25 12:30 3870 Nov 25 15:32	3° х °24°09 3° х ³34′52	
max. Earth dist.	3869 Dec 18 20:35	28° х 17 33	1.45070 AU	desc. node		3 x 34 32 7° x 12'55	
max. Earth dist.	3869 Dec 19 12:26	28 x 37 42 0°る	1.43070 AU	max. Earth dist.	3870 Nov 27 20:50 3870 Dec 01 14:38	13° x 14'55	1.44199 AU
avanina rica	3869 Dec 31 18:33	0 3 19° る 05'23		evening rise	3870 Dec 01 14.38 3870 Dec 11 04:18	28° х 14'45	1.44199 AU
evening rise		19 3 03 23		evening rise		28 x・1443	
4 41 711	3870 Jan 07 20:20		0.7		3870 Dec 12 07:41		
greatest brilliancy	3870 Jan 14 00:39	9°≈22'56	-0.7m		3871 Jan 01 17:52	0° ≈	20945150
evening max el	3870 Jan 25 23:19	25°≈17'46	19°43'03	evening max el	3871 Jan 09 00:29	8°≈49'49	20°45'59
asc. node	3870 Jan 30 20:23	29°≈00'39		retrograde	3871 Jan 17 07:02	13°≈43'03	
retrograde	3870 Feb 02 08:54	29°≈34'53		asc. node	3871 Jan 17 17:25	13°≈42'01	
evening set	3870 Feb 05 23:25	28°≈18'51	2000140	evening set	3871 Jan 21 06:36	12°≈12'17	2020122
inferior conj	3870 Feb 11 10:10	22°≈20'42	3°09'48	inferior conj	3871 Jan 26 15:15	6°≈01'49	2°39'33
minimum elong	3870 Feb 11 07:57	22°≈28'01	3°09'22	minimum elong	3871 Jan 26 12:45	6°≈10'23	2°38'53
min. Earth dist.	3870 Feb 12 11:50	20°≈55'42	0.66819 AU	min. Earth dist.	3871 Jan 27 03:44	5°≈19'01	0.67580 AU
morning rise	3870 Feb 16 16:17	16°≈06'57		morning rise	3871 Jan 31 18:45	29° る 48'33	
direct	3870 Feb 22 17:42	13°≈24'47	25020157	1'	3871 Jan 31 13:45	30°Rる	
morning max el	3870 Mar 06 21:04	20°≈39'07	25°30'57	direct	3871 Feb 06 05:58	27° る 23'31	
desc. node	3870 Mar 08 23:00	22°≈50'50			3871 Feb 12 17:58	0° ≈	24007104
	3870 Mar 14 22:30	0° ∀		morning max el	3871 Feb 17 05:39	3°≈56'46	24°05'04
	3870 Apr 04 03:26	0° Y		desc. node	3871 Feb 23 20:01	11° ≈ 28'48	

	3871 Mar 09 04:52	0°) €			3872 Feb 10 02:46	0° ≈	
morning set	3871 Mar 24 22:29	25° ∺ 18′02		desc. node	3872 Feb 10 17:03	0°≈48'28	
	3871 Mar 27 14:58	0 ° $\mathbf{\gamma}$			3872 Mar 01 07:11	0° ∀	
max. Earth dist.	3871 Mar 28 16:26	1° Ƴ 53'19	1.38170 AU	morning set	3872 Mar 04 15:33	5° 升 25'32	
				max. Earth dist.	3872 Mar 09 12:15	13°) 32′58	1.40346 AU
superior conj	3871 Apr 04 20:04	15° Ƴ 06'34	-1°35'07				
minimum elong	3871 Apr 05 00:43	15° Ƴ 28'44	1°34'33	superior conj	3872 Mar 17 07:13	27° ₩ 13'42	-1°56'06
	3871 Apr 12 11:20	9° 8		minimum elong	3872 Mar 17 11:26	27°) 32′50	1°55'48
evening rise	3871 Apr 13 17:41	2° 8 29'26			3872 Mar 18 19:46	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	3871 Apr 15 16:44	6° 8 19'33		evening rise	3872 Mar 27 06:44	15° Ƴ 49'32	
evening max el	3871 Apr 30 05:40	29° 8 11'57	18°58'52	asc. node	3872 Apr 01 13:45	25° Ƴ 41'07	
•	3871 May 01 02:25	$\Pi^{\circ}0$			3872 Apr 04 00:29	0° ႘	
retrograde	3871 May 08 19:14	3° Ⅱ 22'49		evening max el	3872 Apr 12 10:51	11° 8 44'21	18°23'27
evening set	3871 May 10 21:36	3° Ⅱ 08'46		retrograde	3872 Apr 19 19:58	15° 8 23'48	
8	3871 May 17 10:19	30°R ∀		evening set	3872 Apr 22 04:53	15° 8 02'10	
inferior conj	3871 May 19 00:58	28° 8 53'21	1°04'28	inferior conj	3872 Apr 29 12:50		2°24'10
minimum elong	3871 May 19 03:24	28° 8 49'04	1°03'37	minimum elong	3872 Apr 29 16:31	10° 8 19'33	2°23'12
min. Earth dist.	3871 May 22 03:13	26° 8 43'45	0.56725 AU	min. Earth dist.	3872 May 02 23:27	7° 8 38'32	0.58679 AU
desc. node	3871 May 22 03:13	26° 8 17'11	0.30723 AO	morning rise	3872 May 02 23:27 3872 May 07 01:10	4° 8 55'29	0.30077 AC
morning rise	3871 May 27 06:00	23° 8 53'00		desc. node	3872 May 07 01:10	4° 8 10'10	
direct	3871 Jun 01 10:58	23° 8 48'40		direct	3872 May 13 03:54	3° 8 16'42	
direct		0°II			•	_	27905115
	3871 Jun 15 13:07		25051127	morning max el	3872 May 27 13:22	11° 8 01'32	27 05 15
morning max el	3871 Jun 15 18:15	0° Ⅱ 12'17	25°51'27		3872 Jun 11 06:29	0°II	
	3871 Jul 06 12:08	0°9		morning set	3872 Jun 26 22:03	28° Ⅱ 47'45	
asc. node	3871 Jul 12 15:58	12°5514'09			3872 Jun 27 11:46	0°9	
morning set	3871 Jul 13 12:43	14° © 03'11		asc. node	3872 Jun 28 13:01	2° © 14'07	
	2071 1 1 20 11 26	200610124	1012155		2072 1 1 02 22 25	1.40€05125	0054122
superior conj	3871 Jul 20 11:36	29°510'24		superior conj	3872 Jul 03 23:25	14°905'35	
minimum elong	3871 Jul 20 09:15	28°957'31	1°13′32	minimum elong	3872 Jul 03 21:20	13°954'08	0°53'58
The state of	3871 Jul 20 20:38	0°N	1 22222 177	max. Earth dist.	3872 Jul 03 18:41	13°939'31	1.32039 AU
max. Earth dist.	3871 Jul 21 07:16	0° Ω 58′24	1.32333 AU	evening rise	3872 Jul 10 19:40	28° © 59'12	
evening rise	3871 Jul 27 11:49	14° Ω 15'57			3872 Jul 11 07:13	0 $^{\circ}$ Ω	
	3871 Aug 04 12:52	0° т р			3872 Jul 27 21:11	0°Щ	
desc. node	3871 Aug 18 18:35	22° Mp 31'26		desc. node	3872 Aug 04 15:35	10° m 20'47	
	3871 Aug 24 22:05	0 ்⊽		evening max el	3872 Aug 09 03:04	15° Mp 05′28	26°26'34
evening max el	3871 Aug 28 02:08	3° £ 14'00	27°13'11	retrograde	3872 Aug 23 02:18	22° Mp 15'44	
retrograde	3871 Sep 10 22:19	10° ≏ 27'44		evening set	3872 Aug 29 17:49	20° M 25'40	
evening set	3871 Sep 18 01:39	8° ≏ 07'49		min. Earth dist.	3872 Sep 02 16:28	17° m ∕50'21	0.59611 AU
min. Earth dist.	3871 Sep 21 16:29	5° ≙ 21'58	0.61669 AU	inferior conj	3872 Sep 05 23:04	15° Mp 17'00	-4°48'59
inferior conj	3871 Sep 24 18:00	2° £ 37'42	-4°04'27	minimum elong	3872 Sep 06 03:48	15° Mp 07′42	4°48'18
minimum elong	3871 Sep 24 23:55	2° ≏ 24'26	4°02'55	morning rise	3872 Sep 13 15:55	10° m 41'55	
	3871 Sep 27 20:42	30°R, Mp		direct	3872 Sep 16 01:16	10° m 21'35	
morning rise	3871 Oct 01 23:58	27° Mp 40'21		morning max el	3872 Sep 23 18:30	14° Mp 06'36	18°18'23
direct	3871 Oct 04 08:41	27° Mp 16'47		asc. node	3872 Sep 24 12:11	14° m 51'01	
asc. node	3871 Oct 08 15:09	28° M 36'40			3872 Oct 04 15:20	0∘ ত	
	3871 Oct 10 11:42	0∘ ত		morning set	3872 Oct 09 16:34	9° £ 26'36	
morning max el	3871 Oct 11 08:06	0° £ 47'14	17°54'58				
morning set	3871 Oct 27 04:05	25° ≏ 38'52		superior conj	3872 Oct 18 22:39	26° ≏ 50'14	1°20'56
-	3871 Oct 29 13:30	0°M₊		minimum elong	3872 Oct 19 02:26	27° ₽ 07'33	1°20'32
				3	3872 Oct 20 16:29	0° M ₊	
superior conj	3871 Nov 06 17:31	14°MJ31'14	0°54'08	max. Earth dist.	3872 Oct 26 12:08	10°M12'45	1.40813 AU
minimum elong	3871 Nov 06 21:35	14°M48'50		evening rise	3872 Oct 31 04:12	18° M 01'58	
max. Earth dist.	3871 Nov 14 04:06	27° M 04'04		desc. node	3872 Oct 31 14:53	18° M 45'41	
desc. node	3871 Nov 14 17:52	28°M00'26			3872 Nov 07 16:46	0° ∡ 7	
dese. node	3871 Nov 15 23:14	0° %			3872 Nov 29 02:34	0° ਰ	
evening rise	3871 Nov 20 19:01	7° ∡ ¹42'24		evening max el	3872 Dec 04 11:27	5° る 59'18	23°18'58
2 . cg 1100	3871 Dec 05 13:27	0°る		retrograde	3872 Dec 04 11:27 3872 Dec 14 22:13	12°る10'25	
evening max el	3871 Dec 03 13:27 3871 Dec 22 20:07	22°පි23'04	21°59'35	evening set	3872 Dec 14 22:13 3872 Dec 19 20:53	12 ප 1023	
retrograde	3872 Jan 01 03:58	22 පි23 04 27°පි56'10	21 0/00	asc. node	3872 Dec 19 20:33 3872 Dec 21 11:25	8°る34'37	
asc. node	3872 Jan 04 14:25	27 330 10 26°る52'46		inferior conj	3872 Dec 21 11.23 3872 Dec 25 06:22	8 03437 3° 石 43'38	1°15'32
		26°る52'46 26°る09'47				3°る43'38 3°る49'19	1°15′32 1°14′53
evening set	3872 Jan 05 14:18		2001102	minimum elong	3872 Dec 25 04:43		
inferior conj	3872 Jan 10 22:37	19°る50'26		min. Earth dist.	3872 Dec 24 20:04	4°る19'00	0.67955 AU
minimum elong	3872 Jan 10 20:19	19°る58'24			3872 Dec 28 02:53	30°R⊀ ⁷	
min. Earth dist.	3872 Jan 10 23:17	19° る 48'07	0.67948 AU	morning rise	3872 Dec 30 12:28	27° 🗷 36'17	
morning rise	3872 Jan 16 02:12	13° る 39'11		direct	3873 Jan 03 18:31	25° 🖈 55'40	
direct	3872 Jan 20 22:32	11° る 35'46	22027100		3873 Jan 11 09:35	0°る。	21012120
morning max el	3872 Jan 30 15:57	17° る 20'34	22~36'08	morning max el	3873 Jan 12 07:25	0° る 53'03	21~12′39

	2072 1 27 14.05	200=227151			2074 1 14 11 00	100740107	
desc. node	3873 Jan 27 14:05	20° ප 37'51		desc. node	3874 Jan 14 11:09	10°る49'07	
_	3873 Feb 02 22:18	0° ≈		morning set	3874 Jan 22 00:30	22° る 21'59	
morning set	3873 Feb 12 04:06	14° ≈ 13′03			3874 Jan 26 22:25	0° ≈	
max. Earth dist.	3873 Feb 19 13:48	26° ≈ 05'58	1.42380 AU	max. Earth dist.	3874 Feb 01 23:35	9° ≈ 33'19	1.43997 AU
	3873 Feb 21 22:32	0° ₩					
				superior conj	3874 Feb 07 08:57	18° ≈ 15′17	-2°02'22
superior conj	3873 Feb 26 20:48	8° 升 18'56	-2°07'00	minimum elong	3874 Feb 07 04:26	17° ≈ 56'52	2°02'11
minimum elong	3873 Feb 26 22:00	8°) €24'03	2°06'58		3874 Feb 14 10:57	0° ∀	
evening rise	3873 Mar 10 06:03	28° ¥ 27'13		evening rise	3874 Feb 20 11:23	10° ¥ 14'57	
S	3873 Mar 11 02:35	$0^{\circ}\Upsilon$		Ç	3874 Mar 04 07:01	$_{0}$ ° γ	
asc. node	3873 Mar 19 10:46	14° Υ 36'35		asc. node	3874 Mar 06 07:47	2° Υ 58'15	
		24° Υ 42'00	18°07'50		3874 Mar 10 10:05	7°Υ56'44	18°11'23
evening max el	3873 Mar 26 21:23		18 07 30	evening max el			16 11 23
retrograde	3873 Apr 02 13:42	28° Y 06′13		retrograde	3874 Mar 16 20:20	11° Y 20′38	
evening set	3873 Apr 05 05:03	27° Y 34'34		evening set	3874 Mar 19 17:33	10° Ƴ 37'40	
inferior conj	3873 Apr 11 20:41	22° Ƴ 38'52	3°12'15	inferior conj	3874 Mar 25 20:49		3°34'03
minimum elong	3873 Apr 11 23:22	22° Ƴ 32'27	3°11'49	minimum elong	3874 Mar 25 21:45	5° Ƴ 19'28	3°33'59
min. Earth dist.	3873 Apr 15 02:10	19° Ƴ 35'37	0.60863 AU	min. Earth dist.	3874 Mar 28 13:29	2° Y 28'17	0.62965 AU
morning rise	3873 Apr 18 15:38	16° Ƴ 46'21			3874 Mar 31 03:43	30°R ∀	
direct	3873 Apr 25 08:35	14° Y 33'12		morning rise	3874 Apr 01 00:49	29°) (17'25	
desc. node	3873 Apr 25 13:16	14° Υ 33'19		direct	3874 Apr 07 22:23	26°) 39'13	
	3873 May 09 14:39	22° Υ 28'44	27°45'35	desc. node	3874 Apr 12 10:19	27°) (38'10	
morning max el	-		21 43 33	desc. node	•	27 χ38 10 0° Υ	
	3873 May 16 05:59	8°0			3874 Apr 16 13:09		27040110
	3873 Jun 04 09:02	$\Pi^{\circ}0$		morning max el	3874 Apr 21 21:18	4° Υ 37'18	27°48'18
morning set	3873 Jun 11 03:32	13° Ⅱ 18'11			3874 May 10 22:35	9° 8	
asc. node	3873 Jun 15 10:04	22° Ⅲ 20′15		morning set	3874 May 26 03:01	27° 8 27'35	
max. Earth dist.	3873 Jun 17 05:27	26° Ⅱ 15'59	1.32149 AU		3874 May 27 09:05	Π $^{\circ}0$	
				max. Earth dist.	3874 May 31 11:40	8° Ⅲ 35′14	1.32680 AU
superior conj	3873 Jun 18 10:25	28° Ⅱ 54'39	0°31'13	asc. node	3874 Jun 02 07:06	12° Ⅱ 28'13	
minimum elong	3873 Jun 18 09:03	28° Ⅱ 47'10					
g	3873 Jun 18 22:19	0°9	0 3007	superior conj	3874 Jun 02 18:51	13° Ⅱ 31'40	0°05'09
avanina riaa		13° © 48'23				13° Ⅱ 31'40	0°05'06
evening rise	3873 Jun 25 06:29			minimum elong	3874 Jun 02 18:36		0-0506
	3873 Jul 03 09:17	$0^{\circ}\Omega$		behind sun begin	3874 Jun 02 13:37	13° ∏ 03′20	
evening max el	3873 Jul 21 20:50	26° Ω 10'14	25°10'46	behind sun end	3874 Jun 02 23:36	13° Ⅱ 57'21	
desc. node	3873 Jul 22 12:34	26° Ω 47'09		evening rise	3874 Jun 09 18:20	28° Ⅱ 36'48	
	3873 Jul 26 13:00	0° m			3874 Jun 10 10:03	0 \circ ∞	
retrograde	3873 Aug 04 20:00	3° Mp 14'46			3874 Jun 27 13:43	$\mathfrak{O}^{\circ} \mathfrak{O}$	
evening set	3873 Aug 10 10:30	2° Mp 02'41		evening max el	3874 Jul 03 09:59	6° Ω 40'36	23°36'55
C	3873 Aug 14 07:21	30°RΩ		desc. node	3874 Jul 09 09:35	11° Ω 18′18	
min. Earth dist.	3873 Aug 15 08:34		0.57600 AU	retrograde	3874 Jul 17 01:11	13° Ω 30'51	
inferior conj	3873 Aug 18 09:15	27° Ω 16'41		evening set	3874 Jul 21 04:33	12° £ 50'51'	
·	-	$27^{\circ}\Omega 15'39$		•			0.55945 AU
minimum elong	3873 Aug 18 09:51		3 09 33	min. Earth dist.	3874 Jul 27 19:58		
morning rise	3873 Aug 26 11:35	23° Ω 03'56		inferior conj	3874 Jul 29 23:13	8° Ω 29'57	
direct	3873 Aug 29 00:47	22° Ω 44'41		minimum elong	3874 Jul 29 17:48	8° Ω 38′05	4°50'53
morning max el	3873 Sep 06 20:50	26° Ω 54'45	19°02'48	morning rise	3874 Aug 07 09:32	4° Ω 34'53	
	3873 Sep 09 17:01	0° Mp		direct	3874 Aug 10 05:06	4° Ω 15'09	
asc. node	3873 Sep 11 09:15	2° Mp 11'04		morning max el	3874 Aug 20 12:18	9° Ω 02'02	20°08'59
morning set	3873 Sep 23 14:49	23° Mp 42'33		asc. node	3874 Aug 29 06:20	20° Ω 21'54	
	3873 Sep 26 19:00	0∘ ⊽			3874 Sep 03 15:34	0° m	
				morning set	3874 Sep 07 19:38	8° m 17'19	
superior conj	3873 Oct 01 22:34	10° ჲ 04'38	1°37'01	3			
minimum elong	3873 Oct 01 22:54 3873 Oct 02 00:53	10° ⊆ 0438	1°36'53	superior conj	3874 Sep 15 12:09	23° m 59'15	1°43'53
			1.38733 AU		*		1°43'53
max. Earth dist.	3873 Oct 08 16:55	22° Ω 40'49	1.36/33 AU	minimum elong	3874 Sep 15 12:45		1 43 33
evening rise	3873 Oct 12 12:52	29° £ 26'15			3874 Sep 18 12:51	0∘ ⊽	
	3873 Oct 12 20:41	0°M₊		max. Earth dist.	3874 Sep 20 22:50	4° ≏ 40'01	1.36722 AU
desc. node	3873 Oct 18 11:55	9° ™ 25'08		evening rise	3874 Sep 24 19:10	11° ≏ 50'10	
	3873 Nov 01 02:01	0° ∡ ¹		desc. node	3874 Oct 05 08:56	29° ≙ 53'42	
evening max el	3873 Nov 17 00:30	19° ∡ 140′07	24°37'51		3874 Oct 05 10:31	o° m ₊	
retrograde	3873 Nov 28 12:33	26° ₹ 22'24			3874 Oct 27 06:59	0° ∡ ¹	
evening set	3873 Dec 04 00:50	24° ∡ 04'24		evening max el	3874 Oct 30 12:54	3° ₹ 22'28	25°49'12
asc. node	3873 Dec 08 08:27	19° ≯ 13'23		retrograde	3874 Nov 11 22:11	10° ₹ 26'23	
min. Earth dist.	3873 Dec 08 08:27	18° х 49'16	0.67615 AU	evening set	3874 Nov 18 00:24	7° × 2023	
				•			0.66026 411
inferior conj	3873 Dec 09 12:46	17° 🗷 39'22	0°24'07	min. Earth dist.	3874 Nov 22 07:53	3° ₹ 14'56	0.66926 AU
minimum elong	3873 Dec 09 12:11	17° 🗷 41'19	0°23'51	inferior conj	3874 Nov 23 15:58	1° 🖈 33'39	
morning rise	3873 Dec 14 23:36	11° ∡ ³38′06		minimum elong	3874 Nov 23 16:48	1° ∡ ³30′59	0°31'50
direct	3873 Dec 18 16:39	10° ≯ 19'03			3874 Nov 24 22:02	30°RM₊	
morning max el	3873 Dec 26 06:36	14° ≯ 37′23	20°00'36	asc. node	3874 Nov 25 05:31	29°M37'28	
	3874 Jan 07 04:26	8°0		morning rise	3874 Nov 29 09:35	25°M41'02	

direct	3874 Dec 02 15:22	24°ML40'44			3875 Dec 05 14:30	0° ∡ 7	
morning max el	3874 Dec 02 13:22 3874 Dec 09 13:31	28°M31'23	19°03'08	morning set	3875 Dec 03 14:30 3875 Dec 12 13:13	11° × 10'35	
morning max cr	3874 Dec 10 22:53	0° ⊼	17 03 00	desc. node	3875 Dec 19 05:13	21° × ⁷ 52'18	
	3874 Dec 31 12:50	°ਤ ਹ°ਤ		desc. node	3875 Dec 24 08:12	0°る	
morning set	3875 Jan 01 05:34	1° ප 05'14			3073 BCC 21 00.12	° °	
desc. node	3875 Jan 01 08:12	1°る15'28		superior conj	3875 Dec 27 23:33	5° る 43'53	-0°57'30
max. Earth dist.	3875 Jan 15 15:39		1.44986 AU	minimum elong	3875 Dec 27 16:25	5°る15'53	
man. Darvir alov.	3070 0411 10 10.39	23 03002	1.1.900110	max. Earth dist.	3875 Dec 29 10:33	8° ප 01'18	1.45251 AU
superior conj	3875 Jan 17 21:22	27° る 10'18	-1°38'24		3876 Jan 12 11:07	0° ≈	
minimum elong	3875 Jan 17 12:20	26° ප 34'37		evening rise	3876 Jan 13 02:59	1°≈02'17	
	3875 Jan 19 16:15	0° ≈		greatest brilliancy	3876 Jan 23 18:30	17° ≈ 41'37	-0.8m
evening rise	3875 Feb 01 18:47	21° ≈ 06′29		,	3876 Feb 01 05:03	0°) €	
C	3875 Feb 07 05:08	0° ∀		evening max el	3876 Feb 05 07:06	4° 升 50'55	19°13'05
asc. node	3875 Feb 21 04:48	20° ∺ 36′00		asc. node	3876 Feb 08 01:51	7°) 16′39	
evening max el	3875 Feb 21 22:07	21° ∺ 21'34	18°33'29	retrograde	3876 Feb 12 07:31	8° ¥ 51′01	
retrograde	3875 Feb 28 11:31	24° ¥ 58′09		evening set	3876 Feb 15 17:25	7°) 43′03	
evening set	3875 Mar 03 14:40	24°) €03'06		inferior conj	3876 Feb 21 06:18	1° ¥ 52'59	3°22'46
inferior conj	3875 Mar 09 09:14	18°) 29′07	3°35'54	minimum elong	3876 Feb 21 04:30	1°) 58'47	3°22'31
minimum elong	3875 Mar 09 08:33	18°) 31′08	3°35'52	min. Earth dist.	3876 Feb 22 16:14	0°) €04'04	0.66186 AU
min. Earth dist.	3875 Mar 11 10:26	16°) €02'42	0.64770 AU		3876 Feb 22 17:31	30° R ≈	
morning rise	3875 Mar 15 01:52	12° 升 18′16		morning rise	3876 Feb 26 15:16	25° ≈ 39'24	
direct	3875 Mar 21 19:45	9° ∺ 28'23		direct	3876 Mar 03 23:44	22° ≈ 51'07	
desc. node	3875 Mar 30 07:23	12°) 56′29		desc. node	3876 Mar 16 04:25	29° ≈ 53'00	
morning max el	3875 Apr 04 07:00	17°) €20'18	27°15'53		3876 Mar 16 07:15	0°) €	
	3875 Apr 14 20:34	$0^{\circ}\mathbf{\Upsilon}$		morning max el	3876 Mar 16 16:56	0°) 24'14	26°15'04
	3875 May 03 19:10	$6^{\circ}B$			3876 Apr 07 19:40	$0^{\circ}\mathbf{\Upsilon}$	
morning set	3875 May 09 17:45	11° 8 08'03		morning set	3876 Apr 21 19:54	24° Y 07'36	
max. Earth dist.	3875 May 14 09:36	20° 8 27'13	1.33658 AU		3876 Apr 24 22:06	$8^{\circ 0}$	
				max. Earth dist.	3876 Apr 25 20:02	1° 8 46'29	1.35098 AU
superior conj	3875 May 17 22:46	27° 8 50'52	-0°23'02				
minimum elong	3875 May 17 23:57	27° 8 57'09	0°22'48	superior conj	3876 Apr 30 19:41	11° 8 44'31	-0°52'06
	3875 May 18 23:10	$\Pi^{\circ}0$		minimum elong	3876 Apr 30 22:28	11° 8 58'43	0°51'36
asc. node	3875 May 20 04:09	2° Ⅱ 34'14		asc. node	3876 May 06 01:10	22° 8 33'36	
evening rise	3875 May 25 05:22	13° Ⅱ 18'36		evening rise	3876 May 08 13:31	27° 8 46'24	
	3875 Jun 02 17:41	0ංම			3876 May 09 15:34	$\Pi^{\circ}0$	
evening max el	3875 Jun 15 01:47	17° © 07'13	22°00'48	evening max el	3876 May 27 03:27	28° ∏ 00′26	20°35'41
desc. node	3875 Jun 26 06:37	23°519'49			3876 May 29 09:51	0 \circ \odot	
retrograde	3875 Jun 27 19:02	23° 5 25'09		retrograde	3876 Jun 07 08:00	3° 5 28'18	
evening set	3875 Jun 30 13:16	23° © 08'09		evening set	3876 Jun 09 08:50	3° © 18'11	
inferior conj	3875 Jul 09 21:12	19° © 03'28	-3°43'11	desc. node	3876 Jun 12 03:39	2° 5 34'08	
minimum elong	3875 Jul 09 12:43	19° © 15'22	3°40'52		3876 Jun 17 11:23	30°Ŗ Ⅱ	
min. Earth dist.	3875 Jul 09 06:31	19° 5 24'04	0.54976 AU	inferior conj	3876 Jun 18 14:48	29° ∏ 20'43	-1°53'58
morning rise	3875 Jul 18 13:50	15° © 12'22		minimum elong	3876 Jun 18 09:28	29° ∏ 28′25	1°52'04
direct	3875 Jul 21 17:51	14° © 50'09		min. Earth dist.	3876 Jun 19 18:31	28° Ⅱ 40'47	0.54933 AU
morning max el	3875 Aug 02 16:03	20°©24'36	21°35'19	morning rise	3876 Jun 27 09:20	25° Ⅱ 12'55	
	3875 Aug 10 14:13	$0^{\circ}\Omega$		direct	3876 Jul 01 03:19	24° Ⅱ 42'36	
asc. node	3875 Aug 16 03:25	9° Ω 11'29			3876 Jul 13 04:03	0_{\circ} වෙ	
morning set	3875 Aug 23 04:37	23° Ω 04'10		morning max el	3876 Jul 14 10:15	1° 5 07'42	23°15'35
	3875 Aug 26 11:48	0° m)		asc. node	3876 Aug 02 00:27	28° © 29'30	
					3876 Aug 02 18:50	0 \circ Ω	
superior conj	3875 Aug 30 11:18	8° m/22'21	1°43'04	morning set	3876 Aug 06 15:48	7° Ω 56'48	
minimum elong	3875 Aug 30 10:29	8° Mp 18'06	1°43'03				
max. Earth dist.	3875 Sep 03 10:52	16° Mp 32'41	1.34980 AU	superior conj	3876 Aug 13 16:51	23° Ω 03'36	
evening rise	3875 Sep 07 19:01	25° m 03'41		minimum elong	3876 Aug 13 15:03		1°35'43
	3875 Sep 10 10:09	0∘ ⊽		max. Earth dist.	3876 Aug 16 07:38	28° Ω 37'31	1.33621 AU
desc. node	3875 Sep 22 05:57	20° Ω 05'50			3876 Aug 16 23:21	0° т р	
	3875 Sep 28 22:23	0°M	2004	evening rise	3876 Aug 21 08:04	8° m 54'52	
evening max el	3875 Oct 13 01:21	17°ML00'36	26°45'32		3876 Sep 01 20:52	0° ⊽	
retrograde	3875 Oct 26 02:35	24°M16'12		desc. node	3876 Sep 08 02:58	9° £ 54'02	
evening set	3875 Nov 01 17:35	21°M35'59	0.65006.433		3876 Sep 24 02:58	0°M	0.0010141
min. Earth dist.	3875 Nov 05 18:10	17°M31'53		evening max el	3876 Sep 24 13:25	0°M25'08	27~19'41
inferior conj	3875 Nov 07 13:58	15°M23'11		retrograde	3876 Oct 08 01:19	7°M43'43	
minimum elong	3875 Nov 07 16:31	15°M 15'41	1°30'56	evening set	3876 Oct 15 01:54	5°M02'45	0.64400 177
asc. node	3875 Nov 12 02:35	10°M43'28		min. Earth dist.	3876 Oct 18 20:28	1°M33'25	0.64489 AU
morning rise	3875 Nov 13 16:12	9°M41'54			3876 Oct 20 07:26	30°R Ω	2022/20
direct	3875 Nov 16 12:45	8°M56'40	10001141	inferior conj	3876 Oct 21 04:26	29° £ 03'11	
morning max el	3875 Nov 23 02:22	12°M30'30	18°21'41	minimum elong	3876 Oct 21 08:45	28° £ 51'37	2-31.42

morning rise	3876 Oct 27 16:46	23° ≏ 36'13		ovening set	3877 Sep 27 22:01	18° ≏ 08'22	
asc. node	3876 Oct 27 10:40 3876 Oct 28 23:39	23° ⊆ 10'44		evening set min. Earth dist.	3877 Oct 01 12:55	15° ⊆ 09'07	0.62770 AU
direct	3876 Oct 30 06:31	23° ⊆ 02'08		inferior conj	3877 Oct 01 12:35 3877 Oct 04 08:35	13° ⊆ 0707	
morning max el	3876 Nov 05 18:28	26° Ω 28'24	17°57'12	minimum elong	3877 Oct 04 06:33	12° ⊆ 12'55	
morning max or	3876 Nov 08 19:30	0°M	1, 3, 12	morning rise	3877 Oct 11 07:59	7° ≏ 17'07	3 31 13
morning set	3876 Nov 23 01:53	22°M41'42		direct	3877 Oct 13 17:40	6° £ 50'33	
morning sec	3876 Nov 27 10:16	0°×7		asc. node	3877 Oct 15 20:41	7° £ 11'53	
desc. node	3876 Dec 05 02:14	12° ∡ ³36′06		morning max el	3877 Oct 20 10:48	10° ♀ 17'21	17°50'25
					3877 Nov 02 13:32	0°M	
superior conj	3876 Dec 06 12:33	14° ₹ ′54'31	-0°09'50	morning set	3877 Nov 05 13:57	5° ™ 20'03	
minimum elong	3876 Dec 06 11:23	14° √ 49'48	0°09'40	3			
behind sun begin	3876 Dec 06 03:01	14° √ 16'06		superior conj	3877 Nov 17 02:00	25° ™ 17'24	0°33'35
behind sun end	3876 Dec 06 19:45	15° ₹ 23'26		minimum elong	3877 Nov 17 05:07	25°M30'30	0°33'09
max. Earth dist.	3876 Dec 11 05:15	22° х 23'54	1.44779 AU	č	3877 Nov 19 21:49	0° ∡ ¹	
	3876 Dec 16 01:24	0°る		desc. node	3877 Nov 21 23:16	3° ∡ ′23'01	
evening rise	3876 Dec 22 17:19	10° る 19'17		max. Earth dist.	3877 Nov 23 21:27	6° ∡ ³30′26	1.43632 AU
C	3877 Jan 04 16:28	0° ≈		evening rise	3877 Dec 02 03:10	19° ∡ ′31'35	
greatest brilliancy	3877 Jan 06 07:12	2°≈22'58	-0.6m	<i>8</i>	3877 Dec 08 23:48	0°ਰ	
evening max el	3877 Jan 18 11:26	18° ≈ 22'43	20°08'18		3877 Dec 30 15:18	0° ≈	
asc. node	3877 Jan 24 22:53	22° ≈ 45'58		evening max el	3878 Jan 01 10:19	1°≈55'40	21°16'18
retrograde	3877 Jan 26 05:29	22° ≈ 54'49		retrograde	3878 Jan 10 03:11	7°≈05'17	
evening set	3877 Jan 29 23:32	21° ≈ 32'51		asc. node	3878 Jan 11 19:55	6° ≈ 49'35	
inferior conj	3877 Feb 04 09:10	15° ≈ 29'11	2°58'05	evening set	3878 Jan 14 07:07	5°≈28'06	
minimum elong	3877 Feb 04 06:47	15° ≈ 37'15	2°57'33	8	3878 Jan 19 02:02	30°Ŗිට්	
min. Earth dist.	3877 Feb 05 05:08	14° ≈ 21'52	0.67191 AU	inferior conj	3878 Jan 19 15:28	29° る 13'42	2°24'09
morning rise	3877 Feb 09 13:48	9° ≈ 15'14		minimum elong	3878 Jan 19 13:00	29° る 22'14	2°23'24
direct	3877 Feb 15 09:23	6° ≈ 39'17		min. Earth dist.	3878 Jan 19 22:51	28° る 48'12	0.67790 AU
morning max el	3877 Feb 27 01:38	13° ≈ 38'11	24°55'18	morning rise	3878 Jan 24 18:41	23° る 01'07	
desc. node	3877 Mar 03 01:26	18° ≈ 00'07		direct	3878 Jan 29 23:42	20° ප් 44'41	
	3877 Mar 12 08:28	0°) €		morning max el	3878 Feb 09 10:19	26° る 57'19	23°26'55
	3877 Mar 31 15:15	$_0$ ° γ		S	3878 Feb 12 06:17	0° ≈	
morning set	3877 Apr 04 04:33	6° Υ 12'35		desc. node	3878 Feb 17 22:27	6° ≈ 57'18	
max. Earth dist.	3877 Apr 07 19:39	12° Y 47'07	1.36963 AU		3878 Mar 05 23:38	0° ∀	
	·			morning set	3878 Mar 16 13:37	17° ₩ 06'08	
superior conj	3877 Apr 14 06:41	25° Y '05'03	-1°20'17	max. Earth dist.	3878 Mar 20 14:40	24° ∺ 03'10	1.39103 AU
minimum elong	3877 Apr 14 10:51	25° Y 25'30	1°19'40		3878 Mar 23 23:03	$0^{\circ}\mathbf{\Upsilon}$	
-	3877 Apr 16 18:22	0°8					
evening rise	3877 Apr 22 16:32	11° 8 53'58		superior conj	3878 Mar 28 03:53	7° Ƴ 42'16	-1°44'57
asc. node	3877 Apr 22 22:12	12° 8 22'19		minimum elong	3878 Mar 28 08:35	8° Y 04'14	1°44'28
	3877 May 02 10:04	$\Pi^{\circ}0$		evening rise	3878 Apr 06 11:36	25° Y 33'32	
evening max el	3877 May 09 17:28	9° Ⅲ 34'42	19°28'27	-	3878 Apr 08 18:58	9° 8	
retrograde	3877 May 19 04:09	14° Ⅱ 10′07		asc. node	3878 Apr 09 19:13	1° 8 55'18	
evening set	3877 May 21 03:47	13° Ⅱ 58'51		evening max el	3878 Apr 22 18:03	21° 8 48'02	18°41'20
inferior conj	3877 May 29 18:34	9° Ⅱ 53'21	0°04'28	retrograde	3878 Apr 30 17:47	25° 8 43'07	
minimum elong	3877 May 29 18:45	9° Ⅱ 53'02	0°04'24	evening set	3878 May 02 23:03	25° 8 26'04	
transit middle	3877 May 29 18:45	9°∏53′02	0°04'24	inferior conj	3878 May 10 17:54	21° 8 02'35	1°42'19
transit begin	3877 May 29 15:01	9°∏59′03		minimum elong	3878 May 10 21:15	20° 8 56'17	1°41'16
transit end	3877 May 29 22:30	9° Ⅱ 47'00		min. Earth dist.	3878 May 14 01:44	18° 8 33'54	0.57512 AU
desc. node	3877 May 30 00:39	9° ∏ 43'32		desc. node	3878 May 16 21:38	16° 8 43'22	
min. Earth dist.	3877 Jun 01 08:38	8° Ⅱ 13'52	0.55847 AU	morning rise	3878 May 18 16:16	15° 8 48'13	
morning rise	3877 Jun 07 06:56	5° Ⅱ 13'35		direct	3878 May 24 07:23	14° 8 29'50	
direct	3877 Jun 11 22:26	4° Ⅱ 24'46		morning max el	3878 Jun 07 16:02	22° 8 03'10	26°26'25
morning max el	3877 Jun 26 00:10	11° Ⅲ 31′03	24°57'47		3878 Jun 14 15:55	Π $^{\circ}0$	
	3877 Jul 10 02:56	0 \circ \odot			3878 Jul 02 20:37	0 \circ \odot	
asc. node	3877 Jul 19 21:28	18° © 08'31		morning set	3878 Jul 06 14:14	7° ॐ 40′05	
morning set	3877 Jul 22 03:32	22° © 50'20		asc. node	3878 Jul 06 18:30	8° 5 02'35	
	3877 Jul 25 11:24	0 $^{\circ}$ Ω					
				superior conj	3878 Jul 13 13:51	22° 9 51'12	1°06'06
superior conj	3877 Jul 29 02:21	7° Ω 55′20	1°23'17	minimum elong	3878 Jul 13 11:34	22° © 38'36	1°05'42
minimum elong	3877 Jul 29 00:04	7° Ω 42'51	1°22'58	max. Earth dist.	3878 Jul 13 22:54	23° © 41'08	1.32162 AU
max. Earth dist.	3877 Jul 30 12:35	11° Ω 01'48	1.32686 AU		3878 Jul 16 20:00	0 ° Ω	
evening rise	3877 Aug 05 06:41	23° Ω 13′21		evening rise	3878 Jul 20 11:54	7° Ω 50'19	
	3877 Aug 08 15:54	0° m			3878 Aug 01 02:33	0° m	
desc. node	3877 Aug 25 23:59	29° m 07'59		desc. node	3878 Aug 12 20:59	17° m 33'56	
	3877 Aug 26 14:53	0∘ ⊽		evening max el	3878 Aug 20 04:26	25° m 43'02	26°57'27
evening max el	3877 Sep 06 23:20	13° ≏ 23'34	27°25'03		3878 Aug 25 12:41	0∘ ⊽	
retrograde	3877 Sep 20 17:27	20° ≏ 39'13		retrograde	3878 Sep 03 01:54	2° ≏ 54'23	

evening set	3878 Sep 10 01:47	0° £ 46'00		retrograde	3879 Aug 16 01:29	14° m) 21'44	
e venning sec	3878 Sep 11 06:27	30°R.M⊅		evening set	3879 Aug 22 08:19	12° m) 47'03	
min. Earth dist.	3878 Sep 13 18:39		0.60804 AU	min. Earth dist.	3879 Aug 26 14:34		0.58737 AU
inferior conj	3878 Sep 16 23:08	25° m 25'07		inferior conj	3879 Aug 29 20:28	7° m) 48'16	
minimum elong	3878 Sep 17 04:51	25° m 12'58		minimum elong	3879 Aug 29 23:50	7° m) 42'03	
morning rise	3878 Sep 24 09:48	20° m/36'42		morning rise	3879 Sep 06 17:35	3° m 23'06	
direct	3878 Sep 26 18:30	20° m 14'40		direct	3879 Sep 09 04:22	3° m 03'22	
asc. node	3878 Oct 02 17:43	22° m 41'42		morning max el	3879 Sep 17 07:40	6° ™ 57'09	18°34'43
morning max el	3878 Oct 04 00:18	23° m 50'05	18°02'28	asc. node	3879 Sep 19 14:46	9° m 25'38	
	3878 Oct 08 23:28	0 ∘ ⊽			3879 Oct 02 01:19	0∘ ऌ	
morning set	3878 Oct 19 19:04	18° ≏ 47'09		morning set	3879 Oct 03 12:07	2° ≏ 47'49	
	3878 Oct 25 20:55	0° M					
				superior conj	3879 Oct 12 07:42	19° ≙ 42'05	1°28'59
superior conj	3878 Oct 29 17:53	6° ™ 57'40	1°06'52	minimum elong	3879 Oct 12 10:56	19° ≙ 57'11	1°28'42
minimum elong	3878 Oct 29 22:04	7° M .16'11	1°06'22		3879 Oct 17 23:22	0°M₊	
max. Earth dist.	3878 Nov 06 09:09	20°M05'35	1.41949 AU	max. Earth dist.	3879 Oct 19 15:34	2°M56'50	1.39933 AU
desc. node	3878 Nov 08 20:19	24°M09'57		evening rise	3879 Oct 23 19:38	10°M04'44	
evening rise	3878 Nov 12 00:40	29°M18'46		desc. node	3879 Oct 26 17:21	14°M52'57	
	3878 Nov 12 11:00	0° ∡			3879 Nov 05 09:34	0° ∡ ¹	
	3878 Dec 02 14:31	0°る		evening max el	3879 Nov 27 18:02	29° ₹ 07'52	23°52'57
evening max el	3878 Dec 15 04:03	15° る 30'21	22°32'57		3879 Nov 28 15:26	0°る ろ	
retrograde	3878 Dec 24 23:03	21°る19'27		retrograde	3879 Dec 08 15:49	5° そ 33'30	
evening set	3878 Dec 29 14:33	19° ろ 26'08		evening set	3879 Dec 13 20:16	3°る24'02	
asc. node	3878 Dec 29 16:56	19° る 21'10	1040122	asc. node	3879 Dec 16 13:58	0°る31'35	
inferior conj	3879 Jan 03 23:13	13° る 04'19	1°42'33	i. Dandh diad	3879 Dec 17 00:07	30°₹ ⋌ 7	0 (7050 AII
minimum elong	3879 Jan 03 21:08	13° る 11'30	1°41'47	min. Earth dist.	3879 Dec 18 15:41	27° х 49'30	0.67850 AU 0°54'24
min. Earth dist. morning rise	3879 Jan 03 19:07 3879 Jan 09 03:36	13°පි18'30 6°පි54'44	0.68003 AU	inferior conj minimum elong	3879 Dec 19 06:37 3879 Dec 19 05:22	26° ₹ 58'43 27° ₹ 02'58	0°53′53
direct	3879 Jan 13 17:50	5° る 01'02		morning rise	3879 Dec 19 03:22 3879 Dec 24 14:30	20° x 53'54	0 33 33
morning max el	3879 Jan 22 22:25	10°る24'19	21°59'32	direct	3879 Dec 24 14:30 3879 Dec 28 14:45	19° ₹ 22'57	
desc. node	3879 Feb 04 19:30	10 32419 26° る 30'40	21 3932	morning max el	3880 Jan 05 17:11	24° 🖈 02'26	20°40'28
dese. Hode	3879 Feb 07 06:31	20 ⊙ 30 4 0		morning max ci	3880 Jan 10 21:22	0°る	20 40 20
morning set	3879 Feb 24 18:11	26°≈37'44		desc. node	3880 Jan 22 16:35	್ರ 16° ಕ 30'15	
morning sec	3879 Feb 26 20:09	0° ∀		dose. Hode	3880 Jan 31 15:20	0°≈	
max. Earth dist.	3879 Mar 02 12:59	6°) €06'42	1.41255 AU	morning set	3880 Feb 03 21:33	5°≈02'12	
		. ,,,,,,		max. Earth dist.	3880 Feb 12 18:20	19° ≈ 05'21	1.43128 AU
superior conj	3879 Mar 10 06:31	19°) 24'34	-2°02'17				
minimum elong	3879 Mar 10 09:50	19°) 39'14	2°02'06	superior conj	3880 Feb 19 09:39	0° ₩ 01'11	-2°07'14
	3879 Mar 16 03:30	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	3880 Feb 19 08:38	29°≈56'59	2°07'13
evening rise	3879 Mar 20 19:21	8° Y 36'55		-	3880 Feb 19 09:22	0° ∀	
asc. node	3879 Mar 27 16:15	21° Y 06'37		evening rise	3880 Mar 02 11:41	20°) 55′19	
	3879 Apr 02 06:41	8°			3880 Mar 07 15:19	0 ° $\mathbf{\gamma}$	
evening max el	3879 Apr 06 01:54	4° 8 32'03	18°14'20	asc. node	3880 Mar 13 13:17	9° Ƴ 49'25	
retrograde	3879 Apr 13 02:26	8° 8 03'16		evening max el	3880 Mar 19 13:44	17° Ƴ 38'17	18°06'58
evening set	3879 Apr 15 14:11	7° 8 37'32		retrograde	3880 Mar 26 02:26	21° Y 01′05	
inferior conj	3879 Apr 22 14:40	2° 8 53'18	2°48'14	evening set	3880 Mar 28 20:11	20° Y 24'52	
minimum elong	3879 Apr 22 18:07	2° 8 45'43	2°47'28	inferior conj	3880 Apr 04 06:05	15° Y 20′27	
	3879 Apr 25 22:08	30° ₹ Υ		minimum elong	3880 Apr 04 08:03	15° Y 15′29	3°24'04
min. Earth dist.	3879 Apr 26 00:14	29° Y 55'36	0.59601 AU	min. Earth dist.	3880 Apr 07 06:41	12° Y 18′28	0.61777 AU
morning rise	3879 Apr 29 19:29	27° Y 11'31		morning rise	3880 Apr 10 18:14	9° Y 21'32	
desc. node	3879 May 03 18:40	25° Y 34'20		direct	3880 Apr 17 14:04	6° Y 56′20	
direct	3879 May 06 05:15	25° Y 17'53		desc. node	3880 Apr 19 15:43	7° Y 08'45	
	3879 May 17 01:59	0° 8	27027102	morning max el	3880 May 01 17:59	14° Y 54'37	27°51'20
morning max el	3879 May 20 13:50	3° 8 07'42	2/°2/'03		3880 May 13 23:46	0° B	
	3879 Jun 09 04:25	0° П			3880 May 31 16:49	0°П 6°П42'35	
morning set	3879 Jun 20 22:11	22° Ⅱ 19'34		morning set	3880 Jun 04 01:28	18° П 13'19	
asc. node	3879 Jun 23 15:32 3879 Jun 24 12:43	28°Ⅲ05'39 0°©		asc. node max. Earth dist.	3880 Jun 09 12:35 3880 Jun 09 20:08	18° Д 13'19 18° Д 54'08	1.32323 AU
max. Earth dist.	3879 Jun 27 10:44		1.32038 AU	max. Darm UISt.	2000 Jun 09 20.08	10 113408	1.34343 AU
max. Darui dist.	5077 Jun 27 10.44	0 -24232	1.52050 AU	superior conj	3880 Jun 11 11:41	22° II 29'15	0°20'29
superior conj	3879 Jun 28 01:31	7° © 44'20	0°44'57	minimum elong	3880 Jun 11 11:41 3880 Jun 11 10:45	22° I I29'13	0°20'17
minimum elong	3879 Jun 27 23:42	7°934'16	0°44'35		3880 Jun 14 22:05	0°95	V =V 11
evening rise	3879 Jul 04 21:16	22°936'56		evening rise	3880 Jun 18 08:46	7° 5 26'38	
	3879 Jul 08 10:53	0° Ω			3880 Jun 30 02:51	0° Ω	
	3879 Jul 26 14:36	0° mp		evening max el	3880 Jul 13 17:05	18° Ω 00'03	24°32'00
desc. node	3879 Jul 30 17:59	4° m 51'20		desc. node	3880 Jul 16 14:59	20° £ 32'54	
evening max el	3879 Aug 02 02:10	7° m 13'36	25°57'19	retrograde	3880 Jul 27 14:26	25° Ω 01'01	
-	-			-			

	2000 A 01 14.41	249 004120			2001 I 02 20.20	22° I I12'50	
evening set	3880 Aug 01 14:41	24° Ω 04'39	0.56022 ATT	evening rise	3881 Jun 02 20:30	0°95	
min. Earth dist.	3880 Aug 07 04:09		0.56833 AU		3881 Jun 06 14:59		22955126
inferior conj	3880 Aug 09 21:55	19° Ω 27'57		evening max el	3881 Jun 25 06:26	28°925'12	22°55'26
minimum elong	3880 Aug 09 20:00	19° Ω 31'04	5°07'45		3881 Jun 26 23:57	0 ° Ω	
morning rise	3880 Aug 18 03:54	15° Ω 24'06		desc. node	3881 Jul 03 11:59	4° Ω 04'30	
direct	3880 Aug 20 19:24	15° Ω 04'57		retrograde	3881 Jul 08 14:43	5° Ω 04'14	
morning max el	3880 Aug 30 05:44	19° Ω 29'08	19°28'21	evening set	3881 Jul 12 02:24	4° Ω 37'38	
asc. node	3880 Sep 05 11:49	27° Ω 08'41		min. Earth dist.	3881 Jul 19 15:14	1° Ω 16′28	0.55430 AU
	3880 Sep 07 07:41	0° m		inferior conj	3881 Jul 21 04:12	0° Ω 23'07	-4°28'48
morning set	3880 Sep 16 13:26	17° Mp 12'07		minimum elong	3881 Jul 20 20:47	0° Ω 33'51	4°27'20
Ü	3880 Sep 22 22:27	0∘ <u>⊽</u>		Ü	3881 Jul 21 20:14	30°Rூ	
				morning rise	3881 Jul 29 17:25	26° © 31'32	
superior conj	3880 Sep 24 13:58	3° £ 15'03	1°40'59	direct	3881 Aug 01 16:01	26°511'10	
	-			direct	=	0°Ω	
minimum elong	3880 Sep 24 15:33	3° £ 22'47	1°40'54		3881 Aug 11 04:12		20042126
max. Earth dist.	3880 Sep 30 19:41	15° Ω 07'56	1.37850 AU	morning max el	3881 Aug 12 16:12	1° Ω 17'57	20°43'26
evening rise	3880 Oct 04 13:52	21° ≙ 54'56		asc. node	3881 Aug 23 08:53	15° Ω 37'35	
	3880 Oct 09 06:36	0°M₊			3881 Aug 30 22:14	O° Mp	
desc. node	3880 Oct 12 14:22	5°M28′02		morning set	3881 Aug 31 20:18	1°₩52'56	
	3880 Oct 29 07:19	0° ∡ ¹					
evening max el	3880 Nov 09 06:26	12° ∡ ¹48'46	25°09'39	superior conj	3881 Sep 08 08:04	17° m 23'23	1°44'24
retrograde	3880 Nov 21 04:25	19° ∡ ¹42'27		minimum elong	3881 Sep 08 08:02	17° m 23'10	1°44'24
evening set	3880 Nov 26 22:35	17° ∡ 18'13		max. Earth dist.	3881 Sep 13 03:28	27° m 00'53	1.35939 AU
min. Earth dist.	3880 Dec 01 10:11	12° × 17'49	0.67354 AU	man. Bartir dist.	3881 Sep 14 16:30	0∘ ⊽	1.50,50,110
inferior conj	3880 Dec 02 11:53	10° × 53'56	0°00'43	evening rise	3881 Sep 17 04:15	ა — 4° Ω 42'10	
				•	*		
minimum elong	3880 Dec 02 11:52	10° 🖈 53'59	0°00'43	desc. node	3881 Sep 29 11:22	25° £ 50'36	
transit middle	3880 Dec 02 11:52	10° ∡ 53'59	0°00'43		3881 Oct 02 03:27	0°M	
transit begin	3880 Dec 02 09:05	11° ≯ 03'04		evening max el	3881 Oct 22 18:57	26°M31'04	26°15'34
transit end	3880 Dec 02 14:38	10° ₹ 44'56			3881 Oct 26 19:02	0° ∡	
asc. node	3880 Dec 02 11:02	10° ∡ 756'41		retrograde	3881 Nov 04 11:58	3° ∡ ¹41'23	
morning rise	3880 Dec 08 01:22	4° ∡ ¹55'59		evening set	3881 Nov 10 19:42	1° ∡ ¹05'44	
direct	3880 Dec 11 13:16	3° ∡ ¹45'29			3881 Nov 12 00:42	30°RM₊	
morning max el	3880 Dec 18 19:48	7° ∡ ¹51'09	19°34'16	min. Earth dist.	3881 Nov 15 00:16	26°M40'41	0.66520 AU
greatest brilliancy	3880 Dec 31 22:42	25° х 14′53	-0.7m	inferior conj	3881 Nov 16 13:09	24°M47'21	-0°57'15
· ·	3881 Jan 04 02:34	0°ರ		minimum elong	3881 Nov 16 14:41	24°M42'36	0°56'34
desc. node	3881 Jan 08 13:37	6° ප 48'15		asc. node	3881 Nov 19 08:06	21°M32'46	0 000.
morning set	3881 Jan 12 18:23	13° ठ 16'09		morning rise	3881 Nov 22 10:12	18°M58'55	
morning set	3881 Jan 23 11:50			Č			
F 4 F		0° ≈	1 11101 177	direct	3881 Nov 25 11:45	18°M05'28	100400
max. Earth dist.	3881 Jan 25 06:32	2° ≈ 48'46	1.44491 AU	morning max el	3881 Dec 02 05:27	21°M47'59	18°43'27
					3881 Dec 08 18:59	0° ∡	
superior conj	3881 Jan 29 10:52	9° ≈ 28'38		morning set	3881 Dec 23 09:33	22° ∡ 31'29	
minimum elong	3881 Jan 29 03:54	9° ≈ 00'42	1°54'12	desc. node	3881 Dec 26 10:40	27° ҂ 19'46	
	3881 Feb 10 22:52	0° ℋ			3881 Dec 28 03:22	0°る	
evening rise	3881 Feb 12 08:04	2° 升 19′20		max. Earth dist.	3882 Jan 07 23:55	17° る 02'48	1.45189 AU
asc. node	3881 Feb 28 10:20	27°) 54′03					
	3881 Mar 02 04:30	$0^{\circ}\mathbf{\Upsilon}$		superior conj	3882 Jan 08 16:37	18° පි 08'22	-1°22'41
evening max el	3881 Mar 03 02:28	0° Υ 58'07	18°18'37	minimum elong	3882 Jan 08 07:31	17°る32'40	1°21'41
retrograde	3881 Mar 09 13:08	4° Υ 26'02		Ü	3882 Jan 16 05:13	0° ≈	
evening set	3881 Mar 12 12:44	3° Υ 38'11		evening rise	3882 Jan 24 05:24	12°≈46'02	
J. J	3881 Mar 16 21:46	30° ₹		greatest brilliancy	3882 Jan 31 13:56	24°≈34'30	-0.9m
inferior conj	3881 Mar 18 11:55	28°) 14'46	2026152	greatest orimaney	3882 Feb 04 00:17	0° ∀	0.7111
	3881 Mar 18 12:07	28° X 14'12				14°) (25'45	10040120
minimum elong				evening max el	3882 Feb 14 13:31		18-48-20
min. Earth dist.	3881 Mar 20 22:15		0.63774 AU	asc. node	3882 Feb 15 07:22	15°) €09'25	
morning rise	3881 Mar 24 10:37	22°) €06'52		retrograde	3882 Feb 21 06:37	18°) 1 0′45	
direct	3881 Mar 31 07:33	19° ∺ 21'36		evening set	3882 Feb 24 12:33	17° ∺ 10'17	
desc. node	3881 Apr 06 12:46	21° ∺ 14'23		inferior conj	3882 Mar 02 04:23	11° ∺ 29'26	3°31'53
morning max el	3881 Apr 14 02:14	27° ∺ 19'10	27°38'24	minimum elong	3882 Mar 02 03:10	11° ∺ 33'12	3°31'47
	3881 Apr 16 15:05	0 ° $\mathbf{\Upsilon}$		min. Earth dist.	3882 Mar 03 23:02	9°) 18′03	0.65428 AU
	3881 May 07 16:07	8° 0		morning rise	3882 Mar 07 17:21	5°) 17′18	
morning set	3881 May 18 21:38	20° 8 40'59		direct	3882 Mar 14 07:58	2°) €26'23	
<i>3 ,</i>	3881 May 23 11:15	0°II		desc. node	3882 Mar 24 09:50	7° ₩ 18'09	
max. Earth dist.	3881 May 23 23:01		1.33038 AU	morning max el	3882 Mar 27 12:02	10°) 11'35	26°52'54
man. Darm Wist.	2001 141ay 22 22.01	1 11/01/20	1.55050 AU	morning max ci		10 χ 11 33	20 32 37
aumani ·	2001 M 26 10 20	C0π 50120	0006127		3882 Apr 12 03:10		
superior conj	3881 May 26 18:28	6° Ⅱ 59'39			3882 Apr 30 03:32	0° 8	
minimum elong	3881 May 26 18:48	7° ∏ 01'25	0~06'33	morning set	3882 May 02 07:30	4° 8 05'26	
behind sun begin	3881 May 26 13:53	6° Ⅱ 35'07		max. Earth dist.	3882 May 06 16:03	12° 8 38'28	1.34216 AU
behind sun end	3881 May 26 23:42	7° Ⅱ 27'44					
asc. node	3881 May 27 09:38	8° Ⅱ 21′03		superior conj	3882 May 10 19:44	21° 8 09'12	-0°35'20

	2002 M 10 21-26	210 10152	0024150		2002 A 24 12.52	40050122	1004117
minimum elong	3882 May 10 21:36	21° 8 18'53	0°34'58	superior conj	3883 Apr 24 12:53	4° 8 50'22	
asc. node	3882 May 14 06:40	28° 8 24'54		minimum elong	3883 Apr 24 16:18	_	1°03'42
	3882 May 15 00:40	0° П		asc. node	3883 May 01 03:41	18° 8 20'49	
evening rise	3882 May 18 06:33	6° Ⅱ 49'35		evening rise	3883 May 02 12:51	21° 8 10'24	
	3882 May 30 19:56	0.20 0.20	21022142		3883 May 06 23:16	0°II	2000 4141
evening max el	3882 Jun 07 01:57	9° © 00'55	21°22'43	evening max el	3883 May 20 08:52	20° Ⅱ 11'24	20°04'41
retrograde	3882 Jun 19 04:39	14° © 58'15		retrograde	3883 May 30 19:14	25° Ⅱ 16'26	
desc. node	3882 Jun 20 09:01	14°955'00		evening set	3883 Jun 01 18:18	25° Ⅱ 06'25	
evening set	3882 Jun 21 13:22	14° © 45'26		desc. node	3883 Jun 07 06:02	23° Ⅱ 07'36	
inferior conj	3882 Jun 30 22:33	10°5946'10		inferior conj	3883 Jun 10 18:54	21° Ⅱ 06'52	
minimum elong	3882 Jun 30 14:43	10° © 57'08	2°57'49	minimum elong	3883 Jun 10 15:57	21° Ⅱ 11'16	
min. Earth dist.	3882 Jul 01 02:11	10°9541'06	0.54842 AU	min. Earth dist.	3883 Jun 12 14:40	20° Ⅱ 01'26	0.55212 AU
morning rise	3882 Jul 09 16:45	6°€50'28		morning rise	3883 Jun 19 11:59	16° Ⅱ 47'10	
direct	3882 Jul 13 02:07	6° © 25'34		direct	3883 Jun 23 14:22	16° Ⅱ 10'36	
morning max el	3882 Jul 25 15:14	12° © 21'51	22°16'47	morning max el	3883 Jul 07 06:52	22° ∏ 54′00	23°59'42
	3882 Aug 07 16:06	$0^{\circ}\Omega$			3883 Jul 13 14:36	0	
asc. node	3882 Aug 10 05:56	4° Ω 40'35		asc. node	3883 Jul 28 02:57	24° © 08'59	
morning set	3882 Aug 16 06:27	16° Ω 43'15			3883 Jul 30 23:30	$0^{\circ}\Omega$	
	3882 Aug 22 12:29	O° Mp		morning set	3883 Jul 31 18:06	1° Ω 37'46	
superior conj	3882 Aug 23 10:16	1° Mp 55′20	1°40'44	superior conj	3883 Aug 07 17:47	16° Ω 42′26	1°31'08
minimum elong	3882 Aug 23 08:58	1° Mp 48′32	1°40'39	minimum elong	3883 Aug 07 15:43	16° Ω 31'17	1°30'55
max. Earth dist.	3882 Aug 26 19:24	8° m 58'41	1.34357 AU	max. Earth dist.	3883 Aug 09 20:11	21° Ω 13'37	1.33177 AU
evening rise	3882 Aug 31 10:14	18° m 13'31			3883 Aug 14 00:38	0° m)	
	3882 Sep 06 17:59	0∘ ⊽		evening rise	3883 Aug 15 03:47	2° Mp 17'56	
desc. node	3882 Sep 16 08:21	15° ≙ 53'50			3883 Aug 30 14:28	0∘ ত	
	3882 Sep 26 08:37	0°M		desc. node	3883 Sep 03 05:21	5° ≙ 29'15	
evening max el	3882 Oct 05 07:37	10° ™ 05'49	27°03'13	evening max el	3883 Sep 17 19:01	23° ₽ 20'55	27°25'37
retrograde	3882 Oct 18 13:49	17° M 22'42		-	3883 Sep 27 16:50	0° M	
evening set	3882 Oct 25 09:24	14°M41'20		retrograde	3883 Oct 01 09:34	0°M38'09	
min. Earth dist.	3882 Oct 29 07:24	10°M52'11	0.65338 AU	C	3883 Oct 04 22:17	30° Ŗ Ω	
inferior conj	3882 Oct 31 08:15	8°M33'47	-1°57'58	evening set	3883 Oct 08 12:56	27° ≏ 59'52	
minimum elong	3882 Oct 31 11:33	8°M24'25	1°56'38	min. Earth dist.	3883 Oct 12 05:31	24° ≏ 44'26	0.63807 AU
asc. node	3882 Nov 06 05:08	3°M10'16		inferior conj	3883 Oct 14 18:41	22° ≏ 07'37	-2°59'02
morning rise	3882 Nov 06 14:36	2°M58'00		minimum elong	3883 Oct 14 23:38	21° ≏ 54'52	
direct	3882 Nov 09 08:03	2°M17'49		morning rise	3883 Oct 21 11:40	16° ≏ 47'52	
morning max el	3882 Nov 15 19:58	5°M47'10	18°09'08	direct	3883 Oct 23 23:26	16° ♀ 17'19	
	3882 Dec 02 06:28	0° ⊼ ¹		asc. node	3883 Oct 24 02:10	16° ♀ 17'23	
morning set	3882 Dec 04 05:58	3° х 15′09		morning max el	3883 Oct 30 12:33	19° Ω 42'23	17°52'05
desc. node	3882 Dec 13 07:40	17° × 759'58		morning max er	3883 Nov 07 04:02	0°M	17 32 03
desc. node	3002 BCC 13 07.10	17 7 37 30		morning set	3883 Nov 16 05:20	15°M17'14	
superior conj	3882 Dec 18 20:50	26° ₹ 50'26	-0°37'21	morning set	3883 Nov 24 21:01	0° √	
minimum elong	3882 Dec 18 16:07	26°×30'20			3003 1 10	V 2	
minimum ciong	3882 Dec 20 20:51	0°る	0 30 43	superior conj	3883 Nov 28 19:16	6° ₹ ′29'20	0°09'38
max. Earth dist.	3882 Dec 21 19:32	ਾਂ ਤੋਂ 1°ਤੋਂ29'14	1.45145 AU	minimum elong	3883 Nov 28 20:19	6° ₹ 33'38	0°09'29
evening rise	3883 Jan 04 04:49	22° ට 22'15	1.43143710	behind sun begin	3883 Nov 28 12:17	6° ₹ 00'46	0 0)2)
evening rise	3883 Jan 09 02:57	0°≈		behind sun end	3883 Nov 29 04:21	7°×706'27	
greatest brilliancy	3883 Jan 16 19:46	0 ∞ 11° ≈ 47'34	-0.7m	desc. node	3883 Nov 30 04:40	8° ₹ 45'30	
evening max el	3883 Jan 28 20:43	27°≈56'30		max. Earth dist.	3883 Dec 04 13:48	15° × ⁷ 48'18	1.44371 AU
evening max er	3883 Jan 31 02:42	0° \	17 34 30	max. Lartii dist.	3883 Dec 13 15:17	0°중	1.443/1 AO
asc. node	3883 Feb 02 04:24	1° ∺ 21'39		evening rise	3883 Dec 13 15:17 3883 Dec 14 15:13	1°る32'10	
retrograde	3883 Feb 02 04.24 3883 Feb 05 03:42	2°\(\)\(\)		evening rise	3884 Jan 02 18:43	0°≈	
evening set	3883 Feb 03 03:42 3883 Feb 08 16:59	0° ¥ 54'57		avanina may al	3884 Jan 11 22:38	0 ∞ 11°≈28'08	20°35'52
evening set				evening max el			20 33 32
::	3883 Feb 09 20:34	30°R≈	2012122	retrograde	3884 Jan 20 01:51	16°≈15'56	
inferior conj	3883 Feb 14 04:12	24°≈58'43	3°13'33	asc. node	3884 Jan 20 01:25	16°≈15'56	
minimum elong	3883 Feb 14 02:05	25°≈05'41	3°13'10	evening set	3884 Jan 23 23:56	14° ≈ 47'28	2044144
min. Earth dist.	3883 Feb 15 07:57	23°≈27'33	0.66665 AU	inferior conj	3884 Jan 29 08:46	8°≈38'35	2°44'44
morning rise	3883 Feb 19 10:58	18°≈45'00		minimum elong	3884 Jan 29 06:17	8°≈47'04	2°44'05
direct	3883 Feb 25 14:17	16°≈01'04	25942159	min. Earth dist.	3884 Jan 29 23:07	7°≈49'29	0.67489 AU
morning max el	3883 Mar 09 21:27	23°≈20'39	25°42'58	morning rise	3884 Feb 03 12:27	2°≈25'01	
desc. node	3883 Mar 11 06:52	24°≈47'37		Γ	3884 Feb 08 06:16	30°Rる	
	3883 Mar 15 19:24	0°) €		direct	3884 Feb 09 01:49	29° る 57'03	
	3883 Apr 05 11:38	0° Υ			3884 Feb 09 21:46	0°≈	0.401.011.6
morning set	3883 Apr 15 02:55	16° Υ 43'51	1 25045 433	morning max el	3884 Feb 20 06:02	6°≈37'29	24°18'16
max. Earth dist.	3883 Apr 18 21:52	23° Y 48'45	1.35845 AU	desc. node	3884 Feb 26 03:54	13°≈18'01	
	3883 Apr 22 02:30	0° 8			3884 Mar 09 09:58	0°) {	
				morning set	3884 Mar 27 02:17	28° ∺ 20'19	

Tark Earth dispose 20,000 20 20 20 20 20 20		3884 Mar 28 01:05	0°Υ			2005 Eab 10 02:02	0° ≈	
Septimon	Earth diet			1 27046 ATT	4 4-	3885 Feb 10 03:02		
specing conging imminimismed on the minimismed on the minimi	max. Earm dist.	3664 Mai 30 16.30	4 1 32 29	1.57640 AU	desc. node			
Sample 1988 Apr 12 252 50° 1997 1997 1997 1998	superior coni	2004 Apr 06 10:20	170\052120	1021122	morning set			
SSSA pr 12 22.54 0.75		•			•			1 40029 ATT
Secondary Seco	minimum elong			1 3047	max. Earm dist.	3883 Mai 12 14.00	10 X2420	1.40028 AU
1900 1900	avanina riaa	•	_		aumariar aani	2005 Mar 20 00:22	0000000	1952120
1884 May 10 05.53 0*T	•	*	_					
Second S	asc. node	*			minimum ciong			1 33 07
Section Sect		•		10005150				
Second	•	•		19°05'58				
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moming max el 3884 Jul 07 21.10 3°El 29°3807 moming max el 3885 May 10 65.51 4°El 20°601 20°501 3885 Jul 20 65.01 6°El 20°501 3885 Jul 20 65.01 6°El 20°501 3885 Jul 20 65.01 6°El 20°501 3885 Jul 20 60.04 6°El 20°501 20°5	direct				-	•	_	
See					desc. node	•		
See	morning max el	3884 Jun 17 21:10	3° Ⅱ 18'27	25°38'07	direct	3885 May 16 05:53		
Marting set 3884 Jul 15 05.36 16*23036 10*24 10*2		3884 Jul 06 21:06	0		morning max el	3885 May 30 15:17	_	26°56'14
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superior conj 3884 Jul 22 04:23 "Q3675 "P1631 minimum clom 3884 Jul 22 00:20 "Q16404 "P1610 superior conj 3885 Jul 06 16:11 16°93:23 0°5735 max. Earth dist. 3884 Jul 23 03:44 3°Q4475 "132412 AU minimum clomed 3885 Jul 06 16:10 16°93:23 15°2520 0°5712 evening rise 3884 Aug 20 02:22 24°10;2450 max. Earth dist. 3885 Jul 10 6 14:10 16°93:23 132055 AU desc. node 3884 Aug 20 02:22 24°10;250 evening rise 3885 Jul 12 20:21 0°10 12°10;171 desc. node 3885 Aug 06 23:33 12°1245 0°10 12°10;250	morning set	3884 Jul 15 05:36	16° © 30'36			3885 Jun 29 00:44	0 \circ	
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Sask Aug 04 22.47 O*Ph	max. Earth dist.	3884 Jul 23 03:44	3° Ω 44'57	1.32412 AU	minimum elong	3885 Jul 06 14:02	16° © 20'33	0°57'12
Seek node	evening rise	3884 Jul 29 05:31	16° Ω 45'09		max. Earth dist.	3885 Jul 06 14:56	16° © 25'33	1.32055 AU
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desc. node	3886 Jan 29 21:59	22°る18'07		morning max el	3886 Dec 29 04:17	17° ∡ 13'53	20°10'26
dese. Hode	3886 Feb 04 04:15	0°≈		morning max cr	3887 Jan 08 07:37	0°중	20 10 20
morning set	3886 Feb 15 16:06	17°≈38'15		desc. node	3887 Jan 16 19:01	12° る 26'23	
max. Earth dist.	3886 Feb 22 14:39	28°≈49'51	1.42106 AU	morning set	3887 Jan 25 13:30	25° る 48'47	
	3886 Feb 23 07:40	0° ∀			3887 Jan 28 06:17	0°≈	
		. , ,		max. Earth dist.	3887 Feb 04 23:31	12°≈10'58	1.43793 AU
superior conj	3886 Mar 02 01:34	11°) 24'04	-2°06'13				
minimum elong	3886 Mar 02 03:25	11°) 32′05	2°06'10	superior conj	3887 Feb 10 17:35	21° ≈ 30'46	-2°04'16
	3886 Mar 12 12:18	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	3887 Feb 10 14:00	21° ≈ 16′03	2°04'09
evening rise	3886 Mar 13 05:15	1° Y 17'03			3887 Feb 15 20:04	0°) €	
asc. node	3886 Mar 21 18:47	16° Y 28′13		evening rise	3887 Feb 23 13:33	13° ∺ 13'06	
evening max el	3886 Mar 29 17:42	27° Y 24'42	18°08'53		3887 Mar 05 10:23	0° Υ	
	3886 Apr 02 04:30	0° 8		asc. node	3887 Mar 08 15:50	4° Y 55'59	
retrograde	3886 Apr 05 11:42	0° 8 50'05		evening max el	3887 Mar 13 06:16	10° Y 37'34	18°09'37
evening set	3886 Apr 08 02:12	0° 8 19'58		retrograde	3887 Mar 19 16:49	14° Υ 00'49	
	3886 Apr 08 20:48	30°RΥ	2006147	evening set	3887 Mar 22 13:09	13° Y 19'36	2022107
inferior conj	3886 Apr 14 19:59	25° Υ 27'12 25° Υ 20'23	3°06'47	inferior conj	3887 Mar 28 18:00	8° Y 06'39 8° Y 03'27	3°32'07
minimum elong min. Earth dist.	3886 Apr 14 22:54	25° \begin{picture}(20.23) \\ 22^{\circ}\begin{picture}\gamma^2 24'38\end{picture}	3°06'16 0.60538 AU	minimum elong min. Earth dist.	3887 Mar 28 19:12	5°Υ10'16	3°32'02 0.62665 AU
morning rise	3886 Apr 18 02:49 3886 Apr 21 17:27	22 γ 24 38 19° γ 37'16	0.00338 AU	morning rise	3887 Mar 31 12:47 3887 Apr 04 00:01	2° Υ 03'20	0.02003 AU
desc. node	3886 Apr 27 21:09	19 γ 37 10		morning rise	3887 Apr 04 00:01 3887 Apr 07 17:50	2 1 03 20 30° ₹	
direct	3886 Apr 28 08:54	17° Υ 28'59		direct	3887 Apr 10 21:19	29° H 28'13	
morning max el	3886 May 12 15:37		27°42'03	direct	3887 Apr 10 21:17	0° Υ	
morning max or	3886 May 16 21:47	0° 8	27 12 03	desc. node	3887 Apr 14 18:13	0° Υ 11'51	
	3886 Jun 05 18:41	0° I		morning max el	3887 Apr 24 21:43	7° Υ 26'28	27°50'19
morning set	3886 Jun 13 21:35	15° Ⅱ 49'41		<i>5</i>	3887 May 12 03:42	0°8	
asc. node	3886 Jun 17 18:05	23° Ⅱ 59'14		morning set	3887 May 28 22:06	0° Ⅱ 02'53	
max. Earth dist.	3886 Jun 20 02:09	29° Ⅱ 04'11	1.32103 AU	Ü	3887 May 28 21:32	$\Pi^{\circ}0$	
	3886 Jun 20 12:19	0ಂತ		max. Earth dist.	3887 Jun 03 09:23	11° Ⅱ 27'21	1.32573 AU
				asc. node	3887 Jun 04 15:07	14° Ⅱ 07'14	
superior conj	3886 Jun 21 03:27	1°523'02	0°34'58				
minimum elong	3886 Jun 21 01:57	1° 5 014'48	0°34'39	superior conj	3887 Jun 05 12:22	16° Ⅱ 02'11	0°09'17
evening rise	3886 Jun 27 23:18	16° © 16'05		minimum elong	3887 Jun 05 11:55	15° Ⅱ 59'48	0°09'10
	3886 Jul 04 18:31	$0^{\circ}\Omega$		behind sun begin	3887 Jun 05 07:38	15° Ⅱ 36'32	
desc. node	3886 Jul 24 20:24	29° Ω 06′09		behind sun end	3887 Jun 05 16:13	16° Ⅱ 23'04	
evening max el	3886 Jul 24 23:58	29° Ω 14'42	25°23'38		3887 Jun 11 22:53	0°©	
	3886 Jul 25 19:24	0° m		evening rise	3887 Jun 12 11:06	1°505'05	
retrograde	3886 Aug 07 23:15	6° Tp 20'06			3887 Jun 28 09:38	0°N	22051124
evening set	3886 Aug 13 18:28	5° Mp 02'11	0.5700C ATT	evening max el	3887 Jul 06 13:18	9° Ω 48'01	23°51'24
min. Earth dist. inferior conj	3886 Aug 18 11:51 3886 Aug 21 14:20	0° m 13'00	0.57886 AU	desc. node retrograde	3887 Jul 11 17:27 3887 Jul 20 06:26	13° Ω 57'01 16° Ω 41'41	
minimum elong	3886 Aug 21 14:20 3886 Aug 21 15:46	0° Mg 13'00		evening set	3887 Jul 24 15:23	15° Ω 59'33	
minimum ciong	3886 Aug 21 21:49	0 11/1031 30°RΩ	3 08 33	min. Earth dist.	3887 Jul 30 23:32	13° Ω 57'18	0.56154 AU
morning rise	3886 Aug 29 15:22	25° Ω 57'03		inferior conj	3887 Aug 02 07:10	11°Ω32'50	
direct	3886 Sep 01 03:55	25° Ω 37'40		minimum elong	3887 Aug 02 02:37	11° Ω 39'47	
morning max el	3886 Sep 09 19:14	29° Ω 43'06	18°54'47	morning rise	3887 Aug 10 16:25	7° Ω 36'01	
C	3886 Sep 10 02:16	0° m y		direct	3887 Aug 13 10:54	7° Ω 16′28	
asc. node	3886 Sep 13 17:20	4° Mp 12′25		morning max el	3887 Aug 23 12:27	11° Ω 56'55	19°57'48
morning set	3886 Sep 26 09:10	26° Mp 14'15		asc. node	3887 Aug 31 14:23	22° Ω 16′14	
	3886 Sep 28 07:00	0∘ ত			3887 Sep 05 01:10	0°Щ	
				morning set	3887 Sep 10 13:09	10° Mp 46'38	
superior conj	3886 Oct 04 19:44		1°35'13				
minimum elong	3886 Oct 04 22:18	12° ≙ 55'59		superior conj	3887 Sep 18 07:33	-•	
max. Earth dist.	3886 Oct 11 18:08	25° £ 32'45	1.39049 AU	minimum elong	3887 Sep 18 08:24	26° m/37'38	1°43'21
	3886 Oct 14 06:48	0°M		19. d. P.	3887 Sep 20 01:13	0° ⊽	1 25005 111
evening rise	3886 Oct 15 15:24	2°M20'44		max. Earth dist.	3887 Sep 23 23:28	7° £ 34'43	1.37007 AU
desc. node	3886 Oct 20 19:45	10° M .59'40 0° ∡ 7		evening rise	3887 Sep 27 18:40	14° Ω 36'12	
evening max el	3886 Nov 02 05:59 3886 Nov 20 00:22	0°×' 22° <i>⊀</i> 17'58	24°26'21	desc. node	3887 Oct 06 18:23 3887 Oct 07 16:46	0° ጤ 1° ጤ 30'15	
retrograde	3886 Dec 01 08:43	28° 🖈 55'58	27 20 Z I	desc. Houc	3887 Oct 07 16.46 3887 Oct 27 23:35	1 1163013 0° √ 7	
evening set	3886 Dec 01 08.43	26° ₹ 40'05		evening max el	3887 Nov 02 12:41	6° ₹ 100'11	25°39'19
asc. node	3886 Dec 10 16:33	20 × 40 03 22° × 21'01		retrograde	3887 Nov 14 19:09	13° ₹ 0011	20 37 17
min. Earth dist.	3886 Dec 11 11:04	21° × 19'58	0.67692 AU	evening set	3887 Nov 20 19:21	10°×31'59	
inferior conj	3886 Dec 12 06:30	20° ₹ 14'55	0°32'14	min. Earth dist.	3887 Nov 25 03:51	5° ∡ ¹46'46	0.67051 AU
minimum elong	3886 Dec 12 05:44	20° х 17′30	0°31'55	inferior conj	3887 Nov 26 10:18	4° ₹ 09'45	
morning rise	3886 Dec 17 16:31	14° ∡ 12'44		minimum elong	3887 Nov 26 10:54	4° ∡ °07'49	0°23'08
direct	3886 Dec 21 11:25	12° ∡ ′50′39		asc. node	3887 Nov 27 13:36	2° ҂ ¹43'47	

	3887 Nov 29 23:44	30°RM		direct	3888 Nov 18 07:45	11° M .30'09	
morning rise	3887 Nov 29 23.44 3887 Dec 02 02:48	28°M15'48		morning max el	3888 Nov 24 22:17	15°M06'03	18°26'47
direct	3887 Dec 02 02.48 3887 Dec 05 10:05	27°M13'01		morning max er	3888 Dec 05 20:21	13 IIC00 03 0° ⊼ ¹	18 2047
direct	3887 Dec 03 10:03 3887 Dec 11 05:39	27 IIC1301 0° √ 7		morning set	3888 Dec 14 18:57	14° ∡ 15′03	
mamina may al	3887 Dec 11 03:39 3887 Dec 12 10:11	0 x ⁴ 1° x ⁴07'08	19°10'40	desc. node	3888 Dec 20 13:03	23° 🖈 26'31	
morning max el	3888 Jan 01 20:00	0°る	19 10 40	desc. node	3888 Dec 24 16:23	23 x·2031 0°る	
daga mada	3888 Jan 03 16:03	0 3 2° る 50'53			3888 Dec 24 10.23	0.0	
desc. node	3888 Jan 03 16:03 3888 Jan 04 15:44	4° る 22'52		aumariar aani	3888 Dec 30 11:26	9° ට 07'01	190425
morning set max. Earth dist.	3888 Jan 18 14:45		1.44879 AU	superior conj	3888 Dec 30 03:36	9 30701 8° 3 36'17	
max. Earth dist.	3888 Jan 18 14:43	20 01142	1.448/9 AU	minimum elong		8°03017	
	2000 1 21 00 50	0022122	1042117	max. Earth dist.	3888 Dec 31 09:08		1.45258 AU
superior conj	3888 Jan 21 08:59	0°≈33'23			3889 Jan 12 18:44	0° ≈	
minimum elong	3888 Jan 21 00:17	29° る 58'57	1°42′33	evening rise	3889 Jan 15 11:54	4°≈17'00	0.0
	3888 Jan 21 00:33	0°≈		greatest brilliancy	3889 Jan 25 09:32	19°≈52'18	-0.8m
evening rise	3888 Feb 05 00:25	24°≈13'30			3889 Feb 01 03:41	0°) {	1000 (100
	3888 Feb 08 12:27	0°) (evening max el	3889 Feb 07 04:04	7°) € 30'30	19°06'09
asc. node	3888 Feb 23 12:53	22°) (41'31		asc. node	3889 Feb 09 09:55	9°) €31'49	
evening max el	3888 Feb 24 18:32	24° ₭ 01'29	18°29'02	retrograde	3889 Feb 14 02:26	11° ∺ 26′28	
retrograde	3888 Mar 02 07:01	27° ∺ 35'35		evening set	3889 Feb 17 11:14	10° ∺ 20'33	
evening set	3888 Mar 05 09:11	26°) 42′28		inferior conj	3889 Feb 23 00:48	4°) 32′52	
inferior conj	3888 Mar 11 04:50	21° H 11'08	3°36'38	minimum elong	3889 Feb 22 23:08	4°) 38′10	3°25'19
minimum elong	3888 Mar 11 04:23	21° 米 12'29	3°36'37	min. Earth dist.	3889 Feb 24 13:00	2°) 37′49	0.66005 AU
min. Earth dist.	3888 Mar 13 08:24	18° ¥ 39'41	0.64523 AU		3889 Feb 26 18:17	30°R ≈	
morning rise	3888 Mar 16 22:55	15°) €00'47		morning rise	3889 Feb 28 10:41	28° ≈ 19'31	
direct	3888 Mar 23 17:44	12° 升 11′43		direct	3889 Mar 06 20:53	25° ≈ 30′03	
desc. node	3888 Mar 31 15:14	15° ∺ 12'29			3889 Mar 16 08:37	0° ℋ	
morning max el	3888 Apr 06 07:14	20°) 05'44	27°22'40	desc. node	3889 Mar 18 12:16	1° ₩ 56'04	
	3888 Apr 14 19:06	0 ° Υ		morning max el	3889 Mar 19 17:09	3° ₩ 07'02	26°25'29
	3888 May 04 04:42	8°			3889 Apr 09 01:44	0 ° Υ	
morning set	3888 May 11 14:18	13° 8 48'21		morning set	3889 Apr 24 18:35	26° Ƴ 54'54	
max. Earth dist.	3888 May 16 08:41	23° 8 23'39	1.33484 AU		3889 Apr 26 09:37	0° ႘	
	·			max. Earth dist.	3889 Apr 28 20:43	4° 8 46'41	1.34855 AU
superior conj	3888 May 19 17:02	0° Ⅱ 24'25	-0°18'40		•		
minimum elong	3888 May 19 18:00	0° Ⅱ 29'29	0°18'29	superior conj	3889 May 03 15:10	14° 8 22'29	-0°47'44
Č	3888 May 19 12:26	Π°		minimum elong	3889 May 03 17:42	14° 8 35'32	
asc. node	3888 May 21 12:09	4° Ⅱ 13'56		asc. node	3889 May 08 09:11	24° 8 14'48	
evening rise	3888 May 26 22:21	15° Ⅱ 48'06		evening rise	3889 May 11 07:02	0° Ⅱ 18'24	
e vennig rise	3888 Jun 03 01:12	0°9		evening rise	3889 May 11 03:29	0°II	
evening max el	3888 Jun 17 04:04	20°©12'35	22°14'37		3889 May 29 04:04	0°9	
desc. node	3888 Jun 27 14:27	26°S22'41	22 1137	evening max el	3889 May 30 04:02	1°900'56	20°47'19
retrograde	3888 Jun 30 01:50	26°536'51		retrograde	3889 Jun 10 14:37	6°936'33	20 17 17
evening set	3888 Jul 03 00:04	26°917'51		evening set	3889 Jun 12 16:52	6°926'03	
min. Earth dist.	3888 Jul 11 10:06	20°540'05	0.55064 AU	desc. node	3889 Jun 14 11:27	6° © 01'41	
inferior conj	3888 Jul 12 06:52	22°910'49		inferior conj	3889 Jun 22 00:11	2°928'47	2°12'00
minimum elong	3888 Jul 11 22:26	22°522'42		minimum elong	3889 Jun 21 18:03	2°937'31	2°09'50
morning rise	3888 Jul 20 22:42	18°920'13	3 34 32	min. Earth dist.	3889 Jun 22 21:55	1°957'46	0.54877 AU
direct	3888 Jul 24 01:05	17°958'40		mm. Earm dist.	3889 Jun 26 13:52	1 3 37 40	0.54877 AO
morning max el	3888 Aug 04 17:51	23°925'52	21021225	morning rise	3889 Jun 30 18:49	28° Ⅱ 24'35	
morning max er	-	23 3 23 32	21 21 23	•		28 H 24 33 27° H 55'55	
asc. node	3888 Aug 10 12:08 3888 Aug 17 11:24	0°37 11° Ω 00'16		direct	3889 Jul 04 10:21 3889 Jul 11 21:00	2/° щ ээээ	
	· ·	25° Ω 31'40		marning may al	3889 Jul 17 13:08	0 € 4°€514'01	22900112
morning set	3888 Aug 24 21:35			morning max el			23 00 12
	3888 Aug 27 00:57	0° m		asc. node	3889 Aug 04 08:26	0° Ω 14'47	
	2000 0 01 05 27	100 m 50141	1042120	. ,	3889 Aug 04 05:22	0° Ω	
superior conj	3888 Sep 01 05:27	10° m 52'41		morning set	3889 Aug 09 08:33	10° Ω 24'01	
minimum elong	3888 Sep 01 04:49	10° mp 49'27	1°43'37			0	
max. Earth dist.	3888 Sep 05 10:04	19° m 25'43	1.35212 AU	superior conj	3889 Aug 16 10:12	25° Ω 32'00	1°37'19
evening rise	3888 Sep 09 16:09	27° m 42'57		minimum elong	3889 Aug 16 08:31	25° Ω 23'03	1°37'12
	3888 Sep 10 21:16	0∘ ʊ			3889 Aug 18 12:41	0° m)	1.00=0.0 :==
desc. node	3888 Sep 23 13:46	21° Ω 45'18		max. Earth dist.	3889 Aug 19 05:31	1° m/28'24	1.33796 AU
	3888 Sep 29 01:15	0°M		evening rise	3889 Aug 24 03:30	11° m 29'43	
evening max el	3888 Oct 15 01:03	19°M39'25	26°38'28		3889 Sep 03 04:53	0∘ ত	
retrograde	3888 Oct 28 00:27	26°M54'20		desc. node	3889 Sep 10 10:46	11° ≏ 37'55	
evening set	3888 Nov 03 13:37	24°M15'01			3889 Sep 24 11:44	0° M ₊	
min. Earth dist.	3888 Nov 07 15:11	20°M05'31	0.66058 AU	evening max el	3889 Sep 27 13:23	3°M07'30	27°16'21
inferior conj	3888 Nov 09 09:11	18°M00'31	-1°22'47	retrograde	3889 Oct 11 00:05	10° M25'55	
minimum elong	3888 Nov 09 11:28	17°M53'44	1°21'49	evening set	3889 Oct 17 23:25	7° M 44'40	
asc. node	3888 Nov 13 10:38	13°M40'29		min. Earth dist.	3889 Oct 21 18:52	4°M10'12	0.64716 AU
morning rise	3888 Nov 15 10:02	12° M 17'19		inferior conj	3889 Oct 24 00:57	1°M42'48	-2°24'01

minimum elong	3889 Oct 24 05:00	1°MJ31'45	2°22'29	evening set	3890 Sep 30 21:35	20° £ 53'49	
8	3889 Oct 25 15:28	30° Ŗ Ω		min. Earth dist.	3890 Oct 04 12:51		0.63048 AU
morning rise	3889 Oct 30 11:41	26° £ 13′21		inferior conj	3890 Oct 07 06:50	15° Ω 09'15	-3°24'12
asc. node	3889 Oct 31 07:39	25° £ 54'23		minimum elong	3890 Oct 07 12:20	14° £ 55'46	3°22'27
direct	3889 Nov 02 02:18	25° ≏ 37'48		morning rise	3890 Oct 14 04:33	9° ≙ 56'57	
morning max el	3889 Nov 08 14:03	29° ჲ 04'44	17°59'45	direct	3890 Oct 16 14:43	9° ჲ 29'25	
_	3889 Nov 09 11:09	0° M		asc. node	3890 Oct 18 04:41	9° ≏ 41'26	
morning set	3889 Nov 26 03:38	25°M34'56		morning max el	3890 Oct 23 06:32	12° ჲ 55′29	17°50'17
	3889 Nov 28 19:04	0°⊀			3890 Nov 03 21:51	0° M	
desc. node	3889 Dec 07 10:05	14° ₹ 09'42		morning set	3890 Nov 08 12:37	8°M04'39	
superior conj	3889 Dec 09 21:40	18° ₹ 09'18		superior conj	3890 Nov 20 07:06	28°M20'25	0°27'34
minimum elong	3889 Dec 09 19:36	18° ≯ 01'00	0°16'42	minimum elong	3890 Nov 20 09:47	28°M31'37	0°27'12
max. Earth dist.	3889 Dec 14 04:08	24° ₹ 56′28	1.44898 AU		3890 Nov 21 07:02	0°⊀	
	3889 Dec 17 09:22	0° ප		desc. node	3890 Nov 24 07:06	4° ₹ 56'21	
evening rise	3889 Dec 26 04:15	13° る 38'22		max. Earth dist.	3890 Nov 26 21:07	9° ₰ 07'28	1.43845 AU
	3890 Jan 05 21:22	0°≈		evening rise	3890 Dec 05 13:45	22° ₰ ′49′01	
greatest brilliancy	3890 Jan 09 10:07	5° ≈ 16'11	-0.6m		3890 Dec 10 06:21	0°₹	
evening max el	3890 Jan 21 09:14	21° ≈ 02'28	19°59'09		3890 Dec 31 08:02	0° ≈	
asc. node	3890 Jan 27 06:56	25° ≈ 13'01		evening max el	3891 Jan 04 08:58	4° ≈ 35'29	21°05'29
retrograde	3890 Jan 29 00:11	25° ≈ 29'01		retrograde	3891 Jan 12 22:05	9° ≈ 39'10	
evening set	3890 Feb 01 16:58	24° ≈ 09'11		asc. node	3891 Jan 14 03:58	9° ≈ 30'42	
inferior conj	3890 Feb 07 02:58	18° ≈ 07'28	3°02'28	evening set	3891 Jan 17 00:29	8° ≈ 04'12	
minimum elong	3890 Feb 07 00:38	18° ≈ 15'17	3°01'57	inferior conj	3891 Jan 22 08:54	1° ≈ 51′09	2°29'51
min. Earth dist.	3890 Feb 08 00:55	16° ≈ 53'52	0.67074 AU	minimum elong	3891 Jan 22 06:25	1° ≈ 59'43	2°29'07
morning rise	3890 Feb 12 08:03	11° ≈ 53'33		min. Earth dist.	3891 Jan 22 18:02	1° ≈ 19'40	0.67727 AU
direct	3890 Feb 18 05:46	9° ≈ 15'12			3891 Jan 23 17:23	30°Rる	
morning max el	3890 Mar 02 01:57	16° ≈ 19'40	25°07'54	morning rise	3891 Jan 27 12:10	25° පි 38'23	
desc. node	3890 Mar 05 09:18	19°≈54'03		direct	3891 Feb 01 19:24	23° る 18'51	
	3890 Mar 13 09:51	0°) €		morning max el	3891 Feb 12 10:33	29° る 38'37	23°40'17
	3890 Apr 02 00:19	0°Υ			3891 Feb 12 18:58	0° ≈	
morning set	3890 Apr 07 06:12	9° Υ 08'55	1 26665 ATT	desc. node	3891 Feb 20 06:21	8°≈44'58	
max. Earth dist.	3890 Apr 10 21:41	15° Y 48′28	1.36665 AU	. ,	3891 Mar 07 05:58	0°)(
superior conj	2000 Amr 17 02:52	27° Ƴ 48'42	1016112	morning set	3891 Mar 19 19:14	20°\(1 \)14'40 27°\(0 \)1'33	1.38776 AU
minimum elong	3890 Apr 17 03:52 3890 Apr 17 07:52	28° Y $08'26$		max. Earth dist.	3891 Mar 23 17:12 3891 Mar 25 09:23	2/°π01′33 0°Υ	1.38//0 AU
minimum ciong	3890 Apr 18 06:23	0° 8	1 13 33		3691 Widi 23 09.23	0 1	
evening rise	3890 Apr 25 10:58	14° 8 29'33		superior conj	3891 Mar 31 03:28	10° Ƴ 33'38	10/11/25
asc. node	3890 Apr 25 10:38 3890 Apr 25 06:13	14° 8 05'38		minimum elong	3891 Mar 31 03:28	10° Υ 55'51	
ase. Hode	3890 May 03 14:27	0°II		evening rise	3891 Apr 09 07:30	28° Υ 14'32	1 4104
evening max el	3890 May 12 16:18	12° ∏ 29'14	19°37'13	evening rise	3891 Apr 10 05:13	0°8	
retrograde	3890 May 22 08:51	17° I I11'52	1, 3, 13	asc. node	3891 Apr 12 03:16	3° 8 41'47	
evening set	3890 May 24 08:07	17° I 101'04		evening max el	3891 Apr 25 15:31	24° 8 37'33	18°47'03
desc. node	3890 Jun 01 08:29	13° Ⅱ 24'27		retrograde	3891 May 03 19:50	28° 8 37'51	
inferior conj	3890 Jun 02 01:39	12° Ⅲ 57'31	-0°12'40	evening set	3891 May 06 00:04	28° 8 21'55	
minimum elong	3890 Jun 02 01:05	12° ∏ 58′25		inferior conj	3891 May 13 21:54	24° 8 01'14	1°29'28
transit middle	3890 Jun 02 01:05	12° Ⅱ 58′25	0°12'27	minimum elong	3891 May 14 00:59	23° 8 55'33	1°28'27
transit begin	3890 Jun 01 22:38	13° Ⅱ 02'17		min. Earth dist.	3891 May 17 04:03	21° 8 38'57	0.57226 AU
transit end	3890 Jun 02 03:33	12° Ⅱ 54'32		desc. node	3891 May 19 05:32	20° 8 17'36	
min. Earth dist.	3890 Jun 04 11:31	11° Ⅱ 26'40	0.55656 AU	morning rise	3891 May 21 22:41	18° 8 51'42	
morning rise	3890 Jun 10 15:32	8° Ⅲ 23'17		direct	3891 May 27 10:19	17° 8 38'27	
direct	3890 Jun 15 03:37	7° Ⅱ 37'58		morning max el	3891 Jun 10 18:37	25° 8 08'24	26°14'43
morning max el	3890 Jun 29 03:13	14° Ⅱ 38'39	24°43'05		3891 Jun 15 06:45	Π $^{\circ}0$	
	3890 Jul 11 06:20	0 \circ \odot			3891 Jul 04 07:32	0 \circ \odot	
asc. node	3890 Jul 22 05:27	19° © 51'25		morning set	3891 Jul 09 07:18	10° 5 09'03	
morning set	3890 Jul 24 20:18	25° © 18'04		asc. node	3891 Jul 09 02:31	9° 5 43'49	
	3890 Jul 27 00:58	0 $^{\circ}\Omega$					
		_		superior conj	3891 Jul 16 06:36	25° © 18'36	1°08'59
superior conj	3890 Jul 31 19:15			minimum elong	3891 Jul 16 04:17	25° © 05'51	1°08'36
minimum elong	3890 Jul 31 17:00	10° Ω 10'34		max. Earth dist.	3891 Jul 16 19:22	26°\$28'56	1.32216 AU
max. Earth dist.	3890 Aug 02 09:33	13° Ω 50'55	1.32799 AU		3891 Jul 18 09:48	0 \circ Ω	
evening rise	3890 Aug 08 00:54	25° Ω 45'00		evening rise	3891 Jul 23 05:20	10° Ω 19'47	
	3890 Aug 10 03:33	0° т р			3891 Aug 02 10:02	0° m/y	
	3890 Aug 27 15:35	0∘ ⊽		desc. node	3891 Aug 15 04:49	19° m 32'22	0 #0000=
desc. node	3890 Aug 28 07:47	0° £ 58′03	amaa ::: =	evening max el	3891 Aug 23 05:45	28° m 36'31	27°03'37
evening max el	3890 Sep 09 23:52	16° £ 11'03	27~26'17		3891 Aug 24 18:33	0° ⊡	
retrograde	3890 Sep 23 17:04	23° £ 26'53		retrograde	3891 Sep 06 02:41	5° £ 48'32	

	2001 0 12 04 05	20 0 25151		. 1	2002 4 10 02 56	170m-22116	
evening set	3891 Sep 13 04:05	3° Ω 35'51	0 (1110 177	retrograde	3892 Aug 18 03:56	17° m 23'16	
min. Earth dist.	3891 Sep 16 20:02		0.61112 AU	evening set	3892 Aug 24 14:06	15° m 42'58	
	3891 Sep 17 21:50	30°Ŗ ₯		min. Earth dist.	3892 Aug 28 17:17	13° m 07'42	
inferior conj	3891 Sep 19 23:37	28° Mp 11'46	-4°18'18	inferior conj	3892 Aug 31 23:43	10° m 40'44	
minimum elong	3891 Sep 20 05:28	27° m 59'07	4°16'56	minimum elong	3892 Sep 01 03:39	10° m 33'20	4°57'20
morning rise	3891 Sep 27 08:40	23° m 20'12		morning rise	3892 Sep 08 19:25	6° Mp 12′12	
direct	3891 Sep 29 17:21	22° m 57'39		direct	3892 Sep 11 05:36	5° Mp 52'18	
asc. node	3891 Oct 05 01:44	24° m 58'27		morning max el	3892 Sep 19 05:12	9° ™ 42'47	18°28'35
morning max el	3891 Oct 06 20:40	26° Mp 31'03	17°59'26	asc. node	3892 Sep 20 22:48	11°M 32'12	
	3891 Oct 09 21:28	0∘ ⊽			3892 Oct 02 11:42	0∘ ত	
morning set	3891 Oct 22 15:29	21° ≏ 25′05		morning set	3892 Oct 05 07:03	5° £ 21'30	
S	3891 Oct 27 07:35	0°M		Ü			
				superior conj	3892 Oct 14 06:07	22° ჲ 25'35	1°26'19
superior conj	3891 Nov 01 19:12	9° M 49'33	1°02'33	minimum elong	3892 Oct 14 09:34	22° £ 41'34	1°25'59
minimum elong	3891 Nov 01 13:12	10°M07'56	1°02'02	minimum ciong	3892 Oct 14 09:57	0°M	1 23 37
max. Earth dist.	3891 Nov 09 09:31	22°M47'46	1.42224 AU	max. Earth dist.	3892 Oct 21 16:26	5°M45'09	1.40240 AU
		25°M43'16	1.42224 AU			13°M05'02	1.40240 AU
desc. node	3891 Nov 11 04:07			evening rise	3892 Oct 26 00:05		
	3891 Nov 13 19:27	0° ₹		desc. node	3892 Oct 28 01:08	16°M27'10	
evening rise	3891 Nov 15 08:35	2° ∡ 28′23			3892 Nov 05 15:48	0° ∡	
	3891 Dec 03 17:13	0°る			3892 Nov 28 00:40	0°ಕ	
evening max el	3891 Dec 18 03:19		22°21'11	evening max el	3892 Nov 29 17:42	1° る 46'30	23°41'06
retrograde	3891 Dec 27 18:23	23° ろ 53'08		retrograde	3892 Dec 10 11:44	8° る 07'26	
evening set	3892 Jan 01 08:04	22° る 02'10		evening set	3892 Dec 15 14:08	6° る 00'24	
asc. node	3892 Jan 01 01:01	22° る 16'12		asc. node	3892 Dec 17 22:03	3° る 37'17	
inferior conj	3892 Jan 06 16:34	15° ₹ 41′05	1°49'18	min. Earth dist.	3892 Dec 20 10:48	0° る 20'46	0.67892 AU
minimum elong	3892 Jan 06 14:25	15° る 48'35	1°48'32		3892 Dec 20 16:54	30°₽ ⋌ ¹	
min. Earth dist.	3892 Jan 06 14:06	15° る 49'40	0.67990 AU	inferior conj	3892 Dec 21 00:08	29° ∡ ³35′16	1°02'04
morning rise	3892 Jan 11 20:38	9° る 30'57		minimum elong	3892 Dec 20 22:44	29° √ 40′02	1°01'31
direct	3892 Jan 16 12:58	7° る 33'54		morning rise	3892 Dec 26 07:20	23° × ⁷ 29'29	
morning max el	3892 Jan 25 22:00	13° る 04'36	22°12'13	direct	3892 Dec 30 09:35	21° х 55'13	
desc. node	3892 Feb 07 03:23	28° る 13'36		morning max el	3893 Jan 07 15:36	26° ∡ ¹40'54	20°51'29
desc. node	3892 Feb 08 09:49	0°≈		morning max or	3893 Jan 10 16:16	ිප ලංප	20 312)
morning set	3892 Feb 28 04:14	0 ~ 29° ≈ 58'55		desc. node	3893 Jan 24 00:25	18° る 09'38	
morning set	3892 Feb 28 04:14 3892 Feb 28 04:30	29 ≈ 38 33		desc. Hode	3893 Jan 31 22:07	18 ⊙ 0938	
Footh dist			1 40042 ATT				
max. Earth dist.	3892 Mar 04 14:40	8°A5/02	1.40942 AU	morning set	3893 Feb 06 10:31	8°≈30'35	1 42076 411
	200211 12 00 12	2221/2454	2000110	max. Earth dist.	3893 Feb 14 18:37	21°≈46'36	1.42876 AU
superior conj	3892 Mar 12 09:12	22°) (24'54			3893 Feb 19 18:26	0° ∀	
minimum elong	3892 Mar 12 12:55	22°) 41'25	2°00'07				
	3892 Mar 16 13:51	0° Υ		superior conj	3893 Feb 21 16:05	3° 光 11'45	
evening rise	3892 Mar 22 17:14	11° Y ′24'07		minimum elong	3893 Feb 21 15:55	3° ₩ 11'03	2°07'30
asc. node					3073100 21 13.33		
	3892 Mar 29 00:19	22° Y 57'00		evening rise	3893 Mar 05 12:07	23°) 49'34	
	3892 Mar 29 00:19 3892 Apr 02 05:58	22°Y'57'00 0° と					
evening max el			18°17'04		3893 Mar 05 12:07	23°) 49'34	
evening max el retrograde	3892 Apr 02 05:58	0° 8	18°17'04	evening rise	3893 Mar 05 12:07 3893 Mar 08 23:23	23°) 49'34 0° Υ	18°06'50
•	3892 Apr 02 05:58 3892 Apr 07 22:29	0° 8 7° 8 17'29	18°17'04	evening rise	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22	23°¥49'34 0° ° 11° ° 44'38	18°06'50
retrograde	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50	0° と 7° と 17'29 10° と 51'21	18°17'04 2°40'14	evening rise asc. node evening max el	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56	23°) 49'34 0° Υ 11° Υ 44'38 20° Υ 20'55	18°06'50
retrograde evening set	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50 3892 Apr 17 12:33 3892 Apr 24 15:35	0°8 7°817'29 10°851'21 10°827'08		evening rise asc. node evening max el retrograde	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56 3893 Mar 28 23:42	23°¥49'34 0°°Y 11°°Y44'38 20°°Y20'55 23°°Y43'53	18°06'50 3°20'25
retrograde evening set inferior conj	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50 3892 Apr 17 12:33 3892 Apr 24 15:35 3892 Apr 24 19:09	0°8 7°817'29 10°851'21 10°827'08 5°846'05	2°40'14	asc. node evening max el retrograde evening set inferior conj	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56 3893 Mar 28 23:42 3893 Mar 31 16:36	23°\;\;49'34 0°\?\ 11°\?\;44'38 20°\?\;20'55 23°\?\;43'53 23°\?\;09'21	
retrograde evening set inferior conj minimum elong min. Earth dist.	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50 3892 Apr 17 12:33 3892 Apr 24 15:35 3892 Apr 24 19:09 3892 Apr 28 01:45	0°8 7°817'29 10°851'21 10°827'08 5°846'05 5°838'23 2°851'00	2°40'14 2°39'23	asc. node evening max el retrograde evening set	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56 3893 Mar 28 23:42 3893 Mar 31 16:36 3893 Apr 07 04:26 3893 Apr 07 06:40	23°¥49'34 0°♥ 11°¥44'38 20°¥20'55 23°¥43'53 23°¥09'21 18°¥08'01	3°20'25
retrograde evening set inferior conj minimum elong	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50 3892 Apr 17 12:33 3892 Apr 24 15:35 3892 Apr 24 19:09 3892 Apr 28 01:45 3892 May 01 23:01	0°8 7°817'29 10°851'21 10°827'08 5°846'05 5°838'23 2°851'00 0°807'31	2°40'14 2°39'23	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56 3893 Mar 28 23:42 3893 Mar 31 16:36 3893 Apr 07 04:26 3893 Apr 07 06:40 3893 Apr 10 06:54	23°\; 49'34 0°\° 11°\° 44'38 20°\° 20'55 23°\° 43'53 23°\° 09'21 18°\° 08'01 18°\° 02'29 15°\° 05'01	3°20'25 3°20'07
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50 3892 Apr 17 12:33 3892 Apr 24 15:35 3892 Apr 24 19:09 3892 Apr 28 01:45 3892 May 01 23:01 3892 May 02 04:25	0°8 7°817'29 10°851'21 10°827'08 5°846'05 5°838'23 2°851'00 0°807'31 30°8℃	2°40'14 2°39'23	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56 3893 Mar 28 23:42 3893 Mar 31 16:36 3893 Apr 07 04:26 3893 Apr 07 06:40 3893 Apr 10 06:54 3893 Apr 13 18:55	23°\;\\ 49'34 0°\?\\ 11°\?\\ 44'38 20°\?\\ 20'55 23°\?\\ 43'53 23°\?\\ 09'21 18°\?\\ 08'01 18°\?\\ 05'01 12°\?\\ 11'04	3°20'25 3°20'07
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50 3892 Apr 17 12:33 3892 Apr 24 15:35 3892 Apr 24 19:09 3892 Apr 28 01:45 3892 May 01 23:01 3892 May 02 04:25 3892 May 05 02:35	0°8 7°817'29 10°851'21 10°827'08 5°846'05 5°838'23 2°851'00 0°807'31 30°8℃ 28°℃46'20	2°40'14 2°39'23	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56 3893 Mar 28 23:42 3893 Mar 31 16:36 3893 Apr 07 04:26 3893 Apr 07 06:40 3893 Apr 10 06:54 3893 Apr 13 18:55 3893 Apr 20 13:56	23°\(\)49'34 0°\(\)744'38 20°\(\)20'55 23°\(\)43'53 23°\(\)90'21 18°\(\)08'01 18°\(\)08'01 12°\(\)11'04 9°\(\)49'47	3°20'25 3°20'07
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50 3892 Apr 17 12:33 3892 Apr 24 15:35 3892 Apr 24 19:09 3892 Apr 28 01:45 3892 May 01 23:01 3892 May 02 04:25 3892 May 05 02:35 3892 May 08 06:26	0°8 7°817'29 10°851'21 10°827'08 5°846'05 5°838'23 2°851'00 0°807'31 30°8℃ 28°℃46'20 28°℃19'04	2°40'14 2°39'23	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56 3893 Mar 28 23:42 3893 Mar 31 16:36 3893 Apr 07 04:26 3893 Apr 07 06:40 3893 Apr 10 06:54 3893 Apr 13 18:55 3893 Apr 20 13:56 3893 Apr 21 23:38	23°¥49'34 0°Y 11°Y44'38 20°Y20'55 23°Y43'53 23°Y09'21 18°Y08'01 18°Y02'29 15°Y05'01 12°Y11'04 9°Y49'47 9°Y55'30	3°20'25 3°20'07 0.61463 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50 3892 Apr 17 12:33 3892 Apr 24 15:35 3892 Apr 24 19:09 3892 Apr 28 01:45 3892 May 01 23:01 3892 May 02 04:25 3892 May 05 02:35 3892 May 08 06:26 3892 May 14 14:27	0°8 7°817'29 10°851'21 10°827'08 5°846'05 5°838'23 2°851'00 0°807'31 30°87 28°746'20 28°719'04 0°8	2°40'14 2°39'23 0.59276 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56 3893 Mar 28 23:42 3893 Mar 31 16:36 3893 Apr 07 04:26 3893 Apr 07 06:40 3893 Apr 10 06:54 3893 Apr 10 18:55 3893 Apr 20 13:56 3893 Apr 21 23:38 3893 May 04 18:43	23°\(\pma49'34\) 0°\(\pma*\) 11°\(\pma44'38\) 20°\(\pma20'55\) 23°\(\pma92'1\) 18°\(\pma90'21\) 18°\(\pma90'22\) 15°\(\pma50'1\) 12°\(\pma11'04\) 9°\(\pma49'47\) 9°\(\pma55'30\) 17°\(\pma47'29\)	3°20'25 3°20'07 0.61463 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50 3892 Apr 17 12:33 3892 Apr 24 15:35 3892 Apr 24 19:09 3892 Apr 28 01:45 3892 May 01 23:01 3892 May 02 04:25 3892 May 05 02:35 3892 May 08 06:26 3892 May 14 14:27 3892 May 22 15:32	0°8 7°817'29 10°851'21 10°827'08 5°846'05 5°838'23 2°851'00 0°807'31 30°8° 28°°46'20 28°°46'20 28°°407'24	2°40'14 2°39'23 0.59276 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56 3893 Mar 28 23:42 3893 Mar 31 16:36 3893 Apr 07 04:26 3893 Apr 07 06:40 3893 Apr 10 06:54 3893 Apr 13 18:55 3893 Apr 20 13:56 3893 Apr 21 23:38 3893 May 04 18:43 3893 May 14 23:17	23°\(\cdot\)49'34 0°\(\cdot\) 11°\(\cdot\)44'38 20°\(\cdot\)20'55 23°\(\cdot\)43'53 23°\(\cdot\)09'21 18°\(\cdot\)02'29 15°\(\cdot\)05'01 12°\(\cdot\)11'04 9°\(\cdot\)49'47 9°\(\cdot\)55'30 17°\(\cdot\)47'29 0°\(\cdot\)	3°20'25 3°20'07 0.61463 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50 3892 Apr 17 12:33 3892 Apr 24 15:35 3892 Apr 24 19:09 3892 Apr 28 01:45 3892 May 01 23:01 3892 May 02 04:25 3892 May 05 02:35 3892 May 08 06:26 3892 May 14 14:27 3892 May 22 15:32 3892 Jun 09 10:36	0°8 7°817'29 10°851'21 10°827'08 5°846'05 5°838'23 2°851'00 0°807'31 30°8℃ 28°℃46'20 28°℃46'20 0°8 6°807'24 0°8	2°40'14 2°39'23 0.59276 AU	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56 3893 Mar 28 23:42 3893 Mar 31 16:36 3893 Apr 07 04:26 3893 Apr 07 06:40 3893 Apr 10 06:54 3893 Apr 10 13:55 3893 Apr 20 13:56 3893 Apr 21 23:38 3893 May 04 18:43 3893 May 14 23:17 3893 Jun 02 03:50	23°\;\(49'34\) 0°\(\nabla\) 11°\(\nabla\)44'38 20°\(\nabla\)20'\(\nabla\)55 23°\(\nabla\)43'53 23°\(\nabla\)92'1 18°\(\nabla\)8'01 18°\(\nabla\)02'29 15°\(\nabla\)5'01 12°\(\nabla\)1'04 9°\(\nabla\)4'47 9°\(\nabla\)5'30 17°\(\nabla\)4'729 0°\(\nabla\)	3°20'25 3°20'07 0.61463 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50 3892 Apr 17 12:33 3892 Apr 24 15:35 3892 Apr 24 19:09 3892 Apr 28 01:45 3892 May 01 23:01 3892 May 02 04:25 3892 May 05 02:35 3892 May 08 06:26 3892 May 14 14:27 3892 May 22 15:32 3892 Jun 09 10:36 3892 Jun 22 15:48	0°8 7°817'29 10°851'21 10°827'08 5°846'05 5°838'23 2°851'00 0°807'31 30°8℃ 28°℃46'20 28°℃19'04 0°8 6°807'24 0°11 24°1150'25	2°40'14 2°39'23 0.59276 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56 3893 Mar 28 23:42 3893 Mar 31 16:36 3893 Apr 07 04:26 3893 Apr 07 06:40 3893 Apr 10 06:54 3893 Apr 10 06:54 3893 Apr 20 13:56 3893 Apr 21 23:38 3893 May 04 18:43 3893 May 14 23:17 3893 Jun 02 03:50 3893 Jun 06 19:54	23°¥49'34 0°Y 11°Y44'38 20°Y20'55 23°Y43'53 23°Y09'21 18°Y08'01 18°Y02'29 15°Y05'01 12°Y11'04 9°Y49'47 9°Y55'30 17°Y47'29 0°B 0°I 9°I16'04	3°20'25 3°20'07 0.61463 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50 3892 Apr 17 12:33 3892 Apr 24 15:35 3892 Apr 24 19:09 3892 Apr 28 01:45 3892 May 01 23:01 3892 May 02 04:25 3892 May 05 02:35 3892 May 08 06:26 3892 May 14 14:27 3892 May 22 15:32 3892 Jun 09 10:36 3892 Jun 09 10:36 3892 Jun 22 15:48 3892 Jun 24 23:34	0°8 7°817'29 10°851'21 10°827'08 5°846'05 5°838'23 2°851'00 0°807'31 30°8℃ 28°℃19'04 0°8 6°807'24 0°Ⅱ 24°Ⅱ50'25 29°Ⅱ45'49	2°40'14 2°39'23 0.59276 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56 3893 Mar 28 23:42 3893 Mar 31 16:36 3893 Apr 07 04:26 3893 Apr 07 06:40 3893 Apr 10 06:54 3893 Apr 10 06:54 3893 Apr 20 13:56 3893 Apr 21 23:38 3893 May 04 18:43 3893 May 14 23:17 3893 Jun 02 03:50 3893 Jun 06 19:54 3893 Jun 11 20:37	23°¥49'34 0°Y 11°Y44'38 20°Y20'55 23°Y43'53 23°Y09'21 18°Y02'29 15°Y05'01 12°Y11'04 9°Y49'47 9°Y55'30 17°Y47'29 0°B 0°I 9°I16'04 19°I52'56	3°20'25 3°20'07 0.61463 AU 27°50'05
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50 3892 Apr 17 12:33 3892 Apr 24 15:35 3892 Apr 24 19:09 3892 Apr 28 01:45 3892 May 01 23:01 3892 May 02 04:25 3892 May 05 02:35 3892 May 08 06:26 3892 May 14 14:27 3892 May 22 15:32 3892 Jun 09 10:36 3892 Jun 22 15:48	0°8 7°817'29 10°851'21 10°827'08 5°846'05 5°838'23 2°851'00 0°807'31 30°8℃ 28°℃46'20 28°℃19'04 0°8 6°807'24 0°11 24°1150'25	2°40'14 2°39'23 0.59276 AU	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56 3893 Mar 28 23:42 3893 Mar 31 16:36 3893 Apr 07 04:26 3893 Apr 07 06:40 3893 Apr 10 06:54 3893 Apr 10 06:54 3893 Apr 20 13:56 3893 Apr 21 23:38 3893 May 04 18:43 3893 May 14 23:17 3893 Jun 02 03:50 3893 Jun 06 19:54	23°¥49'34 0°Y 11°Y44'38 20°Y20'55 23°Y43'53 23°Y09'21 18°Y08'01 18°Y02'29 15°Y05'01 12°Y11'04 9°Y49'47 9°Y55'30 17°Y47'29 0°B 0°I 9°I16'04	3°20'25 3°20'07 0.61463 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50 3892 Apr 17 12:33 3892 Apr 24 15:35 3892 Apr 24 19:09 3892 Apr 28 01:45 3892 May 01 23:01 3892 May 02 04:25 3892 May 05 02:35 3892 May 08 06:26 3892 May 14 14:27 3892 May 22 15:32 3892 Jun 09 10:36 3892 Jun 09 10:36 3892 Jun 22 15:48 3892 Jun 25 02:13	0°8 7°817'29 10°851'21 10°827'08 5°846'05 5°838'23 2°851'00 0°807'31 30°8° 28°°46'20 28°°419'04 0°8 6°807'24 0°11 24°1150'25 29°1145'49 0°5	2°40'14 2°39'23 0.59276 AU 27°20'11	asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node max. Earth dist.	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56 3893 Mar 28 23:42 3893 Mar 31 16:36 3893 Apr 07 04:26 3893 Apr 07 06:40 3893 Apr 10 06:54 3893 Apr 10 06:54 3893 Apr 20 13:56 3893 Apr 21 23:38 3893 May 04 18:43 3893 May 04 18:43 3893 May 14 23:17 3893 Jun 02 03:50 3893 Jun 06 19:54 3893 Jun 11 20:37 3893 Jun 12 17:01	23°\;\(49'34\) 0°\(\psi\) 11°\(\psi\)44'38 20°\(\psi\)20'55 23°\(\psi\)43'53 23°\(\psi\)09'21 18°\(\psi\)08'01 18°\(\psi\)05'01 12°\(\psi\)10'4 9°\(\psi\)47'29 0°\(\beta\) 0°\(\mathbf{I}\) 9°\(\mathbf{I}\)16'04 19°\(\mathbf{I}\)52'56 21°\(\mathbf{I}\)43'26	3°20'25 3°20'07 0.61463 AU 27°50'05
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50 3892 Apr 17 12:33 3892 Apr 24 15:35 3892 Apr 24 19:09 3892 Apr 28 01:45 3892 May 01 23:01 3892 May 02 04:25 3892 May 05 02:35 3892 May 08 06:26 3892 May 14 14:27 3892 May 22 15:32 3892 Jun 09 10:36 3892 Jun 09 10:36 3892 Jun 22 15:48 3892 Jun 25 02:13	0°8 7°817'29 10°851'21 10°827'08 5°846'05 5°838'23 2°851'00 0°807'31 30°8℃ 28°℃19'04 0°8 6°807'24 0°Ⅱ 24°Ⅱ50'25 29°Ⅱ45'49	2°40'14 2°39'23 0.59276 AU 27°20'11	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56 3893 Mar 28 23:42 3893 Mar 31 16:36 3893 Apr 07 04:26 3893 Apr 07 06:40 3893 Apr 10 06:54 3893 Apr 13 18:55 3893 Apr 20 13:56 3893 Apr 21 23:38 3893 May 04 18:43 3893 May 04 18:43 3893 May 14 23:17 3893 Jun 02 03:50 3893 Jun 06 19:54 3893 Jun 11 20:37 3893 Jun 12 17:01	23°\;\(49'34\) 0°\(\psi\) 11°\(\psi\)44'38 20°\(\psi\)20'55 23°\(\psi\)43'53 23°\(\psi\)09'21 18°\(\psi\)08'01 18°\(\psi\)02'29 15°\(\psi\)05'01 12°\(\psi\)11'04 9°\(\psi\)47'29 0°\(\psi\) 0°\(\mathbf{I}\) 9°\(\mathbf{I}\)16'04 19°\(\mathbf{I}\)52'56 21°\(\mathbf{I}\)43'26	3°20'25 3°20'07 0.61463 AU 27°50'05
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retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50 3892 Apr 17 12:33 3892 Apr 24 15:35 3892 Apr 24 19:09 3892 Apr 28 01:45 3892 May 01 23:01 3892 May 02 04:25 3892 May 05 02:35 3892 May 08 06:26 3892 May 14 14:27 3892 May 22 15:32 3892 Jun 09 10:36 3892 Jun 22 15:48 3892 Jun 22 15:48 3892 Jun 25 02:13 3892 Jun 29 18:22 3892 Jun 29 18:22	0°8 7°817'29 10°851'21 10°827'08 5°846'05 5°838'23 2°851'00 0°807'31 30°8°4 28°746'20 28°719'04 0°8 6°807'24 0°II 24°II50'25 29°II45'49 0°© 10°©12'31 10°©01'53	2°40'14 2°39'23 0.59276 AU 27°20'11 0°48'25 0°48'01	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node max. Earth dist. superior conj	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56 3893 Mar 28 23:42 3893 Mar 31 16:36 3893 Apr 07 04:26 3893 Apr 07 06:40 3893 Apr 10 06:54 3893 Apr 10 18:55 3893 Apr 20 13:56 3893 Apr 21 23:38 3893 May 04 18:43 3893 May 14 23:17 3893 Jun 02 03:50 3893 Jun 06 19:54 3893 Jun 11 20:37 3893 Jun 12 17:01 3893 Jun 14 04:52 3893 Jun 14 03:46	23°\(\cdot\)49'34 0°\(\cdot\) 11°\(\cdot\)44'38 20°\(\cdot\)20'55 23°\(\cdot\)43'53 23°\(\cdot\)90'21 18°\(\cdot\)02'29 15°\(\cdot\)05'01 12°\(\cdot\)11'04 9°\(\cdot\)49'47 9°\(\cdot\)45'530 17°\(\cdot\)47'29 0°\(\cdot\)8 0°\(\cdot\)9°\(\cdot\)152'56 21°\(\cdot\)43'26 24°\(\cdot\)52'55	3°20'25 3°20'07 0.61463 AU 27°50'05
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node superior conj minimum elong max. Earth dist.	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50 3892 Apr 17 12:33 3892 Apr 24 15:35 3892 Apr 24 19:09 3892 Apr 28 01:45 3892 May 01 23:01 3892 May 02 04:25 3892 May 05 02:35 3892 May 08 06:26 3892 May 14 14:27 3892 May 22 15:32 3892 Jun 09 10:36 3892 Jun 22 15:48 3892 Jun 22 15:48 3892 Jun 24 23:34 3892 Jun 25 02:13 3892 Jun 29 18:22 3892 Jun 29 16:27 3892 Jun 29 07:09	0°8 7°817'29 10°851'21 10°827'08 5°846'05 5°838'23 2°851'00 0°807'31 30°8°4 28°46'20 28°46'20 28°40'24 0°8 6°807'24 0°1 24°150'25 29°145'49 0°9 10°912'31 10°901'53 9°910'39	2°40'14 2°39'23 0.59276 AU 27°20'11 0°48'25 0°48'01	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56 3893 Mar 28 23:42 3893 Mar 31 16:36 3893 Apr 07 04:26 3893 Apr 07 06:40 3893 Apr 10 06:54 3893 Apr 10 13:55 3893 Apr 20 13:56 3893 Apr 21 23:38 3893 May 04 18:43 3893 May 14 23:17 3893 Jun 02 03:50 3893 Jun 06 19:54 3893 Jun 11 20:37 3893 Jun 12 17:01 3893 Jun 14 04:52 3893 Jun 14 03:46 3893 Jun 16 11:49	23°\(\cdot\)49'34 0°\(\cdot\) 11°\(\cdot\)44'38 20°\(\cdot\)20'55 23°\(\cdot\)43'53 23°\(\cdot\)90'21 18°\(\cdot\)02'29 15°\(\cdot\)05'01 12°\(\cdot\)11'04 9°\(\cdot\)47'29 0°\(\cdot\)47'29 0°\(\cdot\)47'29 0°\(\cdot\)47'29 0°\(\cdot\)47'29 20°\(\cdot\)43'26 24°\(\cdot\)58'56 24°\(\cdot\)58'56 24°\(\cdot\)52'55 0°\(\omega\)	3°20'25 3°20'07 0.61463 AU 27°50'05
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node superior conj minimum elong max. Earth dist.	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50 3892 Apr 17 12:33 3892 Apr 24 15:35 3892 Apr 24 19:09 3892 Apr 28 01:45 3892 May 01 23:01 3892 May 02 04:25 3892 May 05 02:35 3892 May 08 06:26 3892 May 14 14:27 3892 May 22 15:32 3892 Jun 09 10:36 3892 Jun 22 15:48 3892 Jun 22 15:48 3892 Jun 22 15:48 3892 Jun 25 02:13 3892 Jun 29 16:27 3892 Jun 29 16:27 3892 Jun 29 07:09 3892 Jul 06 14:13	0°8 7°817'29 10°851'21 10°827'08 5°846'05 5°838'23 2°851'00 0°807'31 30°8°4 28°746'20 28°719'04 0°8 6°807'24 0°II 24°II50'25 29°II45'49 0°© 10°©12'31 10°©01'53 9°©10'39 25°©05'14	2°40'14 2°39'23 0.59276 AU 27°20'11 0°48'25 0°48'01	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56 3893 Mar 28 23:42 3893 Mar 31 16:36 3893 Apr 07 04:26 3893 Apr 07 06:40 3893 Apr 10 06:54 3893 Apr 13 18:55 3893 Apr 20 13:56 3893 Apr 21 23:38 3893 Apr 21 23:38 3893 May 04 18:43 3893 May 14 23:17 3893 Jun 02 03:50 3893 Jun 06 19:54 3893 Jun 11 20:37 3893 Jun 12 17:01 3893 Jun 14 04:52 3893 Jun 14 03:46 3893 Jun 16 11:49 3893 Jun 21 01:30	23°\(\cdot\)49'34 0°\(\cdot\) 11°\(\cdot\)44'38 20°\(\cdot\)20'55 23°\(\cdot\)43'53 23°\(\cdot\)90'21 18°\(\cdot\)03'01 12°\(\cdot\)10'04 9°\(\cdot\)49'47 9°\(\cdot\)55'30 17°\(\cdot\)47'29 0°\(\cdot\) 0°\(\Ldot\) 9°\(\Ldot\)16'04 19°\(\Ldot\)52'56 21°\(\Ldot\)43'26 24°\(\Ldot\)58'56 24°\(\Ldot\)58'56 24°\(\Ldot\)52'55 0°\(\sigma\) 9°\(\sigma\)54'41	3°20'25 3°20'07 0.61463 AU 27°50'05 1.32252 AU 0°24'24 0°24'09
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node superior conj minimum elong max. Earth dist.	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50 3892 Apr 17 12:33 3892 Apr 24 15:35 3892 Apr 24 19:09 3892 Apr 28 01:45 3892 May 01 23:01 3892 May 02 04:25 3892 May 05 02:35 3892 May 08 06:26 3892 May 14 14:27 3892 May 22 15:32 3892 Jun 09 10:36 3892 Jun 09 10:36 3892 Jun 22 15:48 3892 Jun 24 23:34 3892 Jun 25 02:13 3892 Jun 29 16:27 3892 Jun 29 16:27 3892 Jun 29 07:09 3892 Jul 06 14:13 3892 Jul 08 22:44 3892 Jul 26 09:38	0°8 7°817'29 10°851'21 10°827'08 5°846'05 5°838'23 2°851'00 0°807'31 30°8°4 28°4'46'20 28°4'19'04 0°8 6°807'24 0°11 24°150'25 29°145'49 0°9 10°912'31 10°901'53 9°910'39 25°905'14 0°10	2°40'14 2°39'23 0.59276 AU 27°20'11 0°48'25 0°48'01	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56 3893 Mar 28 23:42 3893 Mar 31 16:36 3893 Apr 07 04:26 3893 Apr 07 06:40 3893 Apr 10 06:54 3893 Apr 13 18:55 3893 Apr 20 13:56 3893 Apr 21 23:38 3893 Apr 21 23:38 3893 May 04 18:43 3893 May 14 23:17 3893 Jun 02 03:50 3893 Jun 06 19:54 3893 Jun 11 20:37 3893 Jun 12 17:01 3893 Jun 14 04:52 3893 Jun 14 03:46 3893 Jun 16 11:49 3893 Jun 21 01:30 3893 Jul 01 08:35	23°\(\chi49'\)34 0°\(\chi\)744'\(\frac{1}{3}\)8 20°\(\chi20'\)55 23°\(\chi43'\)53 23°\(\chi90'\)21 18°\(\chi02'\)29 15°\(\chi05'\)01 12°\(\chi11'\)4 9°\(\chi49'\)47'\29 0°\(\chi\)8 0°\(\mathbf{I}\)9°\(\mathbf{I}16'\)04 19°\(\mathbf{I}52'\)55 24°\(\mathbf{I}52'\)55 0°\(\omega\)9°\(\omega\)54'\41 0°\(\Omega\)21°\(\Omega\)06'\31	3°20'25 3°20'07 0.61463 AU 27°50'05 1.32252 AU 0°24'24 0°24'09
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node superior conj minimum elong max. Earth dist. evening rise	3892 Apr 02 05:58 3892 Apr 07 22:29 3892 Apr 15 01:50 3892 Apr 17 12:33 3892 Apr 24 15:35 3892 Apr 24 19:09 3892 Apr 28 01:45 3892 May 01 23:01 3892 May 02 04:25 3892 May 05 02:35 3892 May 08 06:26 3892 May 14 14:27 3892 May 22 15:32 3892 Jun 09 10:36 3892 Jun 29 10:36 3892 Jun 22 15:48 3892 Jun 24 23:34 3892 Jun 25 02:13 3892 Jun 29 16:27 3892 Jun 29 07:09 3892 Jul 06 14:13 3892 Jul 08 22:44	0°8 7°817'29 10°851'21 10°827'08 5°846'05 5°838'23 2°851'00 0°807'31 30°8°4 28°4'46'20 28°4'19'04 0°8 6°807'24 0°11 24°150'25 29°145'49 0°9 10°912'31 10°901'53 9°910'39 25°905'14 0°\$	2°40'14 2°39'23 0.59276 AU 27°20'11 0°48'25 0°48'01	evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise evening max el	3893 Mar 05 12:07 3893 Mar 08 23:23 3893 Mar 15 21:22 3893 Mar 22 09:56 3893 Mar 28 23:42 3893 Mar 31 16:36 3893 Apr 07 04:26 3893 Apr 07 06:40 3893 Apr 10 06:54 3893 Apr 10 13:55 3893 Apr 20 13:56 3893 Apr 21 23:38 3893 Apr 21 23:38 3893 May 04 18:43 3893 May 14 23:17 3893 Jun 02 03:50 3893 Jun 06 19:54 3893 Jun 12 01:30 3893 Jun 14 04:52 3893 Jun 14 03:46 3893 Jun 16 11:49 3893 Jun 21 01:30 3893 Jul 01 08:35 3893 Jul 16 20:22	23°\(\cdot\)49'34 0°\(\cdot\) 11°\(\cdot\)44'38 20°\(\cdot\)20'55 23°\(\cdot\)43'53 23°\(\cdot\)90'21 18°\(\cdot\)03'01 12°\(\cdot\)10'4 9°\(\cdot\)49'47 9°\(\cdot\)49'47 9°\(\cdot\)47'29 0°\(\cdot\)8 0°\(\cdot\)9°\(\cdot\)16'04 19°\(\cdot\)52'56 21°\(\cdot\)43'26 24°\(\cdot\)58'56 24°\(\cdot\)58'56 24°\(\cdot\)58'55 0°\(\sigma\)9°\(\sigma\)54'41 0°\(\cdot\)	3°20'25 3°20'07 0.61463 AU 27°50'05 1.32252 AU 0°24'24 0°24'09

	2002 4 05 00 01	270 007122			2004 7 07 12 10	2.40TT 4211.0	
evening set	3893 Aug 05 00:01	27° Ω 07'23		evening rise	3894 Jun 05 13:19	24° Ⅱ 42'10	
min. Earth dist.	3893 Aug 10 07:43		0.57089 AU		3894 Jun 08 02:15	0ಂಣ	
inferior conj	3893 Aug 13 04:13	22° Ω 27'25			3894 Jun 26 20:52	$0^{\circ}\Omega$	
minimum elong	3893 Aug 13 03:14	22° Ω 29'04	5°09'32	evening max el	3894 Jun 28 09:33	1° Ω 33'24	23°09'56
morning rise	3893 Aug 21 08:58	18° Ω 20'35		desc. node	3894 Jul 05 19:54	6° Ω 53'54	
direct	3893 Aug 23 23:33	18° Ω 01'28		retrograde	3894 Jul 11 20:34	8° Ω 16'37	
morning max el	3893 Sep 02 04:49	22° Ω 20'36	19°18'58	evening set	3894 Jul 15 13:38	7° Ω 46'32	
asc. node	3893 Sep 07 19:51	29° Ω 07'17		min. Earth dist.	3894 Jul 22 18:54	4° Ω 30'43	0.55595 AU
	3893 Sep 08 10:07	0° m p		inferior conj	3894 Jul 24 13:07	3° Ω 29'08	-4°38'03
morning set	3893 Sep 19 07:21	19° m 42'57		minimum elong	3894 Jul 24 06:19	3° Ω 39'06	4°36'53
	3893 Sep 24 10:45	0∘ ত		•	3894 Jul 31 15:26	30°Rூ	
	•			morning rise	3894 Aug 02 01:20	29° © 36'36	
superior conj	3893 Sep 27 10:16	5° £ 52'13	1°39'44	direct	3894 Aug 04 22:54	29° © 16'27	
minimum elong	3893 Sep 27 12:06	6° ₽ 01'09	1°39'38		3894 Aug 09 01:56	$0^{\circ}\Omega$	
max. Earth dist.	3893 Oct 03 20:31	18° ≏ 01'12	1.38154 AU	morning max el	3894 Aug 15 17:02	4° Ω 16'09	20°30'57
evening rise	3893 Oct 07 15:00	24° Ω 46'14	1.50154710	asc. node	3894 Aug 25 16:53	17° Ω 30'02	20 30 37
evening rise	3893 Oct 07 15:00 3893 Oct 10 15:48	0°M		asc. node	3894 Sep 01 09:51	0° m	
JJ.					•		
desc. node	3893 Oct 14 22:08	7°M03'48		morning set	3894 Sep 03 13:32	4° Mp 21'58	
	3893 Oct 30 08:05	0° ∡ 7	24050145		20049 44 02 51	100% 5000	104491
evening max el	3893 Nov 12 06:15	15° 🗷 27'10	24°58'45	superior conj	3894 Sep 11 02:51	19° M 56'06	1°44'21
retrograde	3893 Nov 24 00:57	22° ∡ 17'12		minimum elong	3894 Sep 11 03:02	19° ™ 57'03	1°44'21
evening set	3893 Nov 29 17:01	19° ≯ 55'10		max. Earth dist.	3894 Sep 16 03:37	29° My 56'12	1.36209 AU
min. Earth dist.	3893 Dec 04 05:47	14° ₹ °49'30	0.67451 AU		3894 Sep 16 04:24	0∘ ⊽	
asc. node	3893 Dec 04 19:05	14° ₹ 05'48		evening rise	3894 Sep 20 02:41	7° ≙ 25'47	
inferior conj	3893 Dec 05 05:49	13° ∡ ³30′28	0°09'10	desc. node	3894 Oct 01 19:10	27° ≏ 28'48	
minimum elong	3893 Dec 05 05:35	13° ∡ ³31'13	0°09'05		3894 Oct 03 09:36	0° M.	
transit middle	3893 Dec 05 05:35	13° ∡ ³31'13	0°09'05	evening max el	3894 Oct 25 18:46	29°M09'46	26°06'40
transit begin	3893 Dec 05 03:18	13° ∡ ³38'46			3894 Oct 26 15:56	0° ∡ ¹	
transit end	3893 Dec 05 07:53	13° ∡ ¹23'41		retrograde	3894 Nov 07 09:10	6° ∡ 17'49	
morning rise	3893 Dec 10 18:19	7° ∡ ³31'14		evening set	3894 Nov 13 15:00	3° х 43′36	
direct	3893 Dec 14 07:59	6° ∡ 17'48		3	3894 Nov 17 05:11	30°RM₁	
morning max el	3893 Dec 21 16:58	10° × 27'43	19°43'08	min. Earth dist.	3894 Nov 17 20:36	29°M13'17	0.66673 AU
greatest brilliancy	3894 Jan 03 20:44	27° × ⁷ 49'15	-0.7m	inferior conj	3894 Nov 19 07:47	27°M24'08	
greatest orimaney	3894 Jan 05 07:53	0°ਰ 0°ਰ	0.7111	minimum elong	3894 Nov 19 07:47	27°M20'08	0°47'40
desc. node	3894 Jan 10 21:24	8°중24'58		asc. node	3894 Nov 19 09:04 3894 Nov 21 16:06	24°M36'22	0 47 40
		8 32438 16° 3 40'36					
morning set	3894 Jan 16 06:31			morning rise	3894 Nov 25 03:35	21°M34'08	
To all the	3894 Jan 24 19:50	0° ≈	1 44222 411	direct	3894 Nov 28 06:36	20°M38'19	10040155
max. Earth dist.	3894 Jan 28 05:47	5° ≈ 23'47	1.44332 AU	morning max el	3894 Dec 05 01:39	24°M23'21	18°49'55
				_	3894 Dec 09 18:47	0°⊀	
superior conj	3894 Feb 01 20:59	12° ≈ 48'44		morning set	3894 Dec 26 17:46	25° х 43′26	
minimum elong	3894 Feb 01 14:50	12° ≈ 23'56	1°57'28	desc. node	3894 Dec 28 18:25	28° ≯ 54'25	
	3894 Feb 12 07:25	0° ∀			3894 Dec 29 11:08	0°ಕ	
evening rise	3894 Feb 15 11:37	5° ∺ 21'34		max. Earth dist.	3895 Jan 10 22:48	19° る 35'02	1.45135 AU
asc. node	3894 Mar 02 18:24	29°) 55′34					
	3894 Mar 02 19:45	0 ° Υ		superior conj	3895 Jan 12 04:37	21° る 32'09	-1°28'35
evening max el	3894 Mar 05 22:43	3° Y 39'09	18°15'44	minimum elong	3895 Jan 11 19:23	20° ප් 55'51	1°27'38
retrograde	3894 Mar 12 09:02	7° Ƴ 05'19			3895 Jan 17 13:19	0° ≈	
evening set	3894 Mar 15 07:49	6° Ƴ 19'11		evening rise	3895 Jan 27 12:23	15° ≈ 56'13	
inferior conj	3894 Mar 21 08:21	0° Υ 58'31	3°36'12		3895 Feb 05 05:38	0° ∀	
minimum elong	3894 Mar 21 08:48	0° Ƴ 57'14	3°36'11	evening max el	3895 Feb 17 10:07	17° ₩ 05'32	18°42'50
Č	3894 Mar 22 05:17	30° ₹		asc. node	3895 Feb 17 15:25	17°) 18'51	
min. Earth dist.	3894 Mar 23 20:58	28° ∺ 10'38	0.63498 AU	retrograde	3895 Feb 24 01:43	20°) (47'18	
morning rise	3894 Mar 27 08:51	24°) 51'43	0.03 170 110	evening set	3895 Feb 27 06:42	19°) (48'40	
direct	3894 Apr 03 06:11	22° H 08'36		inferior conj	3895 Mar 04 23:25	14°) 10'12	2022125
desc. node	3894 Apr 08 20:39	23°) (40'14		minimum elong	3895 Mar 04 22:23	14° X 13'21	3°33'30
desc. Hode	-	23 χ40 14 0° Υ		min. Earth dist.	3895 Mar 06 20:20	14 X 13 21 11° X 53'26	0.65205 AU
	3894 Apr 16 23:47	0° Υ 06'31	27942125			7° H 58'30	0.03203 AU
morning max el	3894 Apr 17 02:23		27 42 33	morning rise	3895 Mar 10 13:36		
	3894 May 08 23:26	0°8		direct	3895 Mar 17 05:28	5°) €07'45	
morning set	3894 May 21 17:17	23° 8 18'47		desc. node	3895 Mar 26 17:39	9°) €28'06	0.700.110.1
	3894 May 25 00:08	0°II		morning max el	3895 Mar 30 12:08	12°) 55′25	27°01'31
max. Earth dist.	3894 May 26 21:09	3° ⊥ 55'35	1.32902 AU		3895 Apr 13 05:49	0° Υ	
					3895 May 01 14:04	9° 8	
superior conj	3894 May 29 12:17	9°Ⅱ32′09	-0°02'22	morning set	3895 May 05 04:53	6° 8 48'42	
minimum elong	3894 May 29 12:24	9° Ⅱ 32'46	0°02'21	max. Earth dist.	3895 May 09 15:58	15° 8 37'44	1.34011 AU
behind sun begin	3894 May 29 07:08	9° Ⅱ 04'29					
behind sun end	3894 May 29 17:40	10° Ⅱ 01′05		superior conj	3895 May 13 14:29	23° 8 44'59	-0°30'56
asc. node	3894 May 29 17:42	10° Ⅱ 01'18		minimum elong	3895 May 13 16:06	23° 8 53'27	0°30'36
	-			٤	-		

asc. node	3895 May 16 14:42 3895 May 16 13:36	0°П05'48 0°П		minimum elong asc. node	3896 Apr 26 12:12 3896 May 02 11:45	7° 8 46'35 20° 8 03'02	0°59'24
evening rise	3895 May 20 23:44 3895 May 31 21:23	9° Ⅱ 20'39 0° ©		evening rise	3896 May 04 06:44 3896 May 07 09:21	23° ႘ 43'55 0°Ⅱ	
evening max el	3895 Jun 10 03:37	12° © 05'11	21°35'45	evening max el	3896 May 22 08:38	23° Ⅱ 09'03	20°15'08
retrograde	3895 Jun 22 11:36	18° © 09'58		retrograde	3896 Jun 02 01:26	28° Ⅲ 22'12	
desc. node	3895 Jun 22 16:55	18° © 09'51		evening set	3896 Jun 04 00:49	28° Ⅱ 12'18	
evening set	3895 Jun 24 23:21	17° © 55'54		desc. node	3896 Jun 08 13:55	26° Ⅱ 43'09	
inferior conj	3895 Jul 04 08:26	13°955'00	-3°16'22	inferior conj	3896 Jun 13 03:31	24° Ⅱ 13'40	-1°21'04
minimum elong	3895 Jul 04 00:14	14°906'29	3°13'52	minimum elong	3896 Jun 12 23:42		1°19'40
min. Earth dist.	3895 Jul 04 05:33	13°959'03	0.54871 AU	min. Earth dist.	3896 Jun 14 17:50		0.55096 AU
morning rise	3895 Jul 13 02:11	10° © 01'26	0.54071710	morning rise	3896 Jun 21 21:16	19° ∏ 58'25	0.55070710
direct	3895 Jul 15 02:11 3895 Jul 16 09:37	9°937'34		direct	3896 Jun 25 20:30	19° ∏ 24'18	
			22002101				22044110
morning max el	3895 Jul 28 17:36	15° © 26'01	22°02'01	morning max el	3896 Jul 09 10:02	26° Ⅱ 01'27	23°44'18
	3895 Aug 08 21:45	0°N			3896 Jul 13 04:45	0.22	
asc. node	3895 Aug 12 13:54	6° Ω 28'10		asc. node	3896 Jul 29 10:58	25°952'57	
morning set	3895 Aug 18 23:18	19° Ω 11'01			3896 Jul 31 11:52	0 \circ Ω	
	3895 Aug 24 01:56	0° т р		morning set	3896 Aug 02 10:50	4° Ω 04'51	
superior conj	3895 Aug 26 04:02	4° m 24'54	1°41'41	superior conj	3896 Aug 09 10:55	19° Ω 10′00	1°32'56
minimum elong	3895 Aug 26 02:54	4° Mp 18'58	1°41'38	minimum elong	3896 Aug 09 08:57	18° Ω 59'20	1°32'45
max. Earth dist.	3895 Aug 29 18:13	11° m 52'01	1.34569 AU	max. Earth dist.	3896 Aug 11 17:35	24° Ω 03′00	1.33325 AU
evening rise	3895 Sep 03 06:36	20° Mp 50'54			3896 Aug 14 13:37	0° m ⁄	
	3895 Sep 08 04:03	0∘ ರಾ		evening rise	3896 Aug 16 22:39	4° Mp 50′38	
desc. node	3895 Sep 18 16:13	17° ≏ 35'22			3896 Aug 30 20:22	0∘ ⊽	
	3895 Sep 27 07:13	0° M		desc. node	3896 Sep 04 13:15	7° ≏ 15'27	
evening max el	3895 Oct 08 07:23	12°M45'49	26°57'30	evening max el	3896 Sep 19 19:01	26° ≏ 04'08	27°24'07
retrograde	3895 Oct 21 11:52	20°M02'14			3896 Sep 24 12:26	0° M	
evening set	3895 Oct 28 05:58	17° M 21'05		retrograde	3896 Oct 03 08:43	3°M22'03	
min. Earth dist.	3895 Nov 01 04:52	13°M26'47	0.65539 AU	evening set	3896 Oct 10 11:15	0°M42'31	
inferior conj	3895 Nov 03 03:56	11° M .11'41	-1°48'39	, and the second	3896 Oct 11 08:50	30° ₽ Ω	
minimum elong	3895 Nov 03 06:58	11°M02'57		min. Earth dist.	3896 Oct 14 04:26	•	0.64050 AU
asc. node	3895 Nov 08 13:07	6°M01'55		inferior conj	3896 Oct 16 15:50	24° £ 47'37	
morning rise	3895 Nov 09 08:49	5°M33'57		minimum elong	3896 Oct 16 20:35	24° Ω 35'14	
direct	3895 Nov 12 03:20	4°M52'03		morning rise	3896 Oct 23 07:12	19° £ 25'22	2 40 13
morning max el	3895 Nov 12 05:20 3895 Nov 18 15:39	8°M22'40	18°13'11	asc. node	3896 Oct 25 10:10	19 2 23 22 18° 2 54'28	
morning max ci		0°×7	16 13 11	direct	3896 Oct 25 10:10	18° ⊆ 53'41	
. ,	3895 Dec 03 14:07						17052122
morning set	3895 Dec 07 09:50	6° ₹ 14'11		morning max el	3896 Nov 01 08:11	22° ₽ 19'00	17°53'33
desc. node	3895 Dec 15 15:28	19° ∡ ³33'39			3896 Nov 07 07:38	0°M	
				morning set	3896 Nov 18 05:37	18°M05'49	
superior conj	3895 Dec 22 07:44	0° る 10'17			3896 Nov 25 06:15	0°⊀	
minimum elong	3895 Dec 22 02:06	29° ₰ ¹48'06	0°43'51				
	3895 Dec 22 05:07	0°ප		superior conj	3896 Dec 01 02:44	9° ∡ ³38'57	0°02'50
max. Earth dist.	3895 Dec 24 18:24	4° ප 01'11	1.45197 AU	minimum elong	3896 Dec 01 03:02	9° ∡ ¹40'13	0°02'48
evening rise	3896 Jan 07 14:47	25° る 39'11		behind sun begin	3896 Nov 30 17:09	8° ₹ 59'58	
	3896 Jan 10 09:46	0° ≈		behind sun end	3896 Dec 01 12:56	10° ∡ °20′23	
greatest brilliancy	3896 Jan 19 13:42	14° ≈ 08'53	-0.7m	desc. node	3896 Dec 01 12:30	10° ∡ 18'40	
	3896 Jan 31 04:21	0° ∀		max. Earth dist.	3896 Dec 06 12:52	18° ∡ ¹21'43	1.44525 AU
evening max el	3896 Jan 31 17:57	0°) 35′47	19°26'54		3896 Dec 13 22:57	ರ°0	
asc. node	3896 Feb 04 12:26	3°) 41′29		evening rise	3896 Dec 17 02:18	4° る 50'51	
retrograde	3896 Feb 07 22:31	4°){ 43'46		Č	3897 Jan 02 20:57	0° ≈	
evening set	3896 Feb 11 10:36	3°) €31'52		evening max el	3897 Jan 13 20:44	14° ≈ 07'23	20°25'56
o ronning sec	3896 Feb 15 01:29	30°R≈		asc. node	3897 Jan 21 09:28	18° ≈ 48'30	20 20 00
inferior conj	3896 Feb 16 22:20	27°≈37'40	3°17'03	retrograde	3897 Jan 21 20:41	18° ≈ 49'42	
minimum elong	3896 Feb 16 20:19	27°≈44'15	3°16'43	evening set	3897 Jan 25 17:18	17°≈23'33	
•				-			2040140
min. Earth dist.	3896 Feb 18 04:11	26°≈00'17	0.66506 AU	inferior conj	3897 Jan 31 02:23	11°≈16'23	2°49'40
morning rise	3896 Feb 22 05:48	21°≈23'57		minimum elong	3897 Jan 30 23:55	11°≈24'46	2°49'04
direct	3896 Feb 28 10:56	18°≈38'22	2505424	min. Earth dist.	3897 Jan 31 18:40	10°≈20'54	0.67393 AU
morning max el	3896 Mar 11 21:48	26°≈02'59	25~54'34	morning rise	3897 Feb 05 06:20	5°≈02'34	
desc. node	3896 Mar 12 14:40	26°≈46'15		direct	3897 Feb 10 21:52	2°≈31'41	
	3896 Mar 15 13:12	0° ∀		morning max el	3897 Feb 22 06:27	9° ≈ 18'58	24°31'19
	3896 Apr 05 19:13	$0^{\circ}\mathbf{\Upsilon}$		desc. node	3897 Feb 27 11:43	15° ≈ 08'40	
morning set	3896 Apr 17 02:45	19° Ƴ 34'37			3897 Mar 10 14:12	0° ∀	
max. Earth dist.	3896 Apr 20 23:24	26° Y 50′51	1.35575 AU		3897 Mar 29 10:54	0 ° Υ	
	3896 Apr 22 14:26	9° 8		morning set	3897 Mar 30 05:30	1° Y 21'15	
				max. Earth dist.	3897 Apr 02 21:07	7° Y ′52'19	1.37532 AU
superior conj	3896 Apr 26 09:00	7° 8 30'24	-0°59'59				

superior conj	3897 Apr 09 16:34	20° Ƴ 39'23	-1°27'32		3898 Mar 21 17:11	0°Υ	
minimum elong	3897 Apr 09 21:01	21° Υ 00'55					
	3897 Apr 14 10:41	0°8		superior conj	3898 Mar 23 09:08	3° Y 02'25	-1°50'37
evening rise	3897 Apr 18 07:51	7° 8 44'14		minimum elong	3898 Mar 23 13:43	3° Y 23'28	1°50'14
asc. node	3897 Apr 19 08:47	9° 8 47'46		evening rise	3898 Apr 02 00:11	21° Y 14'24	
	3897 Apr 30 22:01	$\Pi^{\circ}0$		asc. node	3898 Apr 06 05:49	29° Y 15'14	
evening max el	3897 May 05 01:46	4° Ⅱ 54'06	19°13'26		3898 Apr 06 15:31	9° 8	
retrograde	3897 May 14 02:04	9° Ⅱ 17'18		evening max el	3898 Apr 18 04:44	17° 8 16'42	18°31'54
evening set	3897 May 16 02:43	9° Ⅱ 04'56		retrograde	3898 Apr 25 20:53	21° 8 03'22	
inferior conj	3897 May 24 12:07	4° Ⅱ 55'03	0°34'00	evening set	3898 Apr 28 03:54	20° 8 44'14	
minimum elong	3897 May 24 13:30	4° Ⅱ 52'43	0°33'30	inferior conj	3898 May 05 17:26	16° 8 15'24	
desc. node	3897 May 26 10:56	3° Ⅱ 36′20		minimum elong	3898 May 05 21:03	16° 8 08'17	2°02'26
min. Earth dist.	3897 May 27 08:47	3° Ⅱ 00′26	0.56235 AU	min. Earth dist.	3898 May 09 03:20	13° 8 36'04	0.58059 AU
morning rise	3897 Jun 01 21:12	0° Ⅱ 05'11		morning rise	3898 May 13 11:02	10° 8 52'21	
	3897 Jun 02 02:54	30° ₹ 8		desc. node	3898 May 13 07:59	10° 8 56'09	
direct	3897 Jun 06 19:06	29° 8 09'20		direct	3898 May 19 08:09	9° 8 24'06	
	3897 Jun 11 11:16	0°II		morning max el	3898 Jun 02 17:19	17° 8 03'34	26°46'31
morning max el	3897 Jun 21 00:08	6° Ⅱ 24'57	25°24'26		3898 Jun 13 09:16	0° I	
,	3897 Jul 08 04:56	0.20 0.20			3898 Jun 30 13:15	0°95	
asc. node	3897 Jul 16 08:03	15°936'58		morning set	3898 Jul 02 08:36	3°545'16	
morning set	3897 Jul 17 22:29	18°958'14		asc. node	3898 Jul 03 05:06	5° © 33'43	
	3897 Jul 23 00:46	$0^{\circ}\Omega$			2000 1-1 00 00-56	100050127	1900144
gunariar aani	3897 Jul 24 21:13	4° Ω 03'56	1°19'03	superior conj minimum elong	3898 Jul 09 08:56 3898 Jul 09 06:44	18° © 59'27 18° © 47'17	1°00'44 1°00'20
superior conj minimum elong	3897 Jul 24 21:13 3897 Jul 24 18:53	3° Ω 51'09	1°18'43	max. Earth dist.	3898 Jul 09 00.44 3898 Jul 09 11:14	18 5 47 17 19° 5 12'08	1.32080 AU
max. Earth dist.	3897 Jul 24 18:33 3897 Jul 26 00:18	6° Ω 32'10	1.32495 AU	max. Earth dist.	3898 Jul 14 09:43	0°Ω	1.32080 AC
evening rise	3897 Jul 20 00:18 3897 Jul 31 23:22	19° Ω 15'13	1.32493 AU	evening rise	3898 Jul 14 05:56	3° Ω 55'18	
evening rise	3897 Aug 06 09:16	0° mp		evening rise	3898 Jul 30 04:02	0° Mp	
desc. node	3897 Aug 22 10:16	26° Mp 18'18		desc. node	3898 Aug 09 07:17	14° m) 27'52	
dese. Hode	3897 Aug 25 05:09	0° ⊡		evening max el	3898 Aug 15 07:02	20° m 59'37	26°44'02
evening max el	3897 Sep 02 03:46		27°20'43	retrograde	3898 Aug 29 05:33	28° m 10'22	20 1102
retrograde	3897 Sep 15 23:08	16° £ 08'04	27 20 .5	evening set	3898 Sep 05 01:53	26° m 10'29	
evening set	3897 Sep 23 03:26	13° ≏ 41'53		min. Earth dist.	3898 Sep 08 21:02	23° m 33'42	0.60230 AU
min. Earth dist.	3897 Sep 26 17:59	10° ≏ 49'33	0.62248 AU	inferior conj	3898 Sep 12 02:49	20° m 55'25	
inferior conj	3897 Sep 29 16:38	8° ഫ 05'25	-3°48'20	minimum elong	3898 Sep 12 08:12		
minimum elong	3897 Sep 29 22:29	7° £ 51'48	3°46'40	morning rise	3898 Sep 19 16:31	16° m 13'12	
morning rise	3897 Oct 06 19:13	3° ≙ 01'45		direct	3898 Sep 22 01:20	15° m 52'06	
direct	3897 Oct 09 04:14	2° ≏ 36'49		asc. node	3898 Sep 29 04:18	19° m 12'53	
asc. node	3897 Oct 12 07:14	3° £ 21′21		morning max el	3898 Sep 29 12:19	19° m 31'53	18°09'12
morning max el	3897 Oct 16 00:10	6° ჲ 05'12	17°51'48		3898 Oct 07 05:41	0∘ ত	
	3897 Oct 31 09:44	0° M ₊		morning set	3898 Oct 15 07:54	14° ≏ 37'17	
morning set	3897 Oct 31 23:01	0°M59'36			3898 Oct 23 14:24	0° M.	
superior conj	3897 Nov 11 23:48	20°M24'38	0°43'46	superior conj	3898 Oct 24 22:15	2°M23'59	1°13'58
minimum elong	3897 Nov 11 23:48 3897 Nov 12 03:29	20°M40'22	0°43'14	minimum elong	3898 Oct 24 22:13 3898 Oct 25 02:19	2°M42'13	1°13'30
minimum ciong	3897 Nov 12 03:29 3897 Nov 17 17:22	20 11 0 40 22	0 43 14	max. Earth dist.	3898 Nov 01 13:34	15°M42'43	1.41417 AU
desc. node	3897 Nov 17 17:22 3897 Nov 18 09:33	1° ₹ 06'14		desc. node	3898 Nov 05 06:34	21°M52'26	1.41417 AO
max. Earth dist.	3897 Nov 19 03:40	2°×720'05	1.43211 AU	evening rise	3898 Nov 06 16:48	24°M11'39	
evening rise	3897 Nov 26 13:56	14°×709'28	1.13211110	evening rise	3898 Nov 10 08:08	0° ⊼	
	3897 Dec 07 00:04	0°ಕ			3898 Nov 30 22:45	0°ਰ	
evening max el	3897 Dec 27 18:06	27° る 40'49	21°36'48	evening max el	3898 Dec 10 10:41	11° る 16'30	22°55'03
<i>3</i>	3897 Dec 30 05:51	0° ≈		retrograde	3898 Dec 20 13:15	17° ප 16'11	
retrograde	3898 Jan 05 18:10	3° ≈ 01'49		evening set	3898 Dec 25 08:10	15° る 18'33	
asc. node	3898 Jan 08 06:29	2° ≈ 27'34		asc. node	3898 Dec 26 03:32	14° る 34'55	
evening set	3898 Jan 10 01:03	1° ≈ 20′21		inferior conj	3898 Dec 30 17:11	8° ප 55'28	1°30'02
	3898 Jan 11 11:46	30° Ŗ ⋜		minimum elong	3898 Dec 30 15:17	9° ප 02'00	1°29'19
inferior conj	3898 Jan 15 09:20	25° පි 03'24	2°13'32	min. Earth dist.	3898 Dec 30 10:07	9° る 19'52	0.67999 AU
minimum elong	3898 Jan 15 06:55	25° る 11'45	2°12'46	morning rise	3899 Jan 04 22:17	2° る 46'53	
min. Earth dist.	3898 Jan 15 13:28	24°₹49′04	0.67885 AU	direct	3899 Jan 09 08:35	0° る 59'23	
morning rise	3898 Jan 20 12:36	18° ප 51'17		morning max el	3899 Jan 18 05:18	6° පි 09'41	21°36'29
direct	3898 Jan 25 13:28	16° ප් 40'54		desc. node	3899 Feb 01 05:48	23° る 58'38	
morning max el	3898 Feb 04 15:45	22° る 40'20	23°02'13		3899 Feb 05 09:37	0° ≈	
	3898 Feb 11 01:19	0° ≈		morning set	3899 Feb 19 03:41	21° ≈ 02'37	
desc. node	3898 Feb 14 08:46	4° ≈ 17'13			3899 Feb 24 16:37	0° ∀	
	3898 Mar 03 22:46	0° ∀		max. Earth dist.	3899 Feb 25 15:49	1°) 35′41	1.41815 AU
morning set	3898 Mar 11 07:02	11° ¥ 52'51					
max. Earth dist.	3898 Mar 15 15:57	19° ∺ 17'22	1.39708 AU	superior conj	3899 Mar 05 05:48	14°) €28'04	-2°05'06

minimum elong	3899 Mar 05 08:14	14°) 38'43	2°05'02	max. Earth dist.	3900 Feb 07 23:35	14° ≈ 49'29	1.43571 AU
	3899 Mar 13 22:16	0°Υ 4°Υ06'20			2000 F 1 14 01 40	24044145	2005144
evening rise	3899 Mar 16 04:07			superior conj	3900 Feb 14 01:40	24°≈44'45	
asc. node	3899 Mar 24 02:51	18° Y 19'41		minimum elong	3900 Feb 13 23:01	24° ≈ 33'49 0° 米	2 05 40
evening max el	3899 Apr 01 10:44 3899 Apr 01 14:05	0° と 0° と 08'17	18°10'22	evening rise	3900 Feb 17 05:16 3900 Feb 26 15:16	0 X 16° ¥ 10'03	
retrograde	3899 Apr 08 10:05	3° 8 35'20	18 10 22	evening rise	3900 Feb 26 13:16 3900 Mar 06 15:39	10 χ 1003	
evening set	3899 Apr 10 23:40	3° 8 06'45		asc. node	3900 Mar 10 23:53	6° Y 52'45	
evening set	3899 Apr 15 21:09	30°RΥ		evening max el	3900 Mar 16 02:25	13° Υ 18'37	18°08'17
inferior conj	3899 Apr 17 19:42	28° Υ 16'54	3°00'42	retrograde	3900 Mar 20 13:31	16° Y 41'29	10 00 17
minimum elong	3899 Apr 17 22:50	28° Υ 09'43	3°00'05	evening set	3900 Mar 25 08:57	16°Υ'02'02	
min. Earth dist.	3899 Apr 21 03:41	25°Υ15'35	0.60211 AU	inferior conj	3900 Mar 31 15:28	10° Y 51'58	3°29'45
morning rise	3899 Apr 24 19:43	22° Y 29'39		minimum elong	3900 Mar 31 16:57	10° Ƴ 48'07	3°29'36
desc. node	3899 Apr 30 05:00	20° Ƴ 30′21		min. Earth dist.	3900 Apr 03 12:20	7° Ƴ 53'14	0.62358 AU
direct	3899 May 01 09:23	20° Y 26′25		morning rise	3900 Apr 06 23:33	4° Ƴ 49'59	
morning max el	3899 May 15 16:46	28° Ƴ 18'54	27°37'36	direct	3900 Apr 13 20:29	2° Υ 18'10	
	3899 May 17 08:11	8° 0		desc. node	3900 Apr 17 02:02	2° Y 48'33	
	3899 Jun 07 03:31	$\Pi^{\circ}0$		morning max el	3900 Apr 27 22:16	10° Ƴ 16'37	27°51'29
morning set	3899 Jun 16 15:28	18° Ⅱ 20'45			3900 May 13 07:41	$0^{\circ}B$	
asc. node	3899 Jun 20 02:08	25° Ⅲ 38'31			3900 May 30 09:41	$\Pi^{\circ}0$	
	3899 Jun 22 02:17	0ං ව		morning set	3900 May 31 16:58	2° Ⅱ 37'19	
max. Earth dist.	3899 Jun 22 22:46	1° 9 52'16	1.32073 AU	max. Earth dist.	3900 Jun 06 06:52	14° Ⅱ 18′27	1.32478 AU
				asc. node	3900 Jun 06 23:10	15° Ⅱ 46'17	
superior conj	3899 Jun 23 20:23	3° 9 51'00	0°38'37				
minimum elong	3899 Jun 23 18:45	3°542'04	0°38'17	superior conj	3900 Jun 08 05:44	18° Ⅱ 31'59	0°13'20
evening rise	3899 Jun 30 16:07	18° © 43'41		minimum elong	3900 Jun 08 05:06	18° Ⅱ 28'34	0°13'12
	3899 Jul 06 04:40	$0^{\circ}\Omega$		behind sun begin	3900 Jun 08 02:12	18° Ⅱ 12'45	
	3899 Jul 25 20:37	0° m		behind sun end	3900 Jun 08 08:01	18° Ⅱ 44'25	
desc. node	3899 Jul 27 04:17	1° m 22'18			3900 Jun 13 12:07	0°©	
evening max el	3899 Jul 28 02:52	2° Mp 17'36	25°35'53	evening rise	3900 Jun 15 03:49	3° © 32'47	
retrograde	3899 Aug 11 02:10	9° m 23'51			3900 Jun 29 09:25	0° Ω	24005142
evening set	3899 Aug 17 01:47	8° Mp 00'02	0.50101 ATT	evening max el	3900 Jul 09 16:31	12° £ 54′22	24°05'42
min. Earth dist.	3899 Aug 21 14:52		0.58181 AU	desc. node	3900 Jul 14 01:18	16° Ω 31'37	
inferior conj	3899 Aug 24 18:52 3899 Aug 24 21:03	3° m 07'34 3° m 03'42		retrograde	3900 Jul 23 11:21 3900 Jul 28 01:46	19° Ω 51'00 19° Ω 04'04	
minimum elong	3899 Aug 24 21:03 3899 Aug 29 17:03	3 11JU3 42 30°R Ω	3 00 39	evening set min. Earth dist.	3900 Jul 28 01:46 3900 Aug 03 03:02		0.56379 AU
morning rise	3899 Sep 01 18:34	28° Ω 48'27		inferior conj	3900 Aug 05 03:02 3900 Aug 05 14:35	10° 0 03′32′14° Ω 33′53	
direct	3899 Sep 04 06:30	28° Ω 28'56		minimum elong	3900 Aug 05 10:57	$14^{\circ}\Omega_{39'32}$	
direct	3899 Sep 09 11:27	0°m)		morning rise	3900 Aug 13 22:44	10° Ω 34'54	3 01 30
morning max el	3899 Sep 12 17:20	2° m/30'00	18°47'18	direct	3900 Aug 16 16:08	10°Ω15'33	
asc. node	3899 Sep 16 01:21	6° m 14'25		morning max el	3900 Aug 26 12:15	14° Ω 49'59	19°47'08
morning set	3899 Sep 29 03:36	28° m 45'51		asc. node	3900 Sep 02 22:23	24° Ω 10'48	
C	3899 Sep 29 18:46	0∘ <u>⊽</u>			3900 Sep 06 09:35	0° m)	
	•			morning set	3900 Sep 13 06:41	13° m 15'26	
superior conj	3899 Oct 07 17:09	15° ≙ 23′24	1°33'10				
minimum elong	3899 Oct 07 19:57	15° ≏ 36'42	1°32'57	superior conj	3900 Sep 21 03:06	29° m 07'27	1°42'40
max. Earth dist.	3899 Oct 14 19:17	28° ഫ 23'28	1.39361 AU	minimum elong	3900 Sep 21 04:13	29° m 12'59	1°42'38
	3899 Oct 15 17:11	0° M			3900 Sep 21 13:43	0∘ ⊽	
evening rise	3899 Oct 18 18:22	5°M16'01		max. Earth dist.	3900 Sep 27 00:03	10° ≙ 28'07	1.37294 AU
desc. node	3899 Oct 23 03:35	12°M33'48		evening rise	3900 Sep 30 18:32	17° ≏ 22'48	
	3899 Nov 03 10:47	0°⊀			3900 Oct 08 02:50	0° M ₊	
evening max el	3899 Nov 23 00:09	24° ₹ 55'32	24°14'45	desc. node	3900 Oct 10 00:36	3°M 06'10	
_	3899 Nov 29 07:48	0° ろ			3900 Oct 28 19:27	0° ∡ ¹	
retrograde	3899 Dec 04 04:48	1° ට 29'14		evening max el	3900 Nov 05 12:23	8°×737'21	25°29'11
	3899 Dec 08 14:03	30°R 🖈		retrograde	3900 Nov 17 16:01	15° ∡ 36'37	
evening set	3899 Dec 09 13:04	29° 🖈 15'30		evening set	3900 Nov 23 14:08	13° × 708'35	0.67165 AU
asc. node	3899 Dec 13 00:34	25° 🗷 28'04	0 67750 AII	min. Earth dist.	3900 Nov 27 23:40		
min. Earth dist. inferior conj	3899 Dec 14 06:16 3899 Dec 15 00:09	23° 🖈 50'24 22° 🖈 50'13	0.67758 AU 0°40'16	inferior conj minimum elong	3900 Nov 29 04:29 3900 Nov 29 04:51	6° х 45'30 6° х 44'17	
minimum elong	3899 Dec 13 00.09 3899 Dec 14 23:12	22° 🖈 53'25	0°39'53	transit middle	3900 Nov 29 04:51	6° х ¹44'17	
morning rise	3899 Dec 14 23.12 3899 Dec 20 09:22	22 x ·33 23 16° x 47′09	0 3/33	transit begin	3900 Nov 29 04.31 3900 Nov 29 03:37	6° х °44 17 6° х 748′16	0 17 30
direct	3899 Dec 20 09:22 3899 Dec 24 06:08	15° 🗷 22'01		transit oegin transit end	3900 Nov 29 05:37 3900 Nov 29 06:06	6° ∡ 740'18	
morning max el	3900 Jan 01 02:09	19° х 22 01	20°20'37	asc. node	3900 Nov 29 00:00 3900 Nov 29 21:36	5° ∡ 750'47	
morning max or	3900 Jan 09 09:27	0°る	20 20 37	morning rise	3900 Dec 04 19:54	0° ≯ 750'08	
desc. node	3900 Jan 19 02:49	14° る 03'38		<i>5</i> 2-	3900 Dec 06 13:35	30°RM₁	
morning set	3900 Jan 29 02:38	29° ප 16'11		direct	3900 Dec 08 04:44	29° M 44'47	
-	3900 Jan 29 13:57	0° ≈			3900 Dec 09 20:51	0° ∡ ¹	

morning max el greatest brilliancy desc. node	3900 Dec 15 06:58 3900 Dec 28 19:06 3901 Jan 03 02:55 3901 Jan 05 23:50	3° メ 42'43 21° メ 51'48 0°る 4°る25'59	19°18'36 -0.7m	morning rise direct morning max el	3901 Nov 19 03:43 3901 Nov 22 02:43 3901 Nov 28 18:15 3901 Dec 08 01:15	14°M52'07 14°M02'52 17°M40'59 0°×7	18°32'16
morning set	3901 Jan 08 02:29	4 3 23 39 7° る 42'05		morning set	3901 Dec 08 01:13	17° ∡ 21'03	
max. Earth dist.	3901 Jan 21 13:45	28° る 44'23	1.44759 AU	desc. node	3901 Dec 23 20:52	25° ₹ 00'12	
	3901 Jan 22 08:54	0° ≈			3901 Dec 27 00:40	8°0	
superior conj	3901 Jan 24 20:17	3° ≈ 55'30	-1°47'44	superior conj	3902 Jan 03 23:30	12° る 30'16	-1°11'10
minimum elong	3901 Jan 24 12:06	3° ≈ 22'55	1°47'06	minimum elong	3902 Jan 03 15:05	11° る 57'15	1°10'10
evening rise	3901 Feb 08 05:30	27°≈18'45		max. Earth dist.	3902 Jan 04 07:43	13° る 02'31	1.45251 AU
	3901 Feb 09 20:21	0°) {			3902 Jan 15 02:39	0° ≈	
asc. node	3901 Feb 25 20:54	24°) (45'11	10025101	evening rise	3902 Jan 19 20:22	7°≈30'06	0.0
evening max el	3901 Feb 27 14:51 3901 Mar 04 13:56	26°) 40′57 0° °	18°25'01	greatest brilliancy	3902 Jan 28 22:50 3902 Feb 03 05:13	21°≈55'41 0°) €	-0.8m
retrograde	3901 Mar 04 13:36 3901 Mar 06 02:35	0° Υ 12'45		evening max el	3902 Feb 03 03:13 3902 Feb 11 00:59	0 X 10° ¥ 09'39	18°59'35
retrograde	3901 Mar 07 14:59	30° ₹		asc. node	3902 Feb 12 17:56	11°) 44'44	10 37 33
evening set	3901 Mar 09 03:49	29°) (21'32		retrograde	3902 Feb 17 21:22	14°) €01'31	
inferior conj	3901 Mar 15 00:38	23°) 52'57	3°37'02	evening set	3902 Feb 21 05:08	12°) (57'34	
minimum elong	3901 Mar 15 00:24	23°) 53′37	3°37'01	inferior conj	3902 Feb 26 19:27	7°) 12′18	3°28'01
min. Earth dist.	3901 Mar 17 06:35	21°) (16′42	0.64268 AU	minimum elong	3902 Feb 26 17:56	7°) 17′05	3°27'51
morning rise	3901 Mar 20 20:15	17°) 43′16		min. Earth dist.	3902 Feb 28 09:55	5° ₩ 11'18	0.65814 AU
direct	3901 Mar 27 15:54	14° ¥ 55′12		morning rise	3902 Mar 04 06:21	0°) 59′19	
desc. node	3901 Apr 03 23:03	17° ∺ 30′05			3902 Mar 05 11:54	30°R ≈	
morning max el	3901 Apr 10 07:25	22° ∺ 50′56	27°28'48	direct	3902 Mar 10 18:12	28° ≈ 09'00	
	3901 Apr 16 15:23	0° Υ			3902 Mar 16 14:46	0°) {	
	3901 May 06 13:52	0°8		desc. node	3902 Mar 21 20:04	3°) ₹59'58	26925120
morning set max. Earth dist.	3901 May 15 10:36	16° 8 27'22 26° 8 18'28	1.33318 AU	morning max el	3902 Mar 23 17:19	5°) 49'16 0° Υ	26°35'29
max. Earm dist.	3901 May 20 07:26 3901 May 22 01:46	20 Ο 18 28	1.55516 AU	morning set	3902 Apr 11 07:14 3902 Apr 28 16:57	0 1 29° Υ '40'35	
	3901 Way 22 01.40	υд		morning set	3902 Apr 28 21:03	0° 8	
superior conj	3901 May 23 11:10	2° ∏ 56'59	-0°14'21	max. Earth dist.	3902 May 02 21:11	7° 8 46'02	1.34618 AU
minimum elong	3901 May 23 11:54	3° Ⅱ 00'51	0°14'11			, 0	
behind sun begin	3901 May 23 09:23	2° Ⅱ 47′29		superior conj	3902 May 07 10:28	16° 8 59'27	-0°43'19
behind sun end	3901 May 23 14:25	3° Ⅱ 14'14		minimum elong	3902 May 07 12:46	17° 8 11'19	0°42'51
asc. node	3901 May 24 20:12	5° Ⅱ 53'17		asc. node	3902 May 11 17:15	25° 8 55'32	
evening rise	3901 May 30 15:15	18° Ⅱ 16'47			3902 May 13 15:54	Π °0	
	3901 Jun 05 10:12	0 \circ \odot		evening rise	3902 May 15 00:28	2° ∏ 49'38	
evening max el	3901 Jun 21 06:35	23°5518'15	22°28'44		3902 May 30 14:18	0°©	
desc. node	3901 Jun 30 22:19	29°521'15		evening max el	3902 Jun 03 05:01	4°502'27	20°59'26
retrograde	3901 Jul 04 08:28	29°5548'15		retrograde	3902 Jun 14 21:26 3902 Jun 17 01:34	9°545'45	
evening set min. Earth dist.	3901 Jul 07 11:05 3901 Jul 15 13:47	29° © 26'56 25° © 55'12	0.55172 AU	evening set desc. node	3902 Jun 17 01:34 3902 Jun 17 19:19	9° © 34'39 9° © 26'01	
inferior conj	3901 Jul 16 16:24	25° © 17'25		inferior conj	3902 Jun 26 09:53	5°937'08	-2°29'42
minimum elong	3901 Jul 16 08:11	25°\$29'05		minimum elong	3902 Jun 26 03:03	5°946'47	
morning rise	3901 Jul 25 07:21	21°526'50		min. Earth dist.	3902 Jun 27 01:22	5°9515'13	0.54842 AU
direct	3901 Jul 28 08:17	21° © 05'49		morning rise	3902 Jul 05 04:28	1° 5 36'17	
morning max el	3901 Aug 08 19:25	26° © 25'52	21°07'50	direct	3902 Jul 08 17:46	1° 5 09'03	
	3901 Aug 12 04:29	$0^{\circ}\Omega$		morning max el	3902 Jul 21 15:58	7° 5 19'43	22°44'50
asc. node	3901 Aug 20 19:25	12° Ω 49'32			3902 Aug 06 15:01	0 $^{\circ}\Omega$	
morning set	3901 Aug 28 14:35	27° Ω 58'53		asc. node	3902 Aug 07 16:28	2° Ω 00′28	
	3901 Aug 29 13:55	0° m		morning set	3902 Aug 13 01:20	12° Ω 50'55	
	2001 G 04 22 42	120 % 22/50	1044102		2002 4 20 02 40	200 000112	1020140
superior conj	3901 Sep 04 23:43	13° Tp 22'58	1°44'02	superior conj	3902 Aug 20 03:40	28° Ω 00'12 27° Ω 51'58	
minimum elong max. Earth dist.	3901 Sep 04 23:18 3901 Sep 09 09:26	13° m/20'48 22° m/18'33	1°44'02 1.35455 AU	minimum elong	3902 Aug 20 02:07 3902 Aug 21 02:14	0°m)	1 30 33
max. Durin dist.	3901 Sep 13 08:45	0° ⊽	1.55 155 110	max. Earth dist.	3902 Aug 21 02:14 3902 Aug 23 03:43	ربان 4°10)19'46	1.33985 AU
evening rise	3901 Sep 13 13:35	o° - 0° - 22'46		evening rise	3902 Aug 27 23:12	14° Mp 04'46	
desc. node	3901 Sep 26 21:38	23° £ 24'00			3902 Sep 05 13:43	0∘ ⊽	
	3901 Oct 01 05:24	0°M		desc. node	3902 Sep 13 18:41	13° ≏ 20'45	
evening max el	3901 Oct 19 00:47	22°M17'40	26°30'53		3902 Sep 26 02:27	0°M	
retrograde	3901 Oct 31 22:11	29°M31'24		evening max el	3902 Oct 01 13:21	5°M48'35	27°12'18
evening set	3901 Nov 07 09:26	26°M53'17		retrograde	3902 Oct 14 22:35	13°M06'29	
min. Earth dist.	3901 Nov 11 12:01	22°M38'18	0.66224 AU	evening set	3902 Oct 21 20:40	10°M25'06	
inferior conj	3901 Nov 13 04:14	20°M37'13		min. Earth dist.	3902 Oct 25 17:02	6°M45′27	
minimum elong	3901 Nov 13 06:15	20°M31'09	1°12'45	inferior conj	3902 Oct 27 21:14	4°M21'08	
asc. node	3901 Nov 16 18:38	16°M39'00		minimum elong	3902 Oct 28 01:02	4°M10'38	2~13'15

morning rise asc. node direct morning max el	3902 Nov 01 08:14 3902 Nov 03 06:24 3902 Nov 03 15:39 3902 Nov 05 21:57 3902 Nov 10 12:14 3902 Nov 12 09:38	30°R	18°02'39	morning rise direct asc. node morning max el	3903 Oct 18 00:51 3903 Oct 20 11:33 3903 Oct 21 12:43 3903 Oct 27 02:13 3903 Nov 06 05:34 3903 Nov 12 11:38	12° Ω 35'18 12° Ω 06'44 12° Ω 12'06 15° Ω 32'13 0° M 10° M 49'09	17°50'32
morning set	3902 Nov 30 05:51 3902 Dec 01 03:52	28°M28'33 0° ₹		avmorior coni	3903 Nov 23 16:30	0° ⊀ 7	0021122
desc. node	3902 Dec 10 17:56	15° 🖈 42'28	0024114	superior conj minimum elong	3903 Nov 24 12:45 3903 Nov 24 14:55	1° 🗷 24'02 1° 🗷 33'02	0°21'22 0°21'03
superior conj minimum elong	3902 Dec 14 07:15 3902 Dec 14 04:15	21° 🖈 24'23 21° 🖈 12'25		desc. node max. Earth dist.	3903 Nov 27 15:00 3903 Nov 30 20:39	6° х 29'00 11° х 42'43	1.44041 AU
max. Earth dist.	3902 Dec 18 03:02	27° ⋌ ¹28'00	1.45002 AU	evening rise	3903 Dec 10 00:30	26° ₹ 05'57	1.1.0
	3902 Dec 19 17:41	0°ප			3903 Dec 12 13:29	0°⋜	
evening rise	3902 Dec 30 14:59	16° る 56'06			3904 Jan 02 05:01	0° ≈	2005 4152
greatest brilliancy	3903 Jan 08 03:10 3903 Jan 13 08:53	0° ≈ 7° ≈ 53'42	-0.7m	evening max el retrograde	3904 Jan 08 07:27 3904 Jan 16 16:58	7°≈14'21 12°≈12'22	20°54'53
evening max el	3903 Jan 25 06:55	23°≈41'25	19°50'22	asc. node	3904 Jan 17 11:59	12 ≈12 22 12°≈08'56	
asc. node	3903 Jan 30 14:58	27°≈37'27		evening set	3904 Jan 20 17:52	10° ≈ 39'37	
retrograde	3903 Feb 01 18:55	28° ≈ 02'45		inferior conj	3904 Jan 26 02:23	4° ≈ 27'57	2°35'20
evening set	3903 Feb 05 10:29	26° ≈ 44'57		minimum elong	3904 Jan 25 23:53		2°34'37
inferior conj	3903 Feb 10 20:51	20°≈45'09	3°06'35	min. Earth dist.	3904 Jan 26 13:18	3°≈50'24	0.67652 AU
minimum elong min. Earth dist.	3903 Feb 10 18:35 3903 Feb 11 20:49	20°≈52'42 19°≈25'24	3°06'08 0.66943 AU	morning rise	3904 Jan 29 12:48 3904 Jan 31 05:45	30°Rる 28°る14'56	
morning rise	3903 Feb 11 20:49 3903 Feb 16 02:29	19 ≈23 24 14°≈31'19	0.00943 AU	direct	3904 Feb 05 15:07	28 3 1430 25° る 52'24	
direct	3903 Feb 22 02:13	11°≈50'50		uncer	3904 Feb 13 23:40	0°≈	
morning max el	3903 Mar 06 02:18	19° ≈ 00'42	25°20'22	morning max el	3904 Feb 16 10:53	2° ≈ 19′25	23°53'39
desc. node	3903 Mar 08 17:07	21° ≈ 48′13		desc. node	3904 Feb 23 14:10	10° ≈ 32'30	
	3903 Mar 15 10:00	0°) €			3904 Mar 08 11:59	0° ∺	
	3903 Apr 04 09:13 3903 Apr 11 07:25	0° Υ 12° Υ 03'20		morning set	3904 Mar 23 00:15	23° ¥ 20'35 0° Ƴ	
morning set max. Earth dist.	3903 Apr 11 07:25 3903 Apr 14 23:45	12° Y 03°20 18° Y 50'00	1.36371 AU	max. Earth dist.	3904 Mar 26 19:46 3904 Mar 26 19:49	0° Υ 00'14	1.38452 AU
max. Darm dist.	3903 Apr 20 18:33	0°8	1.50571710	superior conj	3904 Apr 03 02:39	13° Y 22'54	
superior conj	3903 Apr 21 00:49	0° 8 31'07	-1°12'00	minimum elong	3904 Apr 03 07:21	13° Y $45'10$	
minimum elong	3903 Apr 21 04:38		1°11'23		3904 Apr 11 16:10	0°8	,
asc. node	3903 Apr 28 14:18	15° 8 48'15		evening rise	3904 Apr 12 03:11	0° 8 53'56	
evening rise	3903 Apr 29 05:19	17° 8 04'19		asc. node	3904 Apr 14 11:21	5° 8 27'01	
	3903 May 05 21:11	0°Щ		evening max el	3904 Apr 28 13:07	27° 8 26'35	18°53'10
evening max el	3903 May 16 15:26	15° Ⅱ 24'19	19°46'26	. 1	3904 May 01 18:45	0°Ⅱ 1°Ⅲ22/20	
retrograde evening set	3903 May 26 14:05 3903 May 28 13:07	20° Ⅱ 14'34 20° Ⅱ 04'07		retrograde evening set	3904 May 06 22:19 3904 May 09 01:30	1° Ⅱ 32'30 1° Ⅱ 17'37	
desc. node	3903 Jun 04 16:21	17° Ⅱ 04'27		evening set	3904 May 12 10:19	30°R 8	
inferior conj	3903 Jun 06 09:16	16° Ⅲ 02'12	-0°30'16	inferior conj	3904 May 17 02:19	26° 8 59'44	1°15'50
minimum elong	3903 Jun 06 07:53	16° Ⅲ 04'20	0°29'45	minimum elong	3904 May 17 05:04	26° 8 54'48	1°14'55
min. Earth dist.	3903 Jun 08 14:30	14° Ⅱ 40′12	0.55482 AU	min. Earth dist.	3904 May 20 06:31	24° 8 44'08	0.56952 AU
morning rise	3903 Jun 15 00:27	11° Ⅱ 33'22		desc. node	3904 May 21 13:21	23° 8 53'06	
direct	3903 Jun 19 09:06	10° Ⅱ 51'21	24929107	morning rise	3904 May 25 05:26	21° 8 55'06 20° 8 46'45	
morning max el	3903 Jul 03 06:24 3903 Jul 13 07:32	17° Ⅱ 46'03 0° ©	24 28 00	direct morning max el	3904 May 30 13:28 3904 Jun 13 21:20	28° 8 13'20	26°02'28
asc. node	3903 Jul 25 13:32	21° © 34'23		morning max er	3904 Jun 15 15:35	0°II	20 02 20
morning set	3903 Jul 28 13:07	27°5945'16			3904 Jul 05 17:57	0ಂತ	
	3903 Jul 29 14:27	$0^{\circ}\Omega$		asc. node	3904 Jul 11 10:37	11° 5 24'44	
		_		morning set	3904 Jul 12 00:20	12° © 36'54	
superior conj	3903 Aug 04 12:15	12° Ω 49'47	1°27'38		2004 1 10 22 22	270545104	1011146
minimum elong max. Earth dist.	3903 Aug 04 10:04 3903 Aug 06 06:44	12° Ω 37'53 16° Ω 39'56	1°27'22 1.32925 AU	superior conj minimum elong	3904 Jul 18 23:22 3904 Jul 18 21:02	27°545'04 27°532'13	1°11'46 1°11'24
evening rise	3903 Aug 11 19:20	28°Ω16'26	1.32923 AU	max. Earth dist.	3904 Jul 19 15:50	29° © 15'40	1.32274 AU
	3903 Aug 11 15:20 3903 Aug 12 15:49	0° m)		Zartii dist.	3904 Jul 19 23:54	0°Ω	1.522, 1710
	3903 Aug 29 18:18	0∘ <u>v</u>		evening rise	3904 Jul 25 22:51	12° Ω 48′29	
desc. node	3903 Aug 31 15:42	2° ≏ 46'32			3904 Aug 03 18:41	0° m	
evening max el	3903 Sep 14 00:15	18° ≏ 56'33	27°26'42	desc. node	3904 Aug 17 12:42	21° Mp 28'46	
retrograde	3903 Sep 27 16:31	26° £ 12'40		avanin 1	3904 Aug 24 19:01	0∘ ⊽	27900107
evening set min. Earth dist.	3903 Oct 04 20:48 3903 Oct 08 12:29	23° Ω 37'35	0.63321 AU	evening max el retrograde	3904 Aug 26 06:52 3904 Sep 09 03:23	1° ≏ 28'04 8° ≏ 40'58	27°09'06
inferior conj	3903 Oct 11 04:48	20 ⊆ 30 14 17° ⊆ 50'19		evening set	3904 Sep 16 05:57	6° £ 24'13	
minimum elong	3903 Oct 11 10:07	17° ⊆ 37'02		min. Earth dist.	3904 Sep 19 21:11	3° ≏ 40'41	0.61412 AU

inferior conj	3904 Sep 22 23:44	0° £ 56'56	-4°10'50	minimum elong	3905 Sep 05 07:00	13° m) 23'36	4°52'42
minimum elong	3904 Sep 22 25:44 3904 Sep 23 05:39	0° - 243'53		morning rise	3905 Sep 12 20:47	9° mg 00'05	7 32 72
minimum ciong	3904 Sep 24 01:51	30°R.M⊅	1 07 23	direct	3905 Sep 12 20:17 3905 Sep 15 06:26	8° Mp 40'01	
morning rise	3904 Sep 30 07:09	26° m 02'15		morning max el	3905 Sep 23 02:34	12° m) 27'28	18°22'53
direct	3904 Oct 02 15:49	25° m 39'11		asc. node	3905 Sep 24 06:51	13° m) 40'02	
asc. node	3904 Oct 07 09:48	27° m 16'22			3905 Oct 04 21:23	0∘ <u>⊽</u>	
morning max el	3904 Oct 09 16:57	•	17°56'50	morning set	3905 Oct 09 02:10	7° ≏ 55'25	
Č	3904 Oct 10 12:06	0 ° $\overline{\mathbf{v}}$		Č			
morning set	3904 Oct 25 12:12	24° ഫ 03'03		superior conj	3905 Oct 18 04:56	25° ≏ 09'50	1°23'23
	3904 Oct 28 18:16	o° m ₊		minimum elong	3905 Oct 18 08:35	25° ≏ 26'35	1°23'02
				C	3905 Oct 20 20:44	0° M	
superior conj	3904 Nov 04 21:02	12°M42'15	0°57'59	max. Earth dist.	3905 Oct 25 17:11	8° ጤ 31'58	1.40550 AU
minimum elong	3904 Nov 05 01:11	13°ML00'17	0°57'26	evening rise	3905 Oct 30 05:05	16° ™ 06'30	
max. Earth dist.	3904 Nov 12 09:42	25°M28'10	1.42490 AU	desc. node	3905 Oct 31 09:01	18° M 01'12	
desc. node	3904 Nov 13 12:00	27°M16'15			3905 Nov 07 22:38	0° ∡ ¹	
	3904 Nov 15 04:16	0° ∡ ¹			3905 Nov 29 16:05	8°0	
evening rise	3904 Nov 18 16:57	5° ∡ ³38'36		evening max el	3905 Dec 03 17:20	4° ♂ 24'36	23°29'11
	3904 Dec 04 21:02	8°0		retrograde	3905 Dec 14 07:30	10° る 40'26	
evening max el	3904 Dec 21 02:28	20° る 47'54	22°09'31	evening set	3905 Dec 19 07:53	8° る 35'52	
retrograde	3904 Dec 30 13:39	26° පි 25'56		asc. node	3905 Dec 21 06:03	6° る 41'04	
asc. node	3905 Jan 03 09:01	25° る 08'31		min. Earth dist.	3905 Dec 24 05:53	2° る 51'10	0.67932 AU
evening set	3905 Jan 04 01:31	24° る 37'25		inferior conj	3905 Dec 24 17:35	2° る 11'04	1°09'40
inferior conj	3905 Jan 09 09:54	18° る 17'12	1°55'56	minimum elong	3905 Dec 24 16:03	2° る 16'21	1°09'02
minimum elong	3905 Jan 09 07:39	18° る 24'58	1°55'09		3905 Dec 26 08:32	30°₽ ⋌ 7	
min. Earth dist.	3905 Jan 09 09:05	18° る 20'01	0.67971 AU	morning rise	3905 Dec 30 00:10	26° ∡ °04′23	
morning rise	3905 Jan 14 13:40	12° る 06'27		direct	3906 Jan 03 04:26	24° ∡ ¹26'42	
direct	3905 Jan 19 08:09	10° පි 06'00		morning max el	3906 Jan 11 14:07	29° ∡ 18'39	21°02'42
morning max el	3905 Jan 28 21:41	15° る 44'18	22°25'01		3906 Jan 12 06:15	0°ප	
desc. node	3905 Feb 09 11:12	29° る 56'14		desc. node	3906 Jan 27 08:14	19° る 48'46	
	3905 Feb 09 12:18	0° ≈			3906 Feb 03 04:45	0° ≈	
	3905 Mar 01 12:48	0° ∀		morning set	3906 Feb 10 23:05	11°≈57'12	
morning set	3905 Mar 03 13:35	3°) 17′24		max. Earth dist.	3906 Feb 18 18:52	24°≈27'29	1.42615 AU
max. Earth dist.	3905 Mar 08 16:23	11°) 47'18	1.40627 AU		3906 Feb 22 03:36	0° ∀	
superior coni	3905 Mar 16 11:20	25° ¥ 22'47	-1°58'07	superior coni	3906 Feb. 25, 21:50	6°₩19'39	-2°07'24
superior conj	3905 Mar 16 11:20 3905 Mar 16 15:21	25° ¥ 22'47 25° ¥ 40'52		superior conj	3906 Feb 25 21:50 3906 Feb 25 22:27	6° ¥ 19'39 6° ¥ 22'16	
superior conj minimum elong	3905 Mar 16 15:21	25°) 40′52		minimum elong	3906 Feb 25 22:27	6°) 22′16	
minimum elong	3905 Mar 16 15:21 3905 Mar 19 00:28	25°¥40′52 0°Υ			3906 Feb 25 22:27 3906 Mar 09 12:01	6° ¥ 22'16 26° ¥ 41'30	
minimum elong	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43	25°) 40′52		minimum elong evening rise	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15	6°¥22'16 26°¥41'30 0° Υ	
minimum elong	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21	25°) 40'52 0° Υ 14° Υ 09'17 24° Υ 45'47		minimum elong evening rise asc. node	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21	6°¥22'16 26°¥41'30 0° ° 13° ° 38'00	2°07'24
minimum elong evening rise asc. node	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21 3905 Apr 04 09:08	25°¥40'52 0°°Y 14°°Y09'17 24°°Y45'47 0°8	1°57'51	minimum elong evening rise asc. node evening max el	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21 3906 Mar 26 06:08	6°¥22'16 26°¥41'30 0° Υ	
minimum elong evening rise asc. node evening max el	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21 3905 Apr 04 09:08 3905 Apr 11 19:08	25° χ 40'52 0° Υ 14° Υ 09'17 24° Υ 45'47 0° ႘ 10° ႘ 02'28		minimum elong evening rise asc. node evening max el retrograde	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21 3906 Mar 26 06:08 3906 Apr 01 21:10	6° χ 22'16 26° χ 41'30 0° Υ 13° Υ 38'00 23° Υ 03'09 26° Υ 26'39	2°07'24
minimum elong evening rise asc. node evening max el retrograde	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21 3905 Apr 04 09:08 3905 Apr 11 19:08 3905 Apr 19 01:29	25°¥40'52 0°°Y 14°°Y09'17 24°°Y45'47 0°8	1°57'51	minimum elong evening rise asc. node evening max el retrograde evening set	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21 3906 Mar 26 06:08 3906 Apr 01 21:10 3906 Apr 04 13:14	6°¥22'16 26°¥41'30 0°Υ 13°Υ'38'00 23°Υ'03'09	2°07'24
minimum elong evening rise asc. node evening max el	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21 3905 Apr 04 09:08 3905 Apr 11 19:08	25° χ 40'52 0° Υ 14° Υ 09'17 24° Υ 45'47 0° ႘ 10° ႘ 02'28 13° ႘ 39'11	1°57'51	minimum elong evening rise asc. node evening max el retrograde	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21 3906 Mar 26 06:08 3906 Apr 01 21:10 3906 Apr 04 13:14 3906 Apr 11 03:04	6° \ 22'16 26° \ 41'30 0° \ 13° \ 738'00 23° \ 703'09 26° \ 726'39 25° \ 753'42	2°07'24 18°07'10
minimum elong evening rise asc. node evening max el retrograde evening set	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21 3905 Apr 04 09:08 3905 Apr 11 19:08 3905 Apr 19 01:29 3905 Apr 21 11:12 3905 Apr 28 16:52	25° χ 40'52 0° Υ 14° Υ 09'17 24° Υ 45'47 0° ႘ 10° ႘ 02'28 13° ႘ 39'11 13° ႘ 16'24	1°57'51 18°20'15	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21 3906 Mar 26 06:08 3906 Apr 01 21:10 3906 Apr 04 13:14 3906 Apr 11 03:04 3906 Apr 11 05:33	6° \ 22'16 26° \ 41'30 0° \ 7 13° \ 738'00 23° \ 703'09 26° \ 726'39 25° \ 753'42 20° \ 755'25	2°07'24 18°07'10 3°16'03
evening rise asc. node evening max el retrograde evening set inferior conj	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21 3905 Apr 04 09:08 3905 Apr 11 19:08 3905 Apr 19 01:29 3905 Apr 21 11:12 3905 Apr 28 16:52 3905 Apr 28 20:31	25° χ40'52 0° Υ 14° Υ09'17 24° Υ45'47 0° ႘ 10° ႘02'28 13° ႘39'11 13° ႘16'24 8° ႘38'37	1°57'51 18°20'15 2°31'33	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21 3906 Mar 26 06:08 3906 Apr 01 21:10 3906 Apr 04 13:14 3906 Apr 11 03:04 3906 Apr 11 05:33 3906 Apr 14 07:15	6° X 22'16 26° X 41'30 0° Y 13° Y 38'00 23° Y 03'09 26° Y 26'39 25° Y 53'42 20° Y 55'25 20° Y 49'22	2°07'24 18°07'10 3°16'03 3°15'39
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21 3905 Apr 04 09:08 3905 Apr 11 19:08 3905 Apr 19 01:29 3905 Apr 21 11:12 3905 Apr 28 16:52	25° χ40'52 0° Υ 14° Υ09'17 24° Υ45'47 0° ႘ 10° ႘02'28 13° ႘39'11 13° ႘16'24 8° ႘38'37 8° ႘30'56	1°57'51 18°20'15 2°31'33 2°30'38	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21 3906 Mar 26 06:08 3906 Apr 01 21:10 3906 Apr 04 13:14 3906 Apr 11 03:04 3906 Apr 11 05:33	6° ¥22'16 26° ¥41'30 0° Υ 13° Υ38'00 23° Υ03'09 26° Υ26'39 25° Υ53'42 20° Υ55'25 20° Υ49'22 17° Υ52'01	2°07'24 18°07'10 3°16'03 3°15'39
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21 3905 Apr 04 09:08 3905 Apr 11 19:08 3905 Apr 19 01:29 3905 Apr 21 11:12 3905 Apr 28 16:52 3905 Apr 28 20:31 3905 May 02 03:24	25° \ 40'52 0° Υ 14° Υ09'17 24° Υ45'47 0° \ \ 10° \ \ 39'11 13° \ \ 38'37 8° \ \ 38'37 8° \ \ 30'56 5° \ \ 46'43	1°57'51 18°20'15 2°31'33 2°30'38	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21 3906 Mar 26 06:08 3906 Apr 01 21:10 3906 Apr 04 13:14 3906 Apr 11 03:04 3906 Apr 11 05:33 3906 Apr 14 07:15 3906 Apr 17 19:56	6° ¥22'16 26° ¥41'30 0° Υ 13° Υ38'00 23° Υ03'09 26° Υ26'39 25° Υ53'42 20° Υ55'25 20° Υ49'22 17° Υ52'01 15° Υ00'45	2°07'24 18°07'10 3°16'03 3°15'39
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21 3905 Apr 04 09:08 3905 Apr 11 19:08 3905 Apr 19 01:29 3905 Apr 21 11:12 3905 Apr 28 16:52 3905 Apr 28 20:31 3905 May 02 03:24 3905 May 06 02:56	25° \ 40'52 0° Υ 14° Υ09'17 24° Υ45'47 0° ႘ 10° ႘02'28 13° ႘39'11 13° ႘16'24 8° ႘38'37 8° ႘30'56 5° ႘46'43 3° ႘03'35	1°57'51 18°20'15 2°31'33 2°30'38	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21 3906 Mar 26 06:08 3906 Apr 01 21:10 3906 Apr 04 13:14 3906 Apr 11 03:04 3906 Apr 11 05:33 3906 Apr 14 07:15 3906 Apr 17 19:56 3906 Apr 24 13:56	6°\(\)22'16 26°\(\)41'30 0°\(\) 13°\(\)38'00 23°\(\)03'09 26°\(\)26'39 25°\(\)53'42 20°\(\)5'25 20°\(\)49'22 17°\(\)52'01 15°\(\)00'45 12°\(\)43'43	2°07'24 18°07'10 3°16'03 3°15'39
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21 3905 Apr 04 09:08 3905 Apr 11 19:08 3905 Apr 19 01:29 3905 Apr 21 11:12 3905 Apr 28 16:52 3905 Apr 28 20:31 3905 May 02 03:24 3905 May 06 02:56 3905 May 08 10:23	25° \ 40'52 0° Υ 14° Υ09'17 24° Υ45'47 0° \ \ 10° \ \ 39'11 13° \ \ 39'11 13° \ \ 38'37 8° \ \ 33'56 5° \ \ 46'43 3° \ \ 303'35 2° \ \ \ 01'13	1°57'51 18°20'15 2°31'33 2°30'38 0.58955 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21 3906 Mar 26 06:08 3906 Apr 01 21:10 3906 Apr 04 13:14 3906 Apr 11 03:04 3906 Apr 11 05:33 3906 Apr 14 07:15 3906 Apr 17 19:56 3906 Apr 24 13:56 3906 Apr 25 07:24	6°\(\frac{\}22'\)16 26°\(\frac{\}4\)1'30 0°\(\frac{\}93'\)93'09 26°\(\frac{\}26'\)39 25°\(\frac{\}53'\)42 20°\(\frac{\}52'\)25 20°\(\frac{\}49'\)22 17°\(\frac{\}52'\)01 15°\(\frac{\}90'\)45'\]43 12°\(\frac{\}45'\)14	2°07'24 18°07'10 3°16'03 3°15'39 0.61142 AU
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21 3905 Apr 04 09:08 3905 Apr 11 19:08 3905 Apr 19 01:29 3905 Apr 21 11:12 3905 Apr 28 16:52 3905 Apr 28 20:31 3905 May 02 03:24 3905 May 06 02:56 3905 May 08 10:23 3905 May 12 07:55	25° \ 40'52 0° \ Y 14° \ Y09'17 24° \ Y45'47 0° \ \ 10° \ \ 802'28 13° \ \ 83'11 13° \ \ 816'24 8° \ \ 83'37 8° \ \ 830'56 5° \ \ 846'43 3° \ \ 803'35 2° \ \ 801'13 1° \ \ 820'19	1°57'51 18°20'15 2°31'33 2°30'38 0.58955 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21 3906 Mar 26 06:08 3906 Apr 01 21:10 3906 Apr 04 13:14 3906 Apr 11 03:04 3906 Apr 11 05:33 3906 Apr 14 07:15 3906 Apr 17 19:56 3906 Apr 24 13:56 3906 Apr 25 07:24 3906 May 08 19:26	6°\(\)22'16 26°\(\)\(\)41'30 0°\(\) 13°\(\)\(\)38'00 23°\(\)\(\)03'09 26°\(\)\(\)26'39 25°\(\)\(\)53'42 20°\(\)\(\)52'525 20°\(\)\(\)\(\)49'22 17°\(\)\(\)52'01 15°\(\)\(\)\(\)\(\)\(\) 12°\(\)\(\)\(\)\(\)\(\) 12°\(\)\(\)\(\)\(\)\(\)\(\) 12°\(\)\(\)\(\)\(\)\(\)\(\)\(\) 12°\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\	2°07'24 18°07'10 3°16'03 3°15'39 0.61142 AU
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21 3905 Apr 04 09:08 3905 Apr 11 19:08 3905 Apr 19 01:29 3905 Apr 21 11:12 3905 Apr 28 16:52 3905 Apr 28 20:31 3905 May 02 03:24 3905 May 06 02:56 3905 May 08 10:23 3905 May 12 07:55 3905 May 26 17:18	25°\;\\ 40'52 0°\forall \text{14''\text{709'17}} \\ 24°\forall \text{45'47} \\ 0°\text{8''\text{339'11}} \\ 13°\text{816'24} \\ 8°\text{838'37} \\ 8°\text{830'56} \\ 5°\text{846'43} \\ 3°\text{803'35} \\ 2°\text{801'13} \\ 1°\text{820'19} \\ 9°\text{806'59}	1°57'51 18°20'15 2°31'33 2°30'38 0.58955 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21 3906 Mar 26 06:08 3906 Apr 01 21:10 3906 Apr 04 13:14 3906 Apr 11 03:04 3906 Apr 11 05:33 3906 Apr 14 07:15 3906 Apr 17 19:56 3906 Apr 24 13:56 3906 Apr 25 07:24 3906 May 08 19:26 3906 May 16 20:29	6°\(\)22'16 26°\(\)\(\)41'30 0°\(\) 13°\(\)\(\)38'00 23°\(\)\(\)03'09 26°\(\)\(\)26'39 25°\(\)\(\)53'42 20°\(\)\(\)55'25 20°\(\)\(\)\(\)49'22 17°\(\)\(\)52'01 15°\(\)\(\)0'45 12°\(\)\(\)\(\)\(\)43'43 12°\(\)\(\)\(\)\(\)\(\)45'14 20°\(\)\(\)\(\)\(\)\(\)\(\)	2°07'24 18°07'10 3°16'03 3°15'39 0.61142 AU
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21 3905 Apr 04 09:08 3905 Apr 11 19:08 3905 Apr 19 01:29 3905 Apr 21 11:12 3905 Apr 28 16:52 3905 Apr 28 20:31 3905 May 02 03:24 3905 May 06 02:56 3905 May 08 10:23 3905 May 12 07:55 3905 May 26 17:18 3905 Jun 11 15:43	25°\;\\ 40'52 0°\?\\ 14°\?\\ 09'17 24°\?\\ 45'47 0°\\ 10°\\\ 39'11 13°\\\ 39'11 13°\\\ 316'24 8°\\\ 38'\\ 38'\\\ 30'56 5°\\\\ 46'43 3°\\\ 30'\\\ 30'\\\ 50'\\\ 11'\\\ 20'19 9°\\\ 06'59 0°\\\\	1°57'51 18°20'15 2°31'33 2°30'38 0.58955 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21 3906 Mar 26 06:08 3906 Apr 01 21:10 3906 Apr 04 13:14 3906 Apr 11 03:04 3906 Apr 11 05:33 3906 Apr 14 07:15 3906 Apr 17 19:56 3906 Apr 24 13:56 3906 Apr 25 07:24 3906 May 08 19:26 3906 May 16 20:29 3906 Jun 04 14:23	6° χ22'16 26° χ41'30 0° Υ 13° Υ38'00 23° Υ03'09 26° Υ26'39 25° Υ53'42 20° Υ55'25 20° Υ49'22 17° Υ52'01 15° Υ00'45 12° Υ43'43 12° Υ45'14 20° Υ40'23 0° ႘ 0° Π	2°07'24 18°07'10 3°16'03 3°15'39 0.61142 AU
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21 3905 Apr 04 09:08 3905 Apr 11 19:08 3905 Apr 19 01:29 3905 Apr 28 16:52 3905 Apr 28 20:31 3905 May 02 03:24 3905 May 06 02:56 3905 May 08 10:23 3905 May 12 07:55 3905 May 26 17:18 3905 Jun 11 15:43 3905 Jun 26 09:18	25° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1°57'51 18°20'15 2°31'33 2°30'38 0.58955 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21 3906 Mar 26 06:08 3906 Apr 01 21:10 3906 Apr 04 13:14 3906 Apr 11 03:04 3906 Apr 11 05:33 3906 Apr 14 07:15 3906 Apr 17 19:56 3906 Apr 24 13:56 3906 Apr 25 07:24 3906 May 08 19:26 3906 May 16 20:29 3906 Jun 04 14:23 3906 Jun 10 14:09	6° χ22'16 26° χ41'30 0° Υ 13° Υ38'00 23° Υ03'09 26° Υ26'39 25° Υ53'42 20° Υ55'25 20° Υ49'22 17° Υ52'01 15° Υ00'45 12° Υ43'43 12° Υ45'14 20° Υ40'23 0° ႘ 0° Π 11° Π48'38	2°07'24 18°07'10 3°16'03 3°15'39 0.61142 AU
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21 3905 Apr 04 09:08 3905 Apr 11 19:08 3905 Apr 19 01:29 3905 Apr 21 11:12 3905 Apr 28 16:52 3905 Apr 28 20:31 3905 May 02 03:24 3905 May 06 02:56 3905 May 08 10:23 3905 May 12 07:55 3905 May 26 17:18 3905 Jun 11 15:43 3905 Jun 26 09:18 3905 Jun 27 15:36 3905 Jun 28 07:40	25° \ 40'52 0° \ Y 14° \ Y09'17 24° \ Y45'47 0° \ \ 10° \ \ 802'28 13° \ \ 839'11 13° \ \ 816'24 8° \ \ 838'37 8° \ \ 830'56 5° \ \ 846'43 3° \ \ 803'35 2° \ \ 801'13 1° \ \ 820'19 9° \ \ 806'59 0° \ \ \ 1 27° \ \ \ 120'08 0° \ \ 9 1° \ \ 925'42	1°57'51 18°20'15 2°31'33 2°30'38 0.58955 AU 27°12'33	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node max. Earth dist.	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21 3906 Mar 26 06:08 3906 Apr 01 21:10 3906 Apr 04 13:14 3906 Apr 11 03:04 3906 Apr 11 05:33 3906 Apr 14 07:15 3906 Apr 17 19:56 3906 Apr 24 13:56 3906 Apr 25 07:24 3906 May 08 19:26 3906 May 16 20:29 3906 Jun 04 14:23 3906 Jun 10 14:09 3906 Jun 15 04:40 3906 Jun 16 13:47	6°\t22'16 26°\t41'30 0°\tag{13°\tag{38'00}} 23°\tag{38'00} 23°\tag{26'\tag{26'39}} 25°\tag{53'42} 20°\tag{55'25} 20°\tag{49'22} 17°\tag{52'01} 15°\tag{00'45} 12°\tag{43'43} 12°\tag{45'14} 20°\tag{40'23} 0°\tag{0}\tag{0}\tag{11} 11°\tag{148'38} 21°\tag{132'24} 24°\tag{132'07}	2°07'24 18°07'10 3°16'03 3°15'39 0.61142 AU 27°48'02
minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21 3905 Apr 04 09:08 3905 Apr 11 19:08 3905 Apr 19 01:29 3905 Apr 21 11:12 3905 Apr 28 16:52 3905 Apr 28 20:31 3905 May 02 03:24 3905 May 06 02:56 3905 May 08 10:23 3905 May 12 07:55 3905 May 26 17:18 3905 Jun 11 15:43 3905 Jun 26 09:18 3905 Jun 27 15:36 3905 Jun 28 07:40	25° \ 40'52 0° \ Y 14° \ Y09'17 24° \ Y45'47 0° \ \ 10° \ \ 802'28 13° \ \ 839'11 13° \ \ 816'24 8° \ \ 838'37 8° \ \ 830'56 5° \ \ 846'43 3° \ \ 803'35 2° \ \ 801'13 1° \ \ 820'19 9° \ \ 806'59 0° \ \ \ \ 1 27° \ \ \ 120'08 0° \ \ \ 0° \ \ \ 1 1° \ \ 925'42 12° \ \ 939'50	1°57'51 18°20'15 2°31'33 2°30'38 0.58955 AU 27°12'33	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node max. Earth dist. superior conj	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21 3906 Mar 26 06:08 3906 Apr 01 21:10 3906 Apr 04 13:14 3906 Apr 11 03:04 3906 Apr 11 05:33 3906 Apr 14 07:15 3906 Apr 17 19:56 3906 Apr 24 13:56 3906 Apr 25 07:24 3906 May 08 19:26 3906 May 16 20:29 3906 Jun 04 14:23 3906 Jun 10 14:09 3906 Jun 15 04:40 3906 Jun 16 13:47	6°\tau22'16 26°\tau41'30 0°\tau 13°\tau38'00 23°\tau3'09 26°\tau26'39 25°\tau53'42 20°\tau52'52 20°\tau49'22 17°\tau52'01 15°\tau00'45 12°\tau48'43 12°\tau45'14 20°\tau40'23 0°\tau 0°\tau 11°\tau48'38 21°\tau32'24 24°\tau32'07	2°07'24 18°07'10 3°16'03 3°15'39 0.61142 AU 27°48'02 1.32190 AU 0°28'14
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evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node superior conj minimum elong max. Earth dist. evening rise	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21 3905 Apr 04 09:08 3905 Apr 11 19:08 3905 Apr 19 01:29 3905 Apr 28 16:52 3905 Apr 28 20:31 3905 May 02 03:24 3905 May 06 02:56 3905 May 06 02:56 3905 May 12 07:55 3905 May 26 17:18 3905 Jun 11 15:43 3905 Jun 27 15:36 3905 Jun 28 07:40 3905 Jul 03 03:27 3905 Jul 03 03:27 3905 Jul 10 07:11 3905 Jul 11 11:12 3905 Jul 28 08:10 3905 Aug 04 09:41 3905 Aug 08 06:51	25° \ 40'52 0° \ 7 14° \ 709'17 24° \ 745'47 0° \ 8 10° \ 802'28 13° \ 839'11 13° \ 816'24 8° \ 838'37 8° \ 830'56 5° \ 846'43 3° \ 803'35 2° \ 801'13 1° \ 820'19 9° \ 806'59 0° \ II 27° \ I 20'08 0° \ 9° \ 12° \ 925'42 12° \ 932'54 11° \ 957'12 27° \ 932'54 0° \ \ \ 13' \ \ 0° \ \ 13' \ 13' \ 36'	1°57'51 18°20'15 2°31'33 2°30'38 0.58955 AU 27°12'33 0°51'46 0°51'23	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise evening max el desc. node	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21 3906 Mar 26 06:08 3906 Apr 01 21:10 3906 Apr 04 13:14 3906 Apr 11 03:04 3906 Apr 11 05:33 3906 Apr 14 07:15 3906 Apr 24 13:56 3906 Apr 24 13:56 3906 Apr 25 07:24 3906 May 08 19:26 3906 May 16 20:29 3906 Jun 04 14:23 3906 Jun 10 14:09 3906 Jun 15 04:40 3906 Jun 16 13:47 3906 Jun 17 20:43 3906 Jun 19 01:40 3906 Jun 19 01:40 3906 Jun 24 18:15 3906 Jun 23:39 3906 Jul 20 23:39 3906 Jul 22 06:42 3906 Jul 29 04:20	6°\t22'16 26°\t41'30 0°\tau 13°\tau38'00 23°\tau39'09 26°\tau26'39 25°\tau53'42 20°\tau55'25 20°\tau49'22 17°\tau52'01 15°\tau0'45 12°\tau43'43 12°\tau45'14 20°\tau6'34'3 12°\tau45'14 20°\tau6'31 20°\tau6'31 21°\tau52'4 24°\tau32'07 27°\tau28'01 27°\tau21'09 0°\tau6 12°\tau22'30 0°\tau6 24°\tau12'30 25°\tau24'00 0°\tau6	2°07'24 18°07'10 3°16'03 3°15'39 0.61142 AU 27°48'02 1.32190 AU 0°28'14 0°27'59
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node superior conj minimum elong max. Earth dist. evening rise	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21 3905 Apr 04 09:08 3905 Apr 11 19:08 3905 Apr 19 01:29 3905 Apr 28 16:52 3905 Apr 28 20:31 3905 May 02 03:24 3905 May 06 02:56 3905 May 06 02:56 3905 May 12 07:55 3905 May 26 17:18 3905 Jun 11 15:43 3905 Jun 27 15:36 3905 Jun 28 07:40 3905 Jul 03 11:11 3905 Jul 03 09:10 3905 Jul 03 09:10 3905 Jul 10 07:11 3905 Jul 11 11:12 3905 Jul 28 08:10 3905 Aug 04 09:41 3905 Aug 08 06:51 3905 Aug 22 06:12	25° \ 40'52 0° \ 7 14° \ 709'17 24° \ 745'47 0° \ 8 10° \ 802'28 13° \ 839'11 13° \ 816'24 8° \ 838'37 8° \ 830'56 5° \ 846'43 3° \ 803'35 2° \ 801'13 1° \ 820'19 9° \ 806'59 0° \ II 27° \ II 20'08 0° \ 9° \ II 27° \ II 20'08 0° \ 10 \ 25'42 12° \ 939'50 12° \ 925'42 11° \ 957'12 27° \ 932'54 0° \ \ \ \	1°57'51 18°20'15 2°31'33 2°30'38 0.58955 AU 27°12'33 0°51'46 0°51'23 1.32025 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise evening max el desc. node retrograde	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21 3906 Mar 26 06:08 3906 Apr 01 21:10 3906 Apr 04 13:14 3906 Apr 11 03:04 3906 Apr 11 05:33 3906 Apr 14 07:15 3906 Apr 17 19:56 3906 Apr 24 13:56 3906 Apr 25 07:24 3906 May 08 19:26 3906 May 16 20:29 3906 Jun 04 14:23 3906 Jun 10 14:09 3906 Jun 15 04:40 3906 Jun 16 13:47 3906 Jun 17 20:43 3906 Jun 17 20:43 3906 Jun 19 01:40 3906 Jun 19 01:40 3906 Jun 24 18:15 3906 Jul 20 23:39 3906 Jul 22 06:42 3906 Jul 29 04:20 3906 Aug 03 22:32	6°\t22'16 26°\t41'30 0°\tau 13°\tau38'00 23°\tau39'09 26°\tau26'39 25°\tau53'42 20°\tau55'25 20°\tau49'22 17°\tau52'01 15°\tau0'45'14 20°\tau40'23 0°\tau50'\tau10'\tau50'\tau10'\tau50'\tau10'\tau50'	2°07'24 18°07'10 3°16'03 3°15'39 0.61142 AU 27°48'02 1.32190 AU 0°28'14 0°27'59
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node superior conj minimum elong max. Earth dist. evening rise	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21 3905 Apr 04 09:08 3905 Apr 11 19:08 3905 Apr 19 01:29 3905 Apr 28 16:52 3905 Apr 28 20:31 3905 May 02 03:24 3905 May 06 02:56 3905 May 08 10:23 3905 May 12 07:55 3905 May 26 17:18 3905 Jun 11 15:43 3905 Jun 27 15:36 3905 Jun 28 07:40 3905 Jul 03 11:11 3905 Jul 03 09:10 3905 Jul 03 09:10 3905 Jul 10 07:11 3905 Jul 11 11:12 3905 Jul 10 07:11 3905 Jul 11 11:12 3905 Jul 28 08:10 3905 Aug 04 09:41 3905 Aug 08 06:51 3905 Aug 28 19:24	25°\(\)40'52 0°\(\)Y 14°\(\)Y09'17 24°\(\)Y45'47 0°\(\)B 10°\(\)B02'28 13°\(\)B39'11 13°\(\)B16'24 8°\(\)B38'37 8°\(\)B30'56 5°\(\)B46'43 3°\(\)B03'35 2°\(\)B01'13 1°\(\)B20'19 9°\(\)B06'59 0°\(\)I 27°\(\)I20'08 0°\(\)B 1°\(\)S25'42 12°\(\)B39'50 12°\(\)S25'42 12°\(\)B39'50 12°\(\)S25'42 0°\(\)R 0°\(\)M 9°\(\)M09'45 13°\(\)M13'36 20°\(\)M23'29 18°\(\)M37'47	1°57'51 18°20'15 2°31'33 2°30'38 0.58955 AU 27°12'33 0°51'46 0°51'23 1.32025 AU 26°18'25	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise evening max el desc. node	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21 3906 Mar 26 06:08 3906 Apr 01 21:10 3906 Apr 04 13:14 3906 Apr 11 03:04 3906 Apr 11 05:33 3906 Apr 14 07:15 3906 Apr 17 19:56 3906 Apr 24 13:56 3906 Apr 25 07:24 3906 May 08 19:26 3906 May 16 20:29 3906 Jun 04 14:23 3906 Jun 10 14:09 3906 Jun 15 04:40 3906 Jun 17 21:58 3906 Jun 17 20:43 3906 Jun 17 20:43 3906 Jun 19 01:40 3906 Jun 19 01:40 3906 Jun 19 01:40 3906 Jun 19 01:40 3906 Jun 24 18:15 3906 Jul 20 23:39 3906 Jul 20 23:39 3906 Jul 29 04:20 3906 Aug 03 22:32 3906 Aug 09 08:55	6°\t22'16 26°\t41'30 0°\tau 13°\tau38'00 23°\tau30'99 26°\tau26'39 25°\tau53'42 20°\tau55'25 20°\tau49'22 17°\tau52'01 15°\tau0'45'14 20°\tau40'23 0°\tau50'\tau10'	2°07'24 18°07'10 3°16'03 3°15'39 0.61142 AU 27°48'02 1.32190 AU 0°28'14 0°27'59
evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node superior conj minimum elong max. Earth dist. evening rise	3905 Mar 16 15:21 3905 Mar 19 00:28 3905 Mar 26 14:43 3905 Apr 01 08:21 3905 Apr 04 09:08 3905 Apr 11 19:08 3905 Apr 19 01:29 3905 Apr 28 16:52 3905 Apr 28 20:31 3905 May 02 03:24 3905 May 06 02:56 3905 May 06 02:56 3905 May 12 07:55 3905 May 26 17:18 3905 Jun 11 15:43 3905 Jun 27 15:36 3905 Jun 28 07:40 3905 Jul 03 11:11 3905 Jul 03 09:10 3905 Jul 03 09:10 3905 Jul 10 07:11 3905 Jul 11 11:12 3905 Jul 28 08:10 3905 Aug 04 09:41 3905 Aug 08 06:51 3905 Aug 22 06:12	25° \ 40'52 0° \ 7 14° \ 709'17 24° \ 745'47 0° \ 8 10° \ 802'28 13° \ 839'11 13° \ 816'24 8° \ 838'37 8° \ 830'56 5° \ 846'43 3° \ 803'35 2° \ 801'13 1° \ 820'19 9° \ 806'59 0° \ II 27° \ II 20'08 0° \ 9° \ II 27° \ II 20'08 0° \ 10 \ 25'42 12° \ 939'50 12° \ 925'42 11° \ 957'12 27° \ 932'54 0° \ \ \ \	1°57'51 18°20'15 2°31'33 2°30'38 0.58955 AU 27°12'33 0°51'46 0°51'23 1.32025 AU 26°18'25 0.59343 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise evening max el desc. node retrograde	3906 Feb 25 22:27 3906 Mar 09 12:01 3906 Mar 11 08:15 3906 Mar 19 05:21 3906 Mar 26 06:08 3906 Apr 01 21:10 3906 Apr 04 13:14 3906 Apr 11 03:04 3906 Apr 11 05:33 3906 Apr 14 07:15 3906 Apr 17 19:56 3906 Apr 24 13:56 3906 Apr 25 07:24 3906 May 08 19:26 3906 May 16 20:29 3906 Jun 04 14:23 3906 Jun 10 14:09 3906 Jun 15 04:40 3906 Jun 16 13:47 3906 Jun 17 20:43 3906 Jun 17 20:43 3906 Jun 19 01:40 3906 Jun 19 01:40 3906 Jun 24 18:15 3906 Jul 20 23:39 3906 Jul 22 06:42 3906 Jul 29 04:20 3906 Aug 03 22:32	6°\ 22'16 26°\ 41'30 0°\ 13°\ 738'00 23°\ 703'09 26°\ 726'39 25°\ 753'42 20°\ 755'25 20°\ 749'22 17°\ 752'01 15°\ 700'45 12°\ 745'14 20°\ 740'23 0°\ 8 0°\ 11\ 11°\ 148'38 21°\ 132'24 24°\ 132'07 27°\ 128'01 27°\ 121'09 0°\ 12°\ 22'30 0°\ \(\Omega \) 12°\ 22'30 0°\ \(\Omega \) 12°\ \(\Omega \) 12'\ \(\Omega \) 13'\ \(\Omega \) 13'	2°07'24 18°07'10 3°16'03 3°15'39 0.61142 AU 27°48'02 1.32190 AU 0°28'14 0°27'59

inferior conj	3906 Aug 17 10:08	25° Ω 25'52	5°10'18	evening set	3907 Jul 20 00:44	10° Ω 54'19	
minimum elong	3906 Aug 17 10:08 3906 Aug 17 10:02	25° Ω 26'01		min. Earth dist.	3907 Jul 26 00:44 3907 Jul 26 22:29		0.55781 AU
_	-	23 δί 2001 21° Ω 15'53	3 10 16		3907 Jul 28 21:41	6° Ω 33'47	
morning rise	3906 Aug 25 13:36			inferior conj			
direct	3906 Aug 28 03:23	20° £ 56'44	10010102	minimum elong	3907 Jul 28 15:36	6° Ω 42'49	4-45/12
morning max el	3906 Sep 06 03:40	25° Ω 10'58	19°10'03	morning rise	3907 Aug 06 08:53	2° Ω 40′00	
	3906 Sep 10 08:28	0° m		direct	3907 Aug 09 05:24	2° Ω 20'03	20010155
asc. node	3906 Sep 11 03:54	1° Mp 06'56		morning max el	3907 Aug 19 17:35	7° Ω 12'45	20°18'55
morning set	3906 Sep 23 01:24	22° m 14'06		asc. node	3907 Aug 29 00:57	19° Ω 23'08	
	3906 Sep 26 23:00	0∘ ত			3907 Sep 03 20:53	0°Щ	
				morning set	3907 Sep 07 06:52	6° ™ 50'50	
superior conj	3906 Oct 01 06:51	8° ≏ 30'04	1°38'17				
minimum elong	3906 Oct 01 08:57	8° ≏ 40'12	1°38'09	superior conj	3907 Sep 14 21:51	22° Mp 28'58	1°44'09
max. Earth dist.	3906 Oct 07 21:32	20° ≏ 54'12	1.38467 AU	minimum elong	3907 Sep 14 22:16	22°M/31'06	1°44'08
evening rise	3906 Oct 11 16:40	27° ≏ 38'47			3907 Sep 18 16:35	0∘ ⊽	
	3906 Oct 13 01:23	0° M		max. Earth dist.	3907 Sep 20 03:58	2° £ 51'15	1.36484 AU
desc. node	3906 Oct 18 06:02	8°M39'28		evening rise	3907 Sep 24 01:29	10° ≏ 09'57	
	3906 Nov 01 10:18	0° ∡ ¹		desc. node	3907 Oct 05 03:03	29° ჲ 06'26	
evening max el	3906 Nov 16 06:08	18° ∡ 05'23	24°47'34		3907 Oct 05 16:32	0° M	
retrograde	3906 Nov 27 21:19	24° ₹ 51'17			3907 Oct 27 23:46	0° ∡ ¹	
evening set	3906 Dec 03 11:20	22° ҂ ³31′28		evening max el	3907 Oct 29 18:36	1° ∡ ¹48′02	25°57'25
min. Earth dist.	3906 Dec 08 01:16	17° ∡ ¹20'39	0.67546 AU	retrograde	3907 Nov 11 06:16	8° ∡ ¹53'51	
asc. node	3906 Dec 08 03:05	17° ∡ 14'38		evening set	3907 Nov 17 10:10	6° ∡ 121′05	
inferior conj	3906 Dec 08 23:40	16° ≯ 06'30	0°17'33	min. Earth dist.	3907 Nov 21 16:48	1° ∡ ¹45'35	0.66814 AU
minimum elong	3906 Dec 08 23:14	16° ₹ 07'56	0°17'22	inferior conj	3907 Nov 23 02:18	0° ≯ 00'39	
morning rise	3906 Dec 14 11:15	10° ≯ 06'08		minimum elong	3907 Nov 23 03:20	29°M57'23	0°38'49
direct	3906 Dec 18 02:44	8° × ⁷ 49'41		mmum trong	3907 Nov 23 02:30	30°RM	0 00 .9
morning max el	3906 Dec 25 14:16	13° × ⁷ 03'57	19°52'19	asc. node	3907 Nov 25 00:08	27°M41'08	
morning max ci	3907 Jan 07 12:34	0°る	17 32 17	morning rise	3907 Nov 28 20:55	24°M09'12	
desc. node	3907 Jan 14 05:16	0 0 10° る 01'52		direct	3907 Nov 28 20:35 3907 Dec 02 01:25	23°M10'59	
morning set	3907 Jan 14 03:10 3907 Jan 20 19:00	10 301 32 20°る05'44		morning max el	3907 Dec 02 01:23 3907 Dec 08 22:02	26°M58'52	10056151
morning set	3907 Jan 27 03:52	20 003 44 0°≈		morning max er	3907 Dec 08 22.02 3907 Dec 11 14:54	20 IIL3632 0° √	18 30 31
Faul die			1 44155 ATT			0 x . 28° x 57'43	
max. Earth dist.	3907 Feb 01 05:15	7°≈59'22	1.44155 AU	morning set	3907 Dec 31 02:47		
	2007.F.1. 06.06.25	1.60 - 0.7100	2000122		3907 Dec 31 18:42	0°る	
superior conj	3907 Feb 06 06:35	16°≈07'00		desc. node	3908 Jan 01 02:18	0°る29'44	1 15060 177
minimum elong	3907 Feb 06 01:19	15°≈45'37	2°00'18	max. Earth dist.	3908 Jan 14 21:54	22° る 08'03	1.45062 AU
	3907 Feb 14 16:14	0°) (
evening rise	3907 Feb 19 14:39	8°) 22′03		superior conj	3908 Jan 16 16:37	24° る 56'09	
	3907 Mar 04 17:41	0° Υ		minimum elong	3908 Jan 16 07:25	24° る 19'54	1°33'17
asc. node	3907 Mar 06 02:22	1° Y 55'18			3908 Jan 19 21:31	0° ≈	
evening max el	3907 Mar 09 18:55	6° Y 20′02	18°13'16	evening rise	3908 Jan 31 18:58	19° ≈ 05'37	
retrograde	3907 Mar 16 05:05	9° Ƴ 44'50			3908 Feb 07 11:53	0° ∀	
evening set	3907 Mar 19 03:03	9° Ƴ 00′23		asc. node	3908 Feb 20 23:24	19° ∺ 26'41	
inferior conj	3907 Mar 25 05:01	3° Y 42′26	3°35'06	evening max el	3908 Feb 21 06:40	19°) (45′25	18°37'41
minimum elong	3907 Mar 25 05:44	3° Ƴ 40′28	3°35'04	retrograde	3908 Feb 27 21:00	23°) €24'16	
min. Earth dist.	3907 Mar 27 19:50	0° Ƴ 51'15	0.63210 AU	evening set	3908 Mar 02 01:00	22°) €27'33	
	3907 Mar 28 15:43	30° ₹ ₩		inferior conj	3908 Mar 07 18:40	16° ∺ 51'27	3°34'55
morning rise	3907 Mar 31 07:22	27°) 36′49		minimum elong	3908 Mar 07 17:49	16° ¥ 53'59	3°34'53
direct	3907 Apr 07 04:53	24° 升 56′15		min. Earth dist.	3908 Mar 09 17:52	14° ∺ 29'26	0.64972 AU
desc. node	3907 Apr 12 04:26	26° ∺ 08'40		morning rise	3908 Mar 13 10:09	10°) 40′11	
	3907 Apr 17 23:17	0 ° Υ		direct	3908 Mar 20 03:08	7°) 49′50	
morning max el	3907 Apr 21 02:35	2° Ƴ 54'21	27°46'02	desc. node	3908 Mar 29 01:29	11°) (40′12	
	3907 May 11 05:59	$B_{\circ 0}$		morning max el	3908 Apr 02 12:19	15°) 39′55	27°09'33
morning set	3907 May 25 12:41	25° 8 55'33			3908 Apr 14 07:10	0° Y	
_	3907 May 27 12:52	$\Pi^{\circ}0$			3908 May 03 00:15	0° ႘	
max. Earth dist.	3907 May 30 19:09	6° Ⅱ 49'02	1.32780 AU	morning set	3908 May 08 01:58	9° 8 30'57	
	J			max. Earth dist.	3908 May 12 15:38	18° 8 36'15	1.33817 AU
superior conj	3907 Jun 02 05:58	12° Ⅱ 03'53	0°01'53		,		
minimum elong	3907 Jun 02 05:52	12° I 103'23	0°01'51	superior conj	3908 May 16 09:04	26° 8 19'56	-0°26'31
behind sun begin	3907 Jun 02 00:38	11° II 35'08		minimum elong	3908 May 16 10:27	26° 8 27'11	
behind sun end	3907 Jun 02 00:38	12° I I31'41			3908 May 18 02:43	0°II	V =VII
asc. node	3907 Jun 02 01:41	12 II 31 41		asc. node	3908 May 18 02:43	0 H 1°H46'13	
evening rise	3907 Jun 09 06:07	27° I I1'06		evening rise	3908 May 18 22:43 3908 May 23 16:51	11° I I51'13	
evening 1150	3907 Jun 10 14:12	27 ப 1106		evening 1150	3908 May 23 16.31 3908 Jun 02 01:41	0ஃ உ	
	3907 Jun 10 14:12 3907 Jun 28 06:26	0°€		avanina may al		15° 5 09'49	210/0/04
evening max el	2207 Jun 20 00:20	0 06		evening max el	3908 Jun 13 05:30	13 = 909 49	49 UO
	2007 Jul 02 12:46	10 1 1111	22024125	daga mada	2009 Jun 25 00:42	2100520122	
•	3907 Jul 02 12:46	4° Ω 41'16	23°24'25	desc. node	3908 Jun 25 00:43	21°520'33	
desc. node retrograde	3907 Jul 02 12:46 3907 Jul 09 03:42 3907 Jul 16 02:08	4° Ω 41'16 9° Ω 39'10 11° Ω 28'18	23°24'25	desc. node retrograde evening set	3908 Jun 25 00:43 3908 Jun 25 18:35 3908 Jun 28 09:42	21°520'33 21°521'50 21°506'17	

:£:	2000 1-1 07 10-10	1796-02126	2021124	JJ.	2000 I 11 21.45	00617113	
inferior conj	3908 Jul 07 18:18	17°503'26		desc. node	3909 Jun 11 21:45	0°©16'13	
minimum elong	3908 Jul 07 09:52	17°5015'14			3909 Jun 12 13:01	30°RⅡ	1020120
min. Earth dist.	3908 Jul 07 09:00	17° © 16'27	0.54922 AU	inferior conj	3909 Jun 17 12:27	27° Ⅲ 21'03	
morning rise	3908 Jul 16 11:28	13° © 11'25		minimum elong	3909 Jun 17 07:46	27° Ⅱ 27'51	1°37'38
direct	3908 Jul 19 17:03	12° © 48'29		min. Earth dist.	3909 Jun 18 21:08	26° ∏ 33'28	0.54996 AU
morning max el	3908 Jul 31 19:49	18° © 29'15	21°47'32	morning rise	3909 Jun 26 06:39	23° Ⅱ 09'58	
	3908 Aug 10 01:09	$0^{\circ}\Omega$		direct	3909 Jun 30 02:59	22° Ⅲ 38′01	
asc. node	3908 Aug 14 22:00	8° Ω 16'34		morning max el	3909 Jul 13 13:10	29° Ⅱ 08'49	23°28'53
morning set	3908 Aug 21 16:13	21° Ω 38'47			3909 Jul 14 10:22	0 \circ \mathfrak{S}	
	3908 Aug 25 15:20	0° m)		asc. node	3909 Aug 01 19:02	27° © 37'52	
	Ç	•			3909 Aug 02 23:36	$0^{\circ}\Omega$	
superior conj	3908 Aug 28 21:57	6° m 54'47	1°42'31	morning set	3909 Aug 06 03:35	6° Ω 32'15	
minimum elong	3908 Aug 28 21:00	6° Mp 49'47	1°42'28	morning sec	3707 Hag 00 03.33	0 0032 13	
max. Earth dist.	3908 Sep 01 17:10		1.34786 AU	aumariar aani	2000 Aug 12 04:00	21° Ω 38'10	1°34'37
	•	14° Mp 45'12	1.34/80 AU	superior conj	3909 Aug 13 04:09		
evening rise	3908 Sep 06 03:14	23° m 28'55		minimum elong	3909 Aug 13 02:16	21° Ω 28'04	1°34'27
	3908 Sep 09 14:35	0∘ ত		max. Earth dist.	3909 Aug 15 15:10	26° Ω 53'14	1.33479 AU
desc. node	3908 Sep 21 00:05	19° ≏ 16'17			3909 Aug 17 02:43	0° m	
	3908 Sep 28 07:42	0°M₊		evening rise	3909 Aug 20 17:42	7° ™ 24'21	
evening max el	3908 Oct 11 07:09	15°M25'32	26°51'19		3909 Sep 02 03:08	0∘ ত	
retrograde	3908 Oct 24 09:55	22°M41'40		desc. node	3909 Sep 07 21:06	9° ഫ 01'06	
evening set	3908 Oct 31 02:23	20°ML00'58		evening max el	3909 Sep 23 19:01	28° ♀ 47'25	27°22'00
min. Earth dist.	3908 Nov 04 02:10	16°M01'27	0.65726 AU	•	3909 Sep 25 02:34	0°M	
inferior conj	3908 Nov 05 23:29	13°M49'41		retrograde	3909 Oct 07 07:50	6°M05'49	
minimum elong	3908 Nov 06 02:16	13°M41'38		evening set	3909 Oct 14 09:20	3°M25'23	
asc. node	3908 Nov 10 02:10	8°M55'53	1 36 13	Č			0.64200.411
				min. Earth dist.	3909 Oct 18 03:14	0°M00'24	0.64290 AU
morning rise	3908 Nov 12 02:56	8°M10'05			3909 Oct 18 03:24	30° ₹ Ω	
direct	3908 Nov 14 22:32	7°M26'27		inferior conj	3909 Oct 20 12:49	27° ≏ 27'55	
morning max el	3908 Nov 21 11:29	10°M58'39	18°17'38	minimum elong	3909 Oct 20 17:19	27° ≏ 15'58	2°39'06
	3908 Dec 04 21:12	0°⊀		morning rise	3909 Oct 27 02:33	22° ჲ 03'07	
morning set	3908 Dec 10 14:24	9° ∡ 15'36		asc. node	3909 Oct 28 18:16	21° ≏ 34'16	
desc. node	3908 Dec 17 23:22	21° ₰ 08'06		direct	3909 Oct 29 15:37	21° ≏ 30'12	
	3908 Dec 23 13:20	ರ°ರ		morning max el	3909 Nov 05 03:49	24° ♀ 56'00	17°55'19
				•	3909 Nov 09 08:13	0°M	
superior conj	3908 Dec 25 19:08	3° ჳ 32'04	-0°51'47	morning set	3909 Nov 22 06:23	20°M56'12	
minimum elong	3908 Dec 25 12:39	3° ට 06'33			3909 Nov 27 15:19	0° ⊼	
max. Earth dist.	3908 Dec 27 17:15	6° ප 33'16	1.45234 AU	desc. node	3909 Dec 04 20:24	11° ₹ 52'28	
		28°පි56'01	1.43234 AU	desc. Hode	3909 DCC 04 20.24	11 × 32 26	
evening rise	3909 Jan 11 00:31				2000 D 07 10 46	100 75007	000 4100
	3909 Jan 11 16:53	0° ≈		superior conj	3909 Dec 05 10:46	12° ₹ 50'37	
greatest brilliancy	3909 Jan 22 06:45	16° ≈ 27'17	-0.7m	minimum elong	3909 Dec 05 10:17	12° ∡ °48'41 −	0°04'05
	3909 Jan 31 18:44	0° ∀		behind sun begin	3909 Dec 05 00:23	12° ≯ 08'36	
evening max el	3909 Feb 03 15:09	3° ₩ 15'27	19°19'16	behind sun end	3909 Dec 05 20:12	13° ≯ 28'43	
asc. node	3909 Feb 06 20:27	5°) 59'46		max. Earth dist.	3909 Dec 10 11:50	20° ∡ 54′55	1.44669 AU
retrograde	3909 Feb 10 17:25	7° ₩ 19'07			3909 Dec 16 06:41	o°ප	
evening set	3909 Feb 14 04:19	6°) 6°) 109′20		evening rise	3909 Dec 21 13:23	8° る 10'05	
inferior conj	3909 Feb 19 16:38	0° ℋ 17'18	3°20'16		3910 Jan 05 00:18	0° ≈	
minimum elong	3909 Feb 19 14:44	0°) 23′27	3°19'59	evening max el	3910 Jan 17 18:46	16° ≈ 47'12	20°16'17
Č	3909 Feb 19 21:58	30° R ≈		asc. node	3910 Jan 24 17:31	21° ≈ 19′22	
min. Earth dist.	3909 Feb 21 00:41	28° ≈ 33'39	0.66341 AU	retrograde	3910 Jan 25 15:31	21° ≈ 23'57	
morning rise	3909 Feb 25 00:53	24°≈03'34	5.555 11 710	evening set	3910 Jan 29 10:44	20°≈00'05	
direct	3909 Mar 03 07:49	21°≈16'28		inferior conj	3910 Feb 03 20:05	13°≈54'46	2054125
				•			
desc. node	3909 Mar 15 22:32	28°≈46'43	26005142	minimum elong	3910 Feb 03 17:40	14°≈02'59	
morning max el	3909 Mar 15 22:11	28°≈45'48	26°05'43	min. Earth dist.	3910 Feb 04 14:21	12°≈52'53	0.67292 AU
	3909 Mar 17 02:49	0° ∀		morning rise	3910 Feb 09 00:22	7° ≈ 40'48	
	3909 Apr 08 02:18	$0^{\circ}\mathbf{\Upsilon}$		direct	3910 Feb 14 18:06	5° ≈ 07'06	
morning set	3909 Apr 21 02:11	22° Y 24'09		morning max el	3910 Feb 26 06:52	12° ≈ 00′50	24°44'13
max. Earth dist.	3909 Apr 25 00:40	29° Ƴ 52'16	1.35314 AU	desc. node	3910 Mar 02 19:35	17° ≈ 00'53	
	3909 Apr 25 02:15	9° 8			3910 Mar 12 17:24	0° ∀	
					3910 Mar 31 20:23	0 ° Υ	
superior conj	3909 Apr 30 04:54	10° 8 09'37	-0°55'37	morning set	3910 Apr 03 08:12	4° Y 20'56	
minimum elong	3909 Apr 30 07:52	10° 8 24'43		max. Earth dist.	3910 Apr 06 23:16	10° Y 52'41	1.37222 AU
asc. node	3909 May 05 19:46	21° 8 44'34			1		
evening rise	3909 May 08 00:29	26° 8 16'48		superior conj	3910 Apr 13 14:22	23° Y 25'00	-1°23'35
5 , ching 1150	3909 May 09 20:17	0°II		minimum elong	3910 Apr 13 14:22	23° Y 45'59	
ovenina ma1	· · · · · · · · · · · · · · · · · · ·		20026102	minimum eiong	-		1 44 31
evening max el	3909 May 26 08:40	26° Ⅱ 07'39	20°26'02	- :	3910 Apr 16 22:33	0° 8	
	3909 May 31 12:53	0.20 0.20		evening rise	3910 Apr 22 02:40	10° 8 21'10	
retrograde	3909 Jun 06 07:51	1°528'52		asc. node	3910 Apr 22 16:49	11° 8 31'40	
evening set	3909 Jun 08 07:52	1°9518'54			3910 May 02 20:33	Π °0	

	2010 M 00 00 11	70T 47100	10021121	. 1	2011 4 20 21 50	2200 55155	
evening max el	3910 May 09 00:11	7° Ⅱ 47'08	19°21'21	retrograde	3911 Apr 29 21:59	23° 8 55'55	
retrograde	3910 May 18 06:01	12° Ⅱ 16'49		evening set	3911 May 02 04:03	23° 8 37'56	
evening set	3910 May 20 06:01	12° Ⅲ 05'07		inferior conj	3911 May 09 20:26	19° 8 12'00	1°52'02
inferior conj	3910 May 28 18:22	7° Ⅱ 57'46	0°17'50	minimum elong	3911 May 09 23:56	19° 8 05'17	1°50'58
minimum elong	3910 May 28 19:07	7° Ⅱ 56'31	0°17'34	min. Earth dist.	3911 May 13 05:24	16° 8 38'11	0.57760 AU
desc. node	3910 May 29 18:45	7° Ⅱ 17'36		desc. node	3911 May 16 15:47	14° 8 25'13	
min. Earth dist.	3910 May 31 11:39	6° Ⅱ 11'10	0.56013 AU	morning rise	3911 May 17 16:37	13° 8 53'35	
morning rise	3910 Jun 06 05:15	3° Ⅱ 13′22		direct	3911 May 23 10:36	12° 8 30'39	
direct	3910 Jun 10 23:44	2° Ⅱ 21′23		morning max el	3911 Jun 06 19:30	20° 8 06'51	26°36'04
morning max el	3910 Jun 25 03:07	9° Ⅲ 32'17	25°10'20		3911 Jun 15 06:37	$\Pi^{\circ}0$	
	3910 Jul 10 11:14	0°ಅ			3911 Jul 03 01:09	0 \circ \mathfrak{S}	
asc. node	3910 Jul 19 16:05	17° © 19'28		morning set	3911 Jul 06 01:45	6°9514'27	
morning set	3910 Jul 21 15:19	21° © 26'14		asc. node	3911 Jul 06 13:06	7° © 14'28	
8	3910 Jul 25 14:35	$0^{\circ}\Omega$					
	5)10 Jul 25 11.55	o 00		superior conj	3911 Jul 13 01:40	21° © 26'57	1°03'46
superior conj	3910 Jul 28 14:04	6° Ω 31'27	1°21'27	minimum elong	3911 Jul 12 23:24	21°9514'30	1°03'22
minimum elong	3910 Jul 28 11:45	6° Ω 18'50	1°21'09	max. Earth dist.	3911 Jul 13 07:34	21°959'30	1.32117 AU
max. Earth dist.				max. Earm dist.			1.32117 AU
	3910 Jul 29 20:59	9° Ω 20'20	1.32591 AU		3911 Jul 16 23:14	0° Ω	
evening rise	3910 Aug 04 17:20	21° Ω 46′14		evening rise	3911 Jul 19 23:11	6° Ω 24'24	
	3910 Aug 08 20:11	0° m			3911 Aug 01 09:38	0° m	
desc. node	3910 Aug 25 18:06	28° Mp 10'35		desc. node	3911 Aug 12 15:06	16°Mp29'10	
	3910 Aug 27 02:02	0∘ ರ		evening max el	3911 Aug 19 08:42	23° m 55'22	26°51'35
evening max el	3910 Sep 06 04:26	11° ≏ 41'56	27°23'22		3911 Aug 28 02:04	0∘ ⊽	
retrograde	3910 Sep 19 23:10	18° ≏ 57'21		retrograde	3911 Sep 02 06:40	1° ≏ 06′20	
evening set	3910 Sep 27 03:42	16° ≏ 28'34			3911 Sep 07 07:37	30°R, Mp	
min. Earth dist.	3910 Sep 30 18:25	13° ≏ 32'32	0.62536 AU	evening set	3911 Sep 09 05:01	29° m 01'48	
inferior conj	3910 Oct 03 15:27	10° ≏ 49'06	-3°39'54	min. Earth dist.	3911 Sep 12 22:50	26° m 23'46	0.60541 AU
minimum elong	3910 Oct 03 21:12	10° £ 35'27	3°38'12	inferior conj	3911 Sep 16 03:59	23° m 43'37	-4°31'03
morning rise	3910 Oct 10 16:21	5° £ 42'16		minimum elong	3911 Sep 16 09:35	23°m/31'55	
direct	3910 Oct 13 01:40	5° £ 16'31		morning rise	3911 Sep 23 16:05	18° m) 57'59	
asc. node	3910 Oct 15 01:18	5° £ 47'10		direct	3911 Sep 26 00:48	18° Mp 36'24	
morning max el	3910 Oct 19 19:18	8° Ω 43'58	17°50'48	asc. node	3911 Oct 02 12:20	21° Tb 26'33	
morning max er	3910 Oct 19 20:02 3910 Nov 02 19:07	0°M	17 30 46		3911 Oct 02 12:20 3911 Oct 03 08:54	-•	18°05'21
				morning max el		22° m) 13'47	18 03 21
morning set	3910 Nov 04 20:57	3°M41'52			3911 Oct 09 09:43	0° ⊽	
				morning set	3911 Oct 19 03:50	17° Ω 13'59	
superior conj	3910 Nov 16 03:43	23°M23'59	0°38'12		3911 Oct 26 01:12	0° M	
minimum elong	3910 Nov 16 07:07	23°M38'22	0°37'44				
	3910 Nov 20 02:31	0° ⊼		superior conj	3911 Oct 28 22:39	5° ™ 13'09	1°10'06
desc. node	3910 Nov 21 17:26	2° ⋌ 39'42		minimum elong	3911 Oct 29 02:48	5° ™ 31'37	1°09'37
max. Earth dist.	3910 Nov 23 03:15	4° ₹ 57'16	1.43448 AU	max. Earth dist.	3911 Nov 05 14:10	18° M 26′57	1.41709 AU
evening rise	3910 Nov 30 23:53	17° ∡ ¹24'48		desc. node	3911 Nov 08 14:26	23°M26'17	
	3910 Dec 09 06:02	0°₹		evening rise	3911 Nov 10 23:46	27° M 18'48	
	3910 Dec 31 09:04	0° ≈			3911 Nov 12 16:07	0° ∡ 7	
evening max el	3910 Dec 31 16:56	0° ≈ 20'16	21°25'42		3911 Dec 02 23:27	o°る	
retrograde	3911 Jan 09 13:07	5°≈35'08		evening max el	3911 Dec 14 10:08	13° る 55'38	22°43'10
asc. node	3911 Jan 11 14:33	5°≈12'04		retrograde	3911 Dec 24 08:36	19° る 49'36	
evening set	3911 Jan 13 18:24	3°≈55'59		evening set	3911 Dec 29 01:42	17° る 54'16	
evening sec	3911 Jan 17 09:37	30°R₹		asc. node	3911 Dec 29 11:34	17° る 32'56	
inferior conj	3911 Jan 19 02:41	27° る 40'25	2010/31	inferior conj	3912 Jan 03 10:30	11°る32'50	1°37'05
minimum elong	3911 Jan 19 00:15	27°る48'52			3912 Jan 03 08:30	11° ろ 38'47	1°36'20
2				minimum elong			0.68005 AU
min. Earth dist.	3911 Jan 19 08:34	27°る20'03	0.67839 AU	min. Earth dist.	3912 Jan 03 05:01	11°る50'49	0.68005 AU
morning rise	3911 Jan 24 05:54	21°る28'02		morning rise	3912 Jan 08 15:12	5° る 22'46	
direct	3911 Jan 29 09:01	19° る 14'19		direct	3912 Jan 13 03:37	3° る 31'55	
morning max el	3911 Feb 08 15:45	25° る 20'52	23°15'27	morning max el	3912 Jan 22 04:29	8° る 49'04	21°48'47
	3911 Feb 12 20:53	0° ≈		desc. node	3912 Feb 04 13:40	25° る 40'28	
desc. node	3911 Feb 17 16:38	6° ≈ 03'18			3912 Feb 07 14:12	0° ≈	
	3911 Mar 06 05:51	0° ∀		morning set	3912 Feb 23 14:43	24° ≈ 26′13	
morning set	3911 Mar 15 13:50	15°) €04'40			3912 Feb 27 01:17	0°) €	
max. Earth dist.	3911 Mar 19 18:07	22°) 12'47	1.39382 AU	max. Earth dist.	3912 Feb 29 17:15	4°) €23'49	1.41517 AU
	3911 Mar 24 03:38	0°Υ					
	00.00			superior conj	3912 Mar 08 09:24	17°) € 30'55	-2°03'41
superior conj	3911 Mar 27 09:29	5° Ƴ 56'01	-1°47'35	minimum elong	3912 Mar 08 12:22	17°) 43'55	
minimum elong	3911 Mar 27 09:29	6° Υ 17'41	1°47'08	mmmum clong	3912 Mar 15 08:18	17 γ(4333	2 03 34
Č		23° Υ 56'42	1 7/00	avaning rise		6°Υ55'04	
evening rise	3911 Apr 05 20:32	23 130°42		evening rise	3912 Mar 19 02:33	0 133'04	
	•	0° U		aca nada	2012 Mar 26 10.52	2000010152	
,	3911 Apr 09 00:35	0° 8		asc. node	3912 Mar 26 10:52	20° Y 10′52	
asc. node	3911 Apr 09 00:35 3911 Apr 09 13:50	1° 8 02'21	1000 5115		3912 Apr 01 21:18	0°B	10015
asc. node evening max el	3911 Apr 09 00:35	1° 8 02'21	18°36'46	asc. node evening max el			18°12'17

retrograde	3912 Apr 11 08:47	6° 8 21'47		evening max el	3913 Mar 18 22:32	16° Y ′00′25	18°07'24
evening set	3912 Apr 13 21:24	5° 8 54'44		retrograde	3913 Mar 25 10:26	19° Υ 23'09	10 0, 2.
inferior conj	3912 Apr 20 19:47	_	2°53'58	evening set	3913 Mar 28 04:57	18° Y '45'28	
minimum elong	3912 Apr 20 23:06	1° 8 00'25		inferior conj	3913 Apr 03 13:14	13° Y ′38'24	3°26'49
Č	3912 Apr 22 01:55	30° ₽ Υ		minimum elong	3913 Apr 03 14:59	13° Y 33'55	3°26'38
min. Earth dist.	3912 Apr 24 04:42	28° Y ′08'17	0.59884 AU	min. Earth dist.	3913 Apr 06 12:08	10° Ƴ 37'43	0.62048 AU
morning rise	3912 Apr 27 22:23	25° Y ′23'25		morning rise	3913 Apr 09 23:30	7° Y '37'56	
desc. node	3912 May 02 12:49	23° Y '35'15		direct	3913 Apr 16 19:53	5° Y ′09'36	
direct	3912 May 04 10:01	23° Y ′25'22		desc. node	3913 Apr 19 09:51	5° Y ′28'59	
	3912 May 17 10:03	0°8		morning max el	3913 Apr 30 22:53	13° Y ′08'07	27°51'46
morning max el	3912 May 18 18:05	1° 8 16'22	27°32'17		3913 May 14 10:08	0°8	
_	3912 Jun 08 11:23	Π°			3913 May 31 21:21	$\Pi^{\circ}0$	
morning set	3912 Jun 19 09:12	20° Ⅲ 51′50		morning set	3913 Jun 03 11:40	5° Ⅱ 11'49	
asc. node	3912 Jun 22 10:08	27° Ⅲ 18′09		max. Earth dist.	3913 Jun 09 04:06	17° Ⅲ 09'13	1.32387 AU
	3912 Jun 23 16:03	0 \circ \mathfrak{S}		asc. node	3913 Jun 09 07:11	17° Ⅲ 25'50	
max. Earth dist.	3912 Jun 25 19:18	4° © 40'23	1.32050 AU				
				superior conj	3913 Jun 10 23:02	21° Ⅲ 02'07	0°17'21
superior conj	3912 Jun 26 13:13	6° ॐ 19′04	0°42'11	minimum elong	3913 Jun 10 22:14	20° Ⅲ 57'45	0°17'11
minimum elong	3912 Jun 26 11:29	6° ॐ 09'28	0°41'50		3913 Jun 15 01:32	0 \circ \odot	
evening rise	3912 Jul 03 08:56	21° © 11'36		evening rise	3913 Jun 17 20:33	6°ഇ00'59	
	3912 Jul 07 15:30	$\mathfrak{O}^{\circ}\mathfrak{O}$			3913 Jun 30 11:48	$\mathfrak{O}^{\circ}\mathfrak{O}$	
	3912 Jul 26 07:08	o° mp		evening max el	3913 Jul 12 19:49	16° Ω 01'34	24°20'00
desc. node	3912 Jul 29 12:06	3°Mp36'16		desc. node	3913 Jul 16 09:06	19° Ω 03'55	
evening max el	3912 Jul 31 05:33	5° m 19'46	25°47'39	retrograde	3913 Jul 26 16:07	23° Ω 00′50	
retrograde	3912 Aug 14 04:49	12° m 26'58		evening set	3913 Jul 31 11:56	22° Ω 08'52	
evening set	3912 Aug 20 08:30	10° m 57'14		min. Earth dist.	3913 Aug 06 06:38	19° Ω 14'27	0.56613 AU
min. Earth dist.	3912 Aug 24 17:42	8° m 20'21	0.58476 AU	inferior conj	3913 Aug 08 21:42	17° Ω 35'12	-5°05'58
inferior conj	3912 Aug 27 22:52	6° Mp 01′28	-5°04'31	minimum elong	3913 Aug 08 19:00	17° Ω 39'29	5°05'47
minimum elong	3912 Aug 28 01:44	5° m 56'16	5°04'18	morning rise	3913 Aug 17 04:41	13° Ω 33'46	
morning rise	3912 Sep 04 21:12	1° m 39'07		direct	3913 Aug 19 21:02	13° Ω 14'33	
direct	3912 Sep 07 08:30	1° m 19'30		morning max el	3913 Aug 29 11:51	17° Ω 43′23	19°36'53
morning max el	3912 Sep 15 15:11	5° Mp 16'31	18°40'21	asc. node	3913 Sep 05 06:25	26° Ω 07'31	
asc. node	3912 Sep 18 09:22	8° Mp 18'12			3913 Sep 07 16:08	0° m ∕	
	3912 Oct 01 06:00	0∘ ⊽		morning set	3913 Sep 16 00:22	15° Mp 45′38	
		_					
morning set	3912 Oct 01 22:09	1° ≏ 18'24			3913 Sep 23 02:04	0∘ ⊽	
-					•		
superior conj	3912 Oct 10 14:52	18° ≏ 04'40	1°30'55	superior conj	3913 Sep 23 22:57	1° ≏ 43'22	
-	3912 Oct 10 14:52 3912 Oct 10 17:55	18° ≏ 04'40 18° ≏ 18'59	1°30'55 1°30'39	minimum elong	3913 Sep 23 22:57 3913 Sep 24 00:19	1° £ 43'22 1° £ 50'08	1°41'43
superior conj minimum elong	3912 Oct 10 14:52 3912 Oct 10 17:55 3912 Oct 17 03:35	18° Ω 04'40 18° Ω 18'59 0° M	1°30'39	minimum elong max. Earth dist.	3913 Sep 23 22:57 3913 Sep 24 00:19 3913 Sep 30 00:43	1° £ 43'22 1° £ 50'08 13° £ 22'03	
superior conj minimum elong max. Earth dist.	3912 Oct 10 14:52 3912 Oct 10 17:55 3912 Oct 17 03:35 3912 Oct 17 20:21	18° Ω 04'40 18° Ω 18'59 0°M 1°M13'51		minimum elong	3913 Sep 23 22:57 3913 Sep 24 00:19 3913 Sep 30 00:43 3913 Oct 03 18:52	1° Ω 43'22 1° Ω 50'08 13° Ω 22'03 20° Ω 11'46	1°41'43
superior conj minimum elong max. Earth dist. evening rise	3912 Oct 10 14:52 3912 Oct 10 17:55 3912 Oct 17 03:35 3912 Oct 17 20:21 3912 Oct 21 21:47	18° ១ 04'40 18° ១ 18'59 0° ጤ 1° ጤ 13'51 8° ጤ 13'18	1°30'39	minimum elong max. Earth dist. evening rise	3913 Sep 23 22:57 3913 Sep 24 00:19 3913 Sep 30 00:43 3913 Oct 03 18:52 3913 Oct 09 11:30	1° Ω 43'22 1° Ω 50'08 13° Ω 22'03 20° Ω 11'46 0° ጤ	1°41'43
superior conj minimum elong max. Earth dist.	3912 Oct 10 14:52 3912 Oct 10 17:55 3912 Oct 17 03:35 3912 Oct 17 20:21 3912 Oct 21 21:47 3912 Oct 25 11:26	18° 2 04'40 18° 2 18'59 0° M 1° M 13'51 8° M 13'18 14° M 08'32	1°30'39	minimum elong max. Earth dist.	3913 Sep 23 22:57 3913 Sep 24 00:19 3913 Sep 30 00:43 3913 Oct 03 18:52 3913 Oct 09 11:30 3913 Oct 12 08:27	1° ១ 43'22 1° ១ 50'08 13° ១ 22'03 20° ១ 11'46 0° ጤ 4° ጤ 42'38	1°41'43
superior conj minimum elong max. Earth dist. evening rise desc. node	3912 Oct 10 14:52 3912 Oct 10 17:55 3912 Oct 17 03:35 3912 Oct 17 20:21 3912 Oct 21 21:47 3912 Oct 25 11:26 3912 Nov 04 16:03	18° 2 04'40 18° 2 18'59 0° M . 1° M .13'51 8° M .13'18 14° M .08'32 0° ₹	1°30'39 1.39668 AU	minimum elong max. Earth dist. evening rise desc. node	3913 Sep 23 22:57 3913 Sep 24 00:19 3913 Sep 30 00:43 3913 Oct 03 18:52 3913 Oct 09 11:30 3913 Oct 12 08:27 3913 Oct 29 17:25	1° № 43′22 1° № 50′08 13° № 22′03 20° № 11′46 0° M 4° M 42′38	1°41'43 1.37589 AU
superior conj minimum elong max. Earth dist. evening rise	3912 Oct 10 14:52 3912 Oct 10 17:55 3912 Oct 17 03:35 3912 Oct 17 20:21 3912 Oct 21 21:47 3912 Oct 25 11:26 3912 Nov 04 16:03 3912 Nov 25 23:49	18° № 04'40 18° № 18'59 0° M 1° M 13'51 8° M 13'18 14° M 08'32 0° ₹' 27° ₹ 33'47	1°30'39	minimum elong max. Earth dist. evening rise desc. node evening max el	3913 Sep 23 22:57 3913 Sep 24 00:19 3913 Sep 30 00:43 3913 Oct 03 18:52 3913 Oct 09 11:30 3913 Oct 12 08:27 3913 Oct 29 17:25 3913 Nov 08 12:09	1° \$\oldsymbol{\Omega} 43'22 1° \$\oldsymbol{\Omega} 50'08 13° \$\oldsymbol{\Omega} 22'03 20° \$\oldsymbol{\Omega} 11'46 0° \$\mathbb{M}\$ 4° \$\mathbb{M} 42'38 0° \$\script{\sqrt{\omega}}\$ 11° \$\script{\sqrt{\omega} 15'27}\$	1°41'43 1.37589 AU
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	3912 Oct 10 14:52 3912 Oct 10 17:55 3912 Oct 17 03:35 3912 Oct 17 20:21 3912 Oct 21 21:47 3912 Oct 25 11:26 3912 Nov 04 16:03 3912 Nov 25 23:49 3912 Nov 28 15:04	18° № 04'40 18° № 18'59 0° № 1° № 13'51 8° № 13'18 14° № 08'32 0° ৵ 27° ৵ 33'47 0° ♂	1°30'39 1.39668 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3913 Sep 23 22:57 3913 Sep 24 00:19 3913 Sep 30 00:43 3913 Oct 03 18:52 3913 Oct 09 11:30 3913 Oct 12 08:27 3913 Oct 29 17:25 3913 Nov 08 12:09 3913 Nov 20 12:48	1° \$\overline{\Omega}43'22 1° \$\overline{\Omega}50'08 13° \$\overline{\Omega}22'03 20° \$\overline{\Omega}11'46 0° \$\overline{\Omega} 4° \$\overline{\Omega}42'38 0° \$\overline{\sigma}11' \$\overline{\Sigma}15'27 18° \$\overline{\Sigma}11'55	1°41'43 1.37589 AU
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	3912 Oct 10 14:52 3912 Oct 10 17:55 3912 Oct 17 03:35 3912 Oct 17 20:21 3912 Oct 21 21:47 3912 Oct 25 11:26 3912 Nov 04 16:03 3912 Nov 25 23:49 3912 Nov 28 15:04 3912 Dec 07 00:48	18° № 04'40 18° № 18'59 0° № 1° № 13'51 8° № 13'18 14° № 08'32 0° ※ 27° ※ 33'47 0° ₭ 4° ₭ 603'14	1°30'39 1.39668 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	3913 Sep 23 22:57 3913 Sep 24 00:19 3913 Sep 30 00:43 3913 Oct 03 18:52 3913 Oct 09 11:30 3913 Oct 12 08:27 3913 Oct 29 17:25 3913 Nov 08 12:09 3913 Nov 20 12:48 3913 Nov 26 08:48	1° \$\oldsymbol{\Omega}\$43'22 1° \$\oldsymbol{\Omega}\$50'08 13° \$\oldsymbol{\Omega}\$22'03 20° \$\oldsymbol{\Omega}\$11'46 0° \$\mathbb{m}\$\$. 4° \$\mathbb{m}\$.42'38 0° \$\nred{\sigma}\$ 11° \$\nred{\sigma}\$15'27 18° \$\nred{\sigma}\$11'55 15° \$\nred{\sigma}\$45'54	1°41'43 1.37589 AU 25°18'43
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	3912 Oct 10 14:52 3912 Oct 10 17:55 3912 Oct 17 03:35 3912 Oct 17 20:21 3912 Oct 21 21:47 3912 Oct 25 11:26 3912 Nov 04 16:03 3912 Nov 25 23:49 3912 Nov 28 15:04 3912 Dec 07 00:48 3912 Dec 12 07:01	18° 至04'40 18° 至18'59 0° 肌 1° 肌13'51 8° 肌13'18 14° 肌08'32 0° ズ 27° ズ33'47 0° 云 4° 云03'14 1° 云51'44	1°30'39 1.39668 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	3913 Sep 23 22:57 3913 Sep 24 00:19 3913 Sep 30 00:43 3913 Oct 03 18:52 3913 Oct 09 11:30 3913 Oct 12 08:27 3913 Oct 29 17:25 3913 Nov 08 12:09 3913 Nov 20 12:48 3913 Nov 26 08:48 3913 Nov 30 19:26	1° \$\oldsymbol{\Omega}\$43'22 1° \$\oldsymbol{\Omega}\$50'08 13° \$\oldsymbol{\Omega}\$22'03 20° \$\oldsymbol{\Omega}\$11'46 0° \$\mathbb{M}\$. 4° \$\mathbb{M}\$.42'38 0° \$\nrac{\sigma}\$ 11° \$\nrac{\sigma}\$15'27 18° \$\nrac{\sigma}\$11'55 15° \$\nrac{\sigma}\$45'54 10° \$\nrac{\sigma}\$50'03	1°41'43 1.37589 AU 25°18'43 0.67273 AU
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superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node	3912 Oct 10 14:52 3912 Oct 10 17:55 3912 Oct 17 03:35 3912 Oct 17 20:21 3912 Oct 21 21:47 3912 Oct 25 11:26 3912 Nov 04 16:03 3912 Nov 25 23:49 3912 Nov 28 15:04 3912 Dec 07 00:48 3912 Dec 12 07:01 3912 Dec 14 04:07 3912 Dec 15 08:36	18° 204'40 18° 218'59 0° M 1° M 13'51 8° M 13'18 14° M 08'32 0° ズ 27° ズ 33'47 0° 云 4° 云 03'14 1° 云 51'44 30° R ズ 28° ズ 35'11	1°30'39 1.39668 AU 24°03'04	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3913 Sep 23 22:57 3913 Sep 24 00:19 3913 Sep 30 00:43 3913 Oct 03 18:52 3913 Oct 09 11:30 3913 Oct 12 08:27 3913 Oct 29 17:25 3913 Nov 08 12:09 3913 Nov 20 12:48 3913 Nov 26 08:48 3913 Nov 30 19:26 3913 Dec 01 22:35 3913 Dec 01 22:44	1° \$\overline{\Omega}43'22 1° \$\overline{\Omega}50'08 13° \$\overline{\Omega}22'03 20° \$\overline{\Omega}11'46 0° \$\mathbb{M}\$. 4° \$\mathbb{M}\$.42'38 0° \$\nall{\sigma}\$ 11° \$\nall{\sigma}\$15'27 18° \$\nall{\sigma}\$11'55 15° \$\nall{\sigma}\$45'54 10° \$\nall{\sigma}\$50'03 9° \$\nall{\sigma}\$22'02 9° \$\nall{\sigma}\$21'33	1°41'43 1.37589 AU 25°18'43 0.67273 AU -0°06'02 0°05'58
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superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	3912 Oct 10 14:52 3912 Oct 10 17:55 3912 Oct 17 03:35 3912 Oct 17 20:21 3912 Oct 21 21:47 3912 Oct 25 11:26 3912 Nov 04 16:03 3912 Nov 25 23:49 3912 Nov 28 15:04 3912 Dec 07 00:48 3912 Dec 12 07:01 3912 Dec 14 04:07 3912 Dec 15 08:36 3912 Dec 17 01:23 3912 Dec 17 17:43 3912 Dec 17 16:35 3912 Dec 23 02:11	18° 至04'40 18° 至18'59 0° 肌 1° 肌13'51 8° 肌13'18 14° 肌08'32 0° ズ 27° ズ33'47 0° 云 4° 云03'14 1° 云51'44 30° R ズ 28° ズ21'36 25° ズ26'22 25° ズ30'10 19° ズ22'23	1°30'39 1.39668 AU 24°03'04 0.67813 AU 0°48'11	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node	3913 Sep 23 22:57 3913 Sep 24 00:19 3913 Sep 30 00:43 3913 Oct 03 18:52 3913 Oct 09 11:30 3913 Oct 12 08:27 3913 Oct 29 17:25 3913 Nov 08 12:09 3913 Nov 20 12:48 3913 Nov 26 08:48 3913 Nov 30 19:26 3913 Dec 01 22:44 3913 Dec 01 22:44 3913 Dec 01 22:44 3913 Dec 01 20:08 3913 Dec 02 01:19 3913 Dec 02 05:38	1° \$\omega 43'22 1° \$\omega 50'08 13° \$\omega 22'03 20° \$\omega 11'46 0° \$\mathbb{M}\$ 4° \$\mathbb{M}\$ 42'38 0° \$\dot{\delta}\$ 11' \$\delta 15'27 18' \$\delta 11'55 15' \$\delta 45'54 10' \$\delta 50'03 9' \$\delta 22'02 9' \$\delta 22'33 9' \$\delta 22'33 9' \$\delta 22'58 9' \$\delta 13'09 8' \$\delta 59'12	1°41'43 1.37589 AU 25°18'43 0.67273 AU -0°06'02 0°05'58
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	3912 Oct 10 14:52 3912 Oct 10 17:55 3912 Oct 17 03:35 3912 Oct 17 20:21 3912 Oct 21 21:47 3912 Oct 25 11:26 3912 Nov 04 16:03 3912 Nov 25 23:49 3912 Nov 28 15:04 3912 Dec 07 00:48 3912 Dec 12 07:01 3912 Dec 14 04:07 3912 Dec 15 08:36 3912 Dec 17 01:23 3912 Dec 17 17:43 3912 Dec 17 16:35 3912 Dec 23 02:11 3912 Dec 27 00:49	18° 至04'40 18° 至18'59 0° 肌 1° 肌13'51 8° 肌13'18 14° 肌08'32 0° ズ 27° ズ33'47 0° 云 4° 云03'14 1° 云51'44 30° R ズ 28° ズ25'136 25° ズ26'22 25° ズ30'10 19° ズ22'23 17° ズ54'09	1°30'39 1.39668 AU 24°03'04 0.67813 AU 0°48'11 0°47'44	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise	3913 Sep 23 22:57 3913 Sep 24 00:19 3913 Sep 30 00:43 3913 Oct 03 18:52 3913 Oct 09 11:30 3913 Oct 12 08:27 3913 Oct 29 17:25 3913 Nov 08 12:09 3913 Nov 20 12:48 3913 Nov 26 08:48 3913 Nov 30 19:26 3913 Dec 01 22:35 3913 Dec 01 22:44 3913 Dec 01 22:44 3913 Dec 01 20:08 3913 Dec 02 01:19 3913 Dec 02 05:38 3913 Dec 07 12:56	1° \$\alpha\$ 43'22 1° \$\alpha\$ 50'08 13° \$\alpha\$ 22'03 20° \$\alpha\$ 11'46 0° \$\mathbb{M}\$ 42'38 0° \$\breve{x}\$ 11'5'27 18° \$\breve{x}\$ 11'55 15° \$\breve{x}\$ 45'54 10° \$\breve{x}\$ 50'03 9° \$\breve{x}\$ 22'02 9° \$\breve{x}\$ 21'33 9° \$\breve{x}\$ 22'58 9° \$\breve{x}\$ 13'09 8° \$\breve{x}\$ 59'12 3° \$\breve{x}\$ 25'15	1°41'43 1.37589 AU 25°18'43 0.67273 AU -0°06'02 0°05'58
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superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3912 Oct 10 14:52 3912 Oct 10 17:55 3912 Oct 17 03:35 3912 Oct 17 20:21 3912 Oct 21 21:47 3912 Oct 25 11:26 3912 Nov 04 16:03 3912 Nov 25 23:49 3912 Nov 28 15:04 3912 Dec 07 00:48 3912 Dec 12 07:01 3912 Dec 14 04:07 3912 Dec 15 08:36 3912 Dec 17 01:23 3912 Dec 17 17:43 3912 Dec 17 16:35 3912 Dec 27 00:49 3913 Jan 04 00:13 3913 Jan 10 09:09 3913 Jan 21 10:41 3913 Feb 01 15:45 3913 Feb 10 23:41 3913 Feb 17 09:06 3913 Feb 17 07:22 3913 Feb 18 14:21	18° 年04'40 18° 年18'59 0° M. 1° M.13'18 14° M.08'32 0° ズ 27° ズ33'47 0° G 4° G03'14 1° G51'44 30° R ズ 28° ズ35'11 26° ズ21'36 25° ズ26'22 25° ズ30'10 19° ズ22'23 17° ズ54'09 22° ズ28'25 0° G 15° G42'18 0° ※ 2° ※44'33 17° ※29'14 27° ※57'47 27° ※50'35 0° 大	1°30'39 1.39668 AU 24°03'04 0.67813 AU 0°48'11 0°47'44 20°31'07 1.43341 AU -2°06'45	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong transit middle transit begin transit end asc. node morning rise direct morning max el greatest brilliancy desc. node morning set max. Earth dist. superior conj	3913 Sep 23 22:57 3913 Sep 24 00:19 3913 Sep 30 00:43 3913 Oct 03 18:52 3913 Oct 09 11:30 3913 Oct 12 08:27 3913 Oct 29 17:25 3913 Nov 08 12:09 3913 Nov 20 12:48 3913 Nov 26 08:48 3913 Nov 30 19:26 3913 Dec 01 22:44 3913 Dec 01 22:44 3913 Dec 01 22:44 3913 Dec 01 22:44 3913 Dec 01 20:08 3913 Dec 02 01:19 3913 Dec 02 05:38 3913 Dec 02 05:38 3913 Dec 10 23:24 3914 Jan 04 09:14 3914 Jan 04 09:14 3914 Jan 08 07:45 3914 Jan 11 13:47 3914 Jan 23 17:02 3914 Jan 24 12:45	1° \$\alpha\$ 43'22 1° \$\alpha\$ 50'08 13° \$\alpha\$ 22'03 20° \$\alpha\$ 11'46 0° \$\mathbb{n}\$ 4° \$\mathbb{n}\$ 42'38 0° \$\stacksize{\sta	1°41'43 1.37589 AU 25°18'43 0.67273 AU -0°06'02 0°05'58 0°05'58 19°26'50 -0.7m

,	2014 F. 1. 20. 04.56	2621/40124			2015 1 07 11 41	150754122	1017120
asc. node	3914 Feb 28 04:56	26°) 48′24	10001101	superior conj	3915 Jan 07 11:41	15°₹54'33	
evening max el	3914 Mar 02 11:10	29° ₩ 21'22	18°21'24	minimum elong	3915 Jan 07 02:50	15° る 19'49	1°16'39
	3914 Mar 03 03:08	0° Υ		max. Earth dist.	3915 Jan 07 06:27	15° る 33'59	1.45227 AU
retrograde	3914 Mar 08 22:15	2°Υ50'59			3915 Jan 16 10:34	0°≈	
evening set	3914 Mar 11 22:36	2° Υ 01'35		evening rise	3915 Jan 23 04:24	10°≈42'53	
	3914 Mar 14 15:49	30° ₹		greatest brilliancy	3915 Jan 31 09:59	23°≈51'04	-0.8m
inferior conj	3914 Mar 17 20:40	26°) 35'47			3915 Feb 04 08:28	0° ∀	
minimum elong	3914 Mar 17 20:40	26° ∺ 35'46	3°37'01	evening max el	3915 Feb 13 21:50	12°) (49'47	18°53'23
min. Earth dist.	3914 Mar 20 05:00	23° ¥ 55′04	0.64007 AU	asc. node	3915 Feb 15 01:58	13° ¥ 57′01	
morning rise	3914 Mar 23 17:55	20° ∺ 26'58		retrograde	3915 Feb 20 16:22	16°) 37'47	
direct	3914 Mar 30 14:17	17°) 40′16		evening set	3915 Feb 23 23:09	15°) ₹35'43	
desc. node	3914 Apr 06 06:55	19° ¥ 50′52		inferior conj	3915 Mar 01 14:15	9° ¥ 52'52	
morning max el	3914 Apr 13 07:36	25° ∺ 37'13	27°34'16	minimum elong	3915 Mar 01 12:54		3°30'06
	3914 Apr 17 08:17	0 ° $\mathbf{\gamma}$		min. Earth dist.	3915 Mar 03 06:59	7°) 46′09	0.65610 AU
	3914 May 07 22:19	$0^{\circ}S$		morning rise	3915 Mar 07 02:14	3°) 40′18	
morning set	3914 May 18 06:42	19° 8 06'31		direct	3915 Mar 13 15:39	0°) 49′32	
max. Earth dist.	3914 May 23 05:59	29° 8 13'27	1.33159 AU	desc. node	3915 Mar 24 03:59	6° ₩ 06'45	
	3914 May 23 14:52	Π $^{\circ}0$		morning max el	3915 Mar 26 17:29	8°) 32′39	26°45'05
					3915 Apr 12 11:38	0° Y	
superior conj	3914 May 26 05:14	5° Ⅱ 30′09	-0°10'01		3915 Apr 30 08:06	0°8	
minimum elong	3914 May 26 05:44	5° Ⅱ 32'50	0°09'55	morning set	3915 May 01 15:01	2° 8 26'02	
behind sun begin	3914 May 26 01:28	5° Ⅱ 10'07		max. Earth dist.	3915 May 05 21:31	10° 8 45'59	1.34396 AU
behind sun end	3914 May 26 09:59	5° Ⅱ 55'34					
asc. node	3914 May 27 04:14	7° Ⅱ 33'17		superior conj	3915 May 10 05:39	19° 8 36'40	-0°38'52
evening rise	3914 Jun 02 08:10	20° Ⅱ 46′16		minimum elong	3915 May 10 07:42	19° 8 47'19	0°38'27
_	3914 Jun 06 20:10	0ංම		asc. node	3915 May 14 01:17	27° 8 36'31	
evening max el	3914 Jun 24 09:26	26°925'50	22°43'05		3915 May 15 04:31	$\Pi^{\circ}0$	
C	3914 Jun 28 17:26	$0^{\circ}\Omega$		evening rise	3915 May 17 17:53	5° Ⅱ 21'24	
desc. node	3914 Jul 03 06:07	2° Ω 17'12		C	3915 May 31 08:31	0°9	
retrograde	3914 Jul 07 14:58	3° Ω 00'58		evening max el	3915 Jun 06 06:17	7° © 05'23	21°11'50
evening set	3914 Jul 10 22:21	2° Ω 36'58		retrograde	3915 Jun 18 04:20	12°956'16	
evening sec	3914 Jul 17 06:27	30°Rூ		evening set	3915 Jun 20 10:46	12°5544'21	
min. Earth dist.	3914 Jul 18 17:34	29°511'03	0.55300 AU	desc. node	3915 Jun 20 03:09	12° © 47'24	
inferior conj	3914 Jul 20 01:52	28°924'50		inferior conj	3915 Jun 29 19:42	8°546'03	-2°46'57
minimum elong	3914 Jul 19 18:01	28°936'05	4°18'55	minimum elong	3915 Jun 29 12:16	8°956'30	
morning rise	3914 Jul 28 15:52	24° © 33'52	4 10 33	min. Earth dist.	3915 Jun 30 04:49	8° © 33'16	0.54834 AU
direct	3914 Jul 31 15:32	24°913'13		morning rise	3915 Jul 08 14:06	4° © 48'11	0.54054710
morning max el	3914 Aug 11 20:49	29°\$26'10	20°54'33	direct	3915 Jul 12 01:17	4°9522'13	
morning max cr	3914 Aug 12 11:03	0°Ω	20 34 33	morning max el	3915 Jul 24 18:39	10°S25'08	22°29'37
asc. node	3914 Aug 23 03:28	14° Ω 40'42		morning max ci	3915 Jul 24 18:39 3915 Aug 07 23:21	0°Ω	22 2931
morning set	3914 Aug 31 07:44	0° m 27'30		asc. node	3915 Aug 10 00:33	3° Ω 47'11	
morning set	=	0°Mp			-	15° Ω 18'20	
	3914 Aug 31 02:24	U IIĮ		morning set	3915 Aug 15 18:10	13 661620	
superior conj	3914 Sep 07 18:15	15° m 54'54	1°44'17	superior conj	3915 Aug 22 21:15	0° m 28'59	1°39'51
minimum elong	3914 Sep 07 18:13	15° Mp 53'49	1°44'17	minimum elong	3915 Aug 22 21:13	0° my 21'32	
max. Earth dist.	3914 Sep 12 09:09	-		minimum ciong	3915 Aug 22 15:48	0°M0 0°M0	1 37 40
max. Earth dist.	3914 Sep 12 09:09 3914 Sep 14 20:21	ე∘ 亞	1.55/11 AU	max. Earth dist.	3915 Aug 26 02:09	עוי ס 7° און 12'04	1.34184 AU
evening rise	3914 Sep 14 20:21 3914 Sep 16 11:27	0 == 3° ჲ 04'46		evening rise	3915 Aug 20 02:09 3915 Aug 30 19:08	16° Mp 40'46	1.54164 AU
desc. node	3914 Sep 29 05:28	25° £ 02'53		evening rise	3915 Aug 30 19:08 3915 Sep 06 23:02	0° ⊽	
desc. Hode	3914 Oct 02 10:20	0° M		daga mada	3915 Sep 16 02:28	0 = 15° £ 02'51	
arranina marral			26022140	desc. node	•		
evening max el	3914 Oct 22 00:39	24° ™ 56'47 0° ⊀	20-22-48		3915 Sep 26 20:55	0°M	27907141
. 1	3914 Oct 28 07:44			evening max el	3915 Oct 04 13:17	8°M29'30	2/30/41
retrograde	3914 Nov 03 19:47	2° ∡ 708'46		retrograde	3915 Oct 17 20:55	15°M46'50	
	3914 Nov 09 14:58	30°RM		evening set	3915 Oct 24 17:42	13°M05'26	0.65155.433
evening set	3914 Nov 10 05:07	29°M31'58	0.66200.477	min. Earth dist.	3915 Oct 28 14:58	9°M20'40	0.65157 AU
min. Earth dist.	3914 Nov 14 08:46	25°M11'32	0.66388 AU	inferior conj	3915 Oct 30 17:20	6°M59'30	
inferior conj	3914 Nov 15 23:11	23°M14'33		minimum elong	3915 Oct 30 20:51	6°M49'37	2°04'02
minimum elong	3914 Nov 16 00:56	23°M09'13	1~03'42	asc. node	3915 Nov 05 23:45	1°M26'56	
asc. node	3914 Nov 19 02:41	19°M39'59		morning rise	3915 Nov 06 00:58	1°M25'28	
morning rise	3914 Nov 21 21:20	17°M27'36		direct	3915 Nov 08 17:31	0°M46'44	1000
direct	3914 Nov 24 21:42	16°M36'06		morning max el	3915 Nov 15 05:14	4°M15'11	18°05'58
morning max el	3914 Dec 01 14:20	20°M16'32	18°38'06	_	3915 Dec 02 12:14	0° ∡ 7	
_	3914 Dec 09 04:35	0° ∡ ¹		morning set	3915 Dec 03 08:38	1° ₹ 24'16	
morning set	3914 Dec 22 08:28	20° ∡ 129'42		desc. node	3915 Dec 13 01:48	17° ₹ 15'54	
desc. node	3914 Dec 26 04:47	26° ∡ 35′02				–	
	3914 Dec 28 08:43	0°₹		superior conj	3915 Dec 17 17:21	24° ₹ 41'29	
				minimum elong	3915 Dec 17 13:24	24° ₹ 25'49	0°30'56

max. Earth dist.	3915 Dec 21 01:58	0° ට 00'06	1.45085 AU	behind sun begin	3916 Nov 26 16:35	4° √ 19'55	
	3915 Dec 21 01:57	0°₹		behind sun end	3916 Nov 27 00:35	4° ₹ 52'51	
evening rise	3916 Jan 03 01:31	20° ප 14'04		desc. node	3916 Nov 28 22:48	8° ∡ 01'47	
	3916 Jan 09 09:21	0° ≈		max. Earth dist.	3916 Dec 02 20:05	14° √ 17'44	1.44222 AU
greatest brilliancy	3916 Jan 16 05:32	10° ≈ 24′23	-0.7m	evening rise	3916 Dec 12 11:22	29° х 23′42	
evening max el	3916 Jan 28 04:28	26° ≈ 21′00	19°41'51		3916 Dec 12 20:49	5°0	
asc. node	3916 Feb 01 23:00	0°) €00'45			3917 Jan 02 04:32	0° ≈	
	3916 Feb 01 22:21	0° ℋ		evening max el	3917 Jan 10 05:47	9° ≈ 53'22	20°44'30
retrograde	3916 Feb 04 13:41	0°) €37'25		retrograde	3917 Jan 18 11:50	14° ≈ 45'48	
	3916 Feb 07 02:26	30° R ≈		asc. node	3917 Jan 18 20:03	14° ≈ 45′10	
evening set	3916 Feb 08 04:02	29° ≈ 21'37		evening set	3917 Jan 22 11:13	13° ≈ 15′20	
inferior conj	3916 Feb 13 14:50	23° ≈ 23'44	3°10'32	inferior conj	3917 Jan 27 19:52	7°≈05'05	2°40'39
minimum elong	3916 Feb 13 12:39	23° ≈ 30'58	3°10'07	minimum elong	3917 Jan 27 17:23	7° ≈ 13'38	2°39'57
min. Earth dist.	3916 Feb 14 16:48	21°≈57'50	0.66800 AU	min. Earth dist.	3917 Jan 28 08:37	6° ≈ 21'23	0.67570 AU
morning rise	3916 Feb 18 21:02	17°≈09'59		morning rise	3917 Feb 01 23:23	0°≈51'45	
direct	3916 Feb 24 22:44	14°≈27'33	25022120		3917 Feb 03 00:51	30°₹₹	
morning max el	3916 Mar 08 02:39	21°≈42'39	25°32'39	direct	3917 Feb 07 10:54	28° る 26'17	
desc. node	3916 Mar 10 01:02	23°≈44'40			3917 Feb 12 09:02	0° ≈	24006154
	3916 Mar 15 08:05	0° ℋ 0° Ƴ		morning max el	3917 Feb 18 11:15	5°≈00'33	24°06'54
	3916 Apr 04 17:33	14° Υ 56'57		desc. node	3917 Feb 24 22:03	12° ≈ 21'21 0° ∀	
morning set	3916 Apr 13 08:09		1 26000 ATT		3917 Mar 09 17:22		
max. Earth dist.	3916 Apr 17 01:46	21° Y 52'46 0° と	1.36088 AU	morning set	3917 Mar 26 04:34 3917 Mar 28 05:55	26°) 24'39 0° Ƴ	
	3916 Apr 21 06:35	0.0		max. Earth dist.	3917 Mar 28 03.33 3917 Mar 29 22:20	*	1.38129 AU
superior conj	3916 Apr 22 21:30	3° 8 13'06	-1°07'45	max. Earth dist.	3917 Widi 29 22.20	2 1 39 30	1.36129 AU
minimum elong	3916 Apr 23 01:06	3° 8 31'06	1°07'08	superior conj	3917 Apr 06 01:23	16° Ƴ 10'54	-1°34'26
asc. node	3916 Apr 29 22:18	17° 8 30'44	1 07 08	minimum elong	3917 Apr 06 06:01	16° Y 33'03	
evening rise	3916 Apr 30 23:30	19° 8 39'02		minimum clong	3917 Apr 00 00:01 3917 Apr 13 03:28	0° 8	1 33 30
evening rise	3916 May 06 05:26	0°II		evening rise	3917 Apr 14 22:33	3° 8 32'28	
evening max el	3916 May 18 14:45	18° Ⅱ 20′24	19°56'02	asc. node	3917 Apr 16 19:19	7° 8 11'38	
retrograde	3916 May 28 19:40	23° I I18'34	1, 2002	ase. node	3917 May 01 04:12	0° I I	
evening set	3916 May 30 18:37	23° I 108'24		evening max el	3917 May 01 10:51	0°П16'25	18°59'47
desc. node	3916 Jun 06 00:12	20° Ⅱ 43'24		retrograde	3917 May 10 01:09	4° Ⅱ 28'10	
inferior conj	3916 Jun 08 17:15	19° Ⅱ 07'51	-0°48'12	evening set	3917 May 12 03:21	4° Ⅱ 14'16	
minimum elong	3916 Jun 08 15:01	19° Ⅱ 11'14	0°47'21	inferior conj	3917 May 20 07:11	29° 8 59'13	1°01'35
min. Earth dist.	3916 Jun 10 17:31	17° Ⅱ 54'44	0.55330 AU	minimum elong	3917 May 20 09:32	29° 8 55'07	1°00'45
morning rise	3916 Jun 17 09:31	14° Ⅱ 44′05			3917 May 20 06:45	30° ₹ 8	
direct	3916 Jun 21 14:47	14° Ⅲ 05'07		min. Earth dist.	3917 May 23 09:05	27° 8 50'37	0.56689 AU
morning max el	3916 Jul 05 09:36	20° Ⅱ 53'43	24°12'55	desc. node	3917 May 23 21:14	27° 8 30'29	
	3916 Jul 13 05:35	0ංම		morning rise	3917 May 28 12:30	24° 8 59'35	
asc. node	3916 Jul 26 21:35	23° © 17'45		direct	3917 Jun 02 16:59	23° 8 55'51	
morning set	3916 Jul 30 05:53	0° Ω 12'29			3917 Jun 15 13:59	Π $^{\circ}0$	
	3916 Jul 30 03:31	0 \circ Ω		morning max el	3917 Jun 17 00:09	1° Ⅱ 18'56	25°49'40
					3917 Jul 07 03:29	0 \circ	
superior conj	3916 Aug 06 05:16	15° Ω 16'57	1°29'37	asc. node	3917 Jul 13 18:36	13° © 05'34	
minimum elong	3916 Aug 06 03:09	15° Ω 05'27	1°29'24	morning set	3917 Jul 14 17:16	15° © 04'39	
max. Earth dist.	3916 Aug 08 03:59		1.33056 AU			_	
	3916 Aug 13 04:22	0° m)		superior conj	3917 Jul 21 16:07	0° Ω 11'42	
evening rise	3916 Aug 13 13:52	0° Mp 48'14		minimum elong	3917 Jul 21 13:46	29° © 58'49	1°14'06
	3916 Aug 29 22:20	0° ⊽		P. J. P.	3917 Jul 21 13:59	0 ° Ω	1 222 10 177
desc. node	3916 Sep 01 23:29	4° £ 33'56	2702 (120	max. Earth dist.	3917 Jul 22 12:17		1.32340 AU
evening max el	3916 Sep 16 00:30		27°26'28	evening rise	3917 Jul 28 16:26	15° Ω 17'35	
retrograde	3916 Sep 29 15:51	28° £ 58'05		4 4-	3917 Aug 05 04:06	0°Mp	
evening set	3916 Oct 06 19:43	26° £ 21'10	0.62592 AII	desc. node	3917 Aug 19 20:30	23° Mp 23'50 0° <u>₽</u>	
min. Earth dist.	3916 Oct 10 11:51	23° Ω 09'34	0.63583 AU	avanina may al	3917 Aug 25 04:28		27912152
inferior conj minimum elong	3916 Oct 13 02:29 3916 Oct 13 07:37	20° £ 31'13 20° £ 18'12		evening max el retrograde	3917 Aug 29 07:49 3917 Sep 12 03:59	4° £ 18'48 11° £ 32'39	41 13 34
morning rise	3916 Oct 13 07:37 3916 Oct 19 20:53	20° 2 18′12 15° 2 13′39	J 04 J0	evening set	3917 Sep 12 03:39 3917 Sep 19 07:24	9° £ 12'14	
direct	3916 Oct 19 20:33 3916 Oct 22 08:08	13 ⊆ 13 39 14° ⊆ 44'02		min. Earth dist.	3917 Sep 19 07:24 3917 Sep 22 22:11	6° £ 25'59	0.61708 AU
asc. node	3916 Oct 22 08:08 3916 Oct 22 20:48	14° ⊆ 44°02 14° ⊆ 45'25		inferior conj	3917 Sep 22 22:11 3917 Sep 25 23:30	0 = 23 39 3° Ω 41'42	
morning max el	3916 Oct 22 20.48 3916 Oct 28 21:53		17°51'12	minimum elong	3917 Sep 25 25:30 3917 Sep 26 05:26	3° £ 28'21	
morning max or	3916 Nov 06 12:02	0°M	.,		3917 Sep 20 03:20 3917 Sep 30 14:36	30°RM)	. 0133
morning set	3916 Nov 14 11:03	13°M35'09		morning rise	3917 Oct 03 05:16	28° Mp 43'54	
	3916 Nov 24 01:51	0° ⊼		direct	3917 Oct 05 03:16	28° m) 20'16	
		- ··		asc. node	3917 Oct 09 17:51	29° Mp 36'26	
superior conj	3916 Nov 26 19:00	4° ∡ ¹29'53	0°14'55		3917 Oct 10 08:21	0∘ ʊ	
minimum elong	3916 Nov 26 20:35	4° ∡ ³36′24		morning max el	3917 Oct 12 13:07	1° ≏ 50'37	17°54'40
3				<i>5</i>			

Septic S	morning set	3917 Oct 28 09:12 3917 Oct 30 04:44	26° ₽ 42'07 0° M		superior conj minimum elong	3918 Oct 21 04:09 3918 Oct 21 07:58	27° £ 54'53 28° £ 12'17	1°20'14 1°19'49
mammedong mins Farth offs of Signature (Signature) 997 Nov 16 1904 (Signature) 797 Nov 16 1904 (Signature) 287 MoV 15 1904 (Signature) 487 MoV 15 1904 (Signature) 497 MoV 15 1904 (Signature) 487 MoV 15 1904 (Signature) 497 MoV 15 1904 (Sig						3918 Oct 22 07:42		
max. Earth disc. 997 Nov 15 993 287 May 15 993 287 May 15 993 287 May 12 994 287 M	superior conj	3917 Nov 07 23:25	15°M36'47	0°53'07	max. Earth dist.	3918 Oct 28 17:49	11° M 17'19	1.40861 AU
Sex 1907 No. 1 1948 2 2 2 2 2 2 2 2 2		3917 Nov 08 03:27	15°M54'13	0°52'35	evening rise	3918 Nov 02 10:38	19° M 09'07	
1917 Nov 2 0149		3917 Nov 15 09:39	28°M07'27	1.42752 AU	desc. node	3918 Nov 02 16:49		
Section 1917 Nov 22 01.49 1978	desc. node							
1917 Dec. 06 01.37 0°E retrograde 3918 Dec. 17 0.308 13°E1247 retrograde 3918 Dec. 20 1.013 13°E1247 retrograde 3918 Dec. 20 1.013 13°E1247 retrograde 3918 Dec. 20 1.013 13°E1247 retrograde 3918 Dec. 20 1.014 4°E425 1°1703 retrograde 3918 Dec. 20 1.015 4°E5211 1°1624 retrograde 3918 Dec. 20 1.015 1°1624 1								
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act production 391 R Jul 0 1766 28°E 58°F 4 ase, node 3918 Dec 21 1400 α°E 5110 1°C 70°C					-			
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Second Solis Sol	•							1015102
Inferior conj 3918 Jan 12 0313 2075 5319 20722 min. Earth dist. 5918 Dac 27 00.56 5°5210 0.67964 AU min. Farth dist. 3918 Jan 12 0407 20°55712 0.6794 PAU morning rise 3918 Jan 12 0407 20°55712 0.6794 PAU morning rise 3918 Jan 12 0407 20°55712 0.6794 PAU morning rise 3918 Jan 12 0407 20°55712 0.6794 PAU morning rise 3918 Jan 12 1.27 18°6239 22°3754 morning max el 3919 Jan 10 1.20 10°5501 21°14′13 0.6856 3919 Jan 20 1.00 10°5501 21°14′13 0.6856 3918 Jan 20.253 0.9°4 morning set 3918 Jan 12 1.27 18°8239 1°84937 0.6936 Jan 3918 Jan 11 17:59 1°84373 1.4030 FAU morning set 3918 Jan 11 17:59 1°84373 1.4030 FAU morning set 3918 Jan 11 17:59 1°84373 1.4030 FAU morning set 3918 Jan 11 17:59 1°84373 1.4030 FAU minimum clong 3918 Jan 10 17:10 28°47837 1°8521 28°67334 minimum clong 3918 Jan 11 17:59 1°87308 3918 Jan 10 18:59 1°87308 3918 Jan 10					,			
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sinit Earl dist 3918 Ian 12 04.07 20°€50/12 0.67949 AU morning read direct 3919 Jan 05 2.323 26°₹37850 20°75 morning maxel 3918 Jan 12 10.25 12°53802 morning maxel 3919 Jan 12 10.42 10°5001 21°1411 desc. node 3918 Feb 11 19.03 19°84978 desc. node 3919 Feb 14 11.21 15°28219 desc. node 3918 Mar 10 20.53 0°H morning set 3919 Feb 14 11.21 15°82219 morning set 3918 Mar 10 22.53 0°H morning set 3919 Feb 12 19.23 27°86924 142342 AU superior conj 3918 Mar 19 17.11 28°43389 max Farth dist. 3919 Feb 21 19.23 27°86924 24°2055 evening rice 3918 Mar 19 17.11 28°43389 1°5520 minimum elong 3919 Mar 10 0.301 9°H2342 2°065424 AU evening rice 3918 Mar 19 17.11 28°43820 1°5520 minimum elong 3919 Mar 12 17.34 0°V 2°0678347 evening rice 3918 Mar 20 11.51 16°75308 sc. node 3919 Mar 12 17.34 0°V 2°074575 18°07					min. Earth dist.			0.67964 AU
morning near 3918 km 17 06.45 41 52.200 direct 3919 km 05 23.23 22 26 275.750 morning max 3918 km 31 21.27 18 52.753 22 37.54 morning max 3919 km 12 10.42 07 56 1 10.50	•				morning rise		•	
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morning max el 3918 fan 3 1 2127 18°52/353 22°3754 morning max el 3919 Jan 2 14 1247 1.°5560 21°18/13 desc. node 3918 feb 10 1330 0°9∞ morning set 3919 feb 10 11305 0°9∞ morning set 3919 feb 11 1903 1°9∞ 1.00 1.00 1.00 morning set 3918 Mar 0 2 20:33 0°34 morning set 3919 feb 11 1921 15°7∞2273 1.4242 AU max. Earth dist 3918 Mar 10 17:59 12°18 73°735 1.43005 AU morning set 3919 feb 2 3 12.47 0°74 1.4242 AU superior conj 3918 Mar 19 17:55 28°34 1857 1.55540 superior conj 3919 Mar 0 1 031 9°47.512 2°0655 minimum clong 3918 Mar 10 11:09 0°9° morning set 3919 Mar 12 11:30 29°43115 2°0654 sevening rise 3918 Mar 20 11:09 0°9° sevening rise 3919 Mar 12 11:30 29°43115 2°0654 sevening max el 3918 Mar 20 11:10 16°75308 sevening rise 3918 Mar 15:53 12°24804 18°2357 retrograde 3918 Apr 0 14 144 0°25 sevening max el 3919 Mar 20 11:24 2°0654 sevening max el 3918 Apr 21 11:24 15°31 12°24804 18°2357 retrograde 3918 Apr 0 14 144 0°25 sevening max el 3919 Mar 20 11:24 2°076405 sevening rise 3918 Mar 20 11:24 16°2503 16°250757 retrograde 3918 Mar 20 11:24 16°2503 16°250757 retrograde 3918 Mar 20 11:24 16°2503 16°25075 retrograde 3918 Mar 20 11:24 16°25075 retrograde 3918 Mar 20 11:2	-				direct			
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retrograde		3918 Apr 05 14:44	9° 8		evening max el	3919 Mar 29 02:24	25° Ƴ 45'37	18°07'58
evening set inferior conj 3918 May 01 24 10:12 16°B0633 inferior conj 3919 Apr 14 02:04 23°P(43'17) 3°11'02 inferior conj minimum clong 3918 May 01 22:15 11°B23200 2°22'10 minimum clong 3919 Apr 14 04:48 23°P(36'47) 3°10'35 minimum clong 3918 May 01 22:15 11°B242'42 2°21'11 minimum clong 3919 Apr 17 07:47 20°P(40'05) 6.6814 AU minimum clong 3918 May 05 05:12 8°B4355 0.8633 AU morning rise 3919 Apr 20 21:24 17°P(5'16') desc. node 3918 May 10 18:15 5°B1956 desc. node 3919 Apr 27 15:17 15°P(38'41') direct 3918 May 15 9:39 4°B22'49 morning max el 3919 May 17 14:40 0°B morning set 3918 Jun 29 19:08 12°B47'12 29°B47'14 3919 Jun 13 08:16 14°B7'12 asc. node 3918 Jun 29 02:41 29°B49'14 morning set 3919 Jun 20 05:30 14°B4'14'12 sup	evening max el	3918 Apr 14 15:53	12° 8 48'04	18°23'57	retrograde	3919 Apr 04 18:56	29° Y 09'59	
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3918 Oct 06 06:08 0° ♀ 3919 Sep 11 00:24 0° № morning set 3918 Oct 11 21:31 10° ♀ 29'42 asc. node 3919 Sep 13 11:54 3° № 06'51	morning max el	-	-	18°17'38		_		
morning set 3918 Oct 11 21:31 10° ≙ 29'42 asc. node 3919 Sep 13 11:54 3° № 06'51	asc. node	•	-		morning max el	-		19°01'37
						-		
morning set 3919 Sep 25 19:36 24° m 45'00	morning set	3918 Oct 11 21:31	10° ≏ 29'42			-		
					morning set	3919 Sep 25 19:36	24° m/45'00	

	3919 Sep 28 11:14	0∘ 亚			3920 Sep 04 07:11	0° m	
				morning set	3920 Sep 09 00:16	9° m 19′20	
superior conj	3919 Oct 04 03:44	11° Ω 08'03	1°36'38		2020 0 16 17 02	250m.01152	1042146
minimum elong max. Earth dist.	3919 Oct 04 06:05 3919 Oct 10 22:40	11° ≙ 19'22 23° ≙ 46'07	1°36'28 1.38781 AU	superior conj	3920 Sep 16 17:02 3920 Sep 16 17:42	25° m 01'52 25° m 05'12	
max. Earm dist.	3919 Oct 10 22.40 3919 Oct 14 11:25	0°M	1.36/61 AU	minimum elong	3920 Sep 16 17.42 3920 Sep 19 05:02	0° ⊡	1 43 43
evening rise	3919 Oct 14 11:23	0°M31'50		max. Earth dist.	3920 Sep 17 03:02 3920 Sep 22 04:29	o — 5° Ω 45'40	1.36763 AU
desc. node	3919 Oct 20 13:52	10°M13'58		evening rise	3920 Sep 26 00:39	12° £ 54'31	1.50705710
	3919 Nov 02 13:46	0° ∡ 7		desc. node	3920 Oct 06 10:54	0°M42'58	
evening max el	3919 Nov 19 06:02	20° х 43′09	24°36'15		3920 Oct 06 00:11	0°M	
retrograde	3919 Nov 30 17:35	27° х 24'49			3920 Oct 27 13:54	0° ∡ ″	
evening set	3919 Dec 06 05:35	25° ₹ 07'07		evening max el	3920 Oct 31 18:25	4° ₹ 25'37	25°47'51
asc. node	3919 Dec 10 11:09	20° ≯ 22'39		retrograde	3920 Nov 13 03:19	11° ₹ 29'17	
min. Earth dist.	3919 Dec 10 20:39	19° ₹ 51'19	0.67629 AU	evening set	3920 Nov 19 05:15	8° ₹ 58'04	
inferior conj	3919 Dec 11 17:28	18° 🗷 42'01	0°25'48	min. Earth dist.	3920 Nov 23 12:53	4° 🖈 17'23	0.66945 AU
minimum elong morning rise	3919 Dec 11 16:50 3919 Dec 17 04:11	18° ₹ 44'06 12° ₹ 40'40	0°25'32	inferior conj minimum elong	3920 Nov 24 20:45 3920 Nov 24 21:33	2° х 36′38 2° х 34′07	-0°30′23 0°30′02
direct	3919 Dec 20 21:30	12 x 40 40		asc. node	3920 Nov 24 21.33 3920 Nov 26 08:12	2 x 34 07 0° x 46′36	0 30 02
morning max el	3919 Dec 28 11:48	15°×740'06	20°01'54	asc. node	3920 Nov 27 00:02	30°RM	
morning man vi	3920 Jan 08 16:28	0°ਰ	20 010.	morning rise	3920 Nov 30 14:12	26°M43'51	
desc. node	3920 Jan 16 13:07	11° る 38'35		direct	3920 Dec 03 20:12	25°M43'13	
morning set	3920 Jan 24 07:51	23° ⋜ 31'41		morning max el	3920 Dec 10 18:35	29°M34'16	19°04'08
-	3920 Jan 28 11:54	0° ≈			3920 Dec 11 04:41	0°⊀	
max. Earth dist.	3920 Feb 04 05:05	10° ≈ 36′09	1.43967 AU		3921 Jan 01 02:09	8°0	
				desc. node	3921 Jan 02 10:09	2° る 04'38	
superior conj	3920 Feb 09 15:42	19° ≈ 23′29		morning set	3921 Jan 02 12:29	2° る 13'42	
minimum elong	3920 Feb 09 11:21	19°≈05'43	2°02'38	max. Earth dist.	3921 Jan 16 21:04	24° る 40'55	1.44974 AU
	3920 Feb 16 01:19	0°) (20152			2021 1 10 04 20	200710122	1020122
evening rise	3920 Feb 22 17:15	11° 米 20'53 0° Υ		superior conj	3921 Jan 19 04:30	28°る19'33 27°る44'02	
asc. node	3920 Mar 04 19:33 3920 Mar 07 10:28	0 1 3°Υ53'36		minimum elong	3921 Jan 18 19:31 3921 Jan 20 05:54	27 344 02 0° ≈	1 36 34
evening max el	3920 Mar 11 15:07	9° Υ 00'23	18°11'09	evening rise	3921 Feb 03 01:06	0 ∞ 22°≈13'30	
retrograde	3920 Mar 18 01:23	12° Υ 24'10	10 11 0	e venning rise	3921 Feb 07 18:57	0° ∀	
evening set	3920 Mar 20 22:30	11° Υ 41'27		asc. node	3921 Feb 22 07:31	21°) 32'44	
inferior conj	3920 Mar 27 01:58	6° Y 26′11	3°33'31	evening max el	3921 Feb 23 03:09	22°) 24'40	18°32'49
minimum elong	3920 Mar 27 02:57	6° Y 23'31	3°33'28	retrograde	3921 Mar 01 16:25	26°) €00'52	
min. Earth dist.	3920 Mar 29 18:56	3° Y 32'03	0.62918 AU	evening set	3921 Mar 04 19:25	25°) €06'04	
morning rise	3920 Apr 02 06:16	0° Υ 21'44		inferior conj	3921 Mar 10 14:07	19°) 32′28	3°35'56
	3920 Apr 02 18:04	30° ₹		minimum elong	3921 Mar 10 13:29	19°) (34′20	
direct	3920 Apr 09 03:45	27°) (44'03		min. Earth dist.	3921 Mar 12 15:39	17° ₩ 05'17	0.64737 AU
desc. node	3920 Apr 13 12:19 3920 Apr 16 03:30	28°) 39′25 0° °		morning rise	3921 Mar 16 06:58	13° ∺ 21'38 10° ∺ 31'53	
morning max el	3920 Apr 16 03:30 3920 Apr 23 02:55	0° γ 5° Υ 42'15	27048142	direct desc. node	3921 Mar 23 00:58 3921 Mar 31 09:22	10° X 31'33	
morning max er	3920 Apr 23 02:53 3920 May 11 11:50	0° 8	27 40 42	morning max el	3921 Mai 31 09.22 3921 Apr 05 12:33	18° H 24'11	27°16'52
morning set	3920 May 27 07:54	28° 8 30'43		morning max or	3921 Apr 05 12:35 3921 Apr 15 07:10	0°Υ	27 1032
3	3920 May 28 01:34	0°Щ			3921 May 04 10:14	0°8	
max. Earth dist.	3920 Jun 01 16:57	9° Ⅱ 40′53	1.32665 AU	morning set	3921 May 10 22:47	12° 8 11'17	
asc. node	3920 Jun 03 09:43	13° Ⅱ 19'36		max. Earth dist.	3921 May 15 14:58	21° 8 32'36	1.33631 AU
		_					
superior conj	3920 Jun 03 23:31	14° ∏ 34'11		superior conj	3921 May 19 03:30	28° 8 53'15	
minimum elong	3920 Jun 03 23:14	14° Ⅱ 32'37	0°05'58	minimum elong	3921 May 19 04:38	28° 8 59'17	0°21'54
behind sun begin behind sun end	3920 Jun 03 18:21 3920 Jun 04 04:07	14° П 06'12 14° П 59'04		asc. node	3921 May 19 16:07 3921 May 21 06:47	0° П 3° П 25'36	
evening rise	3920 Jun 10 22:52	29° Ⅱ 38'55		evening rise	3921 May 26 09:54	14° Ⅱ 20'23	
evening rise	3920 Jun 11 02:51	0°95		evening rise	3921 Jun 03 08:18	0°95	
	3920 Jun 27 23:24	$0^{\circ}\Omega$		evening max el	3921 Jun 16 07:37	18° © 14'13	22°02'47
evening max el	3920 Jul 04 16:02		23°38'57	desc. node	3921 Jun 27 08:34	24°526'25	
desc. node	3920 Jul 10 11:34	12° Ω 20′09		retrograde	3921 Jun 29 01:32	24° © 33'10	
retrograde	3920 Jul 18 07:29	14° Ω 38'54		evening set	3921 Jul 01 20:22	24°©15'53	
evening set	3920 Jul 22 11:43	14° Ω 00'36		min. Earth dist.	3921 Jul 10 12:33		0.54985 AU
min. Earth dist.	3920 Jul 29 02:02		0.55978 AU	inferior conj	3921 Jul 11 04:07	20°510'54	
inferior conj	3920 Jul 31 05:55	9° Ω 36'50		minimum elong	3921 Jul 10 19:37	20°522'50	3°43'41
minimum elong	3920 Jul 31 00:38	9° Ω 44'46	4°52'19	morning rise	3921 Jul 19 20:34	16°919'56	
morning rise direct	3920 Aug 08 16:04 3920 Aug 11 11:30	5° Ω 41'30 5° Ω 21'46		direct morning max el	3921 Jul 23 00:24 3921 Aug 03 21:51	15°©57'48 21°©31'15	21033123
morning max el	3920 Aug 11 11:30 3920 Aug 21 17:54	10° Ω 07'41	20°07'22	morning max ei	3921 Aug 03 21:31 3921 Aug 11 01:37	21° £ 31°13	41 33 43
asc. node	3920 Aug 21 17:54 3920 Aug 30 08:57	21°Ω16'06	20 0122	asc. node	3921 Aug 17 06:00	10° Ω 04'47	
		00.000			3,mg 1, 00.00	00011/	

morning set	3921 Aug 24 09:11	24° Ω 06'15		morning max el	3922 Jul 16 16:11	2°©15'11	23°13'30
	3921 Aug 27 04:38	0° m)		asc. node	3922 Aug 04 03:03	29° © 22'22	
					3922 Aug 04 10:44	$0^{\circ}\Omega$	
superior conj	3921 Aug 31 16:01	9° Mg 24'46		morning set	3922 Aug 08 20:21	8° Ω 59'08	
minimum elong	3921 Aug 31 15:14	9° m 20'45	1°43'10			_	
max. Earth dist.	3921 Sep 04 16:19	17° m) 38'28	1.35010 AU	superior conj	3922 Aug 15 21:27	24° Ω 06′03	1°36'10
evening rise	3921 Sep 09 00:09	26° Mp 07'26		minimum elong	3922 Aug 15 19:41	23° Ω 56'34	1°36'02
	3921 Sep 11 01:34	0° ⊽		max. Earth dist.	3922 Aug 18 12:56	29° Ω 43'28	1.33642 AU
desc. node	3921 Sep 23 07:54	20° ♀ 56'02			3922 Aug 18 16:04	0° т р	
	3921 Sep 29 09:49	0°M	26044124	evening rise	3922 Aug 23 12:57	9° m 58'15	
evening max el	3921 Oct 14 06:54	18°M04'26	26°44'34	1 1	3922 Sep 03 10:50	0° 亞	
retrograde	3921 Oct 27 07:54	25°M20'02		desc. node	3922 Sep 10 04:54	10° ഫ 45'16 0° സ	
evening set	3921 Nov 02 22:36	22°M39'59	0.65010 AII		3922 Sep 25 06:36		27910114
min. Earth dist.	3921 Nov 06 23:19 3921 Nov 08 18:53	18°M35'08 16°M26'53	0.65910 AU	evening max el	3922 Sep 26 18:58 3922 Oct 10 06:44	1°M29'38 8°M48'11	27-19-14
inferior conj minimum elong	3921 Nov 08 18:33 3921 Nov 08 21:23	16°ML19'32	1°29'05	retrograde evening set	3922 Oct 10 00:44 3922 Oct 17 07:06	6°M07'12	
asc. node	3921 Nov 08 21:23 3921 Nov 13 05:14	10 ML51'13	1 29 03	min. Earth dist.	3922 Oct 17 07:00 3922 Oct 21 01:49	2°M37'06	0.64525 AU
morning rise	3921 Nov 13 03:14 3921 Nov 14 20:55	10°ML45'22		inferior conj	3922 Oct 21 01:49 3922 Oct 23 09:32	0°ML07'15	
direct	3921 Nov 14 20:33 3921 Nov 17 17:38	9°M59'52		minimum elong	3922 Oct 23 09:32 3922 Oct 23 13:47	29° £ 55'47	
morning max el	3921 Nov 17 17:38 3921 Nov 24 07:22	13°M33'57	18°22'23	minimum clong	3922 Oct 23 13:47 3922 Oct 23 12:13	30°R Ω	2 27 33
morning max ci	3921 Nov 24 07:22 3921 Dec 06 03:44	0° ⊼	10 22 23	morning rise	3922 Oct 29 21:39	24° £ 39'54	
morning set	3921 Dec 13 19:35	12° × 17'58		asc. node	3922 Oct 31 02:16	24° Ω 15'37	
desc. node	3921 Dec 19 17:33 3921 Dec 20 07:12	22° × ⁷ 41'42		direct	3922 Nov 01 11:29	24° £ 05'38	
dese. node	3921 Dec 24 21:42	0°중		morning max el	3922 Nov 07 23:24	27° £ 31'59	17°57'29
					3922 Nov 10 04:22	0°M	-, -, -,
superior conj	3921 Dec 29 06:50	6° る 54'00	-0°58'50	morning set	3922 Nov 25 07:37	23°M47'13	
minimum elong	3921 Dec 28 23:33	6° る 25'26			3922 Nov 29 00:25	0° ∡ 7	
max. Earth dist.	3921 Dec 30 15:57	9° ට 03'59		desc. node	3922 Dec 07 04:12	13° ∡ ¹25'15	
	3922 Jan 13 00:29	0° ≈					
evening rise	3922 Jan 14 09:51	2° ≈ 11'04		superior conj	3922 Dec 08 19:21	16° ₹ °03′08	-0°11'13
greatest brilliancy	3922 Jan 24 22:54	18° ≈ 41'33	-0.8m	minimum elong	3922 Dec 08 18:01	15° ₹ 57'44	0°11'01
	3922 Feb 01 15:15	0°) €		behind sun begin	3922 Dec 08 10:21	15° ∡ ¹26'56	
evening max el	3922 Feb 06 12:13	5° ¥ 54'20	19°11'59	behind sun end	3922 Dec 09 01:40	16° ∡ ¹28'30	
asc. node	3922 Feb 09 04:32	8° ₩ 15'35		max. Earth dist.	3922 Dec 13 10:36	23° ҂ ¹26'30	1.44801 AU
retrograde	3922 Feb 13 12:19	9°) 53'44			3922 Dec 17 14:45	5°0	
evening set	3922 Feb 16 22:05	8° ¥ 46′03		evening rise	3922 Dec 25 00:22	11° る 28'22	
inferior conj	3922 Feb 22 11:02	2° 升 56′20			3923 Jan 06 04:51	0° ≈	
minimum elong	3922 Feb 22 09:16	3° ₩ 02'01	3°23'00	greatest brilliancy	3923 Jan 08 13:36	3° ≈ 30'05	-0.6m
min. Earth dist.	3922 Feb 23 21:19	1° ∺ 06′26	0.66168 AU	evening max el	3923 Jan 20 16:39	19° ≈ 26′17	20°06'58
	3922 Feb 24 18:39	30° R ≈		asc. node	3923 Jan 27 01:33	23° ≈ 47'27	
morning rise	3922 Feb 27 20:09	26° ≈ 42'42		retrograde	3923 Jan 28 10:16	23° ≈ 57'33	
direct	3922 Mar 06 04:50	23°≈54'14		evening set	3923 Feb 01 04:09	22°≈35'52	
	3922 Mar 17 10:26	0° \		inferior conj	3923 Feb 06 13:49	16°≈32'29	
desc. node	3922 Mar 18 06:25	0°) 47′56	26016120	minimum elong	3923 Feb 06 11:27	16°≈40'30	2°58'25
morning max el	3922 Mar 18 22:29		26°16'28	min. Earth dist.	3923 Feb 07 10:04	15°≈24'15	0.67178 AU
. ,	3922 Apr 09 08:59	0° Υ 25° Υ 11'49		morning rise	3923 Feb 11 18:31	10°≈18'32	
morning set	3922 Apr 24 01:14 3922 Apr 26 14:03	0° 8		direct morning max el	3923 Feb 17 14:24 3923 Mar 01 07:13	7°≈42'13 14°≈41'58	24057104
max. Earth dist.	3922 Apr 28 01:36	2° 8 52'13	1.35061 AU	desc. node	3923 Mar 05 03:27	14 ≈41 38 18°≈53'32	24 37 04
max. Earth dist.	3922 Apr 28 01.30	2 032 13	1.55001 AU	desc. Hode	3923 Mar 13 19:39	0° \	
superior conj	3922 May 03 00:35	12° 8 47'30	-0°51'16		3923 Mai 13 19:39 3923 Apr 02 05:42	0° Υ	
minimum elong	3922 May 03 00:39	13° 8 01'29		morning set	3923 Apr 06 10:21	7° Υ 18'36	
asc. node	3922 May 08 03:49	23° 8 25'21	0 30 44	max. Earth dist.	3923 Apr 10 01:25	13° Υ 53'29	1.36919 AU
evening rise	3922 May 10 18:07	28° 8 48'31		max. Earth dist.	3)23 ripi 10 01.23	15 (35 2)	1.50)1)110
evening rise	3922 May 10 10:07	0°II		superior conj	3923 Apr 16 11:51	26° Y 09'20	-1°19'31
evening max el	3922 May 29 09:01	29° Ⅱ 06'41	20°37'19	minimum elong	3923 Apr 16 16:00	26° Υ 29'40	
-0	3922 May 30 07:48	0°9	/		3923 Apr 18 10:35	0°8	***
retrograde	3922 Jun 09 14:28	4°935'46		evening rise	3923 Apr 24 21:18	12° 8 57'07	
evening set	3922 Jun 11 15:27	4° © 25'37		asc. node	3923 Apr 25 00:51	13° 8 14'53	
desc. node	3922 Jun 14 05:36	3°545'43			3923 May 03 23:16	0°II	
inferior conj	3922 Jun 20 21:38	0°ഇ28'16	-1°57'32	evening max el	3923 May 11 22:50	10° Ⅱ 40'34	19°29'41
minimum elong	3922 Jun 20 16:08	0°936'11		retrograde	3923 May 21 10:22	15° Ⅱ 17'05	
	3922 Jun 21 17:16	30°RⅡ		evening set	3923 May 23 09:53	15° Ⅱ 05'55	
min. Earth dist.	3922 Jun 22 00:30	29° Ⅱ 49'37	0.54917 AU	inferior conj	3923 Jun 01 01:05	11° Ⅱ 00'44	0°01'08
morning rise	3922 Jun 29 16:06	26° Ⅲ 21′06		minimum elong	3923 Jun 01 01:08	11° Ⅱ 00′39	0°01'06
direct	3922 Jul 03 09:48	25° Ⅱ 50′59		transit middle	3923 Jun 01 01:08	11° Ⅱ 00′39	0°01'06
	3922 Jul 14 00:41	0°€		transit begin	3923 May 31 21:15	11° Ⅱ 06′53	

transit end							
transit end	3923 Jun 01 05:02	10° ∏ 54′25		min. Earth dist.	3924 May 15 07:34	19° 8 41'13	0.57472 AU
desc. node	3923 Jun 01 02:38	10° Ⅲ 58'15		desc. node	3924 May 17 23:40	17° 8 56'28	
min. Earth dist.	3923 Jun 03 14:34	9° Ⅱ 22'31	0.55813 AU	morning rise	3924 May 19 22:40	16° 8 55'19	
morning rise	3923 Jun 09 13:39	6° Ⅱ 21'52		direct	3924 May 25 13:17	15° 8 37'40	
direct	3923 Jun 14 04:41	5°∏33'32		morning max el	3924 Jun 08 21:54	23° 8 10'29	26°24'51
	3923 Jun 28 06:08	12° ∏ 39'03	24055140	morning max ci	3924 Jun 15 00:38	0°Π	20 2431
morning max el			24 33 49				
	3923 Jul 11 16:03	0°95			3924 Jul 03 12:37	0.2 0.2	
asc. node	3923 Jul 22 00:06	19° © 01'17		morning set	3924 Jul 07 18:50	8° 5 42'32	
morning set	3923 Jul 24 08:06	23° © 53'05		asc. node	3924 Jul 07 21:08	8° © 54'41	
	3923 Jul 27 04:26	$0 {\circ} \Omega$					
				superior conj	3924 Jul 14 18:23	23° © 53'24	1°06'43
superior conj	3923 Jul 31 06:55	8° Ω 57'58	1°23'45	minimum elong	3924 Jul 14 16:05	23° © 40'45	1°06'19
minimum elong	3923 Jul 31 04:38	8° Ω 45'33	1°23'28	max. Earth dist.	3924 Jul 15 03:57	24°9346'07	1.32166 AU
max. Earth dist.	3923 Aug 01 17:45	12° Ω 07'44	1.32699 AU		3924 Jul 17 13:07	$0^{\circ}\Omega$	
evening rise	3923 Aug 07 11:25	24°Ω16'35	1.520)) 110	evening rise	3924 Jul 21 16:30	8° Ω 52'45	
evening rise	•	0°m)		evening rise		0° mp	
	3923 Aug 10 07:46	•		1 1	3924 Aug 01 16:41	-	
desc. node	3923 Aug 28 01:55	0° 立 00'38		desc. node	3924 Aug 13 22:57	18° Mp 28'05	
	3923 Aug 28 01:44	0∘ ⊽		evening max el	3924 Aug 21 10:11	26° Mp 49′08	26°58'25
evening max el	3923 Sep 09 05:00	14° ≏ 29'04	27°25'15		3924 Aug 25 04:20	0∘ ⊽	
retrograde	3923 Sep 22 22:57	21° ≏ 44'40		retrograde	3924 Sep 04 07:35	4° ჲ 00'34	
evening set	3923 Sep 30 03:32	19° ♀ 13'32		evening set	3924 Sep 11 07:42	1° ≏ 51'33	
min. Earth dist.	3923 Oct 03 18:31	16° ≙ 13'41	0.62815 AU	•	3924 Sep 14 00:12	30°R M⊅	
inferior conj	3923 Oct 06 13:55	13° ≏ 31'15		min. Earth dist.	3924 Sep 15 00:24		0.60846 AU
minimum elong	3923 Oct 06 19:33	13° ⊆ 17'39		inferior conj	3924 Sep 18 04:46	26° Mp 30'16	
•		8° ≏ 21'24	3 2733	minimum elong	•	26° m) 18'00	
morning rise	3923 Oct 13 13:07			•	3924 Sep 18 10:33	~	4 23 00
direct	3923 Oct 15 22:51	7° Ω 54'44		morning rise	3924 Sep 25 15:14	21° m/41'25	
asc. node	3923 Oct 17 23:18	8° ≏ 14'02		direct	3924 Sep 27 23:54	21°M) 19'20	
morning max el	3923 Oct 22 15:46	11° ≏ 21'22	17°50'17	asc. node	3924 Oct 03 20:20	23°Mp41'12	
	3923 Nov 04 04:03	0° M		morning max el	3924 Oct 05 05:21	24° m 54'31	18°02'00
morning set	3923 Nov 07 19:13	6° ™ 24'30			3924 Oct 09 10:40	0∘ ⊽	
				morning set	3924 Oct 21 00:04	19° ≏ 51'00	
superior conj	3923 Nov 19 08:12	26°M24'24	0°32'24	Č	3924 Oct 26 12:03	0°M	
minimum elong	3923 Nov 19 11:14	26° ™ 37'08	0°31'59				
minimum ciong	3923 Nov 21 11:53	0° √	0 31 37	superior conj	3924 Oct 30 23:35	8°M03'29	1°06'00
JJ.							
desc. node	3923 Nov 24 01:11	4° ₹ 12'07	1 12660 177	minimum elong	3924 Oct 31 03:46	8°M21'58	1°05'29
max. Earth dist.	3923 Nov 26 02:51	7° ∡ ³33'37	1.43668 AU	max. Earth dist.	3924 Nov 07 14:47	21°M10'17	1.41989 AU
evening rise	3923 Dec 04 10:08	20° ≯ 40'30		desc. node	3924 Nov 09 22:13	24°M59'15	
	3923 Dec 10 12:32	0°ප		evening rise	3924 Nov 13 07:18	0° ∡ ¹27'05	
	3923 Dec 31 22:29	0° ≈			3924 Nov 13 00:31	0° ∡ ¹	
evening max el	3924 Jan 03 15:39	2° ≈ 59′21	21°14'47		3924 Dec 03 01:35	5°0	
retrograde	3924 Jan 12 07:59	8° ≈ 08'09		evening max el	3924 Dec 16 09:29	16° る 34'27	22°31'17
asc. node	3924 Jan 13 22:34	7°≈54'03		•			
evening set				retrograde	3924 Dec 26 03:57	22° る 22'49	
•				retrograde	3924 Dec 26 03:57 3924 Dec 30 19:12	22° る 22'49 20° る 29'48	
inferior coni	3924 Jan 16 11:44	6° ≈ 31'14	2°25'19	evening set	3924 Dec 30 19:12	20° る 29'48	
inferior conj	3924 Jan 16 11:44 3924 Jan 21 20:04	6°≈31'14 0°≈17'03	2°25'19	evening set asc. node	3924 Dec 30 19:12 3924 Dec 30 19:36	20°පි29'48 20°පි28'58	1942/56
minimum elong	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36	6°≈31'14 0°≈17'03 0°≈25'35	2°24'35	evening set asc. node inferior conj	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50	20° පි29'48 20° පි28'58 14° පි08'03	1°43'56
	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42	6°≈31'14 0°≈17'03 0°≈25'35 29°♂50'42		evening set asc. node inferior conj minimum elong	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44	20° ට 29'48 20° ට 28'58 14° ට 08'03 14° ට 15'18	1°43'11
minimum elong min. Earth dist.	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42 3924 Jan 22 01:00	6°≈31'14 0°≈17'03 0°≈25'35 29°♂50'42 30°R♂	2°24'35	evening set asc. node inferior conj minimum elong min. Earth dist.	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44 3925 Jan 04 23:57	20°ට 29'48 20°ට 28'58 14°ට 8'03 14°ට 15'18 14°ට 21'31	
minimum elong min. Earth dist. morning rise	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42 3924 Jan 22 01:00 3924 Jan 26 23:17	6°≈31'14 0°≈17'03 0°≈25'35 29°उ50'42 30°Rउ 24°उ04'27	2°24'35	evening set asc. node inferior conj minimum elong min. Earth dist. morning rise	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44 3925 Jan 04 23:57 3925 Jan 10 08:10	20° ට 29' 48 20° ට 28' 58 14° ට 08' 03 14° ට 15' 18 14° ට 21' 31 7° ට 58' 26	1°43'11
minimum elong min. Earth dist. morning rise direct	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42 3924 Jan 22 01:00	6°≈31'14 0°≈17'03 0°≈25'35 29°♂50'42 30°R♂ 24°♂04'27 21°♂47'33	2°24'35	evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44 3925 Jan 04 23:57	20°G29'48 20°G28'58 14°G08'03 14°G15'18 14°G21'31 7°G58'26 6°G04'14	1°43'11 0.68004 AU
minimum elong min. Earth dist. morning rise	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42 3924 Jan 22 01:00 3924 Jan 26 23:17	6°≈31'14 0°≈17'03 0°≈25'35 29°उ50'42 30°Rउ 24°उ04'27	2°24'35	evening set asc. node inferior conj minimum elong min. Earth dist. morning rise	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44 3925 Jan 04 23:57 3925 Jan 10 08:10	20° ට 29' 48 20° ට 28' 58 14° ට 08' 03 14° ට 15' 18 14° ට 21' 31 7° ට 58' 26	1°43'11 0.68004 AU
minimum elong min. Earth dist. morning rise direct	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42 3924 Jan 22 01:00 3924 Jan 26 23:17 3924 Feb 01 04:37	6°≈31'14 0°≈17'03 0°≈25'35 29°♂50'42 30°R♂ 24°♂04'27 21°♂47'33	2°24'35 0.67783 AU	evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44 3925 Jan 04 23:57 3925 Jan 10 08:10 3925 Jan 14 22:42	20°G29'48 20°G28'58 14°G08'03 14°G15'18 14°G21'31 7°G58'26 6°G04'14	1°43'11 0.68004 AU
minimum elong min. Earth dist. morning rise direct	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42 3924 Jan 22 01:00 3924 Jan 26 23:17 3924 Feb 01 04:37 3924 Feb 11 15:52	6°≈31'14 0°≈17'03 0°≈25'35 29°♂50'42 30°R♂ 24°♂04'27 21°♂47'33 28°♂01'11	2°24'35 0.67783 AU	evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44 3925 Jan 04 23:57 3925 Jan 10 08:10 3925 Jan 14 22:42 3925 Jan 24 03:54	20°G29'48 20°G28'58 14°G08'03 14°G21'31 7°G58'26 6°G04'14 11°G28'32	1°43'11 0.68004 AU
minimum elong min. Earth dist. morning rise direct morning max el	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42 3924 Jan 22 01:00 3924 Jan 26 23:17 3924 Feb 01 04:37 3924 Feb 11 15:52 3924 Feb 13 12:56 3924 Feb 20 00:27	6°≈31'14 0°≈17'03 0°≈25'35 29°♂50'42 30°₹♂ 24°♂04'27 21°♂47'33 28°♂01'11 0°≈ 7°≈49'34	2°24'35 0.67783 AU	evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44 3925 Jan 04 23:57 3925 Jan 10 08:10 3925 Jan 14 22:42 3925 Jan 24 03:54 3925 Feb 05 21:28 3925 Feb 07 18:10	20°る29'48 20°る28'58 14°る08'03 14°る15'18 14°る21'31 7°る58'26 6°る04'14 11°る28'32 27°る22'12 0°≈	1°43'11 0.68004 AU
minimum elong min. Earth dist. morning rise direct morning max el desc. node	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42 3924 Jan 22 01:00 3924 Jan 26 23:17 3924 Feb 01 04:37 3924 Feb 11 15:52 3924 Feb 13 12:56 3924 Feb 20 00:27 3924 Mar 06 12:36	6°≈31'14 0°≈17'03 0°≈25'35 29°♂50'42 30°R♂ 24°♂04'27 21°♂47'33 28°♂01'11 0°≈ 7°≈49'34 0°光	2°24'35 0.67783 AU	evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44 3925 Jan 04 23:57 3925 Jan 10 08:10 3925 Jan 14 22:42 3925 Jan 24 03:54 3925 Feb 05 21:28 3925 Feb 07 18:10 3925 Feb 26 01:10	20°る29'48 20°る28'58 14°る08'03 14°る15'18 14°る21'31 7°る58'26 6°る04'14 11°る28'32 27°る22'12 0°≈ 27°≈47'46	1°43'11 0.68004 AU
minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42 3924 Jan 22 01:00 3924 Jan 26 23:17 3924 Feb 01 04:37 3924 Feb 11 15:52 3924 Feb 13 12:56 3924 Feb 20 00:27 3924 Mar 06 12:36 3924 Mar 17 19:58	6°≈31'14 0°≈17'03 0°≈25'35 29°♂50'42 30°₨ 24°♂04'27 21°♂47'33 28°♂01'11 0°≈ 7°≈49'34 0°升 18°升14'04	2°24'35 0.67783 AU 23°28'47	evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44 3925 Jan 04 23:57 3925 Jan 10 08:10 3925 Jan 14 22:42 3925 Jan 24 03:54 3925 Feb 05 21:28 3925 Feb 07 18:10 3925 Feb 26 01:10 3925 Feb 27 09:53	20°る29'48 20°る28'58 14°る08'03 14°る15'18 14°る21'31 7°る58'26 6°る04'14 11°る28'32 27°る22'12 0°≈ 27°≈47'46 0°光	1°43'11 0.68004 AU 22°01'16
minimum elong min. Earth dist. morning rise direct morning max el desc. node	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42 3924 Jan 22 01:00 3924 Jan 26 23:17 3924 Feb 01 04:37 3924 Feb 11 15:52 3924 Feb 13 12:56 3924 Feb 20 00:27 3924 Mar 06 12:36 3924 Mar 17 19:58 3924 Mar 21 20:33	6°≈31'14 0°≈17'03 0°≈25'35 29°♂50'42 30°₹♂ 24°♂04'27 21°♂47'33 28°♂01'11 0°≈ 7°≈49'34 0°升 18°升14'04 25°米09'36	2°24'35 0.67783 AU	evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44 3925 Jan 04 23:57 3925 Jan 10 08:10 3925 Jan 14 22:42 3925 Jan 24 03:54 3925 Feb 05 21:28 3925 Feb 07 18:10 3925 Feb 26 01:10	20°る29'48 20°る28'58 14°る08'03 14°る15'18 14°る21'31 7°る58'26 6°る04'14 11°る28'32 27°る22'12 0°≈ 27°≈47'46 0°光	1°43'11 0.68004 AU
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minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42 3924 Jan 22 01:00 3924 Jan 26 23:17 3924 Feb 01 04:37 3924 Feb 11 15:52 3924 Feb 13 12:56 3924 Feb 20 00:27 3924 Mar 06 12:36 3924 Mar 17 19:58 3924 Mar 21 20:33 3924 Mar 24 14:05	6°≈31'14 0°≈17'03 0°≈25'35 29°♂50'42 30°₹♂ 24°♂04'27 21°♂47'33 28°♂01'11 0°≈ 7°≈49'34 0°¥ 18°¥14'04 25°¥09'36 0°° 8°°¥47'47	2°24'35 0.67783 AU 23°28'47 1.39057 AU -1°44'20	evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44 3925 Jan 04 23:57 3925 Jan 10 08:10 3925 Jan 14 22:42 3925 Jan 24 03:54 3925 Feb 05 21:28 3925 Feb 07 18:10 3925 Feb 26 01:10 3925 Feb 27 09:53 3925 Mar 03 18:49 3925 Mar 11 12:27 3925 Mar 11 15:52	20°号29'48 20°号28'58 14°号08'03 14°号21'31 7°号58'26 6°号04'14 11°号28'32 27°号22'12 0°無 27°無47'46 0°升 7°升12'30 20°升31'34 20°升46'38	1°43'11 0.68004 AU 22°01'16 1.41214 AU -2°01'57
minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42 3924 Jan 22 01:00 3924 Jan 26 23:17 3924 Feb 01 04:37 3924 Feb 11 15:52 3924 Feb 13 12:56 3924 Feb 20 00:27 3924 Mar 06 12:36 3924 Mar 17 19:58 3924 Mar 21 20:33 3924 Mar 24 14:05	6°≈31'14 0°≈17'03 0°≈25'35 29°♂50'42 30°₹♂ 24°♂04'27 21°♂47'33 28°♂01'11 0°≈ 7°≈49'34 0°¥ 18°¥14'04 25°¥09'36 0°° 8°°¥47'47	2°24'35 0.67783 AU 23°28'47 1.39057 AU -1°44'20	evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44 3925 Jan 04 23:57 3925 Jan 10 08:10 3925 Jan 14 22:42 3925 Jan 24 03:54 3925 Feb 05 21:28 3925 Feb 07 18:10 3925 Feb 26 01:10 3925 Feb 27 09:53 3925 Mar 03 18:49	20°号29'48 20°号28'58 14°号08'03 14°号21'31 7°号58'26 6°号04'14 11°号28'32 27°号22'12 0°無 27°無47'46 0°升 7°升12'30 20°升31'34 20°升46'38 0°Y	1°43'11 0.68004 AU 22°01'16 1.41214 AU -2°01'57
minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42 3924 Jan 22 01:00 3924 Jan 26 23:17 3924 Feb 01 04:37 3924 Feb 11 15:52 3924 Feb 13 12:56 3924 Feb 20 00:27 3924 Mar 06 12:36 3924 Mar 17 19:58 3924 Mar 21 20:33 3924 Mar 24 14:05	6°≈31'14 0°≈17'03 0°≈25'35 29°♂50'42 30°₹♂ 24°♂04'27 21°♂47'33 28°♂01'11 0°≈ 7°≈49'34 0°¥ 18°¥14'04 25°¥09'36 0°° 8°°¥47'47	2°24'35 0.67783 AU 23°28'47 1.39057 AU -1°44'20	evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44 3925 Jan 04 23:57 3925 Jan 10 08:10 3925 Jan 14 22:42 3925 Jan 24 03:54 3925 Feb 05 21:28 3925 Feb 07 18:10 3925 Feb 26 01:10 3925 Feb 27 09:53 3925 Mar 03 18:49 3925 Mar 11 12:27 3925 Mar 11 15:52	20°号29'48 20°号28'58 14°号08'03 14°号15'18 14°号21'31 7°号58'26 6°号04'14 11°号28'32 27°号22'12 0°無 27°無47'46 0°光 7°米12'30 20°光31'34 20°光46'38 0°Y 9°Y42'10	1°43'11 0.68004 AU 22°01'16 1.41214 AU -2°01'57
minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42 3924 Jan 22 01:00 3924 Jan 26 23:17 3924 Feb 01 04:37 3924 Feb 11 15:52 3924 Feb 13 12:56 3924 Feb 20 00:27 3924 Mar 06 12:36 3924 Mar 17 19:58 3924 Mar 21 20:33 3924 Mar 24 14:05	6°≈31'14 0°≈17'03 0°≈25'35 29°♂50'42 30°₹♂ 24°♂04'27 21°♂47'33 28°♂01'11 0°≈ 7°≈49'34 0°¥ 18°¥14'04 25°¥09'36 0°° 8°°¥47'47	2°24'35 0.67783 AU 23°28'47 1.39057 AU -1°44'20	evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44 3925 Jan 04 23:57 3925 Jan 10 08:10 3925 Jan 14 22:42 3925 Jan 24 03:54 3925 Feb 05 21:28 3925 Feb 07 18:10 3925 Feb 26 01:10 3925 Feb 27 09:53 3925 Mar 03 18:49 3925 Mar 11 12:27 3925 Mar 11 15:52 3925 Mar 16 18:40	20°号29'48 20°号28'58 14°号08'03 14°号21'31 7°号58'26 6°号04'14 11°号28'32 27°号22'12 0°無 27°無47'46 0°升 7°升12'30 20°升31'34 20°升46'38 0°Y	1°43'11 0.68004 AU 22°01'16 1.41214 AU -2°01'57
minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42 3924 Jan 22 01:00 3924 Jan 26 23:17 3924 Feb 01 04:37 3924 Feb 11 15:52 3924 Feb 13 12:56 3924 Feb 20 00:27 3924 Mar 06 12:36 3924 Mar 17 19:58 3924 Mar 21 20:33 3924 Mar 22 14:05 3924 Mar 29 09:23 3924 Mar 29 14:06 3924 Apr 07 16:36	6°≈31'14 0°≈17'03 0°≈25'35 29°♂50'42 30°₨ 24°♂04'27 21°♂47'33 28°♂01'11 0°≈ 7°≈49'34 0°¥ 18°¥14'04 25°¥09'36 0°Ŷ 8°Ŷ47'47 9°Ŷ09'52 26°Ŷ37'40	2°24'35 0.67783 AU 23°28'47 1.39057 AU -1°44'20	evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44 3925 Jan 04 23:57 3925 Jan 10 08:10 3925 Jan 14 22:42 3925 Jan 24 03:54 3925 Feb 05 21:28 3925 Feb 07 18:10 3925 Feb 26 01:10 3925 Feb 27 09:53 3925 Mar 03 18:49 3925 Mar 11 12:27 3925 Mar 11 15:52 3925 Mar 16 18:40 3925 Mar 22 00:39	20°号29'48 20°号28'58 14°号08'03 14°号15'18 14°号21'31 7°号58'26 6°号04'14 11°号28'32 27°号22'12 0°無 27°無47'46 0°光 7°米12'30 20°光31'34 20°光46'38 0°Y 9°Y42'10	1°43'11 0.68004 AU 22°01'16 1.41214 AU -2°01'57
minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42 3924 Jan 22 01:00 3924 Jan 26 23:17 3924 Feb 01 04:37 3924 Feb 11 15:52 3924 Feb 13 12:56 3924 Feb 20 00:27 3924 Mar 06 12:36 3924 Mar 17 19:58 3924 Mar 21 20:33 3924 Mar 24 14:05 3924 Mar 29 09:23 3924 Mar 29 14:06 3924 Apr 07 16:36 3924 Apr 09 10:32 3924 Apr 10 21:53	6°≈31'14 0°≈17'03 0°≈25'35 29°♂50'42 30°₨ 24°♂04'27 21°♂47'33 28°♂01'11 0°≈ 7°≈49'34 0°ℋ 18°ℋ14'04 25°ℋ09'36 0°Ƴ 8°Ƴ47'47 9°Ŷ09'52 26°Ŷ37'40	2°24'35 0.67783 AU 23°28'47 1.39057 AU -1°44'20	evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44 3925 Jan 04 23:57 3925 Jan 10 08:10 3925 Jan 14 22:42 3925 Jan 24 03:54 3925 Feb 05 21:28 3925 Feb 07 18:10 3925 Feb 26 01:10 3925 Feb 27 09:53 3925 Mar 03 18:49 3925 Mar 11 12:27 3925 Mar 11 15:52 3925 Mar 16 18:40 3925 Mar 22 00:39 3925 Mar 28 18:56 3925 Apr 02 17:29	20°云29'48 20°云28'58 14°云08'03 14°云15'18 14°云21'31 7°云58'26 6°云04'14 11°云28'32 27°云22'12 0°≈ 27°≈47'46 0°光 7°光12'30 20°光31'34 20°光46'38 0°Ƴ 9°Ƴ42'10 22°Ƴ00'59	1°43'11 0.68004 AU 22°01'16 1.41214 AU -2°01'57
minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42 3924 Jan 22 01:00 3924 Jan 26 23:17 3924 Feb 01 04:37 3924 Feb 13 12:56 3924 Feb 20 00:27 3924 Mar 06 12:36 3924 Mar 17 19:58 3924 Mar 21 20:33 3924 Mar 24 14:05 3924 Mar 29 09:23 3924 Mar 29 14:06 3924 Apr 07 16:36 3924 Apr 09 10:32 3924 Apr 10 21:53 3924 Apr 23 23:13	6°≈31'14 0°≈17'03 0°≈25'35 29°♂50'42 30°₨ 24°♂04'27 21°♂47'33 28°♂01'11 0°≈ 7°≈49'34 0°升 18°升14'04 25°升09'36 0°Υ 8°Ŷ47'47 9°Ŷ09'52 26°Ŷ37'40 0°႘ 2°႘48'38 22°႘53'09	2°24'35 0.67783 AU 23°28'47 1.39057 AU -1°44'20 1°43'51	evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44 3925 Jan 04 23:57 3925 Jan 10 08:10 3925 Jan 14 22:42 3925 Jan 24 03:54 3925 Feb 05 21:28 3925 Feb 07 18:10 3925 Feb 26 01:10 3925 Feb 27 09:53 3925 Mar 03 18:49 3925 Mar 11 12:27 3925 Mar 11 15:52 3925 Mar 12 00:39 3925 Mar 28 18:56 3925 Apr 02 17:29 3925 Apr 07 06:57	20°329'48 20°328'58 14°308'03 14°315'18 14°321'31 7°358'26 6°304'14 11°328'32 27°322'12 0°≈ 27°≈47'46 0°升 7°升12'30 20°升31'34 20°升46'38 0°Y 9°Y42'10 22°Y00'59 0°8 5°836'46	1°43'11 0.68004 AU 22°01'16 1.41214 AU -2°01'57 2°01'48
minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42 3924 Jan 22 01:00 3924 Jan 26 23:17 3924 Feb 01 04:37 3924 Feb 11 15:52 3924 Feb 13 12:56 3924 Feb 20 00:27 3924 Mar 06 12:36 3924 Mar 17 19:58 3924 Mar 21 20:33 3924 Mar 24 14:05 3924 Mar 29 09:23 3924 Mar 29 14:06 3924 Apr 07 16:36 3924 Apr 09 10:32 3924 Apr 10 21:53 3924 May 01 23:35	6°≈31'14 0°≈17'03 0°≈25'35 29°♂50'42 30°₨ 24°♂04'27 21°♂47'33 28°♂01'11 0°≈ 7°≈49'34 0°Ж 18°Ж14'04 25°Ж09'36 0°Y 8°Y47'47 9°Y09'52 26°Y37'40 0°℧ 2°℧48'38 22°℧53'09 26°℧48'59	2°24'35 0.67783 AU 23°28'47 1.39057 AU -1°44'20 1°43'51	evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44 3925 Jan 04 23:57 3925 Jan 10 08:10 3925 Jan 14 22:42 3925 Jan 24 03:54 3925 Feb 05 21:28 3925 Feb 07 18:10 3925 Feb 26 01:10 3925 Feb 27 09:53 3925 Mar 03 18:49 3925 Mar 11 12:27 3925 Mar 11 15:52 3925 Mar 16 18:40 3925 Mar 22 00:39 3925 Mar 28 18:56 3925 Apr 02 17:29 3925 Apr 07 06:57 3925 Apr 14 07:52	20°云29'48 20°云28'58 14°云08'03 14°云15'18 14°云21'31 7°云58'26 6°云04'14 11°云28'32 27°云22'12 0°≈ 27°≈47'46 0°升 7°升12'30 20°升31'34 20°升46'38 0°个 9°介42'10 22°介00'59 0°엉 5°엉36'46 9°엉08'19	1°43'11 0.68004 AU 22°01'16 1.41214 AU -2°01'57 2°01'48
minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42 3924 Jan 22 01:00 3924 Jan 26 23:17 3924 Feb 01 04:37 3924 Feb 11 15:52 3924 Feb 13 12:56 3924 Feb 20 00:27 3924 Mar 06 12:36 3924 Mar 17 19:58 3924 Mar 21 20:33 3924 Mar 24 14:05 3924 Mar 29 09:23 3924 Mar 29 14:06 3924 Apr 07 16:36 3924 Apr 09 10:32 3924 Apr 10 21:53 3924 May 01 23:35 3924 May 04 04:40	6°≈31'14 0°≈17'03 0°≈25'35 29°♂50'42 30°₨ 24°♂04'27 21°♂47'33 28°♂01'11 0°≈ 7°≈49'34 0°Ж 18°Ж14'04 25°Ж09'36 0°Y 8°Y47'47 9°Y09'52 26°Y37'40 0°႘ 2°႘48'38 22°႘53'09 26°႘48'59 26°႘32'07	2°24'35 0.67783 AU 23°28'47 1.39057 AU -1°44'20 1°43'51	evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44 3925 Jan 04 23:57 3925 Jan 10 08:10 3925 Jan 14 22:42 3925 Jan 24 03:54 3925 Feb 05 21:28 3925 Feb 07 18:10 3925 Feb 26 01:10 3925 Feb 27 09:53 3925 Mar 03 18:49 3925 Mar 11 12:27 3925 Mar 11 15:52 3925 Mar 16 18:40 3925 Mar 22 00:39 3925 Mar 28 18:56 3925 Apr 02 17:29 3925 Apr 07 06:57 3925 Apr 14 07:52 3925 Apr 16 19:27	20° 529'48 20° 528'58 14° 508'03 14° 515'18 14° 521'31 7° 558'26 6° 504'14 11° 528'32 27° 522'12 0° ※ 27° ※47'46 0° 升 7° 升12'30 20° 升31'34 20° 升46'38 0° Ŷ 9° Ŷ42'10 22° Ŷ00'59 0° 岁 5° 836'46 9° 808'19 8° 842'49	1°43'11 0.68004 AU 22°01'16 1.41214 AU -2°01'57 2°01'48
minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde	3924 Jan 16 11:44 3924 Jan 21 20:04 3924 Jan 21 17:36 3924 Jan 22 03:42 3924 Jan 22 01:00 3924 Jan 26 23:17 3924 Feb 01 04:37 3924 Feb 11 15:52 3924 Feb 13 12:56 3924 Feb 20 00:27 3924 Mar 06 12:36 3924 Mar 17 19:58 3924 Mar 21 20:33 3924 Mar 24 14:05 3924 Mar 29 09:23 3924 Mar 29 14:06 3924 Apr 07 16:36 3924 Apr 09 10:32 3924 Apr 10 21:53 3924 May 01 23:35	6°≈31'14 0°≈17'03 0°≈25'35 29°♂50'42 30°₨ 24°♂04'27 21°♂47'33 28°♂01'11 0°≈ 7°≈49'34 0°Ж 18°Ж14'04 25°Ж09'36 0°Y 8°Y47'47 9°Y09'52 26°Y37'40 0°℧ 2°℧48'38 22°℧53'09 26°℧48'59	2°24'35 0.67783 AU 23°28'47 1.39057 AU -1°44'20 1°43'51	evening set asc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde	3924 Dec 30 19:12 3924 Dec 30 19:36 3925 Jan 05 03:50 3925 Jan 05 01:44 3925 Jan 04 23:57 3925 Jan 10 08:10 3925 Jan 14 22:42 3925 Jan 24 03:54 3925 Feb 05 21:28 3925 Feb 07 18:10 3925 Feb 26 01:10 3925 Feb 27 09:53 3925 Mar 03 18:49 3925 Mar 11 12:27 3925 Mar 11 15:52 3925 Mar 16 18:40 3925 Mar 22 00:39 3925 Mar 28 18:56 3925 Apr 02 17:29 3925 Apr 07 06:57 3925 Apr 14 07:52	20°云29'48 20°云28'58 14°云08'03 14°云15'18 14°云21'31 7°云58'26 6°云04'14 11°云28'32 27°云22'12 0°≈ 27°≈47'46 0°升 7°升12'30 20°升31'34 20°升46'38 0°个 9°介42'10 22°介00'59 0°엉 5°엉36'46 9°엉08'19	1°43'11 0.68004 AU 22°01'16 1.41214 AU -2°01'57 2°01'48 18°14'39 2°46'31

min. Earth dist.	3925 Apr 27 05:57	1° 8 01'39	0.59558 AU	minimum elong	3926 Apr 06 13:21	16° Ƴ 20'08	3°23'10
	3925 Apr 28 12:55	30°RƳ		min. Earth dist.	3926 Apr 09 12:13	13° Y 23'01	0.61731 AU
morning rise	3925 May 01 01:29	28° Ƴ 17'36		morning rise	3926 Apr 12 23:50	10° Y 26'31	
desc. node	3925 May 04 20:42	26° Ƴ 43'15		direct	3926 Apr 19 19:31	8° Y 01'53	
direct	3925 May 07 10:55	26° Y 24'43		desc. node	3926 Apr 21 17:44	8° Y 12'39	
	3925 May 16 20:34	9° 8		morning max el	3926 May 03 23:35	16° Y ′00′13	27°51'18
morning max el	3925 May 21 19:36	4° 8 14'19	27°26'09		3926 May 15 10:57	9° 8	
	3925 Jun 09 18:23	Π $^{\circ}0$			3926 Jun 02 08:37	Π $^{\circ}0$	
morning set	3925 Jun 22 02:51	23° Ⅲ 22′13		morning set	3926 Jun 06 06:16	7° Ⅱ 45'57	
asc. node	3925 Jun 24 18:11	28° Ⅱ 57'36		asc. node	3926 Jun 11 15:15	19° Ⅱ 05'33	
	3925 Jun 25 05:46	0		max. Earth dist.	3926 Jun 12 01:14	19° Ⅱ 59'34	1.32306 AU
max. Earth dist.	3925 Jun 28 15:45	7° © 27'42	1.32034 AU				
				superior conj	3926 Jun 13 16:18	23° ∏ 32′10	0°21'19
superior conj	3925 Jun 29 06:05	8° ॐ 46'38	0°45'42	minimum elong	3926 Jun 13 15:20	23° Ⅱ 26'51	0°21'06
minimum elong	3925 Jun 29 04:14	8° 9 36'26	0°45'19		3926 Jun 16 15:10	0°€	
evening rise	3925 Jul 06 01:49	23° © 39'10		evening rise	3926 Jun 20 13:18	8°9529'14	
	3925 Jul 09 03:07	$0^{\circ}\Omega$			3926 Jul 01 16:24	0° Ω	
	3925 Jul 26 23:38	0° m		evening max el	3926 Jul 15 23:09	19° Ω 08'32	24°34'04
desc. node	3925 Jul 31 19:59	5° Mp 47'54	25250155	desc. node	3926 Jul 18 17:01	21°Ω33'23	
evening max el	3925 Aug 03 08:04	~	25°58'55	retrograde	3926 Jul 29 20:40	26° Ω 09'47	
retrograde	3925 Aug 17 07:23	15° Mp 28'55		evening set	3926 Aug 03 21:43	25° Ω 12'38	0.56064.444
evening set	3925 Aug 23 14:44	13° m 53'24	0.50775.411	min. Earth dist.	3926 Aug 09 10:16		0.56864 AU
min. Earth dist.	3925 Aug 27 20:31		0.58775 AU	inferior conj	3926 Aug 12 04:26	20°Ω35'33 20°Ω38'22	
inferior conj	3925 Aug 31 02:29	8° Mp 54'14		minimum elong	3926 Aug 12 02:41		5°08'26
minimum elong	3925 Aug 31 05:58	8° Mp 47'47	5-00-52	morning rise direct	3926 Aug 20 10:14	16° Ω 31'18 16° Ω 12'10	
morning rise direct	3925 Sep 07 23:26 3925 Sep 10 10:05	4° Mp 28'37			3926 Aug 23 01:36	20°Ω35'43	19°27'01
morning max el	3925 Sep 10 10:03 3925 Sep 18 12:53	4° Mp 08'53 8° Mp 02'16	18°33'52	morning max el asc. node	3926 Sep 01 11:14 3926 Sep 07 14:27	20 δι 33 43 28° Ω 05'00	19 2/01
asc. node	3925 Sep 18 12:33 3925 Sep 20 17:23	10° Mp 23'07	16 33 32	asc. node	3926 Sep 07 14.27 3926 Sep 08 20:26	0° m	
asc. Houc	3925 Oct 02 16:52	10 m/23 07		morning set	3926 Sep 18 18:11	עוי ט 18° m) 15'49	
morning set	3925 Oct 02 16:58	ა 3° ჲ 51'21		morning set	3926 Sep 24 14:30	0° ⊽	
morning set	3723 001 04 10.30	3 =3121			3720 бер 24 14.50	٥ –	
superior conj	3925 Oct 13 13:01	20° £ 46'59	1°28'26	superior conj	3926 Sep 26 19:02	4° £ 19'36	1°40'41
minimum elong	3925 Oct 13 16:17	21° ♀ 02'15	1°28'07	minimum elong	3926 Sep 26 20:40	4° £ 27'35	1°40'37
	3925 Oct 18 14:14	0°M		max. Earth dist.	3926 Oct 03 01:26	16° £ 15′00	1.37893 AU
max. Earth dist.	3925 Oct 20 21:19	4°M02'48	1.39975 AU	evening rise	3926 Oct 06 19:38	23° ഫ 01'35	
evening rise	3925 Oct 25 01:49	11°ML12'03			3926 Oct 10 20:38	0° M	
desc. node	3925 Oct 27 19:16	15°M42'36		desc. node	3926 Oct 14 16:19	6° ™ 18'24	
	3925 Nov 05 22:03	0° ∡ ¹			3926 Oct 30 17:24	0° ∡ ″	
	3925 Nov 28 18:44	ರ∘ರ		evening max el	3926 Nov 11 11:58	13° ₹ 53'17	25°08'02
evening max el	3925 Nov 28 23:31	0° る 11'58	23°51'15	retrograde	3926 Nov 23 09:30	20° ҂ 46′27	
retrograde	3925 Dec 09 20:47	6° ප 37'00		evening set	3926 Nov 29 03:21	18° ≯ 22'34	
evening set	3925 Dec 15 00:57	4° る 27'52		min. Earth dist.	3926 Dec 03 15:07	13° ∡ ′21′25	0.67375 AU
asc. node	3925 Dec 17 16:38	1° る 41'32		inferior conj	3926 Dec 04 16:36	11° ₰ 758'09	0°02'31
	3925 Dec 19 00:28	30°₹ ৵		minimum elong	3926 Dec 04 16:32	11° ₰ 758'22	0°02'29
inferior conj	3925 Dec 20 11:16	28° ҂ 02'32	0°55'59	transit middle	3926 Dec 04 16:32	11° ₰ 758'22	0°02'29
minimum elong	3925 Dec 20 09:59	28° ≯ 06'53	0°55'29	transit begin	3926 Dec 04 13:48	12° 尽 07′20	
min. Earth dist.	3925 Dec 19 20:32	28° ₹ 52'38	0.67862 AU	transit end	3926 Dec 04 19:17	11° ∡ ⁴49′23	
morning rise	3925 Dec 25 19:02	21° 🖈 57'34		asc. node	3926 Dec 04 13:40	12° ∡ *07'45	
direct	3925 Dec 29 19:35	20° ₹ 26'09		morning rise	3926 Dec 10 05:56	6° ₹ 00'01	
morning max el	3926 Jan 06 22:29	25° ₹ 06'25	20°41'54	direct	3926 Dec 13 18:06	4° 🖈 49'05	10025124
	3926 Jan 11 06:19	0°る		morning max el	3926 Dec 21 00:56	8° 🗷 55'14	19°35'24
desc. node	3926 Jan 23 18:30	17° る 20'52		greatest brilliancy	3927 Jan 03 03:53	26° ₹ 18'10	-0.7m
	3926 Feb 01 04:14	0°≈ (°2 • 12140		1 1.	3927 Jan 05 15:03	0°중 7°중38'32	
morning set max. Earth dist.	3926 Feb 05 04:51 3926 Feb 13 23:49	6°≈12'49 20°≈09'09	1.43098 AU	desc. node	3927 Jan 10 15:32 3927 Jan 15 01:34	14° る 26'31	
max. Earm dist.	3926 Feb 19 23:31	20 ≈ 09 09	1.43098 AU	morning set	3927 Jan 25 01:09	0°≈	
	3720100 19 23.31	υ Λ		max. Earth dist.	3927 Jan 27 11:53	0 ≈ 3°≈51'58	1.44475 AU
superior conj	3926 Feb 20 16:02	1°) 09'10	-2°07'22	max. Lattii Qist.	5721 Jan 21 11.33	J ~ J1 J0	1.77713 AU
minimum elong	3926 Feb 20 15:11	1° X 05'36		superior conj	3927 Jan 31 17:47	10° ≈ 38'18	-1°55'19
evening rise	3926 Mar 04 17:16	22° H 01'08	2 0/21	minimum elong	3927 Jan 31 17:47 3927 Jan 31 10:57	10 ≈36 16 10°≈10'54	
, , , , , , , , , , , , , , , , , , ,	3926 Mar 09 05:44	0°Υ		ciong	3927 Feb 12 12:54	0°)	. 0102
asc. node	3926 Mar 15 15:58	10° Υ 44'39		evening rise	3927 Feb 14 14:05	3° ¥ 26′28	
evening max el	3926 Mar 21 18:42	18° Υ 42'21	18°06'57	asc. node	3927 Mar 02 13:00	28° \ 50'39	
retrograde	3926 Mar 28 07:33	22° Υ 05'09	 -		3927 Mar 02 13:00 3927 Mar 03 11:18	0°Υ	
evening set	3926 Mar 31 01:10	21° Υ 29'11		evening max el	3927 Mar 05 07:27	2° Υ '02'07	18°18'11
inferior conj	3926 Apr 06 11:19	16° Υ 25'13	3°23'24	retrograde	3927 Mar 11 18:02	5° Υ 29'44	
J	1			_			

evening set	3927 Mar 14 17:32 3927 Mar 20 02:18	4° Υ 42'06 30° R∺		evening rise greatest brilliancy	3928 Jan 26 11:55 3928 Feb 02 16:36	13°≈54'37 25°≈28'18	-0.9m
inferior conj	3927 Mar 20 16:54	29°) 1 9′07	3°36'40		3928 Feb 05 13:05	0° ∀	
minimum elong	3927 Mar 20 17:09	29° ∺ 18′23	3°36'39	evening max el	3928 Feb 16 18:34	15°) 30′00	18°47'31
min. Earth dist.	3927 Mar 23 03:35	26°) 34′19	0.63735 AU	asc. node	3928 Feb 17 10:01	16°) €07'59	
morning rise	3927 Mar 26 15:52	23° ℋ 11'18		retrograde	3928 Feb 23 11:25	19°) 14′28	
direct	3927 Apr 02 12:50	20°) 26′22		evening set	3928 Feb 26 17:14	18° ∺ 14'14	
desc. node	3927 Apr 08 14:45	22° 升 14′21		inferior conj	3928 Mar 03 09:10	12°) 33′44	3°32'09
morning max el	3927 Apr 16 07:46	28°) €24'05	27°39'04	minimum elong	3928 Mar 03 07:59		3°32'03
	3927 Apr 17 20:46	0° Υ		min. Earth dist.	3928 Mar 05 04:09	10° ∺ 21'32	0.65398 AU
	3927 May 09 06:06	0°8		morning rise	3928 Mar 08 22:19	6° ∺ 21'38	
morning set	3927 May 21 02:33	21° 8 44'56		direct	3928 Mar 15 13:07	3°) (30'45	
	3927 May 25 03:50	0° Π		desc. node	3928 Mar 25 11:46	8° ₩ 15'17	
max. Earth dist.	3927 May 26 04:17	2°Щ07'52	1.33014 AU	morning max el	3928 Mar 28 17:34	11°) 16′21	26°54'09
	2027.14 20 22 00	00 T 0 0 157	0005145		3928 Apr 12 14:56	0° Υ	
superior conj	3927 May 28 23:09	8° Ⅱ 02'57			3928 Apr 30 18:48	0°8	
minimum elong	3927 May 28 23:26	8° Ⅱ 04'29	0°05'41	morning set	3928 May 03 12:39	5° 8 10'10	1 24106 ATT
behind sun begin behind sun end	3927 May 28 18:24	7° П 37'33 8° П 31'26		max. Earth dist.	3928 May 07 21:33	13° 8 45'24	1.34186 AU
asc. node	3927 May 29 04:27 3927 May 29 12:17	9° П 13'28		superior conj	3928 May 12 00:32	22° 8 12'59	0024127
evening rise	3927 Jun 05 01:01	23° I I15'38		minimum elong	3928 May 12 00:32 3928 May 12 02:21	22° 6 22'25	
evening rise	3927 Jun 03 01:01 3927 Jun 08 07:01	0° 9		asc. node	3928 May 15 09:19	29° 8 17'39	0 34 04
evening max el	3927 Jun 08 07:01 3927 Jun 27 12:27	29° © 33'48	22°57'31	asc. node	3928 May 15 17:20	0° Ⅱ	
evening max er	3927 Jun 27 12:27 3927 Jun 27 23:25	0°Ω	22 37 31	evening rise	3928 May 19 11:07	7° П 52'39	
desc. node	3927 Jul 05 14:03	5°Ω09'25		evening rise	3928 May 31 07:46	0°95	
retrograde	3927 Jul 10 21:08	6° Ω 13'26		evening max el	3928 Jun 08 07:42	10°508'44	21°24'33
evening set	3927 Jul 14 09:38	5° Ω 46'19		retrograde	3928 Jun 20 11:09	16°507'10	21 2 . 33
min. Earth dist.	3927 Jul 21 21:18	2° Ω 25'58	0.55453 AU	desc. node	3928 Jun 21 11:02	16°504'51	
inferior conj	3927 Jul 23 11:03	1° Ω 31'25		evening set	3928 Jun 22 20:19	15°954'11	
minimum elong	3927 Jul 23 03:44	1° Ω 42'03		inferior conj	3928 Jul 02 05:30	11°954'41	-3°03'32
· ·	3927 Jul 26 04:02	30° ₹ 5		minimum elong	3928 Jul 01 21:34	12° © 05'46	3°01'01
morning rise	3927 Aug 01 00:06	27° © 39'44		min. Earth dist.	3928 Jul 02 08:10	11° © 50'56	0.54846 AU
direct	3927 Aug 03 22:36	27°519'22		morning rise	3928 Jul 10 23:34	7° © 59'20	
	3927 Aug 11 21:34	$0^{\circ}\Omega$		direct	3928 Jul 14 08:43	7° 5 34'32	
morning max el	3927 Aug 14 21:54	2° Ω 25′09	20°41'38	morning max el	3928 Jul 26 21:06	13° 5 29'36	22°14'41
asc. node	3927 Aug 25 11:30	16° Ω 32'26			3928 Aug 08 06:06	$0^{\circ}\Omega$	
	3927 Sep 01 14:26	O° Mp		asc. node	3928 Aug 11 08:33	5° Ω 34'25	
morning set	3927 Sep 03 00:54	2° M 55'56		morning set	3928 Aug 17 10:59	17° Ω 45'54	
					3928 Aug 23 05:18	0° ™	
superior conj	3927 Sep 10 12:52	18° ™ 26'48	1°44'22				
minimum elong	3927 Sep 10 12:53	18°Mp26'51	1°44'22	superior conj	3928 Aug 24 14:54	2° Mp 58'08	1°40'55
max. Earth dist.	3927 Sep 15 09:04	28° m 07'40	1.35978 AU	minimum elong	3928 Aug 24 13:39	2°m/51'31	1°40'51
	3927 Sep 16 08:14	0∘ 亚		max. Earth dist.	3928 Aug 28 00:45	10° Mp 04'54	1.34387 AU
evening rise	3927 Sep 19 09:34	5° Ω 47'12		evening rise	3928 Sep 01 15:15	19° Mp 17'27	
desc. node	3927 Oct 01 13:21	26° £ 41'16			3928 Sep 07 08:48	0° ⊽	
	3927 Oct 03 16:10	0°M	2601.4120	desc. node	3928 Sep 17 10:22	16° ≏ 45'04	
evening max el	3927 Oct 25 00:28	27° M 35′20 0° ₹	26°14′20	avanina may al	3928 Sep 26 18:08 3928 Oct 06 13:08	0° ጤ 11° ጤ 10'07	27902120
retrograde	3927 Oct 27 16:26 3927 Nov 06 17:08	0 x . 4° x 45′20		evening max el retrograde	3928 Oct 10 13:06	18°M26'57	27 02 29
evening set	3927 Nov 13 00:35	2°× 7 09'56		evening set	3928 Oct 19 19:00 3928 Oct 26 14:27	15°M45'40	
evening set	3927 Nov 15 06:24	2 x 109 30 30°RM		min. Earth dist.	3928 Oct 20 14.27 3928 Oct 30 12:36	13 1143 40 11°M 55'47	0.65365 AU
min. Earth dist.	3927 Nov 17 05:18		0.66543 AU	inferior conj	3928 Oct 30 12:30 3928 Nov 01 13:12	9°M37'50	
inferior conj	3927 Nov 17 03:10 3927 Nov 18 17:57	25°M51'22		minimum elong	3928 Nov 01 16:27	9°M28'34	1°54'49
minimum elong	3927 Nov 18 19:27	25°M46'46		asc. node	3928 Nov 07 07:45	4°M17'06	1 3 1 1)
asc. node	3927 Nov 21 10:42	22°M42'19	0 3111	morning rise	3928 Nov 07 19:20	4°M01'47	
morning rise	3927 Nov 24 14:49	20°M02'43		direct	3928 Nov 10 12:56	3°M21'22	
direct	3927 Nov 27 16:35	19°M08'56		morning max el	3928 Nov 17 00:53	6°M50'51	18°09'40
morning max el	3927 Dec 04 10:27	22°M51'45	18°44'17	2	3928 Dec 02 20:09	0° ∡ 7	
5	3927 Dec 10 05:58	0° ∡ 7		morning set	3928 Dec 05 11:59	4° ₹ 22'01	
morning set	3927 Dec 25 16:11	23° х 40′11		desc. node	3928 Dec 14 09:36	18° ₹ 49'42	
desc. node	3927 Dec 28 12:35	28° ₹ 09'42					
	3927 Dec 29 16:36	ರ°0		superior conj	3928 Dec 20 03:53	28° ₰ 00'25	-0°38'45
max. Earth dist.	3928 Jan 10 05:17	18° る 06'05	1.45184 AU	minimum elong	3928 Dec 19 23:00	27° х 41′06	0°38'05
					3928 Dec 21 10:10	8°0	
superior conj	3928 Jan 10 23:50	19° る 18'52	-1°23'50	max. Earth dist.	3928 Dec 23 00:55	2° る 32'35	1.45152 AU
minimum elong	3928 Jan 10 14:41	18° る 42'58	1°22'52	evening rise	3929 Jan 05 11:46	23° る 31'53	
	3928 Jan 17 18:33	0°≈			3929 Jan 09 15:51	0° ≈	

greatest brilliancy	3929 Jan 18 00:40	12° ≈ 50'11	-0.7m	desc. node	3929 Dec 01 06:38	9° ∡ ³35'20	
evening max el	3929 Jan 30 01:52	29°≈00'46	19°33'38	max. Earth dist.	3929 Dec 05 19:17	16° ₹ 52'15	1.44395 AU
e vening max er	3929 Jan 31 02:04	0° ₩	17 33 30	max. Burtin dist.	3929 Dec 14 04:16	0°중	1.11375710
asc. node	3929 Feb 03 07:02	2° ¥ 22'27		evening rise	3929 Dec 15 22:21	2° ♂ 42'17	
retrograde	3929 Feb 06 08:29	3°) 12'32		8	3930 Jan 03 05:47	0° ≈	
evening set	3929 Feb 09 21:37	1°) 58'48		evening max el	3930 Jan 13 03:57	12° ≈ 32'37	20°34'23
C	3929 Feb 12 03:16	30° R ≈		retrograde	3930 Jan 21 06:41	17°≈19'36	
inferior conj	3929 Feb 15 08:53	26°≈02'52	3°14'12	asc. node	3930 Jan 21 04:04	17° ≈ 19'32	
minimum elong	3929 Feb 15 06:47	26° ≈ 09'45	3°13'50	evening set	3930 Jan 25 04:34	15° ≈ 51'26	
min. Earth dist.	3929 Feb 16 12:56	24° ≈ 30'47	0.66648 AU	inferior conj	3930 Jan 30 13:25	9° ≈ 42'47	2°45'43
morning rise	3929 Feb 20 15:44	19° ≈ 49'07		minimum elong	3930 Jan 30 10:57	9° ≈ 51'15	2°45'05
direct	3929 Feb 26 19:18	17° ≈ 04'56		min. Earth dist.	3930 Jan 31 04:03	8° ≈ 52'47	0.67481 AU
morning max el	3929 Mar 11 03:01	24° ≈ 25′13	25°44'33	morning rise	3930 Feb 04 17:08	3° ≈ 29'09	
desc. node	3929 Mar 12 08:48	25° ≈ 42′28		direct	3930 Feb 10 06:49	1° ≈ 00'45	
	3929 Mar 16 03:39	0° ℋ		morning max el	3930 Feb 21 11:40	7° ≈ 42'11	24°20'03
	3929 Apr 06 01:19	0° Υ		desc. node	3930 Feb 27 05:50	14°≈11'20	
morning set	3929 Apr 16 08:23	17° Y 49'19			3930 Mar 10 21:59	0° ₩	
max. Earth dist.	3929 Apr 20 03:33	24° Y 55'40	1.35811 AU	morning set	3930 Mar 29 08:17	29° ∺ 27′28	
	3929 Apr 22 18:29	0°8			3930 Mar 29 15:45	0° Υ	
	2020 4 25 15 51	501 45 4120	1000105	max. Earth dist.	3930 Apr 02 00:41	5° Y 59′20	1.37806 AU
superior conj	3929 Apr 25 17:51	5° 8 54'20					
minimum elong	3929 Apr 25 21:14	6° 8 11'22	1°02'52	superior conj	3930 Apr 08 23:46	18° Y 58'21	
asc. node	3929 May 02 06:21	19° 8 13'35		minimum elong	3930 Apr 09 04:19	19° Y 20'14	1°30'03
evening rise	3929 May 03 17:30	22° 8 13'26 0° I I			3930 Apr 14 14:57	0°8	
arranina marral	3929 May 07 14:50 3929 May 21 14:16	21° II 17'32	20°06'04	evening rise asc. node	3930 Apr 17 17:43	6° と 10'51 8° と 56'45	
evening max el retrograde	3929 May 21 14:16 3929 Jun 01 01:33	26° I I23'47	20-06 04	asc. node	3930 Apr 19 03:23 3930 May 01 13:30	8° I 3643	
evening set	3929 Jun 03 00:37	26° I 13'48		evening max el	3930 May 04 08:50	3° Ⅱ 07'58	19°06'55
desc. node	3929 Jun 08 08:01	24° I I20'53		retrograde	3930 May 04 08:30 3930 May 13 04:28	7° I I25'47	19 00 33
inferior conj	3929 Jun 12 01:32	22° I 14'24	-1°06'18	evening set	3930 May 15 04:28	7° Ⅱ 12'47	
minimum elong	3929 Jun 11 22:26	22° I 19'03	1°05'09	inferior conj	3930 May 23 12:35	3° Ⅱ 00'34	0°46'32
min. Earth dist.	3929 Jun 13 20:34	21° I I10'13	0.55192 AU	minimum elong	3930 May 23 14:26	2° I 57'25	0°45'53
morning rise	3929 Jun 20 18:39	17° I 55'24	0.00192110	desc. node	3930 May 26 05:03	1° I I10'34	0 .5 55
direct	3929 Jun 24 20:39	17° Ⅱ 19'10		min. Earth dist.	3930 May 26 11:50	0° I I59'22	0.56436 AU
morning max el	3929 Jul 08 12:47	24° Ⅱ 01'44	23°57'41		3930 May 28 01:21	30° ₹ 8	
C	3929 Jul 13 23:14	0ංම		morning rise	3930 May 31 19:58	28° 8 06'09	
asc. node	3929 Jul 29 05:36	25°902'07		direct	3930 Jun 05 20:55	27° 8 06'44	
	3929 Jul 31 16:02	$0^{\circ}\Omega$			3930 Jun 14 14:40	$\Pi^{\circ}0$	
morning set	3929 Aug 01 22:38	2° Ω 40′21		morning max el	3930 Jun 20 03:04	4° Ⅱ 26′00	25°36'21
					3930 Jul 08 11:49	0ංම	
superior conj	3929 Aug 08 22:21	17° Ω 45′02	1°31'31	asc. node	3930 Jul 16 02:38	14°9547'52	
minimum elong	3929 Aug 08 20:18	17° Ω 33'59	1°31'18	morning set	3930 Jul 17 10:10	17° 5 33'14	
max. Earth dist.	3929 Aug 11 01:22	22° Ω 19'24	1.33191 AU		3930 Jul 23 03:53	$0 {\circ} \Omega$	
	3929 Aug 14 17:05	0° m ∕					
evening rise	3929 Aug 16 08:35	3°My21'16		superior conj	3930 Jul 24 08:55	2° Ω 39'26	1°17'04
	3929 Aug 31 03:23	0∘ ⊽		minimum elong	3930 Jul 24 06:34	2° Ω 26'35	1°16'43
desc. node	3929 Sep 04 07:22	6° £ 21'38		max. Earth dist.	3930 Jul 25 08:48	4° Ω 50′20	1.32416 AU
evening max el	3929 Sep 19 00:36	24° Ω 26'07	27°25'31	evening rise	3930 Jul 31 10:10	17° Ω 48'03	
	3929 Sep 26 09:58	0°ጤ 1°ጤ43'29		1 1-	3930 Aug 06 14:04	0°M)	
retrograde	3929 Oct 02 15:03 3929 Oct 08 09:32	1°111643°29 30°R Ω		desc. node	3930 Aug 22 04:23	25° Mp 18'51 0° <u> </u>	
evening set	3929 Oct 08 09.32 3929 Oct 09 18:18	30 K== 29° Ω 05'01		evening max el	3930 Aug 25 19:17 3930 Sep 01 08:39		27°17'54
min. Earth dist.	3929 Oct 13 10:57	25° £ 48'57	0.63839 AU	retrograde	3930 Sep 01 08:39 3930 Sep 15 04:26	7 = 09 34 14° £ 24'14	2/1/34
inferior conj	3929 Oct 15 10:57 3929 Oct 15 23:53	23° £ 12'23		evening set	3930 Sep 13 04:20 3930 Sep 22 08:26	14 = 24 14 12° ⊆ 00'34	
minimum elong	3929 Oct 16 04:48	22° ⊆ 59'41		min. Earth dist.	3930 Sep 25 23:01	9° £ 11'10	0.62000 AU
morning rise	3929 Oct 10 04:48 3929 Oct 22 16:39	17° £ 52'17	2 33 33	inferior conj	3930 Sep 28 22:57	6° £ 26'47	
direct	3929 Oct 25 04:29	17° £ 21'35		minimum elong	3930 Sep 29 04:51	6° ≙ 13'14	
asc. node	3929 Oct 25 04:47	17° ⊆ 21'35		morning rise	3930 Oct 06 03:02	1° £ 25'50	
morning max el	3929 Oct 31 17:31	20° Ω 46'42	17°52'16	direct	3930 Oct 08 11:50	1° ≏ 01'34	
Ç	3929 Nov 07 16:45	0°M₊		asc. node	3930 Oct 12 01:51	1° £ 59'09	
morning set	3929 Nov 17 10:54	16°M23'01		morning max el	3930 Oct 15 09:12	4° £ 30'46	17°52'55
	3929 Nov 25 11:02	0° ∡ ¹		morning set	3930 Oct 31 06:34	29° ≏ 23'01	
					3930 Oct 31 14:45	0° M ₊	
superior conj	3929 Nov 30 01:53	7° ∡ ³38'12	0°08'18				
minimum elong	3929 Nov 30 02:48	7° ∡ 1'55	0°08'10	superior conj	3930 Nov 11 02:22	18°M33'44	0°48'01
behind sun begin	3929 Nov 29 18:13	7° ∡ 106'51		minimum elong	3930 Nov 11 06:15	18° M 50'19	0°47'29
behind sun end	3929 Nov 30 11:22	8° ≯ 16'56			3930 Nov 17 22:07	0° ⊼	

desc. node	3930 Nov 18 03:40	0° ∡ ¹22'43		desc. node	3931 Nov 05 00:43	21°M08'34	
max. Earth dist.	3930 Nov 18 09:25	0°×746'12	1.43007 AU	evening rise	3931 Nov 05 00:43	21° M 13'53	
evening rise	3930 Nov 25 11:08	12°×704'08	1.43007 AC	evening rise	3931 Nov 10 13:31	0° x ⁷	
evening rise	3930 Dec 07 06:41	0° ਰ			3931 Dec 01 09:09	ੁੰਤ	
evening max el	3930 Dec 27 00:31	26° පි 05'38	21°46'32	evening max el	3931 Dec 09 16:35	9° ਰ 41'40	23°05'19
evening man er	3930 Dec 31 15:39	0°≈	21 .032	retrograde	3931 Dec 19 22:42	15° පි 46'16	25 00 19
retrograde	3931 Jan 05 03:58	1° ≈ 31'57		evening set	3931 Dec 24 19:13	13° る 46'37	
asc. node	3931 Jan 08 01:06	0° ≈ 47'08		asc. node	3931 Dec 25 22:08	12° る 44'04	
	3931 Jan 09 06:22	30°R₹		inferior conj	3931 Dec 30 04:25	7° る 22'56	1°24'22
evening set	3931 Jan 09 12:18	29° る 48'23		minimum elong	3931 Dec 30 02:37	7° る 29'08	1°23'40
inferior conj	3931 Jan 14 20:35	23° පි 30'21	2°08'40	min. Earth dist.	3931 Dec 29 19:58	7° る 52'05	0.67988 AU
minimum elong	3931 Jan 14 18:13	23° る 38'34	2°07'53	morning rise	3932 Jan 04 09:55	1°る14'50	
min. Earth dist.	3931 Jan 14 23:13	23° る 21'10	0.67917 AU		3932 Jan 06 10:07	30°₽ ⋌ 7	
morning rise	3931 Jan 19 23:56	17° る 18'33		direct	3932 Jan 08 18:25	29° ∡ ³30′15	
direct	3931 Jan 24 22:51	15° ප 11'06			3932 Jan 11 05:51	0°ರ	
morning max el	3931 Feb 03 21:20	21° る 04'22	22°50'56	morning max el	3932 Jan 17 11:40	4° ප 34'50	21°26'03
	3931 Feb 11 12:51	0° ≈		desc. node	3932 Jan 31 23:55	23° る 08'49	
desc. node	3931 Feb 14 02:53	3° ≈ 24'17			3932 Feb 05 16:40	0° ≈	
	3931 Mar 04 04:30	0° ℋ		morning set	3932 Feb 17 23:18	18° ≈ 48′27	
morning set	3931 Mar 10 06:16	9°) 49′03			3932 Feb 24 21:40	0° ℋ	
max. Earth dist.	3931 Mar 14 19:47	17°) 30′15	1.39980 AU	max. Earth dist.	3932 Feb 24 20:20	29° ≈ 54'30	1.42063 AU
	3931 Mar 21 21:38	0 ° $\mathbf{\gamma}$					
				superior conj	3932 Mar 03 07:43	12°) 31′26	
superior conj	3931 Mar 22 14:05	1° Ƴ 14'53	-1°52'58	minimum elong	3932 Mar 03 09:41	12°) 39′59	2°06'02
minimum elong	3931 Mar 22 18:33		1°52'37		3932 Mar 13 03:22	$0^{\circ}\mathbf{\Upsilon}$	
evening rise	3931 Apr 01 08:43	19° Ƴ 37'04		evening rise	3932 Mar 14 10:41	2° Y 22'29	
asc. node	3931 Apr 06 00:26	28° Y 22'11		asc. node	3932 Mar 22 21:28	17° Y 22'51	
	3931 Apr 06 21:54	0° 8		evening max el	3932 Mar 30 22:46	28° Y 29'21	18°09'06
evening max el	3931 Apr 17 12:51	15° 8 35'26	18°28'05		3932 Apr 01 16:28	0° 8	
retrograde	3931 Apr 25 01:53	19° 8 18'52		retrograde	3932 Apr 06 17:02	1° 8 54'58	
evening set	3931 Apr 27 09:41	18° 8 58'43		evening set	3932 Apr 09 07:23	1° 8 25'05	
inferior conj	3931 May 04 20:48	14° 8 27'18	2°11'59		3932 Apr 11 22:29	30°RƳ	2005120
minimum elong	3931 May 05 00:29	14° 8 19'55	2°10'58	inferior conj	3932 Apr 16 01:29		3°05'28
min. Earth dist.	3931 May 08 07:11	11° 8 43'43	0.58319 AU	minimum elong	3932 Apr 16 04:27	26° Υ 25'50 23° Υ 30'20	3°04'55
morning rise	3931 May 12 12:10	9° 8 00'27		min. Earth dist.	3932 Apr 19 08:29	23°γ'30'20 20°Υ'43'08	0.60489 AU
desc. node direct	3931 May 13 02:05 3931 May 18 11:46	8° 8 43'34 7° 8 27'40		morning rise desc. node	3932 Apr 22 23:20	20° γ 43′08 18° Υ 36'48	
	3931 May 18 11.46 3931 Jun 01 21:07	15° 8 09'35	26°54'56	direct	3932 Apr 28 23:07	18° Y 35'38	
morning max el	3931 Jun 13 20:39	0° Ⅱ	20 34 30	morning max el	3932 Apr 29 14:30 3932 May 13 21:19	16 γ 33 38 26° γ 29'28	27°41'29
	3931 Jun 30 17:14	0°©		morning max er	3932 May 17 04:29	0° 8	27 41 29
morning set	3931 Jul 01 20:00	2°919'34			3932 Jun 06 09:35	0°II	
asc. node	3931 Jul 01 20:00 3931 Jul 02 23:42	4°946'11		morning set	3932 Jun 15 02:17	16° ∏ 52'35	
asc. node	3731 Jul 02 23.42	7 37011		asc. node	3932 Jun 18 20:45	24° I I51'18	
superior conj	3931 Jul 08 20:45	17° © 35'14	0°58'17	asc. node	3932 Jun 21 05:30	0°95	
minimum elong	3931 Jul 08 18:35		0°57'53	max. Earth dist.	3932 Jun 21 07:14		1.32101 AU
max. Earth dist.	3931 Jul 08 20:00	17° © 31'07	1.32057 AU				
	3931 Jul 14 13:08	0°N		superior conj	3932 Jun 22 08:01	2°\$25'30	0°35'45
evening rise	3931 Jul 15 17:22	2° Ω 29'55		minimum elong	3932 Jun 22 06:29	2° © 17'06	0°35'26
Č	3931 Jul 30 12:24	0° m y		evening rise	3932 Jun 29 03:50	17°©18'25	
desc. node	3931 Aug 09 01:24	13° m 20'33		•	3932 Jul 05 09:59	$0^{\circ}\Omega$	
evening max el	3931 Aug 14 11:00	19° m 09'54	26°36'53	desc. node	3932 Jul 25 22:25	0° Mp 03′47	
retrograde	3931 Aug 28 09:52	26° Mp 20'22			3932 Jul 25 20:52	0° m	
evening set	3931 Sep 04 04:16	24° m 24'36		evening max el	3932 Jul 26 05:56	0° m 21′54	25°25'19
min. Earth dist.	3931 Sep 08 00:46	21° Mp 48'36	0.59965 AU	retrograde	3932 Aug 09 05:11	7° № 27'16	
inferior conj	3931 Sep 11 06:58	19° Mp 12'16	-4°42'36	evening set	3932 Aug 15 01:05	6° Mp 08′28	
minimum elong	3931 Sep 11 12:08	19° ™ 01'53	4°41'43	min. Earth dist.	3932 Aug 19 17:49	3° ™ 28'15	0.57929 AU
morning rise	3931 Sep 18 22:04	14° m 33'02		inferior conj	3932 Aug 22 20:30	1°Mp18'54	-5°08'53
direct	3931 Sep 21 07:01	14° m 12'19		minimum elong	3932 Aug 22 22:05	1° ™ 16'09	5°08'50
asc. node	3931 Sep 28 22:54	17° m 59'49			3932 Aug 24 18:50	30° R Ω	
morning max el	3931 Sep 28 20:39	17° m 54'22	18°12'54	morning rise	3932 Aug 30 21:22	27° Ω 02′29	
	3931 Oct 07 13:25	0∘ ত		direct	3932 Sep 02 09:49	26° Ω 43'06	
morning set	3931 Oct 14 17:04	13° ≏ 05'12			3932 Sep 10 03:13	0° m	
	3931 Oct 23 18:35	0°M₊		morning max el	3932 Sep 11 00:31	0° ™ 47'56	18°53'43
				asc. node	3932 Sep 14 19:57	5° mp 08'38	
superior conj	3931 Oct 24 03:47	0°M41'43	1°16'49	morning set	3932 Sep 27 13:55	27° m 16'58	
minimum elong	3931 Oct 24 07:45	0°M59'38	1°16'23		3932 Sep 28 23:03	0∘ ⊽	
max. Earth dist.	3931 Oct 31 18:30	14~IIL02'54	1.41163 AU				

manimace from the minuma clamb and parts. Earth dist 930 2011 22 257 27 178 200 10 178 200 10 178 200 10 179 200 10	superior conj	3932 Oct 06 00:53	13° ≏ 47'35	1°34'46	minimum elong	3933 Sep 19 13:20	27° m 40'46	1°43'11
	minimum elong	3932 Oct 06 03:30	14° ≏ 00'01	1°34'35		3933 Sep 20 17:22	0。 亚	
Second 1920 16 21 21 21 22 23 23 24 24 24 24 24	max. Earth dist.	3932 Oct 12 23:51	26° ≏ 38′21	1.39091 AU	max. Earth dist.	3933 Sep 25 05:04	8° ≏ 40'27	1.37046 AU
Seemen		3932 Oct 14 21:32	0° M		evening rise	3933 Sep 29 00:10	15° ≏ 40'54	
1993 No. 02 17-54 1972 1973 No. 02 17-54 1974 No. 02 1974	evening rise	3932 Oct 16 21:21	3°M26'50			3933 Oct 07 08:11	0° M	
Section 1932 No. 0 105.51 2974214 247445 247456 247467 247456 247467 2474	desc. node	3932 Oct 21 21:45	11°M49'13		desc. node	3933 Oct 08 18:45	2°M19'56	
Petrograde 1932 Dec 02 1344 2998/9909 1949/014 2998/1434 2998/14		3932 Nov 02 17:54	0° ∡ ¹			3933 Oct 28 07:46	0° ∡ ¹	
Seeming set 393 20c 07 2344 27*44394 Seeming set 393 30 No. 2 0 6009 11*35*52*2	evening max el	3932 Nov 21 05:53	23° ∡ ¹21'42	24°24'45	evening max el	3933 Nov 03 18:10	7° ҂ ¹03'32	25°37'54
Sex 1006 1932 1006 1910 2973 1111 1	retrograde	3932 Dec 02 13:44	29° ₰ 59'09		retrograde	3933 Nov 16 00:15	14° ∡ °04'55	
sime facth dist 3932 Dec 11 15:56 222**2217 0.67002 AU inification conj 933 Nov 21 15:01 59**215:85 92**111 02**121**11 02**121**122**12 minimum clong 933 Nov 28 16:12 57**53:27 02**121**11 02**121**121**12**12**12**13**12**13**13*	evening set	3932 Dec 07 23:44	27° ∡ ⁴43'34		evening set	3933 Nov 22 00:09	11° ∡ ³35′22	
Inferience of minimum elong 3932 Dec 3 11-11 221-74 1822 073375 minimum elong 3933 Dec 18 21 21 21 21 21 21 21	asc. node	3932 Dec 11 19:10	23° ⋌ 31'14		min. Earth dist.	3933 Nov 26 08:47	6° ₰ ⁴49'26	0.67068 AU
momenta mome	min. Earth dist.	3932 Dec 12 15:56	22° 尽 22'47	0.67702 AU	inferior conj	3933 Nov 27 15:01	5° ∡ 12'58	-0°21'35
morning rise 3932 Dec 18 21-04 15° 27° 1604 direct 3933 Dec 20 80°22 39°8 M.	inferior conj	3932 Dec 13 11:11	21° 尽 18′22	0°33'57	minimum elong	3933 Nov 27 15:35	5° √ 11'11	0°21'21
eirect 3932 Dec 2 1614 137-85332 morning max morning max 3932 Dec 3 09-32 187-8772 20°1151 direct 3933 Dec 11 0318 0°7-07 19°11144 desc node 3933 Jan 08 18:58 0°7-07 19°1673 morning max 3933 Dec 11 0318 0°7-07 19°11144 norning set 3933 Jan 26 50-66 26°58930 gracitact brillinanty 3933 Dec 11 0318 0°7-07 19°11144 max. Earth dist. 3933 Feb 10506 13°8-6146 1.43764 AU esc. node 3934 Jan 02 000 0°70 397-4111 4.4868 AU superior conj 3933 Feb 11 10-253 22°8-62'92 2°0-138 max. Earth dist. 3934 Ian 05 22:44 5°53156 max. Earth dist. 3934 Ian 05 22:44 6°7-07 max. Earth dist. 3934 Ian 10 2000 2°7-07 1406 8AU 9°8-1111 4.4868 AU 1406 8AU 9°8-1111 4.4868 AU 1406 8AU 9°8-111 4.4868 AU 1406 8AU 9°8-111 4.4868 AU 1406 8AU 9°8-111 4.4868 AU 1406 8AU 1406 8AU 1406 8AU 1406 8AU 1406 8AU 1406 8AU	minimum elong	3932 Dec 13 10:22	21° 尽 21'05	0°33'37	asc. node	3933 Nov 28 16:12	3° ∡ ¹53'27	
morning max el 3912 Dec 30 09.32 88°81727 20°1151 direct 3933 Dec 10 1432 28°811514 27°81717 19°1144 3933 Dec 11 0318 0°7°4 3933 Dec 13 1515 2°81071 19°1144 3933 Dec 13 1515 2°81071 3973 Dec 13 1515 3°81071 3°81071 3973 Dec 13 1515 3°81071 3973 Dec 13 1515 3°81071	morning rise	3932 Dec 18 21:04	15° ∡ 16′04			3933 Dec 02 08:29	30°RM₊	
Case node	direct	3932 Dec 22 16:14	13° ∡ 53'32		morning rise	3933 Dec 03 07:22	29° ™ 18′50	
Second 1933 Jan 1 20.58 13°E1631 19°1144 19°	morning max el	3932 Dec 30 09:32	18° ∡ 17′27	20°11'51	direct	3933 Dec 06 14:52	28° ™ 15'42	
morning set 3933 Au		3933 Jan 08 18:58	o°ප			3933 Dec 11 03:18	0° ∡ ¹	
max. Earth dist. 3933 Feb 06 05:06 13°sel146 1.43764 AU desc. node 3934 Jan 05 22:44 5°50175 superior conj 3933 Feb 12 00:18 22°se3929 - 2°04'38 max. Earth dist. 3934 Jan 19 20:07 27°5175 5°60175 cening rise 3933 Feb 12 10:33 22°se3929 - 2°04'38 max. Earth dist. 3934 Jan 19 20:07 27°5171 1.48668 AU cening rise 3933 Feb 16 10:19 0°H max. Earth dist. 3934 Jan 19 20:07 27°54171 1.44868 AU cening rise 3933 Mar 10 18:29 5°P5123 cening rise 3934 Jan 22 16:05 1°se4249 - 1°44'10 evening max ordering rise 3933 Mar 11 11:16 11°0°1729 18°09'23 cening rise 3934 Jan 22 16:05 1°se4249 - 1°44'10 evening sta 3933 Mar 11 11:16 11°0°1723 18°09'23 cening max 1 3934 Mar 12 16:00 0°18 1°40'18 evening sta 3933 Mar 11 11:16 11°0°1723 18°00'23 cening max 1 3934 Mar 13 30°4 1°50'35 18°28'25 minimum clong 3933 Mar 10 18:15 6°°P1'120 0626'21 AU inferior conj	desc. node	3933 Jan 17 20:58	13° ප 16'31		morning max el	3933 Dec 13 15:15	2° ∡ 10'17	19°11'44
max. Earth dist. 3933 Feb 06 05:06 13°sel146 1.43764 AU desc. node 3934 Jan 05 22:44 5°50175 superior conj 3933 Feb 12 00:18 22°se3929 - 2°04'38 max. Earth dist. 3934 Jan 19 20:07 27°5175 5°60175 cening rise 3933 Feb 12 10:33 22°se3929 - 2°04'38 max. Earth dist. 3934 Jan 19 20:07 27°5171 1.48668 AU cening rise 3933 Feb 16 10:19 0°H max. Earth dist. 3934 Jan 19 20:07 27°54171 1.44868 AU cening rise 3933 Mar 10 18:29 5°P5123 cening rise 3934 Jan 22 16:05 1°se4249 - 1°44'10 evening max ordering rise 3933 Mar 11 11:16 11°0°1729 18°09'23 cening rise 3934 Jan 22 16:05 1°se4249 - 1°44'10 evening sta 3933 Mar 11 11:16 11°0°1723 18°09'23 cening max 1 3934 Mar 12 16:00 0°18 1°40'18 evening sta 3933 Mar 11 11:16 11°0°1723 18°00'23 cening max 1 3934 Mar 13 30°4 1°50'35 18°28'25 minimum clong 3933 Mar 10 18:15 6°°P1'120 0626'21 AU inferior conj	morning set	3933 Jan 26 20:56	26° る 59'30		•	3933 Dec 27 14:43	21° 尽 07'41	-0.7m
max. Earth dist. 3933 Feb 10 6 05:06 13*eh 1446 1.43764 AU morning set morning	· ·	3933 Jan 28 19:31	0° ≈		· ·	3934 Jan 02 09:09	8°0	
superior conj 3933 Feb 12 00:18	max. Earth dist.	3933 Feb 06 05:06	13°≈14'46	1.43764 AU	desc. node	3934 Jan 04 17:59		
Superior conj 3933 Feb 12 00:18 22%-83929 2°04'38 max. Earth dist. 3934 Jan 19 20:07 27°514'11 1.44868 AU minimum clong 3933 Feb 16 10:19 0°H								
minimum elong 1933 Feb 1 1 20.53 22°≈2528 2°04'31 3934 m 21 14'07 0°≈ 1°44'10 0°3 1°45'1928 3933 Feb 1 6 10.19 0°4 1°44'110 3933 Feb 1 6 10.19 0°4 1°44'110 3933 Feb 1 6 10.19 0°4 1°44'110 3933 Mar 0 2 23.29 0°1° 0°1° 1°45'1928 3934 mar 2 2 0°2.81 1°560'893 1°43'28 3933 Mar 0 10 18.29 5°7° 15'13 3°5° 15'13 3934 Feb 1 6 10.60 (40 25°≈20'31 1°1° 10°10'10'10'10'10'10'10'10'10'10'10'10'10'1	superior coni	3933 Feb. 12, 00:18	22°≈39'29	-2°04'38	-			1 44868 AU
Cevening rise 3933 Feb 24 19-23 14°H 19-28 minimum clong 3934 Jan 22 16-08 1°24-69 1°44 19-28 3933 Mar 03 23-39 0°P° minimum clong 3934 Jan 22 16-08 1°24-69 1°44 18-10 1°14-70 18-20 19-30 19-30 18-30 19-30 1					man. Darm dist.			1.1.000110
Separation Sep	mmam viong			2 0.31		3,31,0411 21 11.07		
ase. node 3933 Mar 05 23:39	evening rise				superior coni	3934 Ian 22 16:05	1°≈≈42'49	-1°44'10
Second S	evening rise							
Sevening max el 3933 Mar 14 11:16 11°V41'29 18°09'23 asc. node 3934 Feb 24 15:30 23°H37'51 cevening max el 3934 Mar 24 11:53 28°H38'19 mínimum elong 3933 Apr 10 18:15 6°V1'420 0.6621 AU mínimum elong 3934 Mar 13 09:44 22°H1'430 3°36'37 morning rise 3933 Apr 15 05:29 35°N0'754 minimum elong 3934 Mar 13 09:40 22°H1'430 3°36'37 morning max el 3933 Apr 26 03:20 85°N3'138 27°50'34 direct 3934 Mar 19 04:03 16°H0'H1 morning set 3933 May 21 05:30 0°B morning max el 3933 May 20 15:51 0°B morning max el 3933 May 20 15:51 0°B morning set 3933 May 20 15:51 12°H1'259 1325'57 AU morning set 3934 May 10 16:30 17°H1'15'46 morning set 3934 May 10 16:30 17°H1'15'46 morning set 3933 May 30 05 17:47 14°H1'59'04 morning set 3934 May 15 16:30 0°B max. Earth dist. 3933 May 30 05 17:47 14°H1'59'04 morning set 3934 May 15 16:30 0°B max. Earth dist. 3933 May 30 05 17:47 14°H159'04 morning set 3934 May 15 16:30 0°B 17°H1'15'04 morning set 3934 May 15 16:30 0°B 18:30	asc node				Č			1 43 20
Section 1933 Mar 20 21:53 15°\$\tau\$0.00000000000000000000000000000000000				18000123	evening rise			
cevening set 3933 Mar 23 18.06 14°\(\tau2\) 2333 cevening max el 3934 Feb 25 23.31 25°\(\tau4\) 435 28°\(\tau2\) 536 28°\(\tau3\) 537 28°\(\tau3	•			18 09 23	asc node			
Inferior conj 3933 Mar 29 23:09 99°N 1706 3°31'32 retrograde 3934 Mar 04 11:53 28°H381'9 retrograde 3934 Mar 04 11:53 28°H381'9 retrograde 3934 Mar 04 11:53 28°H381'9 retrograde 3934 Mar 10 13:156 27°H4527 retrograde 3934 Mar 10 19:44 3°36'36 retrograde 3934 Mar 10 19:44 11:53 3°26'37 retrograde 3934 Mar 10 19:44 19:45 retrograde 3934 Mar 10 19:44 19:45 retrograde 3934 Mar 10 19:45 retrograde 3933 Mar 10 10:34 retrograde 3933 Mar 11 10:48 retrograde 3933 Mar 10 10:48 retrograde 3933 Mar	•							18028125
minimum clong	•			2021122				18 28 23
min. Earth dist. 3933 Apr 01 18:15 6°°C 14'20 0.62621 AU minferior conj 3934 Mar 13 09:44 22°°M 14'30 3°36'37 morning rise 3933 Apr 05 05:29 3°°C 17'51'34 min. Earth dist. 3934 Mar 15 13:40 19°M 42'17 0.64489 AU desc. node 3933 Apr 15 20:09 1°C 13'46 morning rise 3934 Mar 19 04:03 16°M 04'11 morning max el 3933 Apr 15 20:09 1°C 13'46 morning rise 3934 Mar 19 04:03 16°M 04'11 morning max el 3933 Apr 26 03:20 8°C 13'138 27°50'34 direct 3934 Mar 25 22:57 13°M 15'15 16°M 04'11 morning set 3934 Mar 25 22:57 13°M 15'15 16°M 04'11 morning set 3934 Mar 25 22:57 13°M 15'15 16°M 16°M 10'15 11°M 10'15 16°M 10'15 11°M	v				-			
morning rise direct 3933 Apr 10 5 05:29 3°P(0754 minimum elong direct 3934 Apr 13 09:19 22°H 15'43 3°36'36' direct 3933 Apr 12 02:43 0°P(33'18 minimal elong morning max el 3933 Apr 12 00:20 1°P(13'46 morning max el 3933 Apr 12 00:20 8°P(31'18 27°50'34 direct 3934 Mar 25 22:57 13°H 15'15 3933 May 12 16:30 0°B desc. node 3934 Mar 25 22:57 13°H 15'15 3933 May 29 13:51 0°B morning max el 3934 Apr 16 04:52 0°P(10'05 morning set 3933 May 29 13:51 0°B morning max el 3934 Apr 16 04:52 0°P(10'05 morning set 3933 May 30 02:56 1°B 105'54 morning set 3933 May 30 02:56 1°B 105'54 morning set 3933 May 10 04 14:34 12°B 32'39 1.32557 AU morning set 3934 May 13 19:21 14°B 5'14 morning set 3933 May 10 06 16:50 17°B 104'37 0°10'08 morning set 3934 May 18 140:2 24°B 20'70 1.33453 AU 3933 May 10 06 16:30 17°B 102'00 0°10'02 behind sun end 3933 Jun 06 16:30 17°B 102'00 0°10'02 behind sun end 3933 Jun 13 15:37 2°B 07'07 evening rise 3934 May 21 12:44 1°B 13'47 0°17'35 evening max el 3933 Jun 13 15:37 2°B 07'07 evening rise 3934 May 23 02:53 16°B 15'04'3 0°10'04 evening max el 3933 Jun 12 112:38 17°B 08'54 evening set 3934 Jun 12 10'25 14°B 5'14 evening set 3934 Jun 12 10'25 12°B 07'07 evening set 3934 Jun 12 10'25 12°B 07'07 evening set 3934 Jun 12 10'25 12°B 07'07 evening set 3934 Jun 12 10'25 27°B 20'03 evening set 3933 Jun 12 112'38 17°B 08'04 evening set 3934 Jun 12 10'25 27°B 20'03 evening set 3933 Jun 12 112'38 12°B 08'04 evening max el 3933 Aug 10 5:34 12°B 08'04 evening set 3934 Aug 12 10'35 23°B 30'04 21°912' 10'04' evening max el 3933 Aug 10 5:34 12°B 08'04 evening set 3934 Aug 10 6'05 08'05 evening max el 3933 Aug	Č				-			2026127
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	superior conj	5955 Sep 19 12:25	21°11 ي 36'13	1-45-12				

superior conj	3934 Sep 03 10:11	11° m p 55'31	1°43'42	morning set	3935 Aug 11 13:07	11° Ω 26'08	
minimum elong	3934 Sep 03 09:37	11° m 52'31	1°43'41	Č	C		
max. Earth dist.	3934 Sep 07 15:36	20° m/32'07	1.35248 AU	superior conj	3935 Aug 18 14:50	26° Ω 34'13	1°37'37
evening rise	3934 Sep 11 21:21	28° m 47'11		minimum elong	3935 Aug 18 13:11	26° Ω 25'25	1°37'29
	3934 Sep 12 12:47	0∘ 亚			3935 Aug 20 05:33	0° m	
desc. node	3934 Sep 25 15:46	22° ≏ 35'42		max. Earth dist.	3935 Aug 21 10:52	2°M 34'09	1.33823 AU
	3934 Sep 30 13:09	0°M₊		evening rise	3935 Aug 26 08:27	12°M 32'54	
evening max el	3934 Oct 17 06:35	20°M43'06	26°37'20		3935 Sep 04 19:15	0∘ ⊽	
retrograde	3934 Oct 30 05:42	27°M57'48		desc. node	3935 Sep 12 12:47	12° ≏ 28'50	
evening set	3934 Nov 05 18:34	25°M18'42			3935 Sep 25 18:04	0° M	
min. Earth dist.	3934 Nov 09 20:17	21°ML08'24	0.66088 AU	evening max el	3935 Sep 29 18:55	4°M11'15	27°15'45
inferior conj	3934 Nov 11 14:03	19°M03'54	-1°20'55	retrograde	3935 Oct 13 05:25	11°M29'33	
minimum elong	3934 Nov 11 16:17	18°M57'15	1°19'59	evening set	3935 Oct 20 04:35	8°M48'20	
asc. node	3934 Nov 15 13:14	14°M48'19		min. Earth dist.	3935 Oct 24 00:11	5°M13'04	0.64753 AU
morning rise	3934 Nov 17 14:42	13°M20'25		inferior conj	3935 Oct 26 06:00	2°M46'06	-2°22'14
direct	3934 Nov 20 12:36	12°M32'57		minimum elong	3935 Oct 26 10:00	2°M35'09	2°20'41
morning max el	3934 Nov 27 03:15	16°M09'06	18°27'27		3935 Oct 28 21:56	30°Ŗ Ω	
	3934 Dec 07 09:18	0° ∡ ¹		morning rise	3935 Nov 01 16:31	27° ≏ 16'18	
morning set	3934 Dec 17 01:17	15° ≯ 21'56		asc. node	3935 Nov 02 10:17	26° ≏ 59'02	
desc. node	3934 Dec 22 15:01	24° ∡ 15'32		direct	3935 Nov 04 07:15	26° ≏ 40'34	
	3934 Dec 26 05:57	0°ಕ			3935 Nov 10 15:56	0° M	
		_		morning max el	3935 Nov 10 18:58	0°M07'31	18°00'02
superior conj	3935 Jan 01 18:37	10° る 16'24		morning set	3935 Nov 28 09:22	26°M39'47	
minimum elong	3935 Jan 01 10:39	9° ප 45'11	1°04'45		3935 Nov 30 09:18	0° ∡	
max. Earth dist.	3935 Jan 02 14:24	11° る 34'01	1.45262 AU	desc. node	3935 Dec 09 12:04	14° ≯ 58′22	
	3935 Jan 14 08:14	0° ≈				_	
evening rise	3935 Jan 17 18:35	5°≈24'52		superior conj	3935 Dec 12 04:28	19° √ 17'12	
greatest brilliancy	3935 Jan 27 13:44	20°≈51'12	-0.8m	minimum elong	3935 Dec 12 02:13	19° ₹ 08'13	0°18'03
	3935 Feb 02 15:09	0° ∀		max. Earth dist.	3935 Dec 16 09:24	25° ₹ 58'10	1.44916 AU
evening max el	3935 Feb 09 09:09	8°) ₹33'34	19°05'12		3935 Dec 18 22:54	0°る	
asc. node	3935 Feb 11 12:31	10° ¥ 29'59		evening rise	3935 Dec 28 11:13	14° ප් 46'37	
retrograde	3935 Feb 16 07:13	12° ∺ 28'53 11° ∺ 23'13			3936 Jan 07 10:08	0°≈ (°≈ •20!24	0.6
evening set	3935 Feb 19 15:53	5°\(\frac{11}{35}\);53	2925157	greatest brilliancy	3936 Jan 11 15:53	6°≈20'34	-0.6m
inferior conj	3935 Feb 25 05:32	5° χ 3333	3°25'57 3°25'45	evening max el asc. node	3936 Jan 23 14:26 3936 Jan 29 09:33	22°≈05'31	19°57'56
minimum elong min. Earth dist.	3935 Feb 25 03:54 3935 Feb 26 18:04	3° X 41′04 3° X 39′56	0.65980 AU	retrograde	3936 Jan 29 09:33 3936 Jan 31 04:58	26°≈13'38 26°≈31'21	
iiiii. Eartii tist.	3935 Mar 01 23:30	3 / (3930	0.03980 AU	evening set	3936 Feb 03 21:36	20 ≈3121 25°≈11'45	
morning rise	3935 Mar 01 25:34	30 k∞ 29°≈22'32		inferior conj	3936 Feb 09 07:37	23 ≈11 43 19°≈10'20	3°03'15
direct	3935 Mar 09 02:01	29 ≈22 32 26°≈32'56		minimum elong	3936 Feb 09 07:37 3936 Feb 09 05:18	19 ≈10 20 19°≈18'06	
direct	3935 Mar 17 06:29	0° H		min. Earth dist.	3936 Feb 10 05:52	17°≈55'50	
desc. node	3935 Mar 20 14:12	2° ¥ 50′56		morning rise	3936 Feb 14 12:47	12°≈56'26	0.07030710
morning max el	3935 Mar 21 22:41	4°) 10′28	26°26'55	direct	3936 Feb 20 10:46	12 ≈30 20 10°≈17'45	
morning max or	3935 Apr 10 14:49	0°Υ	20 20 33	morning max el	3936 Mar 03 07:31		25°09'42
morning set	3935 Apr 26 23:54	27° Ƴ 59'00		desc. node	3936 Mar 06 11:14	20°≈47'03	25 05 .2
	3935 Apr 28 01:29	0°8			3936 Mar 13 20:36	0°) €	
max. Earth dist.	3935 May 01 02:17	5° 8 52'27	1.34817 AU		3936 Apr 02 14:42	$_{0}^{\circ}\gamma$	
	j	_		morning set	3936 Apr 08 11:57	10° Ƴ 14'27	
superior conj	3935 May 05 20:04	15° 8 25'28	-0°46'50	max. Earth dist.	3936 Apr 12 03:32	16° Ƴ 54'54	1.36623 AU
minimum elong	3935 May 05 22:33	15° 8 38'17	0°46'22		•		
asc. node	3935 May 10 11:50	25° 8 06'27		superior conj	3936 Apr 18 09:01	28° Y 52'36	-1°15'22
	3935 May 12 20:07	$\Pi^{\circ}0$		minimum elong	3936 Apr 18 12:59	29° Y 12'12	1°14'45
evening rise	3935 May 13 11:39	1° Ⅱ 20′32			3936 Apr 18 22:39	9° 8	
	3935 May 30 09:28	0° ©		asc. node	3936 Apr 26 08:53	14° 8 57'43	
evening max el	3935 Jun 01 09:43	2°507'34	20°49'04	evening rise	3936 Apr 26 15:45	15° 8 32'22	
retrograde	3935 Jun 12 21:11	7°5544'23			3936 May 04 04:43	$\Pi^{\circ}0$	
evening set	3935 Jun 14 23:39	7° © 33'49		evening max el	3936 May 13 21:42	13° Ⅱ 34'46	19°38'28
desc. node	3935 Jun 16 13:27	7° © 12'50		retrograde	3936 May 23 15:07	18° Ⅱ 18'31	
inferior conj	3935 Jun 24 07:07	3°536'33	-2°15'28	evening set	3936 May 25 14:19	18° Ⅱ 07'46	
minimum elong	3935 Jun 24 00:51	3° 5 45'29		desc. node	3936 Jun 02 10:27	14° Ⅱ 38′29	
min. Earth dist.	3935 Jun 25 03:57		0.54866 AU	inferior conj	3936 Jun 03 08:15	14° Ⅱ 04′26	
	3935 Jul 01 13:54	30°RⅡ		minimum elong	3936 Jun 03 07:32	14° Ⅱ 05'34	
morning rise	3935 Jul 03 01:41	29° Ⅲ 32'57		transit middle	3936 Jun 03 07:32	14° Ⅱ 05'34	0°15'50
direct	3935 Jul 06 16:57	29° Ⅱ 04′26		transit begin	3936 Jun 03 07:00	14° ∏ 06′25	
	3935 Jul 11 16:16	0°€		transit end	3936 Jun 03 08:05	14° Ⅱ 04'43	
morning max el	3935 Jul 19 19:06		22°58'03	min. Earth dist.	3936 Jun 05 17:28	12° Ⅲ 34'51	0.55630 AU
	3935 Aug 05 20:58	0 $^{\circ}\Omega$		morning rise	3936 Jun 11 22:16	9° Ⅲ 31'01	
asc. node	3935 Aug 06 11:06	1° Ω 07'48		direct	3936 Jun 16 09:55	8° Ⅱ 46′08	

morning max el	3936 Jun 30 09:12	15° Ⅱ 45'54	24°41'04		3937 Jun 15 13:51	0° I I	
morning max ci	3936 Jul 11 18:50	0°95	24 41 04		3937 Jul 04 23:28	0°©	
asc. node	3936 Jul 23 08:09	20°543'38		morning set	3937 Jul 10 11:55	11°9510'40	
morning set	3936 Jul 26 00:53	26°919'55		asc. node	3937 Jul 10 05:13	10°935'24	
	3936 Jul 27 18:06	0°N					
				superior conj	3937 Jul 17 11:09	26°520'00	1°09'34
superior conj	3936 Aug 01 23:50	11° Ω 24'34	1°25'58	minimum elong	3937 Jul 17 08:50	26°907'14	1°09'12
minimum elong	3936 Aug 01 21:37	11° Ω 12′25	1°25'41	max. Earth dist.	3937 Jul 18 00:26	27° 5 33'09	1.32216 AU
max. Earth dist.	3936 Aug 03 14:44	14° Ω 55'48	1.32815 AU		3937 Jul 19 03:09	$0^{\circ}\Omega$	
evening rise	3936 Aug 09 05:41	26° Ω 47'22		evening rise	3937 Jul 24 09:58	11° Ω 21'30	
	3936 Aug 10 19:50	0° m			3937 Aug 03 00:44	0° ™	
	3936 Aug 28 03:26	0∘ ⊽		desc. node	3937 Aug 16 06:49	20° m 25'43	
desc. node	3936 Aug 29 09:48	1° ≏ 49'50		evening max el	3937 Aug 24 11:32	29° m 42'04	27°04'33
evening max el	3936 Sep 11 05:30	17° ≙ 15′26	27°26'23		3937 Aug 24 19:11	0∘ ⊽	
retrograde	3936 Sep 24 22:34	24° ≏ 31'15		retrograde	3937 Sep 07 08:25	6° £ 54'15	
evening set	3936 Oct 02 03:03	21° ≏ 57'55		evening set	3937 Sep 14 10:00	4° ≏ 40'57	
min. Earth dist.	3936 Oct 05 18:23	18° ≙ 54'07	0.63087 AU	min. Earth dist.	3937 Sep 18 01:49	1° ≏ 59'25	0.61149 AU
inferior conj	3936 Oct 08 12:08	16° ≏ 12'58	-3°22'35		3937 Sep 20 09:20	30°R, Mp	
minimum elong	3936 Oct 08 17:36	15° ≏ 59'30	3°20'50	inferior conj	3937 Sep 21 05:16	29° Mp 16'28	-4°17'02
morning rise	3936 Oct 15 09:38	11° ≏ 00'15		minimum elong	3937 Sep 21 11:09	29° m 03'44	4°15'40
direct	3936 Oct 17 19:51	10° ≏ 32'36		morning rise	3937 Sep 28 14:06	24° m 24'29	
asc. node	3936 Oct 19 07:21	10° ≙ 43′08		direct	3937 Sep 30 22:44	24°M 01'54	
morning max el	3936 Oct 24 11:30	13° ≏ 58'34	17°50'15	asc. node	3937 Oct 06 04:25	25° m 57'58	
	3936 Nov 04 12:17	0° M ₊		morning max el	3937 Oct 08 01:46	27° m 35'05	17°59'04
morning set	3936 Nov 09 17:58	9°M08'29			3937 Oct 10 06:19	0ಂ ಹ	
				morning set	3937 Oct 23 20:37	22° ≏ 28'46	
superior conj	3936 Nov 21 13:23	29°M26'54			3937 Oct 27 22:51	0° M ₊	
minimum elong	3936 Nov 21 15:58	29°M37'41	0°26'00				
	3936 Nov 21 21:20	0° ∡ ¹		superior conj	3937 Nov 03 01:04	10°M55'20	1°01'37
desc. node	3936 Nov 25 09:06	5° ∡ ¹45'01		minimum elong	3937 Nov 03 05:14	11°M13'39	1°01'05
max. Earth dist.	3936 Nov 28 02:35	10° ∡ 10′05	1.43876 AU	max. Earth dist.	3937 Nov 10 15:14	23°M52'10	1.42265 AU
evening rise	3936 Dec 06 20:44	23° ₹ 57'17		desc. node	3937 Nov 12 06:09	26°M32'26	
	3936 Dec 10 19:24	ව°0 0°			3937 Nov 14 09:14	0° ∡ 7	
. ,	3936 Dec 31 17:13	0° ≈	21002150	evening rise	3937 Nov 16 15:23	3° ∡ ³36'38	
evening max el	3937 Jan 05 14:17	5°≈38'26	21°03'58		3937 Dec 04 04:51	0°る	22010127
retrograde	3937 Jan 14 02:52	10°≈41'18		evening max el	3937 Dec 19 08:45	19°る12'51 24°る55'39	22°19'27
asc. node	3937 Jan 15 06:36	10°≈34'01		retrograde	3937 Dec 28 23:16	24°63339 23° る 22'52	
evening set	3937 Jan 18 05:05 3937 Jan 23 13:31	9°≈06'37 2°≈53'45	2020157	asc. node	3938 Jan 02 03:38 3938 Jan 02 12:42	23°る22'52 23°る05'01	
inferior conj minimum elong	3937 Jan 23 13:31 3937 Jan 23 11:01	2 ≈33 43 3°≈02'19		evening set inferior conj	3938 Jan 07 21:11	23 3 0301 16° 3 44'01	1°50'43
min. Earth dist.	3937 Jan 23 22:53	2°≈21'25		minimum elong	3938 Jan 07 21:11	16° ろ 51'35	1°49'55
mm. Lattii dist.	3937 Jan 25 16:59	2 ~21 23 30°Rる	0.07721 AC	min. Earth dist.	3938 Jan 07 18:56	16°る51'50	
morning rise	3937 Jan 28 16:47	26° පි 40'56		morning rise	3938 Jan 13 01:12	10°る33'47	0.07777 AO
direct	3937 Feb 03 00:19	24° る 20'59		direct	3938 Jan 17 17:51	8° ਰ 36'14	
ancet	3937 Feb 12 23:15	0°≈		morning max el	3938 Jan 27 03:30	14° る 07'56	22°13'53
morning max el	3937 Feb 13 16:07		23°42'06	desc. node	3938 Feb 08 05:21	29° ට 04'15	
desc. node	3937 Feb 21 08:17	9° ≈ 36'24			3938 Feb 08 21:23	0° ≈	
	3937 Mar 07 18:57	0°) €			3938 Feb 28 18:24	0°) €	
morning set	3937 Mar 21 01:27	21° ∺ 21'14		morning set	3938 Mar 01 11:02	1°) €07'15	
max. Earth dist.	3937 Mar 24 23:05	28° ∺ 07'10	1.38734 AU	max. Earth dist.	3938 Mar 06 20:22	10°) 01'11	1.40903 AU
	3937 Mar 26 00:32	$0^{\circ}\mathbf{\Upsilon}$					
				superior conj	3938 Mar 14 15:00	23°) 30′13	-1°59'58
superior conj	3937 Apr 01 08:52	11° Y 37'52	-1°40'57	minimum elong	3938 Mar 14 18:46	23°) 47′05	
minimum elong	3937 Apr 01 13:36	12° Y ′00′09	1°40'25		3938 Mar 18 05:16	$0^{\circ}\mathbf{\Upsilon}$	
evening rise	3937 Apr 10 12:26	29° Ƴ 17'26		evening rise	3938 Mar 24 22:24	12° Ƴ 27'47	
	3937 Apr 10 21:11	9° 8		asc. node	3938 Mar 31 02:57	23° Y 49'51	
asc. node	3937 Apr 13 05:55	4° 8 34'00			3938 Apr 03 18:43	9° 8	
evening max el	3937 Apr 26 20:40	25° 8 41'34	18°47'51	evening max el	3938 Apr 10 03:30	8° 8 20'56	18°17'29
retrograde	3937 May 05 01:39	29° 8 42'40		retrograde	3938 Apr 17 07:16	11° 8 55'12	
evening set	3937 May 07 05:42	29° 8 26'54		evening set	3938 Apr 19 17:49	11° 8 31'13	
inferior conj	3937 May 15 03:58	25° 8 06'35	1°26'47	inferior conj	3938 Apr 26 21:13	6° 8 50'37	2°38'27
minimum elong	3937 May 15 07:00	25° 8 01'03	1°25'48	minimum elong	3938 Apr 27 00:49	6° 8 42'55	2°37'35
min. Earth dist.	3937 May 18 09:52	22° 8 45'13	0.57186 AU	min. Earth dist.	3938 Apr 30 07:28	3° 8 55'57	0.59228 AU
desc. node	3937 May 20 07:28	21° 8 30'00		morning rise	3938 May 04 05:02	1° 8 12'30	
morning rise	3937 May 23 05:04	19° 8 57'43			3938 May 06 21:53	30° ₹Ƴ	
direct	3937 May 28 16:13	18° 8 45'10		desc. node	3938 May 07 04:30	29° Ƴ 54'47	
morning max el	3937 Jun 12 00:29	26° 8 14'40	26°13'11	direct	3938 May 10 12:06	29° Y 24'48	

	3938 May 14 04:34	0°8		morning max el	3939 May 07 00:19	18° Ƴ 52'32	27°49'56
morning max el	3938 May 24 21:16	7° 8 12'59	27°19'16	morning max cr	3939 May 16 09:48	0° 8	27 47 50
morning max or	3938 Jun 11 00:19	0°II	2, 1, 10		3939 Jun 03 19:31	0°II	
morning set	3938 Jun 24 20:27	25° I 52'17		morning set	3939 Jun 09 00:39	10° Ⅱ 18'43	
	3938 Jun 26 19:18	0°ಅ		asc. node	3939 Jun 13 23:16	20° Ⅱ 44'33	
asc. node	3938 Jun 27 02:15	0° © 37'13		max. Earth dist.	3939 Jun 14 22:08	22° Ⅱ 48'25	1.32238 AU
superior conj	3938 Jul 01 22:55	11°5914'04	0°49'07	superior conj	3939 Jun 16 09:27	26° Ⅱ 01′08	0°25'13
minimum elong	3938 Jul 01 20:58	11° © 03'20	0°48'45	minimum elong	3939 Jun 16 08:19	25° Ⅲ 54'56	0°24'59
max. Earth dist.	3938 Jul 01 12:09	10° © 14'46	1.32022 AU		3939 Jun 18 05:02	0 \circ \odot	
evening rise	3938 Jul 08 18:46	26°906'47		evening rise	3939 Jun 23 06:01	10° © 56'39	
	3938 Jul 10 15:19	$0 ^{\circ} \Omega$			3939 Jul 02 22:54	0 $^{\circ}\Omega$	
	3938 Jul 27 20:11	0° m		evening max el	3939 Jul 19 02:26	22° Ω 14'16	24°47'53
desc. node	3938 Aug 03 03:49	7° m 57'23	2.000112	desc. node	3939 Jul 21 00:48	23° Ω 58'56	
evening max el	3938 Aug 06 10:30	11° m/20'49	26°09'43	retrograde	3939 Aug 02 00:48	29° Ω 16'57 28° Ω 14'23	
retrograde evening set	3938 Aug 20 09:53 3938 Aug 26 20:33	18° Mp 30'03 16° Mp 48'56		evening set min. Earth dist.	3939 Aug 07 06:58 3939 Aug 12 13:49	28° Ω 26'41	0.57128 AU
min. Earth dist.	3938 Aug 20 20:33 3938 Aug 30 23:17	10 m/48 30 14° m/13'44	0.59078 AU	inferior conj	3939 Aug 12 13:49 3939 Aug 15 10:40	$23^{\circ}\Omega 34'01$	
inferior conj	3938 Aug 30 25:17 3938 Sep 03 05:45	14 m/1344 11° m/46'15		minimum elong	3939 Aug 15 10:40 3939 Aug 15 09:51	23° Ω 35'22	
minimum elong	3938 Sep 03 09:47	11° mp 38'37	4°56'44	morning rise	3939 Aug 23 15:14	19° Ω 26'41	3 10 02
morning rise	3938 Sep 11 01:15	7° m) 17'14	1 30 11	direct	3939 Aug 26 05:42	19° Ω 07'35	
direct	3938 Sep 13 11:19	6° m 57'21		morning max el	3939 Sep 04 10:16	23°Ω26'03	19°17'39
morning max el	3938 Sep 21 10:27	10° mp 47'28	18°27'45	asc. node	3939 Sep 09 22:31	0° m 03'03	
asc. node	3938 Sep 23 01:28	12° m 29'36			3939 Sep 09 21:40	0° m/y	
	3938 Oct 04 03:07	0∘ 		morning set	3939 Sep 21 12:04	20° m/45'32	
morning set	3938 Oct 07 11:56	6° £ 24'34			3939 Sep 26 02:59	0° ⊽	
superior conj	3938 Oct 16 11:32	23° ≙ 30'06	1°25'41	superior conj	3939 Sep 29 15:20	6° ≙ 55'43	1°39'24
minimum elong	3938 Oct 16 11:32	23° ⊆ 46'14	1°25'21	minimum elong	3939 Sep 29 17:14	7° ⊆ 04'54	1°39'18
minimum crong	3938 Oct 20 01:03	0°M.	1 23 21	max. Earth dist.	3939 Oct 06 02:15	19° Ω 06'59	1.38201 AU
max. Earth dist.	3938 Oct 23 22:10	6°M50'13	1.40287 AU	evening rise	3939 Oct 09 20:49	25° £ 51'54	1.50201710
evening rise	3938 Oct 28 06:24	14°ML12'01		0.0000	3939 Oct 12 06:15	0°M	
desc. node	3938 Oct 30 03:10	17°ML16'29		desc. node	3939 Oct 17 00:10	7°M53'20	
	3938 Nov 07 04:42	0°⊀			3939 Oct 31 19:03	0°⊀	
	3938 Nov 29 07:03	0°ರ		evening max el	3939 Nov 14 11:48	16° х 30′39	24°57'09
evening max el	3938 Dec 01 23:12	2° る 49'48	23°39'21	retrograde	3939 Nov 26 06:01	23° х 20′05	
retrograde	3938 Dec 12 16:42	9° ප 10'01		evening set	3939 Dec 01 21:47	20° ≯ 58′24	
evening set	3938 Dec 17 18:48	7° る 03'20		min. Earth dist.	3939 Dec 06 10:42	15° ₹ 52'01	0.67468 AU
asc. node	3938 Dec 20 00:40	4° ප 46'18		asc. node	3939 Dec 06 21:43	15° ≯ 15'50	
min. Earth dist.	3938 Dec 22 15:40	1° ろ 23'00	0.67905 AU	inferior conj	3939 Dec 07 10:31	14° ∡ ³33'37	
inferior conj	3938 Dec 23 04:47	0°₹38'11	1°03'42	minimum elong	3939 Dec 07 10:15	14° 🗷 34'31	0°10'50
minimum elong	3938 Dec 23 03:21	0°る43'05	1°03'07	transit middle	3939 Dec 07 10:15	14° 🗷 34'31	0°10'50
morning rise	3938 Dec 23 15:59	30°Ŗ ⋌ 24° ⋌ 32'17		transit begin transit end	3939 Dec 07 08:11	14° ₹ 41'18 14° ₹ 27'45	
morning rise direct	3938 Dec 28 11:53 3939 Jan 01 14:25	24 × 32 17 22° × 57'31		morning rise	3939 Dec 07 12:18 3939 Dec 12 22:53	8° ₹ 34'15	
morning max el	3939 Jan 01 14.23	27° х 44'00	20°52'56	direct	3939 Dec 12 22:33 3939 Dec 16 12:49	7° ₹ 20'21	
morning max cr	3939 Jan 11 23:45	0°る	20 32 30	morning max el	3939 Dec 23 22:07	11° х 30'49	19°44'21
desc. node	3939 Jan 26 02:24	18° る 59'42		greatest brilliancy	3940 Jan 06 02:18	28° х 53'02	-0.7m
	3939 Feb 02 11:08	0° ≈		e ,	3940 Jan 06 20:21	0°ರ	
morning set	3939 Feb 08 17:47	9° ≈ 40'16		desc. node	3940 Jan 12 23:26	9° ට 14'51	
max. Earth dist.	3939 Feb 17 00:04	22° ≈ 49'30	1.42843 AU	morning set	3940 Jan 18 13:48	17° る 50'26	
	3939 Feb 21 08:44	0°)			3940 Jan 26 09:19	0° ≈	
				max. Earth dist.	3940 Jan 30 11:15	6° ≈ 26'36	1.44310 AU
superior conj	3939 Feb 23 22:24	4° ₩ 18'43					
minimum elong	3939 Feb 23 22:23	4°) 18′39	2°07'34	superior conj	3940 Feb 04 03:54	13° ≈ 57'37	
evening rise	3939 Mar 07 17:38	24°) 54′24		minimum elong	3940 Feb 03 21:54	13°≈33'24	1°58'05
	3939 Mar 10 14:12	0° Υ			3940 Feb 13 21:41	0°) (27/50	
asc. node	3939 Mar 17 23:58	12° Υ 38'36	1000/153	evening rise	3940 Feb 17 17:37	6° 米 27'59 0° Υ	
evening max el	3939 Mar 24 14:54	21° Y 24'18 24° Y 47'21	18°06'52	asa nada	3940 Mar 03 05:53	0° Υ 51'01	
retrograde evening set	3939 Mar 31 04:50 3939 Apr 02 21:36	24° \gamma $4/21$ 24° \gamma $13'02$		asc. node evening max el	3940 Mar 03 20:59 3940 Mar 07 03:42	0° γ 51 01 4° γ 42'33	18°15'19
inferior conj	3939 Apr 09 09:43	19° Y 12'10	3°19'27	retrograde	3940 Mar 13 13:58	4 1 42 33 8° Υ 08'27	10 13 17
minimum elong	3939 Apr 09 12:00	19 γ 12 10 19° γ 06'32	3°19'08	evening set	3940 Mar 16 12:37	7° Υ 22'33	
min. Earth dist.	3939 Apr 12 12:28	16° Υ 09'02	0.61413 AU	inferior conj	3940 Mar 10 12:37 3940 Mar 22 13:21	2° Υ 02'17	3°35'51
morning rise	3939 Apr 16 00:33	13° Υ 15'32		minimum elong	3940 Mar 22 13:52	2° Υ 00'51	3°35'50
direct	3939 Apr 22 19:23	10° Υ 54'53			3940 Mar 24 09:18	30° ₹	
desc. node	3939 Apr 24 01:32	10° Ƴ 59'26		min. Earth dist.	3940 Mar 25 02:18	29° ∺ 13'52	0.63459 AU

morning rise	3940 Mar 28 14:08	25° ¥ 55'35		minimum elong	3941 Mar 06 03:17	15° ∺ 17'12	3°33'40
direct	3940 Apr 04 11:30	23° 升 12′52		min. Earth dist.	3941 Mar 08 01:31	12° ¥ 56'38	0.65178 AU
desc. node	3940 Apr 09 22:35	24°) (40′04		morning rise	3941 Mar 11 18:40	9°) €02'30	
	3940 Apr 17 02:50	0° Y		direct	3941 Mar 18 10:40	6° ∺ 11'49	
morning max el	3940 Apr 18 07:55	1° Ƴ 10'52	27°43'06	desc. node	3941 Mar 27 19:38	10° ¥ 25'14	
	3940 May 09 13:18	8°		morning max el	3941 Mar 31 17:42	13° ¥ 59'47	27°02'37
morning set	3940 May 22 22:08	24° 8 21'36			3941 Apr 13 17:17	0° Y	
-	3940 May 25 16:47	$\Pi^{\circ}0$			3941 May 02 05:21	0°B	
max. Earth dist.	3940 May 28 02:21	5° Ⅱ 00'40	1.32885 AU	morning set	3941 May 06 09:59	7° 8 52'27	
	•			max. Earth dist.	3941 May 10 21:24	16° 8 43'36	1.33986 AU
superior conj	3940 May 30 16:54	10° Ⅲ 34'21	-0°01'29		,		
minimum elong	3940 May 30 16:59	10° Ⅱ 34'44	0°01'29	superior conj	3941 May 14 19:15	24° 8 47'44	-0°30'01
behind sun begin	3940 May 30 11:42	10° Ⅱ 06′20		minimum elong	3941 May 14 20:50	24° 8 55'58	
behind sun end	3940 May 30 22:16	11° I 03'11			3941 May 17 06:29	0°II	0 27 .5
asc. node	3940 May 30 20:17	10° I 52'32		asc. node	3941 May 17 00:29	0° П 57'20	
evening rise	3940 Jun 06 17:48	25° I I43'53		evening rise	3941 May 22 04:17	10° Ⅲ 22'44	
evening rise	3940 Jun 08 18:43	0°95		evening rise	3941 Jun 01 10:39	0°95	
	3940 Jun 27 02:18	0°Ω		arranina may al	3941 Jun 11 09:20	13° © 11'51	21927124
	3940 Jun 27 02.18 3940 Jun 29 15:30	0 δι 2°Ω40'41	22011157	evening max el			21 3/34
evening max el		• • •	23-11-57	retrograde	3941 Jun 23 18:04	19°517'44	
desc. node	3940 Jul 06 21:48	7° Ω 56'40		desc. node	3941 Jun 23 18:50	19°5017'44	
retrograde	3940 Jul 13 02:51	9° £ 24′25		evening set	3941 Jun 26 06:16	19°503'29	
evening set	3940 Jul 16 20:45	8° Ω 53'46		inferior conj	3941 Jul 05 15:18	15° © 02'21	
min. Earth dist.	3940 Jul 24 00:55	5° Ω 38'41	0.55621 AU	minimum elong	3941 Jul 05 07:02	15° © 13'55	
inferior conj	3940 Jul 25 19:50	4° Ω 35'58		min. Earth dist.	3941 Jul 05 11:31	15° © 07'38	0.54876 AU
minimum elong	3940 Jul 25 13:08	4° Ω 45'48	4°38'44	morning rise	3941 Jul 14 08:54	11° © 09'05	
morning rise	3940 Aug 03 07:52	0° Ω 43'17		direct	3941 Jul 17 16:08	10° © 45'20	
direct	3940 Aug 06 05:20	0° Ω 23′10		morning max el	3941 Jul 29 23:25	16° © 32'42	22°00'02
morning max el	3940 Aug 16 22:38	5° Ω 21'51	20°29'15		3941 Aug 09 11:05	$0 {\circ} \Omega$	
asc. node	3940 Aug 26 19:33	18° Ω 24'16		asc. node	3941 Aug 13 16:35	7° Ω 21'39	
	3940 Sep 02 01:59	O° Mp		morning set	3941 Aug 20 03:50	20° Ω 13′00	
morning set	3940 Sep 04 18:07	5° Mp 23′54			3941 Aug 24 18:51	0° m	
superior conj	3940 Sep 12 07:39	20° m 58'30	1°44'18	superior conj	3941 Aug 27 08:41	5° Mp 27′04	1°41'51
minimum elong	3940 Sep 12 07:53	20° m 59'42	1°44'17	minimum elong	3941 Aug 27 07:35	5°Mp21'21	1°41'48
•	3940 Sep 16 20:26	0∘ ⊽		max. Earth dist.	3941 Aug 30 23:35	12° m 57'38	1.34595 AU
max. Earth dist.	3940 Sep 17 09:11	1° ഫ 01'50	1.36245 AU	evening rise	3941 Sep 04 11:37	21° m 54'15	
evening rise	3940 Sep 21 08:01	8° ഫ 29'52		Č	3941 Sep 08 19:11	0∘ ⊽	
desc. node	3940 Oct 02 21:09	28° ჲ 18'32		desc. node	3941 Sep 19 18:10	18° ≏ 25'50	
	3940 Oct 03 22:50	0°M.			3941 Sep 27 17:40	0°M	
	3940 Oct 26 18:50	0° ∡ 7		evening max el	3941 Oct 09 12:55	13°M49'42	26°56'43
evening max el	3940 Oct 27 00:18	0° ≯ 13'19	26°05'28	retrograde	3941 Oct 22 17:11	21°M06'09	
retrograde	3940 Nov 08 14:20	7° × ⁷ 21'09	20 00 20	evening set	3941 Oct 29 11:01	18°M25'05	
evening set	3940 Nov 14 19:53	4° × ⁷ 47'11		min. Earth dist.	3941 Nov 02 10:02	14°M30'05	0.65563 AU
min. Earth dist.	3940 Nov 19 01:38	0° × 16'10	0.66689 AU	inferior conj	3941 Nov 04 08:53	12°M15'23	
mm. Latin dist.	3940 Nov 19 06:53	30°RM	0.00007 AC	minimum elong	3941 Nov 04 08:53	12°M06'47	
inferior conj	3940 Nov 20 12:35	28°M27'34	0046124	asc. node	3941 Nov 04 11:32 3941 Nov 09 15:49	7°M08'47	1 4337
-	3940 Nov 20 12:33 3940 Nov 20 13:49	28°M23'43				6°M37'25	
minimum elong asc. node			0 43 31	morning rise	3941 Nov 10 13:34		
	3940 Nov 22 18:46	25°M45'32		direct	3941 Nov 13 08:14	5°M55'17	10012146
morning rise	3940 Nov 26 08:13	22°M37'23		morning max el	3941 Nov 19 20:37	9°M26'06	18°13'46
direct	3940 Nov 29 11:26	21°M41'13	10050154		3941 Dec 04 03:45	0° 🗷	
morning max el	3940 Dec 06 06:41	25°M26'38	18°50'54	morning set	3941 Dec 08 15:58	7° ₹20'58	
	3940 Dec 10 04:41	0° ⊼		desc. node	3941 Dec 16 17:28	20° ₹ 23'12	
morning set	3940 Dec 28 00:37	26° ₹ 52′20			3941 Dec 22 18:35	0°る	
desc. node	3940 Dec 29 20:27	29° ∡ ⁴44'19				_	
	3940 Dec 30 00:27	0° る		superior conj	3941 Dec 23 14:52	1° る 20'04	
max. Earth dist.	3941 Jan 12 04:18	20° පි 38'15	1.45126 AU	minimum elong	3941 Dec 23 09:05	0° る 57'15	
				max. Earth dist.	3941 Dec 25 23:50	5° る 04'11	1.45204 AU
superior conj	3941 Jan 13 11:57	22° る 42'38		evening rise	3942 Jan 08 21:43	26° පි 48'16	
minimum elong	3941 Jan 13 02:42	22° る 06'15	1°28'46		3942 Jan 10 22:55	0° ≈	
	3941 Jan 18 02:48	0° ≈		greatest brilliancy	3942 Jan 20 18:27	15° ≈ 10′27	-0.7m
evening rise	3941 Jan 28 18:57	17° ≈ 04'37			3942 Jan 31 10:36	0°) €	
	3941 Feb 05 18:55	0° ∀		evening max el	3942 Feb 01 23:08	1°) 39′40	19°25'47
evening max el	3941 Feb 18 15:12	18°) 09′26	18°42'00	asc. node	3942 Feb 05 15:05	4°) 41′27	
asc. node	3941 Feb 18 18:01	18°) 16′33		retrograde	3942 Feb 09 03:21	5°) 46′59	
retrograde	3941 Feb 25 06:35	21°) 50′42		evening set	3942 Feb 12 15:17	4°) ₹35′22	
evening set	3941 Feb 28 11:26	20°) 52′20			3942 Feb 17 02:45	30° R ≈	
inferior conj	3941 Mar 06 04:16	15°) 14′11	3°33'44	inferior conj	3942 Feb 18 03:05	28° ≈ 41'28	3°17'38
-				,			

minimum elong	3942 Feb 18 01:05	28° ≈ 47'57	3°17'19	evening set	3943 Jan 27 21:58	18° ≈ 26'54	
min. Earth dist.	3942 Feb 19 09:15	27°≈03'09	0.66486 AU	inferior conj	3943 Feb 02 07:03	12°≈20'00	2°50'38
morning rise	3942 Feb 23 10:39	22° ≈ 27'41	0.00400710	minimum elong	3943 Feb 02 04:36	12°≈28'20	2°50'01
direct	3942 Mar 01 16:02	19° ≈ 41'54		min. Earth dist.	3943 Feb 02 04:38	11°≈23'35	0.67381 AU
morning max el	3942 Mar 14 03:25	27°≈07'16	25°56'07	morning rise	3943 Feb 07 11:02	6°≈06'09	0.07301 AC
desc. node	3942 Mar 14 05:25 3942 Mar 14 16:40	27°≈41'08	23 3007	direct	3943 Feb 13 02:52	3°≈34'50	
desc. node	3942 Mar 16 20:12	2/ ≈ 4108			3943 Feb 13 02:32 3943 Feb 24 12:04	3 ≈34 30 10°≈23'07	24022100
		0 Υ 0° Υ		morning max el desc. node		10 ≈23 07 16°≈01'57	24 33 08
mamina aat	3942 Apr 07 08:49 3942 Apr 19 08:13	0 γ 20° Υ 39'45		desc. node	3943 Mar 01 13:43	10 ≈ 0137 0° ∺	
morning set	•		1 25520 ATT		3943 Mar 12 01:58	0 χ 0°Υ	
max. Earth dist.	3942 Apr 23 05:07	27° Y 57'32	1.35539 AU	. ,	3943 Mar 31 01:28	0°γ 2° Υ 28'12	
	3942 Apr 24 06:26	0°8		morning set	3943 Apr 01 11:29		1 27405 411
	2042 4 20 12 50	00 4100	0050107	max. Earth dist.	3943 Apr 05 02:57	8° Ƴ 59'06	1.37485 AU
superior conj	3942 Apr 28 13:59	8° 8 34'08			2012 1 11 21 51	2100011121	1000115
minimum elong	3942 Apr 28 17:09	8° 8 50'07	0°58'33	superior conj	3943 Apr 11 21:51	21° Y 44'24	
asc. node	3942 May 04 14:22	20° 8 55'04		minimum elong	3943 Apr 12 02:17	22° Y 05'52	1°26'09
evening rise	3942 May 06 11:25	24° 8 46'44			3943 Apr 16 02:47	0° 8	
	3942 May 09 01:20	0°П		evening rise	3943 Apr 20 12:43	8° 8 48'05	
evening max el	3942 May 24 14:08	24° ∏ 15'24	20°16'37	asc. node	3943 Apr 21 11:25	10° 8 40'39	
retrograde	3942 Jun 04 07:53	29° ∏ 29'47			3943 May 02 08:33	$\Pi^{\circ 0}$	
evening set	3942 Jun 06 07:17	29° ∏ 19'53		evening max el	3943 May 07 07:05		19°14'32
desc. node	3942 Jun 10 15:52	27° ∏ 56′11		retrograde	3943 May 16 08:11	10° Ⅱ 24'19	
inferior conj	3942 Jun 15 10:17	25° Ⅱ 21'25		evening set	3943 May 18 08:41	10° Ⅱ 12'04	
minimum elong	3942 Jun 15 06:18	25° Ⅱ 27'16		inferior conj	3943 May 26 18:33	6° Ⅱ 02'34	0°30'49
min. Earth dist.	3942 Jun 16 23:49		0.55077 AU	minimum elong	3943 May 26 19:49	6° Ⅱ 00′26	0°30'22
morning rise	3942 Jun 24 04:03	21° Ⅱ 06'51		desc. node	3943 May 28 12:54	4° ∏ 51'32	
direct	3942 Jun 28 02:55	20° Ⅲ 33′02		min. Earth dist.	3943 May 29 14:44	4° Ⅱ 09'07	0.56201 AU
morning max el	3942 Jul 11 16:01	27° Ⅲ 09′20	23°42'13	morning rise	3943 Jun 04 03:51	1° Ⅱ 13'31	
	3942 Jul 14 10:45	0 \circ \odot		direct	3943 Jun 09 01:18	0° Ⅱ 18'11	
asc. node	3942 Jul 31 13:38	26°5546'08		morning max el	3943 Jun 23 06:05	7° Ⅲ 33′07	25°22'30
	3942 Aug 02 04:12	$\mathfrak{O}^{\circ}\mathfrak{O}$			3943 Jul 09 19:05	0 \circ \mathfrak{S}	
morning set	3942 Aug 04 15:24	5° Ω 07'30		asc. node	3943 Jul 18 10:40	16° 5 29'37	
				morning set	3943 Jul 20 03:04	20° © 00'59	
superior conj	3942 Aug 11 15:32	20° Ω 12'41	1°33'18		3943 Jul 24 17:53	$0^{\circ}\Omega$	
minimum elong	3942 Aug 11 13:34	20° Ω 02'09	1°33'06				
max. Earth dist.	3942 Aug 13 22:51	25° Ω 09'06	1.33342 AU	superior conj	3943 Jul 27 01:46	5° Ω 06'34	1°19'34
	3942 Aug 16 06:11	o° mp		minimum elong	3943 Jul 26 23:27	4° Ω 53'50	1°19'14
evening rise	3942 Aug 19 03:30	5° m 54'08		max. Earth dist.	3943 Jul 28 05:24	7° Ω 37'41	1.32508 AU
	3942 Sep 01 09:44	0∘ ⊽		evening rise	3943 Aug 03 04:04	20° Ω 18'19	
desc. node	-			· ·	Č		
	3942 Sep 06 15:12	8° ഫ 07'22			3943 Aug 08 00:49	0° m)	
evening max el		8°₽07'22 27°₽09'05	27°23'51	desc. node	Č	0° ሙ 27° ሙ 11'24	
evening max el	3942 Sep 22 00:36	27° ≏ 09'05	27°23'51	desc. node	3943 Aug 24 12:13	0° My 27° My 11'24 0° <u>∩</u>	
C	3942 Sep 22 00:36 3942 Sep 25 07:06	27° ♀ 09'05 0° ™	27°23'51		3943 Aug 24 12:13 3943 Aug 26 14:27	27° Mp 11′24 0° <u>Ω</u>	27°21'06
retrograde	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11	27° £ 09'05 0° M 4° M 27'06	27°23'51	evening max el	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24	27° M 11′24 0° <u>∩</u> 9° <u>∩</u> 58′29	27°21'06
C	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34	27° 2 09'05 0° M 4° M 27'06 1° M 47'27	27°23'51	evening max el retrograde	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42	27° № 11'24 0° Ω 9° Ω 58'29 17° Ω 13'35	27°21'06
retrograde evening set	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36	27° Ω 09'05 0°M 4°M27'06 1°M47'27 30°R Ω		evening max el retrograde evening set	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01	27° № 11'24 0° Ω 9° Ω 58'29 17° Ω 13'35 14° Ω 47'06	
retrograde evening set min. Earth dist.	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36 3942 Oct 16 09:52	27° 2 09'05 0°M 4°M27'06 1°M47'27 30°R 2 28° 2 26'38	0.64088 AU	evening max el retrograde evening set min. Earth dist.	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01 3943 Sep 28 23:37	27° M 11'24 0° Ω 9° Ω 58'29 17° Ω 13'35 14° Ω 47'06 11° Ω 54'12	0.62291 AU
retrograde evening set min. Earth dist. inferior conj	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36 3942 Oct 16 09:52 3942 Oct 18 21:01	27° ១ 09'05 0° ጤ 4° ጤ 27'06 1° ጤ 47'27 30° ዪ១ 28° ១ 26'38 25° ១ 52'08	0.64088 AU -2°48'10	evening max el retrograde evening set min. Earth dist. inferior conj	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01 3943 Sep 28 23:37 3943 Oct 01 22:01	27° M 11'24 0° മ 9° മ58'29 17° മ13'35 14° മ47'06 11° മ54'12 9° മ10'11	0.62291 AU -3°46'48
retrograde evening set min. Earth dist. inferior conj minimum elong	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36 3942 Oct 16 09:52 3942 Oct 18 21:01 3942 Oct 19 01:43	27°\$\Omega\$09'05 0°\$\mathbb{n}\$ 4°\$\mathbb{n}\$27'06 1°\$\mathbb{n}\$47'27 30°\$\omega\$28°\$\Omega\$26'38 25°\$\Omega\$52'08 25°\$\Omega\$39'49	0.64088 AU -2°48'10	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01 3943 Sep 28 23:37 3943 Oct 01 22:01 3943 Oct 02 03:52	27° M 11'24 0° Ω 9° Ω 58'29 17° Ω 13'35 14° Ω 47'06 11° Ω 54'12 9° Ω 10'11 8° Ω 56'32	0.62291 AU -3°46'48
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36 3942 Oct 16 09:52 3942 Oct 18 21:01 3942 Oct 19 01:43 3942 Oct 25 12:10	27°\Delta 09'05 0°\mathbb{\text{M}} 4°\mathbb{\text{M}}27'06 1°\mathbb{\text{M}}47'27 30°\mathbb{\text{R}}\Delta 28°\Delta 26'38 25°\Delta 52'08 25°\Delta 39'49 20°\Delta 29'30	0.64088 AU -2°48'10	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01 3943 Sep 28 23:37 3943 Oct 01 22:01 3943 Oct 02 03:52 3943 Oct 09 00:24	27° 10 11'24 0° 12 9° 12 58'29 17° 12 13'35 14° 12 47'06 11° 15 54'12 9° 110'11 8° 15 56'32 4° 106'03	0.62291 AU -3°46'48
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36 3942 Oct 16 09:52 3942 Oct 18 21:01 3942 Oct 19 01:43 3942 Oct 25 12:10 3942 Oct 27 12:51	27° \$\Pi09'05\$ 0° \$\mathbb{n}\$ 4° \$\mathbb{n}\$.27'06 1° \$\mathbb{n}\$.47'27 30° \$\mathbb{n}\$\$ 28° \$\Pi 26'38 25° \$\Pi 52'08 25° \$\Pi 39'49 20° \$\Pi 29'30 19° \$\Pi 58'54	0.64088 AU -2°48'10	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01 3943 Sep 28 23:37 3943 Oct 01 22:01 3943 Oct 02 03:52 3943 Oct 09 00:24 3943 Oct 11 09:26	27° 10 11'24 0° 12 9° 12 58'29 17° 12 13'35 14° 12 14'06 11° 15 12' 9° 10'11 8° 15 13' 4° 106'03 3° 14'03	0.62291 AU -3°46'48
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36 3942 Oct 16 09:52 3942 Oct 18 21:01 3942 Oct 19 01:43 3942 Oct 25 12:10 3942 Oct 27 12:51 3942 Oct 28 00:37	27° \$\Pi09'05\$ 0° \$\mathbb{n}\$. 4° \$\mathbb{n}.27'06\$ 1° \$\mathbb{n}.47'27\$ 30° \$\mathbb{n}\$. 28° \$\Pi 26'38\$ 25° \$\Pi 52'08\$ 25° \$\Pi 39'49\$ 20° \$\Pi 29'30\$ 19° \$\Pi 58'54\$ 19° \$\Pi 57'41\$	0.64088 AU -2°48'10 2°46'28	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01 3943 Sep 28 23:37 3943 Oct 01 22:01 3943 Oct 02 03:52 3943 Oct 09 00:24 3943 Oct 11 09:26 3943 Oct 14 09:54	27° M 11'24 0° Ω 9° Ω 58'29 17° Ω 13'35 14° Ω 47'06 11° Ω 54'12 9° Ω 10'11 8° Ω 56'32 4° Ω 06'03 3° Ω 41'03 4° Ω 22'43	0.62291 AU -3°46'48 3°45'08
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36 3942 Oct 16 09:52 3942 Oct 18 21:01 3942 Oct 19 01:43 3942 Oct 25 12:10 3942 Oct 27 12:51 3942 Oct 28 00:37 3942 Nov 03 13:08	27° \$\tilde{\Omega}_09'05 0° \$\mathbb{n}\$. 4° \$\mathbb{n}_27'06 1° \$\mathbb{n}_47'27 30° \$\mathref{\Omega}_28' \$\tilde{\Omega}_26'38 25° \$\tilde{\Omega}_52'08 25° \$\tilde{\Omega}_59'30 19° \$\tilde{\Omega}_58'54 19° \$\tilde{\Omega}_57'41 23° \$\tilde{\Omega}_23'01	0.64088 AU -2°48'10	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01 3943 Sep 28 23:37 3943 Oct 01 22:01 3943 Oct 02 03:52 3943 Oct 09 00:24 3943 Oct 11 09:26 3943 Oct 14 09:54 3943 Oct 18 05:09	27° M 11'24 0° Ω 9° Ω 58'29 17° Ω 13'35 14° Ω 47'06 11° Ω 54'12 9° Ω 10'11 8° Ω 56'32 4° Ω 06'03 3° Ω 41'03 4° Ω 22'43 7° Ω 09'18	0.62291 AU -3°46'48
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36 3942 Oct 16 09:52 3942 Oct 18 21:01 3942 Oct 19 01:43 3942 Oct 25 12:10 3942 Oct 27 12:51 3942 Oct 28 00:37 3942 Nov 03 13:08 3942 Nov 08 19:25	27° \$\tilde{\Omega}_09'05 0° \$\mathbb{n}\$. 4° \$\mathbb{n}_27'06 1° \$\mathbb{n}_47'27 30° \$\mathref{\Omega}_28' \$\tilde{\Omega}_26'38 25° \$\tilde{\Omega}_52'08 25° \$\tilde{\Omega}_39'49 20° \$\tilde{\Omega}_29'30 19° \$\tilde{\Omega}_58'54 19° \$\tilde{\Omega}_57'41 23° \$\tilde{\Omega}_23'01 0° \$\mathref{m}_6\$	0.64088 AU -2°48'10 2°46'28	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01 3943 Sep 28 23:37 3943 Oct 01 22:01 3943 Oct 02 03:52 3943 Oct 09 00:24 3943 Oct 11 09:26 3943 Oct 14 09:54 3943 Oct 18 05:09 3943 Nov 02 00:35	27° M 11'24 0° Ω 9° Ω 58'29 17° Ω 13'35 14° Ω 47'06 11° Ω 54'12 9° Ω 10'11 8° Ω 56'32 4° Ω 06'03 3° Ω 41'03 4° Ω 22'43 7° Ω 09'18 0° M.	0.62291 AU -3°46'48 3°45'08
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36 3942 Oct 16 09:52 3942 Oct 18 21:01 3942 Oct 19 01:43 3942 Oct 25 12:10 3942 Oct 27 12:51 3942 Oct 28 00:37 3942 Nov 03 13:08 3942 Nov 08 19:25 3942 Nov 20 11:13	27° \$\times 09'05 0° \$\mathbb{n}\$. 4° \$\mathbb{n} .27'06 1° \$\mathbb{n} .47'27 30° \$\mathbb{n}\$. 28° \$\times 26'38 25° \$\times 52'08 25° \$\times 39'49 20° \$\times 29'30 19° \$\times 57'41 23° \$\times 23'01 0° \$\mathbb{n}\$. 19° \$\mathbb{n} .11'11	0.64088 AU -2°48'10 2°46'28	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01 3943 Sep 28 23:37 3943 Oct 01 22:01 3943 Oct 02 03:52 3943 Oct 09 00:24 3943 Oct 11 09:26 3943 Oct 14 09:54 3943 Oct 18 05:09	27° M 11'24 0° Ω 9° Ω 58'29 17° Ω 13'35 14° Ω 47'06 11° Ω 54'12 9° Ω 10'11 8° Ω 56'32 4° Ω 06'03 3° Ω 41'03 4° Ω 22'43 7° Ω 09'18	0.62291 AU -3°46'48 3°45'08
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36 3942 Oct 16 09:52 3942 Oct 18 21:01 3942 Oct 19 01:43 3942 Oct 25 12:10 3942 Oct 27 12:51 3942 Oct 28 00:37 3942 Nov 03 13:08 3942 Nov 08 19:25	27° \$\tilde{\Omega}_09'05 0° \$\mathbb{n}\$. 4° \$\mathbb{n}_27'06 1° \$\mathbb{n}_47'27 30° \$\mathref{\Omega}_28' \$\tilde{\Omega}_26'38 25° \$\tilde{\Omega}_52'08 25° \$\tilde{\Omega}_39'49 20° \$\tilde{\Omega}_29'30 19° \$\tilde{\Omega}_58'54 19° \$\tilde{\Omega}_57'41 23° \$\tilde{\Omega}_23'01 0° \$\mathref{m}_6\$	0.64088 AU -2°48'10 2°46'28	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01 3943 Sep 28 23:37 3943 Oct 01 22:01 3943 Oct 02 03:52 3943 Oct 09 00:24 3943 Oct 11 09:26 3943 Oct 14 09:54 3943 Oct 18 05:09 3943 Nov 02 00:35 3943 Nov 03 04:13	27° M 11'24 0° Ω 9° Ω 58'29 17° Ω 13'35 14° Ω 47'06 11° Ω 54'12 9° Ω 10'11 8° Ω 56'32 4° Ω 06'03 3° Ω 41'03 4° Ω 22'43 7° Ω 09'18 0° M 2° M 03'54	0.62291 AU -3°46'48 3°45'08 17°51'36
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36 3942 Oct 16 09:52 3942 Oct 18 21:01 3942 Oct 19 01:43 3942 Oct 25 12:10 3942 Oct 27 12:51 3942 Oct 28 00:37 3942 Nov 03 13:08 3942 Nov 08 19:25 3942 Nov 20 11:13 3942 Nov 26 20:23	27° \$\textit{\Omega}\$09'05 0° \$\textit{\mathbb{n}}\$. 4° \$\textit{\mathbb{n}}\$27'06 1° \$\textit{\mathbb{n}}\$47'27 30° \$\textit{\Omega}\$28° \$\textit{\Omega}\$26'38 25° \$\textit{\Omega}\$52'08 25° \$\textit{\Omega}\$39'49 20° \$\textit{\Omega}\$29'30 19° \$\textit{\Omega}\$58'54 19° \$\textit{\Omega}\$57'41 23° \$\textit{\Omega}\$23'01 0° \$\textit{\mathbb{n}}\$ 19° \$\textit{\mathbb{n}}\$11'11 0° \$\textit{\mathbb{z}}\$	0.64088 AU -2°48'10 2°46'28 17°53'42	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01 3943 Sep 28 23:37 3943 Oct 01 22:01 3943 Oct 02 03:52 3943 Oct 09 00:24 3943 Oct 11 09:26 3943 Oct 14 09:54 3943 Oct 18 05:09 3943 Nov 02 00:35 3943 Nov 03 04:13	27° M 11'24 0° Ω 9° Ω 58'29 17° Ω 13'35 14° Ω 47'06 11° Ω 54'12 9° Ω 10'11 8° Ω 56'32 4° Ω 06'03 3° Ω 41'03 4° Ω 22'43 7° Ω 09'18 0° M 2° M 03'54 21° M 31'19	0.62291 AU -3°46'48 3°45'08 17°51'36
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retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36 3942 Oct 16 09:52 3942 Oct 18 21:01 3942 Oct 19 01:43 3942 Oct 25 12:10 3942 Oct 27 12:51 3942 Oct 28 00:37 3942 Nov 03 13:08 3942 Nov 08 19:25 3942 Nov 20 11:13 3942 Nov 26 20:23 3942 Dec 03 09:21 3942 Dec 03 09:31	27° \$\textit{\Omega}\$09'05 0° \$\mathbb{M}\$. 4° \$\mathbb{M}\$.27'06 1° \$\mathbb{M}\$.47'27 30° \$\mathbb{A}\$\textit{\Omega}\$ 28° \$\textit{\Omega}\$26'38 25° \$\textit{\Omega}\$52'08 25° \$\textit{\Omega}\$39'49 20° \$\textit{\Omega}\$29'30 19° \$\textit{\Omega}\$58'54 19° \$\textit{\Omega}\$57'41 23° \$\textit{\Omega}\$23'01 0° \$\mathbb{M}\$. 19° \$\mathbb{M}\$.11'11 0° \$\textit{\omega}\$ 10° \$\textit{\Period}\$47'15 10° \$\textit{\Period}\$47'58	0.64088 AU -2°48'10 2°46'28 17°53'42	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01 3943 Sep 28 23:37 3943 Oct 01 22:01 3943 Oct 02 03:52 3943 Oct 11 09:26 3943 Oct 14 09:54 3943 Nov 14 05:51 3943 Nov 14 05:51 3943 Nov 14 09:29 3943 Nov 19 07:20	27° m 11'24 0° Ω 9° Ω 58'29 17° Ω 13'35 14° Ω 47'06 11° Ω 54'12 9° Ω 10'11 8° Ω 56'32 4° Ω 06'03 3° Ω 41'03 4° Ω 22'43 7° Ω 09'18 0° M 2° M 03'54 21° M 31'19 21° M 46'47 0° 🗷	0.62291 AU -3°46'48 3°45'08 17°51'36
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set superior conj minimum elong behind sun begin	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36 3942 Oct 16 09:52 3942 Oct 18 21:01 3942 Oct 19 01:43 3942 Oct 25 12:10 3942 Oct 27 12:51 3942 Oct 28 00:37 3942 Nov 03 13:08 3942 Nov 08 19:25 3942 Nov 20 11:13 3942 Nov 26 20:23 3942 Dec 03 09:21 3942 Dec 03 09:31 3942 Dec 02 23:32	27° \$\tilde{\Omega}09'05 0° \$\mathbb{M}\$. 4° \$\mathbb{M}\text{.27'06} 1° \$\mathbb{M}\text{.47'27} 30° \$\mathbb{A}\text{.2} 28° \$\tilde{\Omega}26'38 25° \$\tilde{\Omega}52'08 25° \$\tilde{\Omega}39'49 20° \$\tilde{\Omega}29'30 19° \$\tilde{\Omega}58'54 19° \$\tilde{\Omega}57'41 23° \$\tilde{\Omega}23'01 0° \$\mathbb{M}\$. 19° \$\mathbb{M}\$.11'11 0° \$\tilde{\sigma}\$ 10° \$\tilde{\sigma}47'15 10° \$\tilde{\sigma}47'58 10° \$\tilde{\sigma}47'52	0.64088 AU -2°48'10 2°46'28 17°53'42	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01 3943 Sep 28 23:37 3943 Oct 01 22:01 3943 Oct 02 03:52 3943 Oct 11 09:26 3943 Oct 14 09:54 3943 Oct 18 05:09 3943 Nov 02 00:35 3943 Nov 03 04:13 3943 Nov 14 05:51 3943 Nov 14 09:29 3943 Nov 19 07:20 3943 Nov 20 11:33	27° m 11'24 0° Ω 9° Ω 58'29 17° Ω 13'35 14° Ω 47'06 11° Ω 54'12 9° Ω 10'11 8° Ω 56'32 4° Ω 06'03 3° Ω 41'03 4° Ω 22'43 7° Ω 09'18 0° M 2° M 03'54 21° M 31'19 21° M 46'47 0° ズ 1° ズ 55'47	0.62291 AU -3°46'48 3°45'08 17°51'36 0°42'39 0°42'09
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retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36 3942 Oct 16 09:52 3942 Oct 18 21:01 3942 Oct 19 01:43 3942 Oct 25 12:10 3942 Oct 27 12:51 3942 Oct 28 00:37 3942 Nov 03 13:08 3942 Nov 08 19:25 3942 Nov 20 11:13 3942 Nov 20 11:13 3942 Dec 03 09:21 3942 Dec 03 09:31 3942 Dec 03 19:31 3942 Dec 03 19:31 3942 Dec 03 19:31	27° \$\tilde{\Omega}_09'05 0° \$\mathbb{n}_\tilde{\Omega}_1\tilde{\Omega}_127'06 1° \$\mathbb{n}_47'27'30° \tilde{\Omega}_28° \$\tilde{\Omega}_26'38 25° \$\tilde{\Omega}_52'08 25° \$\tilde{\Omega}_59'49 20° \$\tilde{\Omega}_29'30 19° \$\tilde{\Omega}_58'54 19° \$\tilde{\Omega}_58'54 19° \$\tilde{\Omega}_57'41 23° \$\tilde{\Omega}_23'01 0° \$\mathbb{n}_\tilde{\Omega}_11'11 0° \$\tilde{\omega}_147'15 10° \$\tilde{\Omega}_147'15 10° \$\tilde{\Omega}_147'58 10° \$\tilde{\Omega}_107'20 11° \$\tilde{\Omega}_28'32 11° \$\tilde{\Omega}_08'16	0.64088 AU -2°48'10 2°46'28 17°53'42 0°01'30 0°01'28	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01 3943 Sep 28 23:37 3943 Oct 01 22:01 3943 Oct 02 03:52 3943 Oct 11 09:26 3943 Oct 14 09:54 3943 Oct 18 05:09 3943 Nov 02 00:35 3943 Nov 03 04:13 3943 Nov 14 09:29 3943 Nov 19 07:20 3943 Nov 20 11:33 3943 Nov 21 09:04 3943 Nov 28 20:49	27° m 11'24 0° Ω 9° Ω 58'29 17° Ω 13'35 14° Ω 47'06 11° Ω 54'12 9° Ω 10'11 8° Ω 56'32 4° Ω 06'03 3° Ω 41'03 4° Ω 22'43 7° Ω 09'18 0° M 2° M 03'54 21° M 31'19 21° M 46'47 0° ₹ 1° ₹ 55'47 3° ₹ 23'30 15° ₹ 18'17	0.62291 AU -3°46'48 3°45'08 17°51'36 0°42'39 0°42'09
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set superior conj minimum elong behind sun begin behind sun end	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36 3942 Oct 16 09:52 3942 Oct 18 21:01 3942 Oct 19 01:43 3942 Oct 25 12:10 3942 Oct 27 12:51 3942 Oct 28 00:37 3942 Nov 03 13:08 3942 Nov 08 19:25 3942 Nov 20 11:13 3942 Nov 26 20:23 3942 Dec 03 09:21 3942 Dec 03 09:31 3942 Dec 03 19:31 3942 Dec 03 14:31 3942 Dec 08 18:13	27° \$\times 09'05 0° \$\times 4\$° \$\times 27'06 1° \$\times 47'27 30° \$\times 28\$° \$\times 26'38 25° \$\times 25'08 25° \$\times 29'30 19° \$\times 57'41 23° \$\times 23'01 0° \$\times 19' \$\times 11'11 0° \$\times 47'15 10° \$\times 47'15 10° \$\times 47'58 10° \$\times 08'16 19° \$\times 24'36	0.64088 AU -2°48'10 2°46'28 17°53'42	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01 3943 Sep 28 23:37 3943 Oct 01 22:01 3943 Oct 02 03:52 3943 Oct 11 09:26 3943 Oct 14 09:54 3943 Oct 18 05:09 3943 Nov 02 00:35 3943 Nov 03 04:13 3943 Nov 14 05:51 3943 Nov 14 09:29 3943 Nov 19 07:20 3943 Nov 20 11:33 3943 Nov 21 09:04 3943 Nov 28 20:49 3943 Dec 08 12:29	27° m 11'24 0° Ω 9° Ω 58'29 17° Ω 13'35 14° Ω 47'06 11° Ω 54'12 9° Ω 10'11 8° Ω 56'32 4° Ω 06'03 3° Ω 41'03 4° Ω 22'43 7° Ω 09'18 0° M 2° M 03'54 21° M 31'19 21° M 46'47 0° 🗷 1° 🗷 55'47 3° 🗷 23'30 15° 🗷 18'17 0° న	0.62291 AU -3°46'48 3°45'08 17°51'36 0°42'39 0°42'09
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node max. Earth dist.	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36 3942 Oct 16 09:52 3942 Oct 18 21:01 3942 Oct 19 01:43 3942 Oct 25 12:10 3942 Oct 27 12:51 3942 Oct 28 00:37 3942 Nov 03 13:08 3942 Nov 08 19:25 3942 Nov 20 11:13 3942 Nov 26 20:23 3942 Dec 03 09:21 3942 Dec 03 09:31 3942 Dec 03 19:31 3942 Dec 03 19:31 3942 Dec 03 18:13 3942 Dec 08 18:13 3942 Dec 15 12:08	27° 至09'05 0° M. 4° M.27'06 1° M.47'27 30° R. 至 28° 至26'38 25° 至52'08 25° 至39'49 20° 至29'30 19° 至58'54 19° 至57'41 23° 至23'01 0° M. 19° M.11'11 0° ズ 10° ズ 47'15 10° ズ 47'58 10° ズ 07'20 11° ズ 28'32 11° ズ 08'16 19° ズ 24'36 0° 云	0.64088 AU -2°48'10 2°46'28 17°53'42 0°01'30 0°01'28	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist.	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01 3943 Sep 28 23:37 3943 Oct 01 22:01 3943 Oct 02 03:52 3943 Oct 11 09:26 3943 Oct 14 09:54 3943 Oct 18 05:09 3943 Nov 02 00:35 3943 Nov 03 04:13 3943 Nov 14 05:51 3943 Nov 14 09:29 3943 Nov 19 07:20 3943 Nov 20 11:33 3943 Nov 20 11:33 3943 Nov 21 09:04 3943 Nov 28 20:49 3943 Dec 08 12:29 3943 Dec 29 23:27	27° M 11'24 0° Ω 9° Ω 58'29 17° Ω 13'35 14° Ω 47'06 11° Ω 54'12 9° Ω 10'11 8° Ω 56'32 4° Ω 06'03 3° Ω 41'03 4° Ω 22'43 7° Ω 09'18 0° M 2° M 03'54 21° M 31'19 21° M 46'47 0° 🗷 1° 🗷 55'47 3° 🗷 23'30 15° 🗷 18'17 0° ℧ 28° ℧ 44'43	0.62291 AU -3°46'48 3°45'08 17°51'36 0°42'39 0°42'09
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36 3942 Oct 16 09:52 3942 Oct 18 21:01 3942 Oct 19 01:43 3942 Oct 25 12:10 3942 Oct 27 12:51 3942 Oct 28 00:37 3942 Nov 03 13:08 3942 Nov 08 19:25 3942 Nov 20 11:13 3942 Nov 20 20:23 3942 Dec 03 09:21 3942 Dec 03 09:31 3942 Dec 03 19:31 3942 Dec 03 14:31 3942 Dec 08 18:13 3942 Dec 15 12:08 3942 Dec 19 09:21	27° \$\infty\$09'05 0° \$\mathbb{m}\$. 4° \$\mathbb{m}\$.27'06 1° \$\mathbb{m}\$.47'27 30° \$\mathbb{n}\$. 28° \$\infty\$26'38 25° \$\infty\$52'08 25° \$\infty\$39'49 20° \$\infty\$29'30 19° \$\infty\$55'41 23° \$\infty\$23'01 0° \$\mathbb{m}\$. 19° \$\mathbb{m}\$.11'11 0° \$\textstyle{A}\$ 10° \$\textstyle{A}\$47'15 10° \$\textstyle{A}\$47'15 10° \$\textstyle{A}\$47'15 10° \$\textstyle{A}\$47'20 11° \$\textstyle{A}\$28'32 11° \$\textstyle{A}\$08'16 19° \$\textstyle{A}\$24'36 0° \$\textstyle{G}\$6° \$\textstyle{G}\$00'06	0.64088 AU -2°48'10 2°46'28 17°53'42 0°01'30 0°01'28	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01 3943 Sep 28 23:37 3943 Oct 01 22:01 3943 Oct 02 03:52 3943 Oct 11 09:26 3943 Oct 14 09:54 3943 Oct 18 05:09 3943 Nov 02 00:35 3943 Nov 03 04:13 3943 Nov 14 05:51 3943 Nov 14 09:29 3943 Nov 19 07:20 3943 Nov 20 11:33 3943 Nov 20 11:33 3943 Nov 21 09:04 3943 Nov 28 20:49 3943 Dec 08 12:29 3943 Dec 29 23:27 3943 Dec 31 06:18	27° M 11'24 0° Ω 9° Ω 58'29 17° Ω 13'35 14° Ω 47'06 11° Ω 54'12 9° Ω 10'11 8° Ω 56'32 4° Ω 06'03 3° Ω 41'03 4° Ω 22'43 7° Ω 09'18 0° M 2° M 03'54 21° M 31'19 21° M 46'47 0° ズ 1° ズ 55'47 3° ズ 23'30 15° ズ 18'17 0° ℧ 28° ℧ 44'43 0° ∞	0.62291 AU -3°46'48 3°45'08 17°51'36 0°42'39 0°42'09
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36 3942 Oct 16 09:52 3942 Oct 18 21:01 3942 Oct 19 01:43 3942 Oct 25 12:10 3942 Oct 27 12:51 3942 Oct 28 00:37 3942 Nov 03 13:08 3942 Nov 08 19:25 3942 Nov 20 11:13 3942 Nov 20 20:23 3942 Dec 03 09:21 3942 Dec 03 09:31 3942 Dec 03 19:31 3942 Dec 03 14:31 3942 Dec 03 14:31 3942 Dec 08 18:13 3942 Dec 15 12:08 3942 Dec 19 09:21 3943 Jan 04 08:40	27° \$\infty\$09'05 0° \$\text{\text{\text{\$\mathbb{M}\text{.}}} 4° \$\text{\text{\$\mathbb{M}\text{.}} 47'27} 30° \$\text{\text{\$\mathbb{A}\text{.}}} \text{\$\mathbb{\text{.}}} \text{\$\mathbb{\text{.}}} \text{\$\mathbb{\text{.}}} \text{\$\mathbb{\text{.}}} 28' \$\text{\$\mathbb{\text{.}}} 29'30} 19° \$\text{\$\mathbb{\text{.}}} 29'30 19° \$\text{\$\mathbb{\text{.}}} 57'41 23° \$\text{\$\mathbb{\text{.}}} 23'01 0° \$\text{\$\mathbb{M}\text{.}} 11'11 0° \$\text{\$\mathbb{A}\text{.}} 47'15 10° \$\text{\$\mathbb{A}\text{.}} 47'58 10° \$\text{\$\mathbb{A}\text{.}} 47'58 10° \$\text{\$\mathbb{A}\text{.}} 47'20 11° \$\text{\$\mathbb{A}\text{.}} 28'32 11° \$\text{\$\mathbb{A}\text{.}} 24'36 0° \$\text{\$\mathbb{\text{.}}} 6° \$\text{\$\mathbb{\text{.}}} 00'06 0° \$\infty\$	0.64088 AU -2°48'10 2°46'28 17°53'42 0°01'30 0°01'28 1.44551 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01 3943 Sep 28 23:37 3943 Oct 01 22:01 3943 Oct 02 03:52 3943 Oct 11 09:26 3943 Oct 14 09:54 3943 Oct 18 05:09 3943 Nov 02 00:35 3943 Nov 03 04:13 3943 Nov 14 05:51 3943 Nov 14 09:29 3943 Nov 19 07:20 3943 Nov 20 11:33 3943 Nov 20 11:33 3943 Nov 21 09:04 3943 Nov 28 20:49 3943 Dec 08 12:29 3943 Dec 29 23:27 3943 Dec 31 06:18 3944 Jan 07 23:00	27° m 11'24 0° a 9° a 58'29 17° a 13'35 14° a 47'06 11° a 54'12 9° a 10'11 8° a 56'32 4° a 06'03 3° a 41'03 4° a 22'43 7° a 09'18 0° m 2° m 03'54 21° m 31'19 21° m 46'47 0° x' 1° x' 55'47 3° x' 23'30 15° x' 18'17 0° to 28° to 44'43 0° se 4° se 04'52	0.62291 AU -3°46'48 3°45'08 17°51'36 0°42'39 0°42'09
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36 3942 Oct 16 09:52 3942 Oct 18 21:01 3942 Oct 19 01:43 3942 Oct 25 12:10 3942 Oct 27 12:51 3942 Oct 28 00:37 3942 Nov 03 13:08 3942 Nov 08 19:25 3942 Nov 20 11:13 3942 Nov 26 20:23 3942 Dec 03 09:21 3942 Dec 03 09:31 3942 Dec 03 19:31 3942 Dec 03 14:31 3942 Dec 03 14:31 3942 Dec 08 18:13 3942 Dec 15 12:08 3942 Dec 19 09:21 3943 Jan 04 08:40 3943 Jan 16 02:01	27° \$\tilde{\Omega}09'05 0° \$\tilde{\mathbb{m}}. 4° \$\tilde{\mathbb{m}}.27'06 1° \$\tilde{\mathbb{m}}.47'27 30° \$\tilde{\Omega}28° \$\tilde{\Omega}26'38 25° \$\tilde{\Omega}39'49 20° \$\tilde{\Omega}29'30 19° \$\tilde{\Omega}58'54 19° \$\tilde{\Omega}58'54 19° \$\tilde{\Omega}58'54 19° \$\tilde{\Omega}23'01 0° \$\tilde{\mathbb{m}}. 19° \$\tilde{\mathbb{m}}.11'11 0° \$\tilde{\mathbb{A}}' \tilde{\Omega}7'15 10° \$\tilde{\mathbb{A}}'47'15 10° \$\tilde{\mathbb{A}}'47'15 10° \$\tilde{\mathbb{A}}'47'15 10° \$\tilde{\mathbb{A}}'47'15 10° \$\tilde{\mathbb{A}}'47'20 11° \$\tilde{\mathbb{A}}'28'32 11° \$\tilde{\mathbb{A}}'08'16 19° \$\tilde{\mathbb{C}}'24'36 0° \$\tilde{\mathbb{C}}\$ 6° \$\tilde{\mathbb{C}}'00'06 0° \$\infty\$ 15° \$\infty\$11'13	0.64088 AU -2°48'10 2°46'28 17°53'42 0°01'30 0°01'28 1.44551 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01 3943 Sep 28 23:37 3943 Oct 01 22:01 3943 Oct 02 03:52 3943 Oct 11 09:26 3943 Oct 14 09:54 3943 Oct 18 05:09 3943 Nov 02 00:35 3943 Nov 03 04:13 3943 Nov 14 05:51 3943 Nov 14 09:29 3943 Nov 19 07:20 3943 Nov 20 11:33 3943 Nov 20 11:33 3943 Nov 21 09:04 3943 Nov 28 20:49 3943 Dec 08 12:29 3943 Dec 08 12:29 3943 Dec 31 06:18 3944 Jan 07 23:00 3944 Jan 10 09:09	27° m 11'24 0° a 9° a 58'29 17° a 13'35 14° a 47'06 11° a 54'12 9° a 10'11 8° a 56'32 4° a 06'03 3° a 41'03 4° a 22'43 7° a 09'18 0° m 2° m 03'54 21° m 31'19 21° m 46'47 0° x' 1° x' 55'47 3° x' 23'30 15° x' 18'17 0° 5 28° 5 44'43 0° ≈ 4° ≈ 04'52 3° ≈ 33'02	0.62291 AU -3°46'48 3°45'08 17°51'36 0°42'39 0°42'09
retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	3942 Sep 22 00:36 3942 Sep 25 07:06 3942 Oct 05 14:11 3942 Oct 12 16:34 3942 Oct 14 19:36 3942 Oct 16 09:52 3942 Oct 18 21:01 3942 Oct 19 01:43 3942 Oct 25 12:10 3942 Oct 27 12:51 3942 Oct 28 00:37 3942 Nov 03 13:08 3942 Nov 08 19:25 3942 Nov 20 11:13 3942 Nov 20 20:23 3942 Dec 03 09:21 3942 Dec 03 09:31 3942 Dec 03 19:31 3942 Dec 03 14:31 3942 Dec 03 14:31 3942 Dec 08 18:13 3942 Dec 15 12:08 3942 Dec 19 09:21 3943 Jan 04 08:40	27° \$\infty\$09'05 0° \$\text{\text{\text{\$\mathbb{M}\text{.}}} 4° \$\text{\text{\$\mathbb{M}\text{.}} 47'27} 30° \$\text{\text{\$\mathbb{A}\text{.}}} \text{\$\mathbb{\text{.}}} \text{\$\mathbb{\text{.}}} \text{\$\mathbb{\text{.}}} \text{\$\mathbb{\text{.}}} 28' \$\text{\$\mathbb{\text{.}}} 29'30} 19° \$\text{\$\mathbb{\text{.}}} 29'30 19° \$\text{\$\mathbb{\text{.}}} 57'41 23° \$\text{\$\mathbb{\text{.}}} 23'01 0° \$\text{\$\mathbb{M}\text{.}} 11'11 0° \$\text{\$\mathbb{A}\text{.}} 47'15 10° \$\text{\$\mathbb{A}\text{.}} 47'58 10° \$\text{\$\mathbb{A}\text{.}} 47'58 10° \$\text{\$\mathbb{A}\text{.}} 47'20 11° \$\text{\$\mathbb{A}\text{.}} 28'32 11° \$\text{\$\mathbb{A}\text{.}} 24'36 0° \$\text{\$\mathbb{\text{.}}} 6° \$\text{\$\mathbb{\text{.}}} 00'06 0° \$\infty\$	0.64088 AU -2°48'10 2°46'28 17°53'42 0°01'30 0°01'28 1.44551 AU	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	3943 Aug 24 12:13 3943 Aug 26 14:27 3943 Sep 04 09:24 3943 Sep 18 04:42 3943 Sep 25 09:01 3943 Sep 28 23:37 3943 Oct 01 22:01 3943 Oct 02 03:52 3943 Oct 11 09:26 3943 Oct 14 09:54 3943 Oct 18 05:09 3943 Nov 02 00:35 3943 Nov 03 04:13 3943 Nov 14 05:51 3943 Nov 14 09:29 3943 Nov 19 07:20 3943 Nov 20 11:33 3943 Nov 20 11:33 3943 Nov 21 09:04 3943 Nov 28 20:49 3943 Dec 08 12:29 3943 Dec 29 23:27 3943 Dec 31 06:18 3944 Jan 07 23:00	27° m 11'24 0° a 9° a 58'29 17° a 13'35 14° a 47'06 11° a 54'12 9° a 10'11 8° a 56'32 4° a 06'03 3° a 41'03 4° a 22'43 7° a 09'18 0° m 2° m 03'54 21° m 31'19 21° m 46'47 0° x' 1° x' 55'47 3° x' 23'30 15° x' 18'17 0° to 28° to 44'43 0° se 4° se 04'52	0.62291 AU -3°46'48 3°45'08 17°51'36 0°42'39 0°42'09

inferior conj	3944 Jan 17 13:56	26° る 06'59	2°14'48	min. Earth dist.	3944 Dec 31 14:54	10° る 22'46	0.68004 AU
minimum elong	3944 Jan 17 11:31	26° る 15'21	2°14'01	morning rise	3945 Jan 06 02:48	3° る 50'26	
min. Earth dist.	3944 Jan 17 18:19	25° ප 51'46	0.67879 AU	direct	3945 Jan 10 13:25	2° る 02'26	
morning rise	3944 Jan 22 17:11	19° る 54'50		morning max el	3945 Jan 19 10:41	7° る 13'38	21°38'09
direct	3944 Jan 27 18:23	17° る 43'57		desc. node	3945 Feb 02 07:48	24°る50'01	
morning max el	3944 Feb 06 21:17	23° る 44'25	23°04'05		3945 Feb 05 21:44	0° ≈	
Ü	3944 Feb 12 10:13	0° ≈		morning set	3945 Feb 20 10:45	22°≈12'40	
desc. node	3944 Feb 16 10:46	5°≈09'27			3945 Feb 25 06:30	0°) €	
desc. node	3944 Mar 04 11:56	0° ∀		max. Earth dist.	3945 Feb 26 21:31		1.41776 AU
morning got	3944 Mar 12 13:37	13° ¥ 01'52		max. Lartii dist.	3743100 20 21.31	2 /(4042	1.41//0 AC
morning set		20°\(\frac{13}{23'53}\)	1 20 <i>057</i> ATT		2045 Mar. 06 11.47	150 W 25107	2004155
max. Earth dist.	3944 Mar 16 21:49	20°π23'33 0°Υ	1.39657 AU	superior conj	3945 Mar 06 11:47	15°) 35'07	
	3944 Mar 22 08:13	0ο, γ		minimum elong	3945 Mar 06 14:20	15°) (46′15	2°04'50
					3945 Mar 14 13:21	0 ° Υ	
superior conj	3944 Mar 24 14:47	4° Y 08'52	-1°50'06	evening rise	3945 Mar 17 09:25	5° Ƴ 11'29	
minimum elong	3944 Mar 24 19:24	4° Ƴ 30′05	1°49'40	asc. node	3945 Mar 25 05:29	19° Ƴ 14'03	
evening rise	3944 Apr 03 05:17	22° Ƴ 19′20			3945 Apr 01 15:24	0°B	
asc. node	3944 Apr 07 08:28	0° 8 09'10		evening max el	3945 Apr 02 19:05	1° 8 12'43	18°10'37
	3944 Apr 07 06:30	0°8		retrograde	3945 Apr 09 15:24	4° 8 40'03	
evening max el	3944 Apr 19 09:54	18° 8 22'27	18°32'36	evening set	3945 Apr 12 04:49	4° 8 11'42	
retrograde	3944 Apr 27 02:37	22° 8 09'47	10 3230	evening sec	3945 Apr 18 08:30	30°RY	
evening set	3944 Apr 29 09:29	21° 8 50'50		inferior conj	3945 Apr 19 01:11	29° Υ 22'15	2°50'16
Č	•	17° 8 22'25	2001100		-	29° Y 15'02	
inferior conj	3944 May 06 23:25		2°01'09	minimum elong	3945 Apr 19 04:21		
minimum elong	3944 May 07 03:01	17° 8 15'22	2°00'05	min. Earth dist.	3945 Apr 22 09:18	26° Y 21′09	0.60162 AU
min. Earth dist.	3944 May 10 09:11	14° 8 43'54	0.58014 AU	morning rise	3945 Apr 26 01:34	23° Y 35'22	
desc. node	3944 May 14 09:55	12° 8 09'23		desc. node	3945 May 01 06:57	21° Y 37'54	
morning rise	3944 May 14 17:24	12° 8 00'02		direct	3945 May 02 14:57	21° Y 32'54	
direct	3944 May 20 14:04	10° 8 32'35		morning max el	3945 May 16 22:27	29° Y 25′15	27°37'01
morning max el	3944 Jun 03 23:11	18° 8 11'31	26°45'04		3945 May 17 12:20	0°8	
	3944 Jun 13 19:56	$\Pi^{\circ}0$			3945 Jun 07 18:03	$\Pi^{\circ}0$	
	3944 Jul 01 05:32	0°€		morning set	3945 Jun 17 20:08	19° ∏ 23'49	
morning set	3944 Jul 03 13:13	4°5948'22		asc. node	3945 Jun 21 04:46	26° Ⅲ 30'44	
asc. node	3944 Jul 04 07:44	6°926'15		use. Houe	3945 Jun 22 19:22	0° 9	
asc. node	3944 Jul 04 07.44	0 32013		max. Earth dist.	3945 Jun 24 03:49	0 S 2°S57'41	1.32063 AU
	2044 1 1 10 12 20	200502116	1001122	max. Earth dist.	3943 Juli 24 03.49	2 303/41	1.32003 AU
superior conj	3944 Jul 10 13:29	20°502'16	1°01'23		2045 1 25 00 55	40652142	0020122
minimum elong	3944 Jul 10 11:16	19°950'02	1°00'59	superior conj	3945 Jun 25 00:55	4°953'42	0°39'23
max. Earth dist.	3944 Jul 10 16:18	20° © 17'46	1.32087 AU	minimum elong	3945 Jun 24 23:16	4° © 44'36	0°39'03
	3944 Jul 15 02:37	$0 ^{\circ} \Omega$		evening rise	3945 Jul 01 20:37	19° © 46'17	
evening rise	3944 Jul 17 10:33	4° Ω 58'17			3945 Jul 06 20:22	$0 {\circ} \Omega$	
	3944 Jul 30 17:18	0° m			3945 Jul 26 01:52	O° Mp	
desc. node	3944 Aug 10 09:13	15° Mp 22'43					
evening max el	57 tag 10 07.15	13 11/22 43		desc. node	3945 Jul 28 06:12	2° m/20'00	
	3944 Aug 16 12:50	22° Mp 06'11	26°45'05	desc. node evening max el	3945 Jul 28 06:12 3945 Jul 29 08:51	2° Mp 20'00 3° Mp 25'33	25°37'41
retrograde	_	22° Mp 06'11	26°45'05	evening max el	3945 Jul 29 08:51		25°37'41
retrograde evening set	3944 Aug 16 12:50	22° Mp 06'11 29° Mp 16'48	26°45'05	evening max el retrograde	3945 Jul 29 08:51 3945 Aug 12 08:07	3° m/25'33 10° m/31'55	25°37'41
evening set	3944 Aug 16 12:50 3944 Aug 30 11:13 3944 Sep 06 07:52	22° Mp 06'11 29° Mp 16'48 27° Mp 16'15		evening max el retrograde evening set	3945 Jul 29 08:51 3945 Aug 12 08:07 3945 Aug 18 08:25	3° M 25'33 10° M 31'55 9° M 07'10	
evening set min. Earth dist.	3944 Aug 16 12:50 3944 Aug 30 11:13 3944 Sep 06 07:52 3944 Sep 10 02:51	22° m 06'11 29° m 16'48 27° m 16'15 24° m 39'17	0.60276 AU	evening max el retrograde evening set min. Earth dist.	3945 Jul 29 08:51 3945 Aug 12 08:07 3945 Aug 18 08:25 3945 Aug 22 20:52	3° m 25'33 10° m 31'55 9° m 07'10 6° m 29'00	0.58221 AU
evening set min. Earth dist. inferior conj	3944 Aug 16 12:50 3944 Aug 30 11:13 3944 Sep 06 07:52 3944 Sep 10 02:51 3944 Sep 13 08:31	22° m 06'11 29° m 16'48 27° m 16'15 24° m 39'17 22° m 00'48	0.60276 AU -4°36'30	evening max el retrograde evening set min. Earth dist. inferior conj	3945 Jul 29 08:51 3945 Aug 12 08:07 3945 Aug 18 08:25 3945 Aug 22 20:52 3945 Aug 26 01:02	3° m 25'33 10° m 31'55 9° m 07'10 6° m 29'00 4° m 14'20	0.58221 AU -5°06'58
evening set min. Earth dist. inferior conj minimum elong	3944 Aug 16 12:50 3944 Aug 30 11:13 3944 Sep 06 07:52 3944 Sep 10 02:51 3944 Sep 13 08:31 3944 Sep 13 13:58	22° m 06'11 29° m 16'48 27° m 16'15 24° m 39'17 22° m 00'48 21° m 49'38	0.60276 AU	evening max el retrograde evening set min. Earth dist.	3945 Jul 29 08:51 3945 Aug 12 08:07 3945 Aug 18 08:25 3945 Aug 22 20:52 3945 Aug 26 01:02 3945 Aug 26 03:22	3° m 25'33 10° m 31'55 9° m 07'10 6° m 29'00 4° m 14'20 4° m 10'12	0.58221 AU -5°06'58
evening set min. Earth dist. inferior conj minimum elong morning rise	3944 Aug 16 12:50 3944 Aug 30 11:13 3944 Sep 06 07:52 3944 Sep 10 02:51 3944 Sep 13 08:31 3944 Sep 13 13:58 3944 Sep 20 22:01	22° m 06'11 29° m 16'48 27° m 16'15 24° m 39'17 22° m 00'48 21° m 49'38 17° m 18'03	0.60276 AU -4°36'30	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3945 Aug 12 08:07 3945 Aug 12 08:07 3945 Aug 18 08:25 3945 Aug 22 20:52 3945 Aug 26 01:02 3945 Aug 26 03:22 3945 Sep 02 16:50	3° m 25'33 10° m 31'55 9° m 07'10 6° m 29'00 4° m 14'20 4° m 10'12 30° R Ω	0.58221 AU -5°06'58
evening set min. Earth dist. inferior conj minimum elong morning rise direct	3944 Aug 16 12:50 3944 Aug 30 11:13 3944 Sep 06 07:52 3944 Sep 10 02:51 3944 Sep 13 08:31 3944 Sep 13 13:58 3944 Sep 20 22:01 3944 Sep 23 06:47	22° m 06'11 29° m 16'48 27° m 16'15 24° m 39'17 22° m 00'48 21° m 49'38 17° m 18'03 16° m 56'55	0.60276 AU -4°36'30	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3945 Jul 29 08:51 3945 Aug 12 08:07 3945 Aug 18 08:25 3945 Aug 22 20:52 3945 Aug 26 01:02 3945 Aug 26 03:22 3945 Sep 02 16:50 3945 Sep 03 00:34	3° m 25'33 10° m 31'55 9° m 07'10 6° m 29'00 4° m 14'20 4° m 10'12 30° R \Omega 29° \Omega 54'46	0.58221 AU -5°06'58
evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	3944 Aug 16 12:50 3944 Aug 30 11:13 3944 Sep 06 07:52 3944 Sep 10 02:51 3944 Sep 13 08:31 3944 Sep 13 13:58 3944 Sep 20 22:01 3944 Sep 23 06:47 3944 Sep 30 06:56	22° m 06'11 29° m 16'48 27° m 16'15 24° m 39'17 22° m 00'48 21° m 49'38 17° m 18'03 16° m 56'55 20° m 11'48	0.60276 AU -4°36'30 4°35'29	evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3945 Jul 29 08:51 3945 Aug 12 08:07 3945 Aug 18 08:25 3945 Aug 22 20:52 3945 Aug 26 01:02 3945 Aug 26 03:22 3945 Sep 02 16:50 3945 Sep 03 00:34 3945 Sep 05 12:23	3° m 25'33 10° m 31'55 9° m 07'10 6° m 29'00 4° m 14'20 4° m 10'12 30° R L 29° \$\Omega\$ 54'46 29° \$\Omega\$ 35'15	0.58221 AU -5°06'58
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3946 Oct 29 04:22 0° evening max el 3946 Nov 06 17:54 9° #41'38 25°27'38 superior conj 3947 Sep 06 04:32 14° minimum elong 3947 Sep 06 04:10 14° ##26'51 1°44'04 minimum elong 3947 Sep 06 04:10 14° ##26'51 1°44'04 minimum elong 3947 Sep 06 04:10 14° ##26'52 1°44'04 minimum elong 3947 Sep 06 04:10 14° ##26'51 1°44'04 minimum elong 3947 Sep 06 04:10 14° ##26'51 1°44'04 minimum elong 3947 Sep 06 04:10 14° ##26'51 1°44'04 minimum elong 3947 Sep 06 04:10 14° ##26'51 1°44'04 minimum elong 3947 Sep 06 04:10 14° ##26'51 1°44'04 minimum elong 3947 Sep 06 04:10 14° ##26'51 1°44'04 minimum elong 3947 Sep 06 04:10 14° ##26'51 1°44'04 minimum elong 3947 Sep 06 04:10 14° ##26'51 1°44'04 minimum elong 3947 Sep 06 04:10 14° ##26'51 1°44'04 minimum elong 3947 Sep 06 04:10 14° ##26'51 1°44'04 minimum elong 3947 Sep 06 04:10 14° ##26'51 1°44'04 minimum elong 3947 Sep 06 04:10 14° ##26'51 1°44'04 minimum elong 3947 Sep 06 04:10 14° ##26'51 1°44'04 minimum elong 3947 Sep 06 04:10 14° ##26'51 1°44'04 minimum elong 3947 Sep 06 04:10 14° ##26'51 1°44'04 minimum elong 14° ##26'51 1°45'04	desc nodo				morning set	-		
evening max el 3946 Nov 06 17:54 9° 🗷 41'38 25° 27'38 superior conj 3947 Sep 06 04:32 14° Mp 26'51 1° 44'04 retrograde 3946 Nov 18 21:07 16° 🗷 40'29 minimum elong 3947 Sep 06 04:10 14° Mp 24'55 1° 44'04	uese. Hout					3741 Aug 30 00.41	עוו ט	
retrograde 3946 Nov 18 21:07 16° ₹40′29 minimum elong 3947 Sep 06 04:10 14° m 24′55 1°44′04	ovenina mar1			25027120	gunorier con:	2047 Sam 06 04:22	1.40 m. 2.615 1	1944!04
	•			23 21 30		-	-	
cvenning set 3940 Nov 24 16.33 14 x 1240 max. Earth dist. 394/ Sep 10 15:03 25 10 25:36 1.35494 AU	•				_	•		
	evening set	5940 NOV 24 18:55	14 × 12 46		max. Earth dist.	3947 Sep 10 15:03	25°56	1.33494 AU

	3947 Sep 14 00:15	0∘ ত		minimum elong	3948 Aug 20 06:49	28° Ω 54'58	1°38'48
evening rise	3947 Sep 14 18:53	1° ≏ 28'07			3948 Aug 20 19:03	0° m)	
desc. node	3947 Sep 27 23:34	24° ₽ 14'49		max. Earth dist.	3948 Aug 23 09:03	5° m 25'55	1.34009 AU
	3947 Oct 01 17:30	0°M₊		evening rise	3948 Aug 28 04:11	15° m 08'39	
evening max el	3947 Oct 20 06:20	23°M22'10	26°29'42		3948 Sep 05 04:10	0∘ ⊽	
	3947 Oct 29 19:52	0° ∡ ¹		desc. node	3948 Sep 13 20:36	14° ≙ 11'58	
retrograde	3947 Nov 02 03:25	0° ∡ ³35'37			3948 Sep 25 10:07	0° M	
	3947 Nov 05 06:13	30°RM		evening max el	3948 Oct 01 18:56	6°M53'23	27°11'45
evening set	3947 Nov 08 14:23	27°M57'43		retrograde	3948 Oct 15 03:58	14° M 11'14	
min. Earth dist.	3947 Nov 12 17:08	23°M41'56	0.66253 AU	evening set	3948 Oct 22 01:51	11°M29'54	
inferior conj	3947 Nov 14 09:07	21°M41'24		min. Earth dist.	3948 Oct 25 22:20		0.64971 AU
minimum elong	3947 Nov 14 11:04	21°M35'28	1°10'54	inferior conj	3948 Oct 28 02:18	5°M25'37	
asc. node	3947 Nov 17 21:19	17°M47'54		minimum elong	3948 Oct 28 06:03	5°M15'14	2°11'26
morning rise	3947 Nov 20 08:24	15°M56'01		morning rise	3948 Nov 03 11:16	29° £ 53′28	
direct	3947 Nov 23 07:35	15°M06'27	10022150	1-	3948 Nov 03 05:51	30° ₹ Ω	
morning max el	3947 Nov 29 23:14 3947 Dec 08 13:31	18° ™ .44'49 0° ∡ 7	18°32'58	asc. node direct	3948 Nov 03 18:22 3948 Nov 06 02:56	29° £ 45'41 29° £ 16'09	
morning set	3947 Dec 08 13:31 3947 Dec 20 07:48	18° ∡ ¹28'58		direct	3948 Nov 09 00:25	0°M	
desc. node	3947 Dec 20 07.48 3947 Dec 24 22:52	25° ₹ 50'14		morning max el	3948 Nov 12 14:36	2°M43'51	18°03'04
dese. Hode	3947 Dec 24 22:32 3947 Dec 27 14:01	23 × 30 14		morning set	3948 Nov 30 11:46	29°M35'09	10 03 04
	3)47 BCC 27 14.01	0		morning set	3948 Nov 30 17:45	0° ⊼ ¹	
superior conj	3948 Jan 05 06:41	13° る 40'29	-1°12'24	desc. node	3948 Dec 10 19:53	16° ∡ 32′13	
minimum elong	3948 Jan 04 22:10	13° る 07'06					
max. Earth dist.	3948 Jan 05 13:00	14° る 05'12	1.45251 AU	superior conj	3948 Dec 14 14:13	22° ∡ ³34′03	-0°25'38
	3948 Jan 15 15:59	0° ≈		minimum elong	3948 Dec 14 11:02	22° ∡ °21'23	0°25'11
evening rise	3948 Jan 21 03:00	8° ≈ 38'42		max. Earth dist.	3948 Dec 18 08:27	28° ∡ ³31'23	1.45016 AU
greatest brilliancy	3948 Jan 30 02:56	22° ≈ 55′03	-0.8m		3948 Dec 19 06:58	ರ°0	
	3948 Feb 03 17:12	0° ∀		evening rise	3948 Dec 30 22:01	18° る 05'48	
evening max el	3948 Feb 12 06:04	11°) 1 3′47	18°58'41		3949 Jan 07 15:50	0°≈	
asc. node	3948 Feb 13 20:35	12°) 43′43		greatest brilliancy	3949 Jan 13 14:10	8° ≈ 57'28	-0.7m
retrograde	3948 Feb 19 02:11	15° ∺ 05'05		evening max el	3949 Jan 25 12:08	24° ≈ 45'43	19°49'07
evening set	3948 Feb 22 09:49	14° 米 01′22		asc. node	3949 Jan 30 17:38	28° ≈ 38'55	
inferior conj	3948 Feb 28 00:13	8° ∺ 16′28	3°28'24	retrograde	3949 Feb 01 23:43	29° ≈ 06′17	
minimum elong	3948 Feb 27 22:44	8° ∺ 21'07	3°28'14	evening set	3949 Feb 05 15:08	27°≈48'44	
min. Earth dist.	3948 Feb 29 15:01	6°) 14'37	0.65786 AU	inferior conj	3949 Feb 11 01:33	21°≈49'13	3°07'22
morning rise	3948 Mar 04 11:16	2° ∺ 03'31		minimum elong	3949 Feb 10 23:18	21°≈56'42	3°06'54
1' 4	3948 Mar 07 12:21	30°R≈ 29°≈13'08		min. Earth dist.	3949 Feb 12 01:48	20°≈28'34	0.66927 AU
direct	3948 Mar 10 23:21 3948 Mar 14 16:28	29° ≈ 13'08		morning rise direct	3949 Feb 16 07:15 3949 Feb 22 07:16	15°≈35'22 12°≈54'37	
desc. node	3948 Mar 21 22:06	4° ¥ 56'33		morning max el	3949 Mar 06 07:53		25°22'04
morning max el	3948 Mar 23 22:51		26°36'53	desc. node	3949 Mar 08 19:08	20°≈42'47	23 22 04
morning max or	3948 Apr 10 19:40	0° Υ	20 30 23	dese. Hode	3949 Mar 14 19:47	0°) €	
morning set	3948 Apr 28 22:13	0° 8 45'34			3949 Apr 03 23:13	0°Υ	
	3948 Apr 28 12:34	0°8		morning set	3949 Apr 11 13:02	13° Y '09'18	
max. Earth dist.	3948 May 03 02:45	8° 8 52'54	1.34588 AU	max. Earth dist.	3949 Apr 15 05:34	19° Y 57'19	1.36335 AU
	•				3949 Apr 20 10:37	0°8	
superior conj	3948 May 07 15:21	18° 8 03'21	-0°42'24				
minimum elong	3948 May 07 17:36	18° 8 14'59	0°41'58	superior conj	3949 Apr 21 05:54	1° 8 35'30	
asc. node	3948 May 11 19:51	26° 8 47'51		minimum elong	3949 Apr 21 09:40	1° 8 54'14	1°10'33
	3948 May 13 08:29	$\Pi^{\circ}0$		asc. node	3949 Apr 28 16:54	16° 8 40'47	
evening rise	3948 May 15 05:06	3° Ⅱ 52'43		evening rise	3949 Apr 29 10:03	18° 8 07'38	
	3948 May 29 23:04	0ංම			3949 May 05 12:00	Π °0	
evening max el	3948 Jun 03 10:42	5°509'46	21°01'07	evening max el	3949 May 16 20:49	16° Ⅲ 30′21	19°47'41
retrograde	3948 Jun 15 03:54	10°954'10		retrograde	3949 May 26 20:20	21° Ⅱ 21'44	
evening set	3948 Jun 17 08:21	10°542'57		evening set	3949 May 28 19:19	21° I I1'21	
desc. node	3948 Jun 17 21:18	10°936'51	2022105	desc. node	3949 Jun 04 18:21 3949 Jun 06 15:51	18° Ⅱ 18'27 17° Ⅱ 09'36	0033141
inferior conj	3948 Jun 26 16:46 3948 Jun 26 09:48	6°955'10		inferior conj	3949 Jun 06 15:51 3949 Jun 06 14:19	17°Щ09'36 17°Щ11'59	
minimum elong min. Earth dist.	3948 Jun 26 09:48 3948 Jun 27 07:23	6°953'10	0.54840 AU	minimum elong min. Earth dist.	3949 Jun 06 14:19 3949 Jun 08 20:24	1/°Щ11′59 15°Щ48′50	0°33'07 0.55460 AU
morning rise	3948 Jul	0 \$2442 2°\$44'58	0.5-10-TO AU	morning rise	3949 Jun 15 07:08	13 ∏ 48 30 12° ∏ 41'31	0.55 TOU AU
direct	3948 Jul 09 00:20	2°917'52		direct	3949 Jun 19 15:23	12 Ⅱ 41 31 11° Ⅱ 59'53	
morning max el	3948 Jul 21 21:52		22°42'46	morning max el	3949 Jul 03 12:20	18° Ⅲ 53'41	24°26'05
	3948 Aug 06 06:02	0°Ω	· - ·•		3949 Jul 12 18:49	0°95	000
asc. node	3948 Aug 07 19:08	2° £ 54'03		asc. node	3949 Jul 25 16:10	22° © 26'59	
morning set	3948 Aug 13 05:55	13° £ 53′38		morning set	3949 Jul 28 17:40	28°547'37	
-	-			-	3949 Jul 29 07:18	$0^{\circ}\Omega$	
superior conj	3948 Aug 20 08:20	29° Ω 03'02	1°38'54				

superior conj minimum elong max. Earth dist.	3949 Aug 04 16:49 3949 Aug 04 14:38 3949 Aug 06 11:53	13°Ω52'04 13°Ω40'16 17°Ω45'20	1°28'02 1°27'48 1.32937 AU	superior conj minimum elong	3950 Jul 20 03:54 3950 Jul 20 01:34 3950 Jul 20 17:04	28°547'32 28°534'41 0° Ω	1°12'21 1°11'59
evening rise	3949 Aug 12 00:06 3949 Aug 12 08:06	29° \O 19'23 0° m	1.32937 AU	max. Earth dist.	3950 Jul 20 17:04 3950 Jul 20 20:54 3950 Jul 27 03:29	0° Ω 21'04 13° Ω 51'17	1.32277 AU
	3949 Aug 29 06:31	0∘ ⊽		<i>5</i> 21	3950 Aug 04 09:30	0° mp	
desc. node	3949 Aug 31 17:38	3° ≏ 38'42		desc. node	3950 Aug 18 14:39	22° Mp 22'40	
evening max el	3949 Sep 14 05:53	20° ≏ 01'48	27°26'48		3950 Aug 24 23:19	0。 亚	
retrograde	3949 Sep 27 22:02	27° ≏ 18'02		evening max el	3950 Aug 27 12:37	2° △ 34'18	27°09'53
evening set	3949 Oct 05 02:16	24° ≏ 42'42		retrograde	3950 Sep 10 09:04	9° ≏ 47'22	
min. Earth dist.	3949 Oct 08 18:00	21° 2 34'46	0.63354 AU	evening set	3950 Sep 17 11:47	7° Ω 30'04	0 (1 450 47)
inferior conj	3949 Oct 11 10:05	18° £ 55'04		min. Earth dist.	3950 Sep 21 02:57	4° £ 46'09	0.61453 AU
minimum elong	3949 Oct 11 15:23	18° Ω 41'49	3°11'55	inferior conj	3950 Sep 24 05:19	2° £ 02'19 1° £ 49'12	
morning rise direct	3949 Oct 18 05:55 3949 Oct 20 16:40	13° △ 39'41 13° △ 11'00		minimum elong	3950 Sep 24 11:15 3950 Sep 26 14:50	30°RM)	4°08'02
asc. node	3949 Oct 20 10:40 3949 Oct 21 15:25	13° ⊆ 11'00		morning rise	3950 Oct 01 12:31	27°Mp07'12	
morning max el	3949 Oct 27 07:12	16° ⊆ 36'26	17°50'36	direct	3950 Oct 01 12:91 3950 Oct 03 21:09	26° Mp 44'05	
	3949 Nov 05 19:21	0°M	-,	asc. node	3950 Oct 08 12:25	28° Mp 16'58	
morning set	3949 Nov 12 17:05	11°M54'24			3950 Oct 10 15:31	0∘ ⊽	
C	3949 Nov 23 06:35	0° ∡ ¹		morning max el	3950 Oct 10 22:01	0° £ 15'37	17°56'30
				morning set	3950 Oct 26 17:21	25° ≏ 07'29	
superior conj	3949 Nov 24 19:11	2° х 32′06	0°20'05		3950 Oct 29 09:21	0° M.	
minimum elong	3949 Nov 24 21:14	2° ҂ 140′37	0°19'48				
desc. node	3949 Nov 27 16:55	7° ∡ 18′23		superior conj	3950 Nov 06 02:58	13°M48'54	0°56'59
max. Earth dist.	3949 Dec 01 02:13	12° ∡ ⁴46'46	1.44071 AU	minimum elong	3950 Nov 06 07:05	14°M06'48	0°56'27
evening rise	3949 Dec 10 07:34	27° ∡ 15'33		max. Earth dist.	3950 Nov 13 15:18	26°M32'39	1.42533 AU
	3949 Dec 12 02:23	0°ප		desc. node	3950 Nov 14 13:56	28°M05'37	
	3950 Jan 01 15:02	0°≈	20052121		3950 Nov 15 18:00	0° 🖍 1.712.€	
evening max el	3950 Jan 08 12:46	8°≈18'14	20°53′21	evening rise	3950 Nov 19 23:49	6°⊀47'36 0°る	
retrograde asc. node	3950 Jan 16 21:46 3950 Jan 17 14:41	13°≈15'24 13°≈12'41		evening max el	3950 Dec 05 08:49 3950 Dec 22 07:53	0°る 21° る 51'42	22007140
evening set	3950 Jan 20 22:28	13 ≈1241 11°≈42'56		retrograde	3950 Dec 22 07.33 3950 Dec 31 18:30	21 3 31 42 27° る 28'54	22 0746
inferior conj	3950 Jan 26 07:00	5°≈31'25	2°36'24	asc. node	3951 Jan 04 11:42	26°る15'04	
minimum elong	3950 Jan 26 04:30	5°≈39'59	2°35'41	evening set	3951 Jan 05 06:08	25° ප් 40'42	
min. Earth dist.	3950 Jan 26 18:10	4°≈53'02	0.67649 AU	inferior conj	3951 Jan 10 14:30	19° る 20'36	1°57'15
	3950 Jan 30 16:55	30°Ŗ₹		minimum elong	3951 Jan 10 12:15	19° る 28'25	1°56'29
morning rise	3950 Jan 31 10:23	29° ප් 18'21		min. Earth dist.	3951 Jan 10 13:56	19° る 22'34	0.67976 AU
direct	3950 Feb 05 20:04	26° る 55'23		morning rise	3951 Jan 15 18:14	13° る 09'44	
	3950 Feb 12 22:13	0° ≈		direct	3951 Jan 20 13:01	11° පි 08'46	
morning max el	3950 Feb 16 16:28	3° ≈ 23′23	23°55'23	morning max el	3951 Jan 30 03:11	16° る 48'02	22°26'43
desc. node	3950 Feb 23 16:10	11° ≈ 25′02			3951 Feb 09 23:15	0° ≈	
	3950 Mar 09 00:33	0° ∀		desc. node	3951 Feb 10 13:11	0° ≈ 47'36	
morning set	3950 Mar 24 06:20	24° ∺ 27′29			3951 Mar 02 02:27	0° ∀	
70 d 15 d	3950 Mar 27 10:40	0° Υ	1 20 100 1 11	morning set	3951 Mar 04 20:18	4°) €26'02	1 40500 477
max. Earth dist.	3950 Mar 28 01:36	1° Y 06'13	1.38408 AU	max. Earth dist.	3951 Mar 09 22:01	12° H 51'50	1.40583 AU
superior conj	3950 Apr 04 07:58	14° Y 27'35		superior conj	3951 Mar 17 17:03	26° ¥ 28′30	-1°57'42
minimum elong	3950 Apr 04 12:40	14° Y 49'54	1°36'51	minimum elong	3951 Mar 17 21:08	26°) 46′54	1°57'26
	3950 Apr 12 08:06	0° 8			3951 Mar 19 15:44	0° Υ	
evening rise	3950 Apr 13 08:02	1° 8 57'24		evening rise	3951 Mar 27 19:51	15° Y 13′23	
asc. node	3950 Apr 15 13:58	6° 8 19'52	10054106	asc. node	3951 Apr 02 11:00	25° Ƴ 39'15	
evening max el	3950 Apr 29 18:17	28° ႘ 31'37 0° Ⅱ	18°54'06	avanina may al	3951 Apr 04 22:46	0° と 11° と 06'43	18°20'45
retrograde	3950 May 01 10:26 3950 May 08 04:13	0 П 2°П38'24		evening max el retrograde	3951 Apr 13 00:10 3951 Apr 20 06:58	14° 8 43'54	18 2043
evening set	3950 May 10 07:12	2° I I23'42		evening set	3951 Apr 22 16:31	14° 8 21'21	
evening set	3950 May 15 13:52	30°R 8		inferior conj	3951 Apr 29 22:34	9° 8 44'02	2°29'38
inferior conj	3950 May 18 08:28	28° 8 06'14	1°13'04	minimum elong	3951 Apr 30 02:13	9° 8 36'22	
minimum elong	3950 May 18 11:09	28° 8 01'27	1°12'09	min. Earth dist.	3951 May 03 09:09	6° 8 52'38	0.58904 AU
min. Earth dist.	3950 May 21 12:21	25° 8 51'38	0.56909 AU	morning rise	3951 May 07 09:00	4° 8 09'33	
desc. node	3950 May 22 15:21	25° 8 06'51		desc. node	3951 May 09 12:23	3° 8 11'08	
morning rise	3950 May 26 11:52	23° 8 02'20		direct	3951 May 13 13:36	2° 8 27'02	
direct	3950 May 31 19:26	21° 8 54'38		morning max el	3951 May 27 23:02	10° 8 13'29	27°11'31
morning max el	3950 Jun 15 03:12	29° 8 20'46	26°00'50		3951 Jun 12 04:40	Π °0	
	3950 Jun 15 19:11	$\Pi^{\circ}0$		morning set	3951 Jun 27 13:54	28° Ⅱ 22'42	
	3950 Jul 06 09:18	0ං ව			3951 Jun 28 08:24	0°€	
asc. node	3950 Jul 12 13:12	12°516'56		asc. node	3951 Jun 29 10:14	2° © 17'25	
morning set	3950 Jul 13 04:54	13° © 39'33					

superior conj	3951 Jul 04 15:42	13° © 42'06	0°52'30	superior conj	3952 Jun 18 02:31	28° II 30'10	0°20'04
minimum elong	3951 Jul 04 13:42 3951 Jul 04 13:40	13°930'54	0°52'05	minimum elong	3952 Jun 18 02:31	28° I I23'08	0°28'47
max. Earth dist.	3951 Jul 04 18:40	13° © 02'13	1.32023 AU	minimum clong	3952 Jun 18 18:54	0°9	0 20 47
evening rise	3951 Jul 11 11:43	28°935'11	1.52025 710	evening rise	3952 Jun 24 22:44	13°924'25	
evening rise	3951 Jul 12 03:49	0°Ω		evening rise	3952 Jul 03 06:43	0°Ω	
	3951 Jul 28 19:38	0° m		evening max el	3952 Jul 21 05:39	25° Ω 19'50	25°01'22
desc. node	3951 Aug 05 11:39	10° m 05'25		desc. node	3952 Jul 22 08:40	26° £ 22′21	
evening max el	3951 Aug 09 12:42	14° m) 20'18	26°19'49		3952 Jul 27 05:46	0° m)	
retrograde	3951 Aug 23 12:02	21° m 30'08		retrograde	3952 Aug 04 04:32	2° m/23'36	
evening set	3951 Aug 30 01:39	19° m 43'40		evening set	3952 Aug 09 15:42	1° Mp 15'29	
min. Earth dist.	3951 Sep 03 01:51	17° m 08'34	0.59388 AU		3952 Aug 12 06:14	30° R Ω	
inferior conj	3951 Sep 06 08:28	14° m 37′32	-4°52'36	min. Earth dist.	3952 Aug 14 17:17	28° Ω 30'42	0.57399 AU
minimum elong	3951 Sep 06 12:59	14° m 28'50	4°51'59	inferior conj	3952 Aug 17 16:26	26° Ω 31'56	-5°10'33
morning rise	3951 Sep 14 02:29	10° m 04'58		minimum elong	3952 Aug 17 16:30	26° Ω 31'49	5°10'34
direct	3951 Sep 16 12:03	9° m 44'53		morning rise	3952 Aug 25 19:44	22° Ω 21′28	
morning max el	3951 Sep 24 07:44	13° My 32'00	18°22'06	direct	3952 Aug 28 09:25	22° Ω 02'18	
asc. node	3951 Sep 25 09:27	14° m 37'38		morning max el	3952 Sep 06 09:00	26° Ω 15'52	19°08'48
	3951 Oct 05 12:25	0∘ ⊽			3952 Sep 09 17:52	0° m ∕	
morning set	3951 Oct 10 07:02	8° ≏ 58'28		asc. node	3952 Sep 11 06:29	2° Mp 02'27	
	2051 0 . 10 10 21	260 2 1 4122	1000115	morning set	3952 Sep 23 06:05	23° Mp 16'20	
superior conj	3951 Oct 19 10:21	26° £ 14'23	1°22'45		3952 Sep 26 15:14	0∘ ⊽	
minimum elong	3951 Oct 19 14:01	26° £ 31'15	1°22'21		2052 0 + 01 11 52	00.0.22112	1027156
F 41 F 4	3951 Oct 21 11:53	0°M	1 40505 ATT	superior conj	3952 Oct 01 11:53	9° £ 33'12	
max. Earth dist.	3951 Oct 26 22:47	9°M36'32	1.40595 AU	minimum elong max. Earth dist.	3952 Oct 01 14:02	9° £ 43'35	1°37'47
evening rise desc. node	3951 Oct 31 11:24 3951 Nov 01 10:57	17°M13'33 18°M50'17			3952 Oct 08 03:12	21° ♀ 59'25 28° ♀ 44'07	1.38511 AU
desc. node	3951 Nov 01 10:57 3951 Nov 08 11:42	18°11∟3017 0° ⊼ 1		evening rise	3952 Oct 11 22:27 3952 Oct 12 15:59	28° ≥≥ 4407 0°M	
	3951 Nov 30 00:02	0°る		desc. node	3952 Oct 12 13.59 3952 Oct 18 07:58	9°M28'30	
evening max el	3951 Nov 30 00:02 3951 Dec 04 22:49	5° る 28'12	23°27'30	desc. Hode	3952 Oct 31 21:45	9 11 G 28 30	
retrograde	3951 Dec 04 22:49	11° 石 43'17	23 27 30	evening max el	3952 Nov 16 11:39	0 ^ 19° √ 08'44	24°46'02
evening set	3951 Dec 19 12:27 3951 Dec 20 12:32	9° ප 39'06		retrograde	3952 Nov 28 02:21	25° × 754'07	24 40 02
asc. node	3951 Dec 22 08:43	7° る 49'58		evening set	3952 Dec 03 16:05	23° × ⁷ 34'37	
inferior conj	3951 Dec 25 22:13	3° る 14'20	1°11'13	asc. node	3952 Dec 08 05:45	18° × 724'29	
minimum elong	3951 Dec 25 20:39	3° ₹ 19'43	1°10'36	min. Earth dist.	3952 Dec 08 06:10	18° ≮ 23'08	0.67556 AU
min. Earth dist.	3951 Dec 25 10:44	3°₹53'42	0.67937 AU	inferior conj	3952 Dec 09 04:21	17° ∡ ¹09'37	0°19'16
	3951 Dec 28 09:10	30°R ✓		minimum elong	3952 Dec 09 03:53	17° ,7 11'11	0°19'05
morning rise	3951 Dec 31 04:42	27° ₹ 07'34		morning rise	3952 Dec 14 15:48	11° ∡ ¹09'07	
direct	3952 Jan 04 09:17	25° ₹ 29'21		direct	3952 Dec 18 07:33	9° ∡ 152'13	
	3952 Jan 12 10:31	0°ರ		morning max el	3952 Dec 25 19:27	14° ₰ 07'06	19°53'39
morning max el	3952 Jan 12 19:28	0° る 22'09	21°04'18		3953 Jan 07 00:42	0° ප	
desc. node	3952 Jan 28 10:13	20° る 39'20		desc. node	3953 Jan 14 07:13	10° る 51'38	
	3952 Feb 03 17:30	0° ≈		morning set	3953 Jan 21 02:23	21° る 15'59	
morning set	3952 Feb 12 06:25	13° ≈ 07'39			3953 Jan 26 17:17	0° ≈	
max. Earth dist.	3952 Feb 20 00:30	25° ≈ 31'36	1.42578 AU	max. Earth dist.	3953 Feb 01 10:48	9° ≈ 02'44	1.44132 AU
	3952 Feb 22 17:44	0° ∀					
		>/		superior conj	3953 Feb 06 13:27	17°≈15'53	
superior conj	3952 Feb 27 04:08	7° ₩ 27'13		minimum elong	3953 Feb 06 08:20	16°≈55'08	2°00'49
minimum elong	3952 Feb 27 04:54	7° ₩ 30'27	2°07'23	avanina riaa	3953 Feb 14 06:30	0° ₩	
evening rise	3952 Mar 09 17:32 3952 Mar 10 23:09	27°) 46′55 0° °		evening rise	3953 Feb 19 20:37 3953 Mar 04 05:31	9° ℋ 28'28 0° Ƴ	
asc. node	3952 Mar 19 08:02	14° Υ 32'33		asc. node	3953 Mar 06 05:04	2° Υ 50'53	
evening max el	3952 Mar 26 11:09	24° Y 07'10	18°07'14	evening max el	3953 Mar 09 23:56	7° Υ 23'29	18°12'53
retrograde	3952 Apr 02 02:21	27° Υ 30'43	10 0/ 14	retrograde	3953 Mar 16 10:04	10° Υ 48'04	10 12 33
evening set	3952 Apr 04 18:17	26° Υ 57'59		evening set	3953 Mar 19 07:55	10° Υ 03'51	
inferior conj	3952 Apr 11 08:25	22° Υ 00'09	3°14'54	inferior conj	3953 Mar 25 10:05	4° Υ 46'15	3°34'38
minimum elong	3952 Apr 11 10:57	21° Υ 54'00	3°14'31	minimum elong	3953 Mar 25 10:51	4° Υ 44'07	3°34'36
min. Earth dist.	3952 Apr 14 12:51	18° Ƴ 56'43	0.61095 AU	min. Earth dist.	3953 Mar 28 01:13	1° Y 54'36	0.63174 AU
morning rise	3952 Apr 18 01:40	16° Ƴ 05'47			3953 Mar 29 23:26	30° ₹	
direct	3952 Apr 24 19:29	13° Ƴ 49'26		morning rise	3953 Mar 31 12:45	28°) 40′43	
desc. node	3952 Apr 25 09:25	13° Y 50'24		direct	3953 Apr 07 10:15	26°) €00'35	
morning max el	3952 May 09 01:05	21° Y 45'57	27°47'43	desc. node	3953 Apr 12 06:27	27°) €09'04	
	3952 May 16 05:53	9° 8			3953 Apr 16 21:00	0° Υ	
	3952 Jun 04 05:48	$\Pi^{\circ}0$		morning max el	3953 Apr 21 08:08	3° Y 58'38	27°46'25
morning set	3952 Jun 10 18:51	12° Ⅱ 51'15			3953 May 10 19:34	0° 8	
asc. node	3952 Jun 15 07:17	22° Ⅲ 23'55		morning set	3953 May 25 17:32	26° 8 57'59	
max. Earth dist.	3952 Jun 16 18:51	25° Ⅱ 37'01	1.32181 AU		3953 May 27 05:30	0°II	
				max. Earth dist.	3953 May 31 00:18	7° Ⅱ 53'30	1.32761 AU

superior conj	3953 Jun 02 10:35	13° Ⅱ 05'41	0002145	superior conj	3954 May 17 13:52	27° 8 22'21	0025120
minimum elong	3953 Jun 02 10:35	13° I I0341 13° I I04'59	0°02'43	minimum elong	3954 May 17 15:12	27° 8 29'22	
behind sun begin	3953 Jun 02 10:27 3953 Jun 02 05:15	13 H 0439	0 0243	minimum ciong	3954 May 17 13:12 3954 May 18 19:43	27 О 2922	0 23 21
behind sun end	3953 Jun 02 05:19	13° I I33'05		asc. node	3954 May 20 01:24	2° П 37'34	
asc. node	3953 Jun 02 04:20	13° Ⅱ 33'03		evening rise	3954 May 24 21:26	12° ∏ 53'00	
evening rise	3953 Jun 02 04:20	28° I 12'30		evening rise	3954 Jun 02 15:55	0°95	
evening rise	3953 Jun 10 06:58	0°95		evening max el	3954 Jun 14 11:19	16°9516'33	21°51'00
	3953 Jun 27 14:55	$0 {\circ} \Omega$		desc. node	3954 Jun 26 02:44	22° © 27'37	21 31 00
evening max el	3953 Jul 02 18:45	5° Ω 48'29	23°26'31	retrograde	3954 Jun 27 01:07	22° © 29'38	
desc. node	3953 Jul 09 05:41	10° Ω 41'17	23 2031	evening set	3954 Jun 29 16:45	22° © 13'51	
retrograde	3953 Jul 16 08:26	12° Ω 36'07		min. Earth dist.	3954 Jul 08 15:01	18°925'01	0.54925 AU
evening set	3953 Jul 20 07:55	12° Ω 01'30		inferior conj	3954 Jul 09 01:13	18° © 10'45	
min. Earth dist.	3953 Jul 27 04:32	8°Ω51'27	0.55802 AU	minimum elong	3954 Jul 08 16:45	18°522'36	3°32'07
inferior conj	3953 Jul 29 04:24	7° Ω 40'37		morning rise	3954 Jul 17 18:13	14° © 18'59	3 32 07
minimum elong	3953 Jul 28 22:27	7° Ω 49'28	4°46'53	direct	3954 Jul 20 23:36	13°956'08	
morning rise	3953 Aug 06 15:25	3°Ω46'42	4 40 33	morning max el	3954 Aug 02 01:39	19°935'56	21°45'37
direct	3953 Aug 00 13:25 3953 Aug 09 11:49	3° Ω 26'47		morning max cr	3954 Aug 10 13:27	0°Ω	21 4337
morning max el	3953 Aug 19 23:12	8° Ω 18'33	20°17'18	asc. node	3954 Aug 16 00:37	9° Ω 09'45	
asc. node	3953 Aug 19 23:12 3953 Aug 29 03:33	20° Ω 17'21	20 17 10	morning set	3954 Aug 22 20:49	22° Ω 40'55	
ase. Hode	3953 Sep 03 12:41	0° mp		morning set	3954 Aug 26 08:13	0°m)	
morning set	3953 Sep 07 11:29	7° m 53'05			3734 Mug 20 00.13	עוויי	
morning sec	3333 Бер 07 11.23	/ 11/25 05		superior conj	3954 Aug 30 02:40	7° m 57'11	1°42'38
superior conj	3953 Sep 15 02:42	23° m)31'45	1°44'03	minimum elong	3954 Aug 30 01:46	7° Mp 52'24	1°42'36
minimum elong	3953 Sep 15 02:42		1°44'03	max. Earth dist.	3954 Sep 02 22:41	15° Mp 51'19	1.34814 AU
minimum ciong	3953 Sep 18 08:40	0° ⊡	1 44 05	evening rise	3954 Sep 07 08:22	24° mp 32'35	1.54014 710
max. Earth dist.	3953 Sep 10 00:40 3953 Sep 20 09:39	ა _ 3° ჲ 57'27	1.36521 AU	evening rise	3954 Sep 10 05:56	ე° Ω	
evening rise	3953 Sep 24 06:54	11° ⊆ 14'28	1.30321 AU	desc. node	3954 Sep 22 02:02	ა <u> </u>	
desc. node	3953 Oct 05 05:00	29° £ 56'05		dese. Hode	3954 Sep 28 18:50	0°M	
dese. Hode	3953 Oct 05 05:59	0°M		evening max el	3954 Oct 12 12:40	16°M29'08	26°50'21
	3953 Oct 03 05:39 3953 Oct 27 05:26	0° ⊼		retrograde	3954 Oct 25 15:12	23°M45'12	20 3021
evening max el	3953 Oct 27 09:20 3953 Oct 30 00:10	2° x ⁷ 51'39	25°56'05	evening set	3954 Nov 01 07:24	21°M04'36	
retrograde	3953 Nov 11 11:27	9° × 757'11	23 30 03	min. Earth dist.	3954 Nov 05 07:20	17°M04'20	0.65757 AU
evening set	3953 Nov 17 11:27	7°×724'40		inferior conj	3954 Nov 07 04:26	14°M53'00	
min. Earth dist.	3953 Nov 21 21:49	2° × ⁷ 48'28	0.66835 AU	minimum elong	3954 Nov 07 07:08	14°M45'05	1°36'23
inferior conj	3953 Nov 21 21:47 3953 Nov 23 07:07	1°×704'02		asc. node	3954 Nov 11 23:49	10°M02'54	1 30 23
minimum elong	3953 Nov 23 08:06	1°×0402	0°36'59	morning rise	3954 Nov 13 07:41	9°M13'08	
minimum clong	3953 Nov 24 03:40	30°RM	0 3037	direct	3954 Nov 16 03:25	8°M29'14	
asc. node	3953 Nov 25 02:47	28°M50'37		morning max el	3954 Nov 22 16:27	12°M01'38	18°18'12
morning rise	3953 Nov 29 01:33	25°M12'26		morning max cr	3954 Dec 05 10:45	0° √	10 10 12
direct	3953 Dec 02 06:16	24°M13'52		morning set	3954 Dec 03 10:45	10° × ⁷ 21'49	
morning max el	3953 Dec 02 00:10 3953 Dec 09 03:06	28°M02'07	18°57'49	desc. node	3954 Dec 11 20:35	21° х 56'49	
morning max er	3953 Dec 09 03:00 3953 Dec 10 22:42	0° √	10 37 47	dese. Hode	3954 Dec 24 02:57	0°る	
morning set	3953 Dec 10 22:42 3953 Dec 31 09:41	0° ට 06'31			3734 DCC 24 02.37	0 0	
morning set	3953 Dec 31 09:41	0°る		superior conj	3954 Dec 27 02:16	4° ප 41'06	-0°53'08
desc. node	3954 Jan 01 04:16	1°る19'07		minimum elong	3954 Dec 26 19:38	4°る14'59	
max. Earth dist.	3954 Jan 15 03:23		1.45054 AU	max. Earth dist.	3954 Dec 28 22:33	7° る 35'03	1.45241 AU
max. Dartii dist.	373 I Juli 13 03.23	23 01032	1.15051710	evening rise	3955 Jan 12 07:20	0°≈04'02	1.13211710
superior conj	3954 Jan 16 23:53	26° පි 06'04	-1°35'12	evening rise	3955 Jan 12 06:18	0° ≈	
minimum elong	3954 Jan 16 14:42	25° る 29'53		greatest brilliancy	3955 Jan 23 11:23	17° ≈ 27'41	-0.8m
	3954 Jan 19 11:06	0° ≈		<i>y</i>	3955 Feb 01 03:59	0° ∀	
evening rise	3954 Feb 01 01:26	20°≈13'21		evening max el	3955 Feb 04 20:17	4°) €18'36	19°18'16
8 21	3954 Feb 07 01:31	0°) €		asc. node	3955 Feb 07 23:08	6°) 58'44	
asc. node	3954 Feb 21 02:07	20°) €23'53		retrograde	3955 Feb 11 22:15	8°) €21'40	
evening max el	3954 Feb 21 11:45	20°) (48'52	18°36'55	evening set	3955 Feb 15 09:00	7°) 12′09	
retrograde	3954 Feb 28 01:54	24°) (1882	10 3000	inferior conj	3955 Feb 20 21:23	1° ¥ 20′28	3°20'51
evening set	3954 Mar 03 05:46	23°) (30'48		minimum elong	3955 Feb 20 19:31	1°) (26'31	3°20'33
inferior conj	3954 Mar 08 23:34	17°) 55'03	3°35'02	8	3955 Feb 21 22:15	30°R≈	
minimum elong	3954 Mar 08 22:46	17°) 57'26	3°34'59	min. Earth dist.	3955 Feb 22 05:45	29°≈35'53	0.66315 AU
min. Earth dist.	3954 Mar 10 23:07	15°) 32'14	0.64944 AU	morning rise	3955 Feb 26 05:45	25°≈06'44	
morning rise	3954 Mar 14 15:15	11°) (3211		direct	3955 Mar 04 12:55	22°≈19'26	
direct	3954 Mar 21 08:22	8°) €53'32		morning max el	3955 Mar 17 03:48	29° ≈ 49'34	26°07'19
desc. node	3954 Mar 30 03:29	12°) 37'19		desc. node	3955 Mar 17 00:32	29°≈41'20	-0 0/1/
morning max el	3954 Apr 03 17:55	16°) 43'56	27°10'34	desc. Hode	3955 Mar 17 00:52	0°)	
morning max ci	•	0° Υ	21 1037		3955 Apr 08 15:46	0°Υ	
	1954 Anr 14 18:11				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	U	
	3954 Apr 14 18:11 3954 May 03 15:27			morning set	•	23° ℃ 20'∩⊿	
morning set	3954 May 03 15:27	0° 8		morning set	3955 Apr 22 07:40	23° Y ′29'04	
morning set max. Earth dist.	•		1.33790 AU	morning set max. Earth dist.	•	23° Y 29'04 0° 엉 0° 엉 58'52	1.35275 AU

superior aoni	3955 May 01 09:55	11° 8 13'12	0.54145		3956 Mar 31 10:59	0° Υ	
superior conj minimum elong	3955 May 01 12:50	11° 8 28'06		morning set	3956 Apr 03 14:03	5° Υ 26'51	
asc. node	3955 May 06 22:27	22° 8 36'36	0 3412	max. Earth dist.	3956 Apr 07 05:07	11° Υ 59'01	1.37177 AU
evening rise	3955 May 09 05:12	27° 8 19'31		max. Lartii dist.	3730 Apr 07 03.07	11 13701	1.3/1// AC
evening rise	3955 May 10 12:36	0°II		superior conj	3956 Apr 13 19:34	24° Ƴ 29'04	-1°22'48
evening max el	3955 May 27 14:18	27° Ⅱ 14'11	20°27'36	minimum elong	3956 Apr 13 23:51	24° Υ 49'58	
evening max er	3955 May 30 22:05	0°95	20 27 30	minimum ciong	3956 Apr 16 14:47	0°8	1 22 10
retrograde	3955 Jun 07 14:25	2° © 36'35		evening rise	3956 Apr 22 07:29	11° 8 24'06	
evening set	3955 Jun 09 14:30	2° © 26'37		asc. node	3956 Apr 22 19:28	12° 8 23'57	
desc. node	3955 Jun 12 23:45	1° © 28'41		use. Houe	3956 May 02 09:05	0°Ⅱ	
dese. Hode	3955 Jun 16 02:46	30°R∏		evening max el	3956 May 09 05:31	8° I I52'30	19°22'31
inferior conj	3955 Jun 18 19:21	28° ∏ 28'49	-1°42'56	retrograde	3956 May 18 12:10	13° Ⅲ 23'12	1, 22,51
minimum elong	3955 Jun 18 14:30	28° II 35'52		evening set	3956 May 20 12:05	13° I I11'35	
min. Earth dist.	3955 Jun 20 03:11	27° I I42'34		inferior conj	3956 May 29 00:52	9° Ⅱ 04'32	0°14'35
morning rise	3955 Jun 27 13:32	24° I I18'21	0.54704710	minimum elong	3956 May 29 01:29	9° П 03'31	0°14'20
direct	3955 Jul 01 09:31	23° I I46'37		transit middle	3956 May 29 01:29	9° П 03'31	0°14'20
direct	3955 Jul 14 12:06	0° 9		transit begin	3956 May 28 23:46	9°П06'20	0 1420
morning max el	3955 Jul 14 19:10	0°9516'26	23°26'43	transit end	3956 May 29 03:12	9° П 00'43	
asc. node	3955 Aug 02 21:41	28° 9 30'25	23 20 43	desc. node	3956 May 29 03:12 3956 May 29 20:47	9 П0043 8°П31'52	
asc. node	•	28 3 30 23		min. Earth dist.	•	7° П 19'11	0.55985 AU
marning got	3955 Aug 03 15:47	0 δ ε 7° Ω 34'19			3956 May 31 17:36 3956 Jun 06 11:58	7 П 1911 4° П 20'58	0.33983 AU
morning set	3955 Aug 07 08:10	/ 8634 19		morning rise		4 П 20 38 3° П 29'29	
	2055 A. 14 00.47	229 0 40117	1024157	direct	3956 Jun 11 06:00	3° Ц 29'29 10° Ц 39'32	25909117
superior conj	3955 Aug 14 08:47	22° Ω 40'17	1°34'56	morning max el	3956 Jun 25 09:05		25 08 17
minimum elong	3955 Aug 14 06:56	22° Ω 30'19	1°34'47	1	3956 Jul 10 01:01	0°©	
max. Earth dist.	3955 Aug 16 20:26	27° Ω 58'33	1.33501 AU	asc. node	3956 Jul 19 18:43	18°9511'12	
	3955 Aug 17 19:31	0° m/y		morning set	3956 Jul 21 19:52	22° © 27'48	
evening rise	3955 Aug 21 22:36	8° Mp 27'18			3956 Jul 25 07:51	0 $^{\circ}$ Ω	
	3955 Sep 02 17:03	0∘ ʊ			2056 7 1 20 10 26	50 Occus	1001155
desc. node	3955 Sep 08 23:03	9° £ 52'03		superior conj	3956 Jul 28 18:36	7° Ω 32'55	1°21'57
evening max el	3955 Sep 25 00:34		27°21'37	minimum elong	3956 Jul 28 16:18	7° Ω 20'20	1°21'38
_	3955 Sep 25 04:13	0° ™		max. Earth dist.	3956 Jul 30 02:04	10° Ω 24'39	1.32606 AU
retrograde	3955 Oct 08 13:15	7° M 09'47		evening rise	3956 Aug 04 22:02	22° Ω 48′11	
evening set	3955 Oct 15 14:34	4°M29'20			3956 Aug 08 12:11	0° ™	
min. Earth dist.	3955 Oct 19 08:36	1°M03'35	0.64325 AU	desc. node	3956 Aug 25 20:04	29° m 02'27	
	3955 Oct 20 08:47	30° Ŗჲ			3956 Aug 26 12:41	0∘ ত	
inferior conj	3955 Oct 21 17:55	28° ჲ 31'27		evening max el	3956 Sep 06 10:05	12° ≏ 46'23	27°23'42
minimum elong	3955 Oct 21 22:23	28° ≏ 19'35	2°37'19	retrograde	3956 Sep 20 04:43	20° ≏ 01'47	
morning rise	3955 Oct 28 07:27	23° ≏ 06'17		evening set	3956 Sep 27 09:14	17° ≏ 32'42	
asc. node	3955 Oct 29 20:52	22° ≏ 38'15		min. Earth dist.	3956 Sep 30 24:00	14° ≏ 36'07	
direct	3955 Oct 30 20:36	22° ჲ 33'13		inferior conj	3956 Oct 03 20:48	11° ≏ 52'51	
morning max el	3955 Nov 06 08:45	25° ჲ 59'02	17°55'33	minimum elong	3956 Oct 04 02:33	11° ≏ 39'11	3°36'40
	3955 Nov 09 18:40	0°M₊		morning rise	3956 Oct 10 21:28	6° ≏ 45'35	
morning set	3955 Nov 23 12:02	22°M00'54		direct	3956 Oct 13 06:49	6° ≏ 19'45	
	3955 Nov 28 05:37	0° ∡ 7		asc. node	3956 Oct 15 17:54	6° ≙ 48'00	
desc. node	3955 Dec 05 22:19	12° ₰ ⁴40'57		morning max el	3956 Oct 20 00:59	9° ≏ 47'07	17°50'43
					3956 Nov 02 09:56	0° M ₊	
superior conj	3955 Dec 06 17:28	13° ₹ 58'24	-0°05'31	morning set	3956 Nov 05 02:13	4°M45'40	
minimum elong	3955 Dec 06 16:49	13° ∡ 55'47	0°05'25				
behind sun begin	3955 Dec 06 07:08	13° х 16′36		superior conj	3956 Nov 16 09:52	24°M30'24	0°37'03
behind sun end	3955 Dec 07 02:30	14° ∡ ³34'53		minimum elong	3956 Nov 16 13:12	24° M 44'27	0°36'35
max. Earth dist.	3955 Dec 11 17:06	21° ₹ 56'42	1.44692 AU		3956 Nov 19 16:41	0° ∡ ¹	
	3955 Dec 16 20:08	0° ප		desc. node	3956 Nov 21 19:20	3° ∡ ¹28'17	
evening rise	3955 Dec 22 20:24	9° る 18'27		max. Earth dist.	3956 Nov 23 08:47	6° ∡ 00'31	1.43479 AU
	3956 Jan 05 12:37	0° ≈		evening rise	3956 Dec 01 06:52	18° ∡ ³33'24	
greatest brilliancy	3956 Jan 06 07:34	1° ≈ 09'44	-0.6m		3956 Dec 08 18:45	0°ප	
evening max el	3956 Jan 18 23:59	17° ≈ 50′09	20°14'59		3956 Dec 30 14:42	0° ≈	
asc. node	3956 Jan 25 20:09	22° ≈ 20′38		evening max el	3956 Dec 31 22:17	1° ≈ 23'43	21°24'07
retrograde	3956 Jan 26 20:17	22° ≈ 26′08		retrograde	3957 Jan 09 17:55	6° ≈ 37'41	
evening set	3956 Jan 30 15:20	21° ≈ 02'32		asc. node	3957 Jan 11 17:10	6° ≈ 16'37	
inferior conj	3956 Feb 05 00:43	14° ≈ 57'32	2°55'19	evening set	3957 Jan 13 23:00	4° ≈ 58'50	
minimum elong	3956 Feb 04 22:18	15° ≈ 05'41	2°54'45		3957 Jan 18 09:02	30°₹₹	
min. Earth dist.	3956 Feb 05 19:16	13° ≈ 54'41	0.67277 AU	inferior conj	3957 Jan 19 07:17	28° る 43'27	2°20'43
morning rise	3956 Feb 10 05:03	8° ≈ 43'33		minimum elong	3957 Jan 19 04:50	28° る 51'55	2°19'57
direct	3956 Feb 15 23:05	6° ≈ 09'27		min. Earth dist.	3957 Jan 19 13:25	28° පි 22'15	0.67836 AU
morning max el	3956 Feb 27 12:26	13° ≈ 04'06	24°46'03	morning rise	3957 Jan 24 10:30	22° る 31'02	
desc. node	3956 Mar 02 21:33	17° ≈ 53'30		direct	3957 Jan 29 13:56	20° ප 16'51	
	3956 Mar 12 04:58	0°) €		morning max el	3957 Feb 08 21:18	26° පි 24'22	23°17'17
				-			

	3957 Feb 12 04:44	0° ≈		desc. node	3958 Feb 04 15:36	26° ප 30'54	
desc. node	3957 Feb 17 18:34	6°≈54'48			3958 Feb 07 02:16	0° ≈	
	3957 Mar 05 19:03	0° ∀		morning set	3958 Feb 23 21:41	25°≈35'10	
morning set	3957 Mar 15 20:13	16° ℋ 12'05			3958 Feb 26 15:17	0° ℋ	
max. Earth dist.	3957 Mar 19 23:58	23°) 18′21	1.39340 AU	max. Earth dist.	3958 Mar 01 22:54	5°) 27′51	1.41479 AU
	3957 Mar 23 18:49	$0^{\circ}\mathbf{\Upsilon}$					
				superior conj	3958 Mar 09 15:20	18°) 36′49	-2°03'26
superior conj	3957 Mar 27 14:59	7° Ƴ 00'54	-1°47'00	minimum elong	3958 Mar 09 18:23	18° 升 50′15	2°03'18
minimum elong	3957 Mar 27 19:41	7° Y 22'42	1°46'33		3958 Mar 15 23:38	0 ° $\mathbf{\Upsilon}$	
evening rise	3957 Apr 06 01:31	25° Y 00'06		evening rise	3958 Mar 20 07:49	7° Y 59′09	
_	3957 Apr 08 16:07	0°8		asc. node	3958 Mar 27 13:31	21° Y 04'15	
asc. node	3957 Apr 09 16:29	1° 8 55'04	10025120		3958 Apr 02 06:52	0°8	1001010
evening max el	3957 Apr 22 07:01	21° 8 09'11	18°37'29	evening max el	3958 Apr 05 15:28	3° 8 56'05	18°12'35
retrograde	3957 Apr 30 03:42	25° 8 00'52		retrograde	3958 Apr 12 14:08	7° と 25'35 6° と 58'47	
evening set inferior conj	3957 May 02 09:36 3957 May 10 02:25	24° 8 43'04 20° 8 17'31	1°49'34	evening set inferior conj	3958 Apr 15 02:34 3958 Apr 22 01:18	2° 8 12'20	2052124
minimum elong	3957 May 10 02:23 3957 May 10 05:53	20° 8 10'54	1°48'30	minimum elong	3958 Apr 22 04:39	2° 8 04'51	
min. Earth dist.	3957 May 10 03:33	17° 8 44'35	0.57718 AU	minimum clong	3958 Apr 24 12:31	2 3 0° ₹ Υ	2 31 41
desc. node	3957 May 16 17:47	15° 8 37'10	0.57716 AC	min. Earth dist.	3958 Apr 25 10:21	29° Υ 13'00	0.59834 AU
morning rise	3957 May 17 17:17	14° 8 59'47		morning rise	3958 Apr 29 04:16	26° Υ 28'19	0.57051710
direct	3957 May 23 16:29	13° 8 37'37		desc. node	3958 May 03 14:48	24° Y 42'30	
morning max el	3957 Jun 07 01:20	21° 8 13'19	26°34'35	direct	3958 May 05 15:34	24° Y 31'00	
C	3957 Jun 14 16:29	0°II			3958 May 17 10:10	0°8	
	3957 Jul 02 17:26	0ಂತ		morning max el	3958 May 19 23:47	2° 8 21'56	27°31'38
morning set	3957 Jul 06 06:19	7° 5 16'09			3958 Jun 09 01:43	$\Pi^{\circ}0$	
asc. node	3957 Jul 06 15:45	8° © 05'58		morning set	3958 Jun 20 13:53	21° Ⅱ 54'15	
				asc. node	3958 Jun 23 12:48	28° ∏ 09'48	
superior conj	3957 Jul 13 06:11	22° © 28'25	1°04'24		3958 Jun 24 09:12	0 \circ \odot	
minimum elong	3957 Jul 13 03:55	22° © 15'55	1°04'00	max. Earth dist.	3958 Jun 27 00:22	5° 5 45'12	1.32040 AU
max. Earth dist.	3957 Jul 13 12:36	23°503'48	1.32122 AU				
	3957 Jul 16 16:26	$0^{\circ}\Omega$		superior conj	3958 Jun 27 17:47	7° 5 21'08	0°42'57
evening rise	3957 Jul 20 03:46	7° Ω 26'06		minimum elong	3958 Jun 27 16:01	7°511'24	0°42'36
	3957 Jul 31 23:40	0° Mp		evening rise	3958 Jul 04 13:28	22°513'38	
desc. node	3957 Aug 12 17:05	17° m/22'55 25° m/00'55	26052120		3958 Jul 08 07:38 3958 Jul 26 15:03	0° N 0° M	
evening max el	3957 Aug 19 14:29 3957 Aug 26 02:38	0° ت 0°الان	20-52-38	desc. node	3958 Jul 20 15:05 3958 Jul 30 14:06	0°110/ 4°10∕33'11	
retrograde	3957 Sep 02 12:21	0 == 2° £ 11'53		evening max el	3958 Aug 01 11:32	6° Mp 27'06	25°49'24
evening set	3957 Sep 02 12:21 3957 Sep 09 11:00	0° Ω 06'42		retrograde	3958 Aug 15 10:49	13° m 34'28	23 47 24
e venning see	3957 Sep 09 15:30	30°R, My		evening set	3958 Aug 21 15:06	12° m 03'49	
min. Earth dist.	3957 Sep 13 04:39	-	0.60583 AU	min. Earth dist.	3958 Aug 25 23:44	-	0.58519 AU
inferior conj	3957 Sep 16 09:40	24° m/48'07		inferior conj	3958 Aug 29 05:02	7° m 07'38	
minimum elong	3957 Sep 16 15:20	24° m 36'17	4°28'51	minimum elong	3958 Aug 29 08:02	7° m 02'10	5°03'56
morning rise	3957 Sep 23 21:34	20° m 02'01		morning rise	3958 Sep 06 03:13	2° m 44'49	
direct	3957 Sep 26 06:15	19° m 40'24		direct	3958 Sep 08 14:23	2°M 25'12	
asc. node	3957 Oct 02 14:57	22° m 24'58		morning max el	3958 Sep 16 20:30	6°₩21'43	18°39'21
morning max el	3957 Oct 03 13:58	23° m 17'28	18°04'50	asc. node	3958 Sep 19 12:01	9° ™ 15'15	
	3957 Oct 08 22:04	0∘ ಹ			3958 Oct 01 21:47	0。 ಹ	
morning set	3957 Oct 19 08:49	18° £ 17'01		morning set	3958 Oct 03 03:00	2° ≏ 21'31	
	3957 Oct 25 16:32	0° M ₊			2050.0 . 11 20 10	100 0 00100	1020122
gunorior co	2057 Oat 20 04:10	60 m 10102	1°09'17	superior conj	3958 Oct 11 20:10 3958 Oct 11 23:16	19° £ 09'02 19° £ 23'32	1°30'22 1°30'07
superior conj minimum elong	3957 Oct 29 04:18 3957 Oct 29 08:26	6°M18'03 6°M36'31	1°09'17 1°08'47	minimum elong	3958 Oct 11 23:16 3958 Oct 17 18:33	19° ± 23′32 0° M	1-3007
max. Earth dist.	3957 Nov 05 19:50	19°MJ31'07	1.41749 AU	max. Earth dist.	3958 Oct 17 18:35 3958 Oct 19 02:06	2°M19'17	1.39717 AU
desc. node	3957 Nov 08 16:21	24°M14'54	1.41747710	evening rise	3958 Oct 23 03:57	9°M20'00	1.57/1/110
evening rise	3957 Nov 11 06:21	28°M26'17		desc. node	3958 Oct 26 13:23	14°M57'40	
	3957 Nov 12 05:46	0° ∡ 7			3958 Nov 05 04:35	0° ∡ 7	
	3957 Dec 02 10:27	0°ರ		evening max el	3958 Nov 27 05:20	28° ∡ ³37'10	24°01'20
evening max el	3957 Dec 14 15:34	14° ⋜ 58'54	22°41'26	-	3958 Nov 28 15:55	8°0	
retrograde	3957 Dec 24 13:28	20°る52'06		retrograde	3958 Dec 08 05:47	5° る 05'59	
evening set	3957 Dec 29 06:18	18° ප 57'04		evening set	3958 Dec 13 11:43	2° ප 54'50	
asc. node	3957 Dec 29 14:11	18° る 40'10		asc. node	3958 Dec 16 11:14	29° ∡ ⁴44'39	
inferior conj	3958 Jan 03 15:05	12° る 34'45	1°38'30		3958 Dec 16 06:16	30°R ✓	
minimum elong	3958 Jan 03 13:04	12°る41'44	1°37'45	inferior conj	3958 Dec 18 22:22	26° ₹ 29'24	0°49'50
min. Earth dist.	3958 Jan 03 09:49	12° る 52'58	0.68011 AU	minimum elong	3958 Dec 18 21:12	26° ₹ 33'19	0°49'21
morning rise	3958 Jan 08 19:43	6° る 25'35		min. Earth dist.	3958 Dec 18 06:14	27° 🖈 23'59	0.67826 AU
direct morning max el	3958 Jan 13 08:27 3958 Jan 22 09:54	4°る34'14 9°る52'18	21950127	morning rise	3958 Dec 24 06:43	20° 🖈 25'19	
		u~ z >>2'18	71~50777	direct	3958 Dec 28 05:38	18° ∡ 56'37	

morning max el	3959 Jan 05 05:29	23° ∡ '31'38	20°32'32	direct	3959 Dec 12 04:13	3°×19'40	1000515
	3959 Jan 10 19:04	0°る		morning max el	3959 Dec 19 09:00	7°×722'10	19°27'56
desc. node	3959 Jan 22 12:37	16° පි 32'11		greatest brilliancy	3960 Jan 01 14:02	24° ₹ 57'40	-0.7m
	3959 Jan 31 10:20	0°≈ 3°≈ ≈ 5 414.4		J J.	3960 Jan 04 22:05	0°궁 6°궁51'51	
morning set max. Earth dist.	3959 Feb 02 23:07 3959 Feb 12 05:12	3°≈54'44 18°≈32'29	1.43309 AU	desc. node	3960 Jan 09 09:40 3960 Jan 12 20:55	12°る13'01	
max. Earm dist.	3939 Feb 12 03.12	16 232 29	1.43309 AU	morning set	3960 Jan 24 06:32	0°≈	
superior conj	3959 Feb 18 15:37	29° ≈ 05'33	2006!58	max. Earth dist.	3960 Jan 25 18:08	0 ≈ 2°≈20'31	1.44604 AU
minimum elong	3959 Feb 18 14:03	29 ≈03 33 28°≈59'02		max. Earth dist.	3900 Jan 23 16.06	2 ≈2031	1.44004 AU
minimum ciong	3959 Feb 19 04:39	28 ≈ 3902 0° ∀	2 00 33	superior conj	3960 Jan 29 14:15	8° ≈ 26'43	105220
evening rise	3959 Mar 02 22:09	20° ¥ 11'51		minimum elong	3960 Jan 29 06:48	7°≈56'57	
evening rise	3959 Mar 08 12:27	0° Υ		minimum ciong	3960 Feb 11 18:34	0° ∺	1 31 36
asc. node	3959 Mar 14 10:33	9° Υ 43'53		evening rise	3960 Feb 12 16:10	1°) 30′13	
evening max el	3959 Mar 20 03:31	17° Υ 03'56	18°07'17	asc. node	3960 Feb 29 07:36	27°) 44'54	
retrograde	3959 Mar 26 15:31	20° Υ 26'38	10 0/1/	asc. node	3960 Mar 02 06:25	27 Λ 4434	
evening set	3959 Mar 29 09:54	19° Υ 49'13		evening max el	3960 Mar 02 16:12	0° Υ 25'11	18°20'56
inferior conj	3959 Apr 04 18:26	14° Υ '42'36	3°26'03	retrograde	3960 Mar 09 03:12	3°Υ54'28	10 20 30
minimum elong	3959 Apr 04 20:14	14° Y 37'59	3°25'50	evening set	3960 Mar 12 03:26	3°Υ05'20	
min. Earth dist.	3959 Apr 07 17:39	11° Υ 41'36	0.62001 AU	evening sec	3960 Mar 15 22:44	30°R 	
morning rise	3959 Apr 11 05:01	8° Υ 42'18	0.02001710	inferior conj	3960 Mar 18 01:39	27°) € 39'57	3°36'51
direct	3959 Apr 18 01:17	6°Υ14'31		minimum elong	3960 Mar 18 01:42	27° ₩ 39'47	
desc. node	3959 Apr 20 11:51	6° Y 31′50		min. Earth dist.	3960 Mar 20 10:20	24°) 58'36	0.63967 AU
morning max el	3959 May 02 04:30	14° Υ 13'09	27°51'51	morning rise	3960 Mar 23 23:09	21°) (30'30'30'31'14	0.03707710
morning max or	3959 May 14 21:53	0°8	27 3131	direct	3960 Mar 30 19:36	18°) 44'47	
	3959 Jun 01 13:20	0°II		desc. node	3960 Apr 06 08:52	20°) 50'11	
morning set	3959 Jun 04 16:29	6° Ⅱ 14'43		morning max el	3960 Apr 13 13:09	26°) (41'57	27°35'01
asc. node	3959 Jun 10 09:50	18° Ⅱ 17'30		morning max or	3960 Apr 16 15:16	0°Υ	27 33 01
max. Earth dist.	3959 Jun 10 09:16	18° Ⅱ 14'25	1.32371 AU		3960 May 07 12:34	0°8	
man. Barur dibu	2,0,000	10 21.120	1.525 / 1 110	morning set	3960 May 18 11:40	20° 8 10'08	
superior conj	3959 Jun 12 03:39	22° Ⅱ 04'30	0°18'12		3960 May 23 07:36	0°II	
minimum elong	3959 Jun 12 02:48	21° II 59'55		max. Earth dist.	3960 May 23 11:16		1.33138 AU
g	3959 Jun 15 18:40	0.00	0 10 01	man. Darm uist.	3,00 may 25 11.10	v – 13 11	1.55150110
evening rise	3959 Jun 19 01:03	7°503'02		superior conj	3960 May 26 09:56	6° Ⅱ 33'01	-0°09'08
<i>8</i> 21	3959 Jul 01 01:01	$0^{\circ}\Omega$		minimum elong	3960 May 26 10:24	6° Ⅱ 35'29	
evening max el	3959 Jul 14 01:52	17° Ω 09'26	24°22'03	behind sun begin	3960 May 26 05:55	6° Ⅱ 11'35	
desc. node	3959 Jul 17 11:08	20° Ω 04'15		behind sun end	3960 May 26 14:52	6° Ⅱ 59'23	
retrograde	3959 Jul 27 22:23	24° Ω 08'59		asc. node	3960 May 27 06:54	8° Ⅲ 25′16	
evening set	3959 Aug 01 19:00	23° Ω 16'14		evening rise	3960 Jun 02 12:42	21° Ⅱ 48'35	
min. Earth dist.	3959 Aug 07 12:43		0.56649 AU	3	3960 Jun 06 12:07	0ංම	
inferior conj	3959 Aug 10 04:15	18° Ω 42'09		evening max el	3960 Jun 24 15:23	27° © 33'36	22°45'06
minimum elong	3959 Aug 10 01:44	18° Ω 46'09	5°06'37	C	3960 Jun 27 10:06	$0^{\circ}\Omega$	
morning rise	3959 Aug 18 11:05	14° Ω 40'19		desc. node	3960 Jul 03 08:09	3° Ω 21'54	
direct	3959 Aug 21 03:17	14° Ω 21'07		retrograde	3960 Jul 07 21:22	4° Ω 09'22	
morning max el	3959 Aug 30 17:23	18° Ω 49'14	19°35'25	evening set	3960 Jul 11 05:31	3° Ω 44'54	
asc. node	3959 Sep 06 09:04	27° Ω 02'51		min. Earth dist.	3960 Jul 18 23:39	0° Ω 19'49	0.55322 AU
	3959 Sep 08 05:45	0° m)			3960 Jul 19 13:31	30° ℝ ∽	
morning set	3959 Sep 17 05:04	16° Mp 48'10		inferior conj	3960 Jul 20 08:42	29° © 32'27	-4°22'49
	3959 Sep 23 18:18	0∘ ⊽		minimum elong	3960 Jul 20 00:56	29° 5 43'36	4°21'10
				morning rise	3960 Jul 28 22:32	25°5641'24	
superior conj	3959 Sep 25 03:57	2° ≏ 46'40	1°41'31	direct	3960 Jul 31 22:04	25°\$20'46	
minimum elong	3959 Sep 25 05:22	2° ≙ 53'41	1°41'28		3960 Aug 11 12:02	$0^{\circ}\Omega$	
max. Earth dist.	3959 Oct 01 06:24	14° ≙ 27'49	1.37635 AU	morning max el	3960 Aug 12 02:32	0° £ 32'43	20°52'44
evening rise	3959 Oct 05 00:32	21° ≏ 16'59		asc. node	3960 Aug 23 06:07	15° Ω 34'51	
	3959 Oct 10 01:42	0°M₊			3960 Aug 30 18:51	O° Mp	
desc. node	3959 Oct 13 10:27	5°M32'07		morning set	3960 Aug 31 12:20	1° m 29'49	
	3959 Oct 30 03:27	0° ∡ ¹					
evening max el	3959 Nov 09 17:40	12° ∡ 18'44	25°17'14	superior conj	3960 Sep 07 23:02	16° ™ 57'38	1°44'17
retrograde	3959 Nov 21 17:55	19° ∡ 14'47		minimum elong	3960 Sep 07 22:52	16° M 56′47	1°44'17
evening set	3959 Nov 27 13:36	16° ∡ ¹49'05		max. Earth dist.	3960 Sep 12 14:41	26° m 19'08	1.35749 AU
min. Earth dist.	3959 Dec 02 00:23	11° ∡ 52'30	0.67290 AU		3960 Sep 14 12:10	0∘ ত	
inferior conj	3959 Dec 03 03:19	10° ∡ ¹25′06	-0°04'15	evening rise	3960 Sep 16 16:44	4° ≙ 09'03	
minimum elong	3959 Dec 03 03:25	10° ∡ ¹24'45	0°04'12	desc. node	3960 Sep 29 07:29	25° ≏ 53'08	
transit middle	3959 Dec 03 03:25	10° ∡ ¹24'45	0°04'12		3960 Oct 01 23:01	0°M	
transit begin	3959 Dec 03 00:44	10° ∡ ³33'30		evening max el	3960 Oct 22 06:10	26°M00'28	26°21'39
transit end	3959 Dec 03 06:07	10° ∤ 16′01			3960 Oct 26 22:56	0° ∡ ¹	
asc. node	3959 Dec 03 08:17	10° ∡ '09'00		retrograde	3960 Nov 04 01:00	3° ∡ 12'13	
morning rise	3959 Dec 08 17:31	4° ∡ °28′08		evening set	3960 Nov 10 10:03	0° ∡ ³35'41	

	3960 Nov 11 02:25	30°RM₊		min. Earth dist.	3961 Oct 28 20:13	10°M24'46	0.65188 AU
min. Earth dist.	3960 Nov 14 13:51	26°M14'30	0.66411 AU	inferior conj	3961 Oct 30 22:22	8°ML04'01	-2°03'34
inferior conj	3960 Nov 16 04:02	24°M18'02	-1°02'36	minimum elong	3961 Oct 31 01:50	7° M 54'15	2°02'11
minimum elong	3960 Nov 16 05:44	24°M12'51	1°01'52	morning rise	3961 Nov 06 05:47	2°M29'42	
asc. node	3960 Nov 19 05:20	20°M48'42		asc. node	3961 Nov 06 02:21	2°M33'54	
morning rise	3960 Nov 22 02:00	18°M30'52		direct	3961 Nov 08 22:29	1°M50'44	
direct	3960 Nov 25 02:33	17°M39'04		morning max el	3961 Nov 15 10:13	5°M19'18	18°06'27
morning max el	3960 Dec 01 19:19	21°M19'44	18°38'53		3961 Dec 02 02:01	0°⊀	
	3960 Dec 08 16:18	0°⊀		morning set	3961 Dec 03 14:39	2° ₹ 31'11	
morning set	3960 Dec 22 15:00	21° ∡ 37'27		desc. node	3961 Dec 13 03:46	18° ∡ 05'40	
desc. node	3960 Dec 26 06:42	27° ∡ 24′20				-	
	3960 Dec 27 22:09	0° ප		superior conj	3961 Dec 18 00:25	25° 🖈 51'25	
	20/11 07 10 52	170704110	1010150	minimum elong	3961 Dec 17 20:17	25° ₹ 35'03	0°32'19
superior conj	3961 Jan 07 18:52	17°る04'19		max. Earth dist.	3961 Dec 20 15:18	0°궁 1°궁03'36	1 45102 ATT
minimum elong max. Earth dist.	3961 Jan 07 09:57 3961 Jan 07 11:47	16° පි 29'18 16° පි 36'30	1.45224 AU	evening rise	3961 Dec 21 07:27 3962 Jan 03 08:32	21° る 23'39	1.45102 AU
max. Earth dist.	3961 Jan 16 00:02	0°≈	1.43224 AU	evening rise	3962 Jan 08 22:13	21 ⊙ 23 39	
evening rise	3961 Jan 23 10:58	0 ∞ 11°≈50'54		greatest brilliancy	3962 Jan 16 10:22	0 ∞ 11°≈26'21	-0.7m
greatest brilliancy	3961 Jan 31 13:41	24°≈48'20	-0.8m	evening max el	3962 Jan 28 09:39	27°≈24'54	19°40'36
greatest oriniancy	3961 Feb 03 21:09	0° ∀	0.0111	evening max er	3962 Jan 31 08:15	0° ∀	17 40 30
evening max el	3961 Feb 14 02:55	13° ¥ 53′26	18°52'31	asc. node	3962 Feb 02 01:39	1° ₩ 01'24	
asc. node	3961 Feb 15 04:38	14° H 55'15		retrograde	3962 Feb 04 18:28	1°) (40'34	
retrograde	3961 Feb 20 21:11	17°) (40'53		evening set	3962 Feb 08 08:40	0° ₩ 25'02	
evening set	3961 Feb 24 03:51	16°) 39′02		Č	3962 Feb 08 21:59	30° R ≈	
inferior conj	3961 Mar 01 19:03	10°) 56'31	3°30'31	inferior conj	3962 Feb 13 19:31	24° ≈ 27'24	3°11'11
minimum elong	3961 Mar 01 17:44	11°) 00′37	3°30'24	minimum elong	3962 Feb 13 17:21	24° ≈ 34'33	3°10'47
min. Earth dist.	3961 Mar 03 12:07	8°) (48′59	0.65584 AU	min. Earth dist.	3962 Feb 14 21:47	23° ≈ 00′36	0.66786 AU
morning rise	3961 Mar 07 07:12	4°) 43′59		morning rise	3962 Feb 19 01:49	18° ≈ 13'36	
direct	3961 Mar 13 20:47	1° ∺ 53'13		direct	3962 Feb 25 03:47	15° ≈ 30'56	
desc. node	3961 Mar 24 05:53	7°) €02'51		morning max el	3962 Mar 09 08:14	22° ≈ 46'46	25°34'14
morning max el	3961 Mar 26 22:59	9° ∺ 36'41	26°46'21	desc. node	3962 Mar 11 02:56	24° ≈ 38'46	
	3961 Apr 11 23:49	$0^{\circ}\mathbf{\Upsilon}$			3962 Mar 15 17:09	0° ∀	
	3961 Apr 29 23:35	0°8			3962 Apr 05 07:26	0° Υ	
morning set	3961 May 01 20:11	3° 8 30'08		morning set	3962 Apr 14 13:41	16° Y 02'16	
max. Earth dist.	3961 May 06 03:00	11° 8 52'05	1.34366 AU	max. Earth dist.	3962 Apr 18 07:28	22° Y 59′20	1.36048 AU
	20(1)/ 10 10 27	200 420146	0027150		3962 Apr 21 22:39	9° 8	
superior conj	3961 May 10 10:27	20° 8 39'46			20/2 4 24 02 20	40 🔾 1 6150	1006155
minimum elong	3961 May 10 12:28 3961 May 14 03:57	20° 8 50'11 28° 8 28'40	0°37'34	superior conj	3962 Apr 24 02:30 3962 Apr 24 06:04	4° 8 16'59 4° 8 34'49	
asc. node	3961 May 14 03.37 3961 May 14 21:17	28 O 28 40 0° Ⅱ		minimum elong asc. node	3962 Apr 24 00:04 3962 May 01 00:58	18° 8 23'21	1 00 19
evening rise	3961 May 17 22:26	6° Ⅱ 23'45		evening rise	3962 May 02 04:11	20° 8 41'58	
evening rise	3961 May 30 19:36	0°9		evening rise	3962 May 06 20:47	0°II	
evening max el	3961 Jun 06 11:57		21°13'35	evening max el	3962 May 19 20:10	19° Ⅱ 26'31	19°57'25
retrograde	3961 Jun 18 10:46	14°904'14	21 13 30	retrograde	3962 May 30 01:59	24° I I25'54	19 07 20
desc. node	3961 Jun 20 05:08	13°956'58		evening set	3962 Jun 01 00:54	24° Ⅱ 15'47	
evening set	3961 Jun 20 17:34	13° © 52'10		desc. node	3962 Jun 07 02:09	21° ∏ 57'12	
inferior conj	3961 Jun 30 02:33	9° 9 53'46	-2°50'12	inferior conj	3962 Jun 09 23:53	20° Ⅲ 15′24	-0°51'40
minimum elong	3961 Jun 29 19:00	10° © 04'22	2°47'44	minimum elong	3962 Jun 09 21:29	20° Ⅱ 19′02	0°50'47
min. Earth dist.	3961 Jun 30 10:46	9° 5 42'14	0.54831 AU	min. Earth dist.	3962 Jun 11 23:24	19° Ⅱ 03'35	0.55304 AU
morning rise	3961 Jul 08 20:50	5° © 56'21		morning rise	3962 Jun 18 16:12	15° ∏ 52′24	
direct	3961 Jul 12 07:49	5° © 30'31		direct	3962 Jun 22 21:04	15° Ⅱ 13'47	
morning max el	3961 Jul 25 00:29	11° © 32'22	22°27'38	morning max el	3962 Jul 06 15:31	22° Ⅱ 01'33	24°10'55
	3961 Aug 07 13:49	0 $^{\circ}$ Ω			3962 Jul 13 15:21	0_{\circ} වෙ	
asc. node	3961 Aug 10 03:10	4° Ω 40'39		asc. node	3962 Jul 28 00:13	24°9510'54	
morning set	3961 Aug 15 22:44	16° Ω 20'53			3962 Jul 30 20:08	0° N	
	3961 Aug 22 08:38	0° m		morning set	3962 Jul 31 10:25	1° Ω 15'13	
superior conj	3961 Aug 23 01:55	1° m)31'44	1°40'05	superior conj	3962 Aug 07 09:50	16° Ω 19'38	1°30'02
minimum elong	3961 Aug 23 00:32	1° m) 24'28	1°40'05 1°40'00	minimum elong	3962 Aug 07 09:30 3962 Aug 07 07:43	16° Ω 08'14	1°29'48
max. Earth dist.	3961 Aug 26 07:33	8° Mp 18'23	1.34206 AU	max. Earth dist.	3962 Aug 07 07.43 3962 Aug 09 09:11	20° Ω 35'10	1.33069 AU
evening rise	3961 Aug 31 00:08	17° Mp 44'39	1.5 1200 110	max. Dartii dist.	3962 Aug 13 20:43	0° m	1.55007 AU
2. Jg 1100	3961 Sep 06 13:44	0° ⊽		evening rise	3962 Aug 14 18:39	1° Mp 51'40	
desc. node	3961 Sep 16 04:30	0 — 15° Ω 54'23			3962 Aug 30 10:58	0° ⊡	
	3961 Sep 26 05:48	0°M		desc. node	3962 Sep 03 01:30	5° £ 26'36	
evening max el	3961 Oct 04 18:52	9°M34'18	27°07'00	evening max el	3962 Sep 17 06:04	22° ≏ 46'42	27°26'24
retrograde	3961 Oct 18 02:17	16°M51'35		-	3962 Sep 29 18:42	0°M	
evening set	3961 Oct 24 22:50	14°ML10'15		retrograde	3962 Sep 30 21:18	0°M03'32	

	3962 Oct 01 23:31	30° Ŗ Ω			3963 Aug 05 19:09	0° m	
evening set	3962 Oct 08 01:05	27° £ 26′26		desc. node	3963 Aug 20 22:29	24° Mp 17'56	
min. Earth dist.	3962 Oct 11 17:17	24° £ 14'11	0.63620 AU		3963 Aug 25 11:08	0∘ ⊽	
inferior conj	3962 Oct 14 07:41	21° ≏ 36′04	-3°04'41	evening max el	3963 Aug 30 13:31	5° £ 25'03	27°14'29
minimum elong	3962 Oct 14 12:48	21° £ 23′06	3°02'55	retrograde	3963 Sep 13 09:37	12° ≏ 38'58	
morning rise	3962 Oct 21 01:53	16° ≏ 18′09		evening set	3963 Sep 20 13:07	10° ≙ 18′05	
direct	3962 Oct 23 13:12	15° ≏ 48'25		min. Earth dist.	3963 Sep 24 03:52	7° ≏ 31'22	0.61751 AU
asc. node	3962 Oct 23 23:23	15° ≏ 49'18		inferior conj	3963 Sep 27 05:00	4° ٩ 47'04	-4°01'42
morning max el	3962 Oct 30 02:50	19° ≙ 13'32	17°51'19	minimum elong	3963 Sep 27 10:56	4° ₽ 33'40	4°00'08
	3962 Nov 07 01:13	0° M			3963 Oct 03 22:10	30°R, Mp	
morning set	3962 Nov 15 16:33	14° M .40'41		morning rise	3963 Oct 04 10:33	29° m 48'48	
	3962 Nov 24 15:55	0°⊀		direct	3963 Oct 06 19:12	29° m 25'07	
					3963 Oct 09 14:41	0∘ ত	
superior conj	3962 Nov 28 01:31	5° ∡ 38′20	0°13'38	asc. node	3963 Oct 10 20:27	0° ჲ 37'30	
minimum elong	3962 Nov 28 02:58	5° ∡ ¹44'18	0°13'25	morning max el	3963 Oct 13 18:08	2° ჲ 55'19	17°54'22
behind sun begin	3962 Nov 27 21:32	5° ≮ 21'59		morning set	3963 Oct 29 14:20	27° ≏ 46'38	
behind sun end	3962 Nov 28 08:24	6° ≯ 06'36			3963 Oct 30 19:41	0° M ₊	
desc. node	3962 Nov 30 00:47	8° ∡ 51'37					
max. Earth dist.	3962 Dec 04 01:31	15° ≮ 21′20	1.44253 AU	superior conj	3963 Nov 09 05:21	16° M ₊43'37	0°52'06
	3962 Dec 13 09:47	0°ಕ		minimum elong	3963 Nov 09 09:21	17°ML00'53	0°51'34
evening rise	3962 Dec 13 18:28	0° る 33'26		max. Earth dist.	3963 Nov 16 15:09	29°M11'41	1.42791 AU
	3963 Jan 02 15:18	0° ≈		desc. node	3963 Nov 16 21:48	29°M38'56	
evening max el	3963 Jan 11 11:03	10° ≈ 57'21	20°43'01		3963 Nov 17 02:57	0° ∡ ¹	
retrograde	3963 Jan 19 16:38	15° ≈ 49′01		evening rise	3963 Nov 23 08:39	9° ∡ 759'32	
asc. node	3963 Jan 19 22:39	15° ≈ 48'41			3963 Dec 06 13:34	0°ಕ	
evening set	3963 Jan 23 15:49	14° ≈ 18'50		evening max el	3963 Dec 25 06:55	24° る 30'37	21°56'19
inferior conj	3963 Jan 29 00:29	8° ≈ 08'50	2°41'39		3964 Jan 02 22:14	0° ≈	
minimum elong	3963 Jan 28 22:00	8° ≈ 17′20	2°40'59	retrograde	3964 Jan 03 13:42	0° ≈ 02'04	
min. Earth dist.	3963 Jan 29 13:30	7° ≈ 24'12	0.67563 AU		3964 Jan 04 04:55	30°Ŗる	
morning rise	3963 Feb 03 04:02	1° ≈ 55′26		asc. node	3964 Jan 06 19:41	29° る 05'17	
	3963 Feb 06 02:29	30°Ŗる		evening set	3964 Jan 07 23:32	28° る 16'22	
direct	3963 Feb 08 15:52	29° る 29'32		inferior conj	3964 Jan 13 07:49	21° る 57'18	2°03'42
	3963 Feb 11 09:13	0° ≈		minimum elong	3964 Jan 13 05:30	22° る 05'22	2°02'54
morning max el	3963 Feb 19 16:51	6° ≈ 04'51	24°08'43	min. Earth dist.	3964 Jan 13 08:58	21° る 53'21	0.67947 AU
desc. node	3963 Feb 25 23:59	13°≈14'12		morning rise	3964 Jan 18 11:19	15° る 45'55	
	3963 Mar 10 05:36	0° ∀		direct	3964 Jan 23 08:19	13° る 41'27	
morning set	3963 Mar 27 10:38	27°) 32′00		morning max el	3964 Feb 02 02:59	19° る 28'20	22°39'41
	3963 Mar 28 20:37	0° Υ			3964 Feb 10 23:40	0° ≈	
max. Earth dist.	3963 Mar 31 04:08	4° Ƴ 06'06	1.38081 AU	desc. node	3964 Feb 12 21:01	2° ≈ 31'41	
		••			3964 Mar 02 10:14	0° ∀	
superior conj	3963 Apr 07 06:42	17° Y 16′06		morning set	3964 Mar 07 04:56	7°) 43′04	
minimum elong	3963 Apr 07 11:20	17° Ƴ 38'15	1°33'08	max. Earth dist.	3964 Mar 11 23:47	15°) (43′44	1.40262 AU
	3963 Apr 13 19:24	0°8					
evening rise	3963 Apr 16 03:25	4° 8 36'28		superior conj	3964 Mar 19 18:38	29° \ 25'30	
asc. node	3963 Apr 17 21:59	8° 8 05'04		minimum elong	3964 Mar 19 22:57	29°) 45'09	1°54'53
	3963 May 01 08:31	0°II	10000110		3964 Mar 20 02:14	0°Υ 1 5 0 0 50104	
evening max el	3963 May 02 16:05	1° Ⅱ 22'19	19°00'48	evening rise	3964 Mar 29 16:59	17° Y ′58′04	
retrograde	3963 May 11 07:11	5° Ⅱ 35'01		asc. node	3964 Apr 03 19:01	27° Y 27'51	
evening set	3963 May 13 09:11	5° Ⅱ 21'17	0050124		3964 Apr 05 04:57	0°8	10024120
inferior conj	3963 May 21 13:29 3963 May 21 15:44	1° Ⅱ 06'40 1° Ⅱ 02'45	0°58'34 0°57'48	evening max el	3964 Apr 14 20:59	13° 8 53'14 17° 8 33'36	18°24'28
minimum elong	•		0-5/48	retrograde	3964 Apr 22 07:01		
min. Earth dist.	3963 May 23 03:31	30°R と 28° と 59'09	0.56647 AU	evening set	3964 Apr 24 15:36	17° 8 12'23	2°20'05
	3963 May 24 15:00		0.3004 / AU	inferior conj	3964 May 02 00:23		2°19'05
desc. node	3963 May 24 23:09	28° 8 45'37		minimum elong	3964 May 02 04:04	12° 8 30'44	
morning rise direct	3963 May 29 19:04 3963 Jun 03 23:01	26° と 07'50 25° と 04'43		min. Earth dist.	3964 May 05 10:59 3964 May 09 13:29	9° と 50'49 7° と 07'45	0.58588 AU
direct	3963 Jun 15 11:38	0°II		morning rise desc. node	3964 May 10 20:12	6° 8 31'25	
morning max el	3963 Jun 18 06:05	0 П 2°П27'17	25017152	direct	3964 May 15 15:28	5° 8 30'27	
morning max ci	3963 Jul 18 00:03	2 H 2/1/	45 7133	morning max el	3964 May 30 00:55	13° 8 14'40	27°02'56
asc. node	3963 Jul 07 18.20 3963 Jul 14 21:16	0 55 13°558'48		morning max ci	3964 Jun 12 07:24	0°Ⅱ	21 02 30
morning set	3963 Jul 14 21:10 3963 Jul 15 21:50	15 \$3848 16°\$07'48			3964 Jun 28 21:15	0. о п	
morning set	3963 Jul 22 07:04	10 3 07 48		morning set	3964 Jun 29 07:17	0°\$52'31	
	5705 Jul 22 07.04	~ UL		asc. node	3964 Jun 30 18:19	3°957'56	
superior conj	3963 Jul 22 20:39	1° Ω 14'41	1°15'02	abo. Houe	570 Full 50 10.19	5 -51 50	
minimum elong	3963 Jul 22 18:18	1° Ω 01'49	1°14'40	superior conj	3964 Jul 06 08:29	16° © 09'49	0°55'45
max. Earth dist.	3963 Jul 23 17:22	3° Ω 08'25	1.32348 AU	minimum elong	3964 Jul 06 06:22	15°958'12	0°55'22
evening rise	3963 Jul 29 21:05	16° Ω 20'54	1.525TO AU	max. Earth dist.	3964 Jul 06 04:42	15°53612	1.32035 AU
5 , 5 mil 5 1150	5705 Jul 27 21.05	10 062034		man. Durin dist.	570 Full 00 07.72	15 🔾 47 00	1.52055 AU

	3964 Jul 12 16:47	0°N		superior conj	3965 Jun 20 19:35	0° © 59'19	0°32'49
evening rise	3964 Jul 13 04:47	1° Ω 03'34		minimum elong	3965 Jun 20 18:10	0°951'30	0°32'31
	3964 Jul 28 21:32	0° m)		evening rise	3965 Jun 27 15:32	15° © 52'41	
desc. node	3964 Aug 06 19:30	12° m) 11'28		<i>y</i>	3965 Jul 04 15:38	$0^{\circ}\Omega$	
evening max el	3964 Aug 11 14:49	17° m) 18'54	26°29'20	evening max el	3965 Jul 24 08:52	28° Ω 25'19	25°14'29
retrograde	3964 Aug 25 13:58	24° m 29'11		desc. node	3965 Jul 24 16:32	28° Ω 43'28	
evening set	3964 Sep 01 06:17	22° m 37'37			3965 Jul 26 02:38	0° m	
min. Earth dist.	3964 Sep 05 04:21	20° m 02'12	0.59695 AU	retrograde	3965 Aug 07 08:02	5° m 29'59	
inferior conj	3964 Sep 08 10:49	17° m 28'09	-4°47'24	evening set	3965 Aug 13 00:01	4° ™ 16'10	
minimum elong	3964 Sep 08 15:44	17° m) 18'28	4°46'39	min. Earth dist.	3965 Aug 17 20:38	1° m 34'02	0.57678 AU
morning rise	3964 Sep 16 03:18	12° m 52'01			3965 Aug 20 04:03	30° R Ω	
direct	3964 Sep 18 12:28	12° m 31'38		inferior conj	3965 Aug 20 21:49	29° Ω 29'26	-5°10'10
morning max el	3964 Sep 26 04:50	16° Mp 15'59	18°16'57	minimum elong	3965 Aug 20 22:45	29° Ω 27'51	5°10'09
asc. node	3964 Sep 26 17:31	16° Mp 47'30		morning rise	3965 Aug 28 23:50	25° Ω 15'48	
	3964 Oct 05 20:33	0∘ ⊽		direct	3965 Aug 31 12:50	24° Ω 56'31	
morning set	3964 Oct 12 02:23	11° ≏ 33'25		morning max el	3965 Sep 09 07:33	29° Ω 05'23	19°00'29
					3965 Sep 10 05:34	0° m/y	
superior conj	3964 Oct 21 09:36	29° Ω 00'13	1°19'31	asc. node	3965 Sep 13 14:35	4° Mp 03'47	
minimum elong	3964 Oct 21 13:26	29° Ω 17'43	1°19'07	morning set	3965 Sep 26 00:20	25° m/48'24	
Dardh diad	3964 Oct 21 22:45	0° ጤ 12° ጤ 22'42	1 40002 ATT		3965 Sep 28 03:12	0∘ ⊽	
max. Earth dist.	3964 Oct 28 23:28	20°M17'04	1.40902 AU		20(5.0-+.04.09-51	120 0 1212	1°36'13
evening rise desc. node	3964 Nov 02 17:00 3964 Nov 02 18:49	20°M24'30		superior conj minimum elong	3965 Oct 04 08:51 3965 Oct 04 11:15	12° £ 12'26 12° £ 23'58	1°36'13
desc. node	3964 Nov 08 19:01	20 1162430 0° x 7		max. Earth dist.	3965 Oct 11 04:24	12 ≗ 23 38 24° £ 52'34	1.38824 AU
	3964 Nov 29 20:14	0° ਨ		max. Earm dist.	3965 Oct 14 01:56	0°M	1.30024 AU
evening max el	3964 Dec 06 22:27	8°る07'07	23°15'34	evening rise	3965 Oct 15 00:40	1°M38'28	
retrograde	3964 Dec 17 08:06	14°る16'43	23 13 34	desc. node	3965 Oct 20 15:51	11°M04'12	
evening set	3964 Dec 22 06:14	13° る 14'59		dese. Hode	3965 Nov 02 01:19	0° √	
asc. node	3964 Dec 23 16:44	10° る 52'31		evening max el	3965 Nov 19 11:34	21° × 747'29	24°34'38
min. Earth dist.	3964 Dec 27 05:48	6° る 24'38	0.67968 AU	retrograde	3965 Nov 30 22:35	28° x ⁷ 28'35	
inferior conj	3964 Dec 27 15:38	5° る 50'46	1°18'38	evening set	3965 Dec 06 10:19	26°×711'13	
minimum elong	3964 Dec 27 13:56	5° る 56'37	1°17'58	asc. node	3965 Dec 10 13:47	21° ∡ ³33'27	
morning rise	3965 Jan 01 21:33	29° ∡ ⁴43'15		min. Earth dist.	3965 Dec 11 01:32	20° ∡ ′54'44	0.67642 AU
-	3965 Jan 01 13:29	30°R. ✓		inferior conj	3965 Dec 11 22:08	19° х 46′03	0°27'31
direct	3965 Jan 06 04:15	28° ∡ °01'34		minimum elong	3965 Dec 11 21:28	19° ∡ ¹48'17	0°27'14
	3965 Jan 11 06:57	ರ°ರ		morning rise	3965 Dec 17 08:43	13° ∡¹ 44'35	
morning max el	3965 Jan 14 18:11	3° る 00'40	21°15'53	direct	3965 Dec 21 02:19	12° х 24′39	
desc. node	3965 Jan 29 18:03	22° る 19'43		morning max el	3965 Dec 28 17:00	16° ⊀ ⁴44'11	20°03'14
	3965 Feb 03 23:24	0° ≈			3966 Jan 08 03:58	0°ಕ	
morning set	3965 Feb 14 18:41	16° ≈ 34′10		desc. node	3966 Jan 16 15:05	12° る 29'22	
max. Earth dist.	3965 Feb 22 01:08		1.42307 AU	morning set	3966 Jan 24 15:14	24° る 42'51	
	3965 Feb 23 02:39	0° ∀			3966 Jan 28 01:01	0° ≈	
				max. Earth dist.	3966 Feb 04 10:37	11° ≈ 40′18	1.43941 AU
superior conj	3965 Mar 01 09:18	10°) (34'11			20// 51 00 22 20	200 20150	2002114
minimum elong	3965 Mar 01 10:46	10°) (40′29	2°06'49	superior conj	3966 Feb 09 22:28	20°≈32'59	
	3965 Mar 12 08:34	0° Υ		minimum elong	3966 Feb 09 18:17	20°≈15'53	2°03'04
evening rise	3965 Mar 12 17:02	0° Υ 38'19			3966 Feb 15 15:23	0°) {	
asc. node evening max el	3965 Mar 21 16:03 3965 Mar 29 07:27	16° Υ 25'28 26° Υ 50'32	18°08'01	evening rise	3966 Feb 22 23:08 3966 Mar 05 08:11	12° ¥ 28'00 0° Ƴ	
evening max er	3965 Apr 03 05:10	0° 8	16 06 01	asc. node	3966 Mar 08 13:05	4° Υ 49'42	
retrograde	3965 Apr 05 00:11	0° 8 14'59		evening max el	3966 Mar 12 20:08	10° Υ 04'52	18°10'51
retrograde	3965 Apr 06 19:40	0 O1439 30°RΥ		retrograde	3966 Mar 19 06:25	13° Y 28'32	16 10 51
evening set	3965 Apr 07 15:16	29° Y '43'48		evening set	3966 Mar 22 03:24	12° Y 46'03	
inferior conj	3965 Apr 14 07:30	24° Υ '48'54	3°09'50	inferior conj	3966 Mar 28 07:05	7° Υ 31'10	3°33'01
minimum elong	3965 Apr 14 10:17	24° Υ '42'19	3°09'20	minimum elong	3966 Mar 28 08:07	7° Υ ′28'22	3°32'56
min. Earth dist.	3965 Apr 17 13:24	21° Y 45'47	0.60773 AU	min. Earth dist.	3966 Mar 31 00:23	4° Ƴ 36'36	0.62876 AU
morning rise	3965 Apr 21 03:13	18° Ƴ 57'01		morning rise	3966 Apr 03 11:41	1° Y 26'51	
direct	3965 Apr 27 19:43	16° Ƴ 45'18			3966 Apr 05 18:02	30° Ŗ ₩	
desc. node	3965 Apr 27 17:14	16° Ƴ 45'20		direct	3966 Apr 10 09:06	28°) 49′38	
morning max el	3965 May 12 01:57	24° Y '40'23	27°44'43	desc. node	3966 Apr 14 14:16	29°) 41′30	
	3965 May 16 22:29	0° 8			3966 Apr 15 07:42	0° Y	
	3965 Jun 05 15:26	Π °0		morning max el	3966 Apr 24 08:31	6° Ƴ 47'55	27°49'03
morning set	3965 Jun 13 12:59	15° Ⅱ 23'39			3966 May 12 00:44	9° 8	
asc. node	3965 Jun 17 15:21	24° Ⅱ 03'45		morning set	3966 May 28 12:48	29° 8 34'39	
max. Earth dist.	3965 Jun 19 15:35	28° ∏ 25'50	1.32132 AU		3966 May 28 17:50	0∘Щ	
	3965 Jun 20 08:47	0 \circ		max. Earth dist.	3966 Jun 02 22:12	10° Ⅱ 47'03	1.32646 AU
				asc. node	3966 Jun 04 12:24	14° Ⅱ 12'05	

superior conj	3966 Jun 05 04:12	15° Ⅱ 37'31	0°06'55	superior conj	3967 May 20 08:16	29° 8 57'05	-0°21'14
minimum elong	3966 Jun 05 03:52	15° Ⅲ 35'42	0°06'50	minimum elong	3967 May 20 09:22	0° Ⅲ 02′52	0°21'00
behind sun begin	3966 Jun 04 23:07	15° Ⅱ 09'58			3967 May 20 08:50	$\Pi^{\circ}0$	
behind sun end	3966 Jun 05 08:38	16° Ⅱ 01′28		asc. node	3967 May 22 09:25	4° Ⅱ 18′07	
	3966 Jun 11 19:33	0 \circ \odot		evening rise	3967 May 27 14:29	15° Ⅱ 23'36	
evening rise	3966 Jun 12 03:26	0° 5 41'51			3967 Jun 03 22:53	0 \circ \odot	
	3966 Jun 28 09:26	$0^{\circ}\Omega$		evening max el	3967 Jun 17 13:31	19° 5 22'38	22°04'44
evening max el	3966 Jul 05 22:06	8° Ω 57'00	23°41'03	desc. node	3967 Jun 28 10:34	25° © 34'10	
desc. node	3966 Jul 11 13:33	13° Ω 22'58		retrograde	3967 Jun 30 08:07	25° © 42'31	
retrograde	3966 Jul 19 13:50	15° Ω 48'10		evening set	3967 Jul 03 03:32	25° © 24'56	
evening set	3966 Jul 23 18:56	15° Ω 09'12		inferior conj	3967 Jul 12 11:05	21° © 19'36	
min. Earth dist.	3966 Jul 30 08:07	12° Ω 03'51	0.56004 AU	minimum elong	3967 Jul 12 02:35	21° © 31'34	3°46'27
inferior conj	3966 Aug 01 12:39	10° Ω 45'01		min. Earth dist.	3967 Jul 11 18:38	21°542'43	0.54999 AU
minimum elong	3966 Aug 01 07:31	10° £ 52'45	4°53'48	morning rise	3967 Jul 21 03:22	17°528'43	
morning rise	3966 Aug 09 22:38	6° Ω 49'31		direct	3967 Jul 24 07:01	17°506'40	21021122
direct	3966 Aug 12 17:56	6° £ 29'49	20005147	morning max el	3967 Aug 05 03:42	22°939'01	21°31'22
morning max el	3966 Aug 22 23:32	11° Ω 14'52	20°05'47	1	3967 Aug 11 12:08	0° Ω	
asc. node	3966 Aug 31 11:38	22° Ω 12'01		asc. node	3967 Aug 18 08:40	10° £ 59'12	
marring gat	3966 Sep 04 22:21 3966 Sep 10 04:57	0° Mp 10° Mp 22'56		morning set	3967 Aug 25 13:46	25° Ω 09'07 0° m	
morning set	3900 Sep 10 04.37	10 11/22 30			3967 Aug 27 21:19	V III	
superior conj	3966 Sep 17 21:58	26° Mp 06'03	1°43'38	superior conj	3967 Sep 01 20:45	10° m 27'57	1°43'17
minimum elong	3966 Sep 17 22:41	26° Mp 09'38	1°43'36	minimum elong	3967 Sep 01 20:01	10° ™ 24'09	1°43'15
	3966 Sep 19 20:58	0∘ ⊽		max. Earth dist.	3967 Sep 05 21:47	18° ™ 44'56	1.35045 AU
max. Earth dist.	3966 Sep 23 10:14	6° £ 53'10	1.36804 AU	evening rise	3967 Sep 10 05:19	27° Mp 11'54	
evening rise	3966 Sep 27 06:10	14° ≏ 00'27			3967 Sep 11 16:56	0₀ ಹ	
	3966 Oct 06 13:37	0°M₊		desc. node	3967 Sep 24 09:55	21° ≏ 47'02	
desc. node	3966 Oct 07 12:53	1°M33'45			3967 Sep 29 21:19	0°M	
	3966 Oct 27 21:01	0° ∡ ¹		evening max el	3967 Oct 15 12:23	19°M08'30	26°43'33
evening max el	3966 Nov 01 23:57	5° х 29'59	25°46'23	retrograde	3967 Oct 28 13:08	26°M24'02	
retrograde	3966 Nov 14 08:27	12° ∡ 33'17		evening set	3967 Nov 04 03:34	23°M44'11	0.65025.433
evening set	3966 Nov 20 10:05	10°×702'18	0.66060.444	min. Earth dist.	3967 Nov 08 04:26	19°M38'33	0.65937 AU
min. Earth dist.	3966 Nov 24 17:51	5° ₹ 20'53	0.66969 AU	inferior conj	3967 Nov 09 23:46	17°M30'47	
inferior conj	3966 Nov 26 01:31	3° х 40′40		minimum elong	3967 Nov 10 02:12	17°M23'33	1°27'15
minimum elong asc. node	3966 Nov 26 02:15 3966 Nov 27 10:50	3° ∡ 738'18 1° ∡ 756'55	0°28'14	asc. node	3967 Nov 14 07:51 3967 Nov 16 01:36	12° M 59'10 11° M 48'59	
asc. node	3966 Nov 29 04:04	30°RM		morning rise direct	3967 Nov 18 22:28	11°M03'15	
morning rise	3966 Dec 01 18:49	27°M47'42		morning max el	3967 Nov 16 22:28 3967 Nov 25 12:19	14°M237'33	18°23'01
direct	3966 Dec 05 01:01	26°M46'42		morning max cr	3967 Dec 06 16:46	0° √	18 23 01
direct	3966 Dec 11 07:53	20 11 0 40 42		morning set	3967 Dec 00 10:40	13° ₹ 125'11	
morning max el	3966 Dec 11 23:39	0° ∡ ³38'09	19°05'05	desc. node	3967 Dec 21 09:10	23° × ² 31'28	
morning max or	3967 Jan 01 15:12	0°ਰ	17 03 03	desc. Hode	3967 Dec 25 11:06	0°る	
morning set	3967 Jan 03 19:22	³° ට 23'00			3707 BCC 23 11.00	Ů Ú	
desc. node	3967 Jan 03 12:07	2° ප 54'48		superior conj	3967 Dec 30 13:57	8° ප 03'53	-1°00'10
max. Earth dist.	3967 Jan 18 02:24	25° る 43'58	1.44961 AU	minimum elong	3967 Dec 30 06:33	7° る 34'48	
				max. Earth dist.	3967 Dec 31 21:10	10° る 06'23	1.45259 AU
superior conj	3967 Jan 20 11:36	29° る 29'36	-1°40'20		3968 Jan 13 13:44	0° ≈	
minimum elong	3967 Jan 20 02:39	28° る 54'14	1°39'32	evening rise	3968 Jan 15 16:33	3° ≈ 19'42	
-	3967 Jan 20 19:18	0° ≈		greatest brilliancy	3968 Jan 26 03:20	19° ≈ 42'12	-0.8m
evening rise	3967 Feb 04 07:23	23° ≈ 21′21			3968 Feb 02 01:47	0°) €	
	3967 Feb 08 08:34	0° ∀		evening max el	3968 Feb 07 17:18	6° ¥ 58'18	19°11'03
asc. node	3967 Feb 23 10:07	22°) 30′14		asc. node	3968 Feb 10 07:08	9° ∺ 14'57	
evening max el	3967 Feb 24 08:10	23° ∺ 28'51	18°32'13	retrograde	3968 Feb 14 17:07	10°) 57′08	
retrograde	3967 Mar 02 21:18	27°) 04'41		evening set	3968 Feb 18 02:44	9°) 49'42	
evening set	3967 Mar 06 00:11	26° ∺ 10′09		inferior conj	3968 Feb 23 15:46	4°) 00′20	3°23'43
inferior conj	3967 Mar 11 19:01	20°) 36′56	3°35'58	minimum elong	3968 Feb 23 14:02	4°) €05'55	3°23'30
minimum elong	3967 Mar 11 18:26	20°) (38′40	3°35'57	min. Earth dist.	3968 Feb 25 02:23	2° ₩ 09'31	0.66140 AU
min. Earth dist.	3967 Mar 13 20:54	18°) €08'58	0.64698 AU		3968 Feb 26 21:05	30°R≈	
morning rise	3967 Mar 17 12:05	14°) (26'07		morning rise	3968 Feb 29 01:00	27°≈46'44	
direct	3967 Mar 24 06:11	11°) (36'31		direct	3968 Mar 06 09:56	24°≈58'05	
desc. node	3967 Apr 01 11:18	14°) 52'11	0.001.000		3968 Mar 16 11:37	0°) (+2)22	
morning max el	3967 Apr 06 18:08	19° ¥ 29'17	27~17'56	desc. node	3968 Mar 18 08:19	1°) (43'33	26010102
	3967 Apr 15 17:06	$^{\circ \gamma}$		morning max el	3968 Mar 19 04:03	2°) (32′27	26°18'02
	3967 May 05 00:56	0° 8			3968 Apr 08 21:55	0°Υ 26° Υ 17120	
morning set	3967 May 12 03:53	13° 8 16'00	1 22602 411	morning set	3968 Apr 24 06:36	26° Y 17′20	
max. Earth dist.	3967 May 16 20:25	22° 8 39'40	1.33603 AU	max. Earth dist.	3968 Apr 26 05:42 3968 Apr 28 07:16	0° と 3° と 59'41	1.35024 AU
				max. Earm uist.	5700 Apr 20 07.10	5 03941	1.33024 AU

gunariar aani	2069 May 02 05:20	13° 8 51'46	0°50'21		2060 Apr 01 20:02	0° Υ	
superior conj minimum elong	3968 May 03 05:30 3968 May 03 08:12	13 8 31 40		morning set	3969 Apr 01 20:03 3969 Apr 06 16:04	8° Υ 24'22	
asc. node	3968 May 08 06:26	24° 8 18'03	0 49 31	max. Earth dist.	3969 Apr 10 07:09	6 1 24 22 14° Υ 59'49	1.36877 AU
evening rise	3968 May 10 22:46	29° 8 51'56		max. Lartii dist.	3707 Apr 10 07.07	14 (3)4)	1.50077 AC
evening rise	3968 May 11 00:20	0°II		superior conj	3969 Apr 16 16:57	27° Y °13′23	-1°18'44
	3968 May 29 08:53	0. 0.		minimum elong	3969 Apr 16 21:04	27° Y '33'37	1°18'06
evening max el	3968 May 29 14:40	0°9514'14	20°39'00	g	3969 Apr 18 02:44	0°8	1 10 00
retrograde	3968 Jun 09 20:58	5°5944'28		evening rise	3969 Apr 25 02:01	14° 8 00'03	
evening set	3968 Jun 11 22:10	5° © 34'16		asc. node	3969 Apr 25 03:28	14° 8 07'17	
desc. node	3968 Jun 14 07:33	4° © 58'24			3969 May 03 12:53	0°II	
inferior conj	3968 Jun 21 04:34	1° 9 36'55	-2°01'04	evening max el	3969 May 12 04:08	11° Ⅱ 46′11	19°30'55
minimum elong	3968 Jun 20 22:55	1° © 45'03	1°59'03	retrograde	3969 May 21 16:31	16° Ⅲ 23'47	
min. Earth dist.	3968 Jun 22 06:33	0°\$59'36	0.54911 AU	evening set	3969 May 23 15:57	16° Ⅱ 12'42	
	3968 Jun 24 01:07	30°Ŗ Ⅱ		inferior conj	3969 Jun 01 07:34	12° Ⅱ 07'49	-0°02'14
morning rise	3968 Jun 29 22:59	27° Ⅲ 30′17		minimum elong	3969 Jun 01 07:29	12° Ⅱ 07'58	0°02'11
direct	3968 Jul 03 16:24	27° Ⅱ 00′21		transit middle	3969 Jun 01 07:29	12° Ⅱ 07'58	0°02'11
	3968 Jul 12 16:12	0 \circ \odot		transit begin	3969 Jun 01 03:37	12° Ⅱ 14′09	
morning max el	3968 Jul 16 22:09	3° 5 23'26	23°11'16	transit end	3969 Jun 01 11:20	12° Ⅱ 01'47	
asc. node	3968 Aug 04 05:42	0° Ω 15'49		desc. node	3969 Jun 01 04:32	12° Ⅱ 12'40	
	3968 Aug 04 02:27	$0^{\circ}\Omega$		min. Earth dist.	3969 Jun 03 20:27	10° Ⅲ 30′51	0.55781 AU
morning set	3968 Aug 09 00:53	10° Ω 01'39		morning rise	3969 Jun 09 20:17	7° Ⅱ 29'49	
				direct	3969 Jun 14 10:55	6° Ⅱ 41'57	
superior conj	3968 Aug 16 02:04	25° Ω 08'40	1°36'29	morning max el	3969 Jun 28 12:03	13° Ⅱ 46'41	24°53'52
minimum elong	3968 Aug 16 00:19	24° Ω 59'21	1°36'20		3969 Jul 11 04:55	0 \circ \mathfrak{s}	
	3968 Aug 18 08:50	0° m ∕		asc. node	3969 Jul 22 02:45	19° © 54'02	
max. Earth dist.	3968 Aug 18 18:10	0° ™ 49'10	1.33670 AU	morning set	3969 Jul 24 12:39	24° © 55'34	
evening rise	3968 Aug 23 17:53	11° m)01'47			3969 Jul 26 21:28	0 \circ Ω	
	3968 Sep 03 00:56	0∘ ত					
desc. node	3968 Sep 10 06:55	11° ≏ 36'45		superior conj	3969 Jul 31 11:28	10° Ω 00′23	1°24'14
	3968 Sep 24 11:22	0°M₊		minimum elong	3969 Jul 31 09:12	9° Ω 48'02	1°23'57
evening max el	3968 Sep 27 00:32	2°M34'00	27°18'45	max. Earth dist.	3969 Aug 01 22:55	13° Ω 13'22	1.32710 AU
retrograde	3968 Oct 10 12:07	9°M52'28		evening rise	3969 Aug 07 16:09	25° Ω 19'37	
evening set	3968 Oct 17 12:17	7°M11'31			3969 Aug 09 23:47	0° m)	
min. Earth dist.	3968 Oct 21 07:09	3°M40'41	0.64557 AU		3969 Aug 27 12:55	0∘ 亚	
inferior conj	3968 Oct 23 14:35	1°ML11'13		desc. node	3969 Aug 28 03:54	0° ₽ 53'20	27025120
minimum elong	3968 Oct 23 18:48	0°M59'50	2°28'07	evening max el	3969 Sep 09 10:41	15° £ 34'36	27°25'30
	3968 Oct 24 17:18	30°R Ω		retrograde	3969 Sep 23 04:30	22° £ 50'11 20° £ 18'45	
morning rise	3968 Oct 30 02:29 3968 Oct 31 04:54	25° £ 43'31 25° £ 20'30		evening set min. Earth dist.	3969 Sep 30 09:04 3969 Oct 04 00:08	20° 2 1843	0.62853 AU
asc. node direct	3968 Nov 01 16:26	25° £ 2030		inferior conj	3969 Oct 04 00.08 3969 Oct 06 19:17	17 ≥ 18 19 14° ♀ 36'05	
morning max el	3968 Nov 08 04:19	23° ⊆ 09'04 28° ⊆ 35'30	17°57'48	minimum elong	3969 Oct 00 19:17 3969 Oct 07 00:54	14° ⊆ 30'03	
morning max ci	3968 Nov 09 11:52	0°M	17 37 40	morning rise	3969 Oct 13 18:16	9° £ 25'48	3 27 30
morning set	3968 Nov 25 13:21	24°M52'55		direct	3969 Oct 16 04:02	8° ₽ 59'01	
morning set	3968 Nov 28 14:30	0° √		asc. node	3969 Oct 18 01:58	9° ≏ 16'24	
desc. node	3968 Dec 07 06:12	14° × 14'50		morning max el	3969 Oct 22 20:45	12° £ 25'33	17°50'15
	.,				3969 Nov 03 18:27	0°M	.,
superior conj	3968 Dec 09 02:08	17° √ 11'57	-0°12'35	morning set	3969 Nov 08 00:36	7° M 29'24	
minimum elong	3968 Dec 09 00:38	17° ∡ 05′52	0°12'23	C			
behind sun begin	3968 Dec 08 17:53	16° ₹ 38'44		superior conj	3969 Nov 19 14:31	27°M31'59	0°31'13
behind sun end	3968 Dec 09 07:23	17° ∡ ³32'58		minimum elong	3969 Nov 19 17:27	27° M 44'20	0°30'47
max. Earth dist.	3968 Dec 13 15:59	24° ₹ 29'28	1.44819 AU		3969 Nov 21 01:58	0° ∡ ¹	
	3968 Dec 17 04:02	8°0		desc. node	3969 Nov 24 03:14	5° ∡ 01'48	
evening rise	3968 Dec 25 07:24	12° る 37'41		max. Earth dist.	3969 Nov 26 08:26	8° ∡ ³37'37	1.43702 AU
	3969 Jan 05 17:13	0° ≈		evening rise	3969 Dec 04 17:13	21° х 50′03	
greatest brilliancy	3969 Jan 08 19:49	4° ≈ 36′53	-0.6m		3969 Dec 10 01:16	0°ප	
evening max el	3969 Jan 20 21:52	20° ≈ 30′03	20°05'38		3969 Dec 31 06:24	0° ≈	
asc. node	3969 Jan 27 04:09	24° ≈ 49′01		evening max el	3970 Jan 03 21:01	4° ≈ 03'17	21°13'09
retrograde	3969 Jan 28 15:00	25° ≈ 00′27		retrograde	3970 Jan 12 12:48	9° ≈ 11'11	
evening set	3969 Feb 01 08:44	23° ≈ 39′02		asc. node	3970 Jan 14 01:11	8° ≈ 58'38	
inferior conj	3969 Feb 06 18:27	17° ≈ 35'56	2°59'47	evening set	3970 Jan 16 16:20	7° ≈ 34'33	
minimum elong	3969 Feb 06 16:05	17° ≈ 43'54	2°59'16	inferior conj	3970 Jan 22 00:41	1° ≈ 20'32	
min. Earth dist.	3969 Feb 07 14:59	16° ≈ 26'47	0.67166 AU	minimum elong	3970 Jan 21 22:13	1° ≈ 29'04	2°25'44
morning rise	3969 Feb 11 23:12	11°≈21'57		min. Earth dist.	3970 Jan 22 08:33	0°≈53'20	0.67783 AU
direct	3969 Feb 17 19:24	8°≈45'17	2.40.50: 1-		3970 Jan 23 00:05	30°Rる	
morning max el	3969 Mar 01 12:45	15°≈45'48	24°58'47	morning rise	3970 Jan 27 03:54	25° る 07'53	
desc. node	3969 Mar 05 05:22	19°≈46'52		direct	3970 Feb 01 09:34	22° ろ 50'31	22020124
	3969 Mar 13 06:34	0° ∀		morning max el	3970 Feb 11 21:26	29° る 05'05	25~50'34

	3970 Feb 12 18:44	0° ≈		desc. node	3971 Feb 06 23:30	28° る 13'14	
desc. node	3970 Feb 20 02:26	8° ≈ 41'41			3971 Feb 08 05:52	0° ≈	
	3970 Mar 07 01:33	0°) €		morning set	3971 Feb 27 08:08	28° ≈ 57'03	
morning set	3970 Mar 19 02:15	19° ¥ 21'22			3971 Feb 27 23:44	0° ∀	
max. Earth dist.	3970 Mar 23 02:20	26°) 15'08	1.39015 AU	max. Earth dist.	3971 Mar 05 00:33		1.41170 AU
max. Latin dist.		20 χ1308 0° Υ	1.59015 AU	max. Earth dist.	39/1 Wiai 03 00.33	6 / (1/11	1.411/0 AO
	3970 Mar 25 05:10	0.4.					
				superior conj	3971 Mar 12 18:23	21° ¥ 37′50	
superior conj	3970 Mar 30 14:49	9° Ƴ 52'38	-1°43'45	minimum elong	3971 Mar 12 21:52	21°) 53′19	2°01'29
minimum elong	3970 Mar 30 19:34	10° Ƴ 14'48	1°43'14		3971 Mar 17 09:57	0° Y	
evening rise	3970 Apr 08 21:33	27° Ƴ 41'05		evening rise	3971 Mar 23 05:55	10° Ƴ 46'43	
8	3970 Apr 10 02:16	0°8		asc. node	3971 Mar 29 21:32	22° Y 54'28	
aca mada				asc. node		0°8	
asc. node	3970 Apr 12 00:30	3° 8 41'16			3971 Apr 03 05:11		
evening max el	3970 Apr 25 04:19	23° 8 57'37	18°42'51	evening max el	3971 Apr 08 12:00	6° 8 40'55	18°15'01
retrograde	3970 May 03 05:21	27° 8 54'13		retrograde	3971 Apr 15 13:18	10° 8 12'52	
evening set	3970 May 05 10:14	27° 8 37'33		evening set	3971 Apr 18 00:43	9° 8 47'37	
inferior conj	3970 May 13 05:58	23° 8 14'49	1°37'14	inferior conj	3971 Apr 25 01:56	5° 8 04'16	2°44'52
minimum elong	3970 May 13 09:13	23° 8 08'45	1°36'11	minimum elong	3971 Apr 25 05:25		2°44'03
•	-			•	•		
min. Earth dist.	3970 May 16 13:22	20° 8 47'55	0.57425 AU	min. Earth dist.	3971 Apr 28 11:42	_	0.59506 AU
desc. node	3970 May 19 01:35	19° 8 09'09			3971 May 01 07:43	30° Ŗ ♈	
morning rise	3970 May 21 05:00	18° 8 01'50		morning rise	3971 May 02 07:30	29° Y 23'17	
direct	3970 May 26 19:08	16° 8 44'54		desc. node	3971 May 05 22:39	27° Ƴ 51'57	
morning max el	3970 Jun 10 03:43	24° 8 17'19	26°23'26	direct	3971 May 08 16:34	27° Ƴ 31'10	
morning man vi	3970 Jun 15 08:49	0°II	20 25 20	411000	3971 May 16 10:15	0°8	
					•	_	27025121
_	3970 Jul 04 04:32	0°€		morning max el	3971 May 23 01:22	5° 8 20'40	2/*25.21
morning set	3970 Jul 08 23:26	9° © 45'02			3971 Jun 10 08:13	Π °0	
asc. node	3970 Jul 08 23:47	9° © 46'55		morning set	3971 Jun 23 07:33	24° ∏ 24'58	
				asc. node	3971 Jun 25 20:50	29° Ⅱ 49'32	
superior conj	3970 Jul 15 22:55	24°955'40	1°07'20		3971 Jun 25 22:47	0ಂಣ	
minimum elong	3970 Jul 15 20:37	24°5643'00	1°06'57				
ē					2071 I 20 10:20	006749150	0946126
max. Earth dist.	3970 Jul 16 09:01	25° © 51'24	1.32165 AU	superior conj	3971 Jun 30 10:39	9° © 48'59	0°46'26
	3970 Jul 18 06:16	0 $^{\circ}\Omega$		minimum elong	3971 Jun 30 08:47	9° © 38'40	0°46'04
evening rise	3970 Jul 22 21:07	9° Ω 55'18		max. Earth dist.	3971 Jun 29 20:51	8° © 32'55	1.32026 AU
	3970 Aug 02 06:56	O° m y		evening rise	3971 Jul 07 06:23	24° 5 31'30	
desc. node	3970 Aug 15 00:54	19° m 22'22			3971 Jul 09 19:27	$0 { m ^o} \Omega$	
evening max el	3970 Aug 22 16:00	27° m 55'35	26°59'25		3971 Jul 27 09:12	0° m)	
8	3970 Aug 25 00:12	$0 \circ \overline{\mathbf{v}}$		desc. node	3971 Aug 01 21:55	6° m) 44'18	
	3770 Trug 23 00.12	· —		desc. Hode	5) / 1 / 1 dg 01 21.55	0 117 110	
matro areada	2070 Cap 05 12:10	50 0 07106		arraning may al	2071 Aug 04 14:02	00 m 27/50	26900122
retrograde	3970 Sep 05 13:19	5° Ω 07'06		evening max el	3971 Aug 04 14:03	9° ™ 27'59	26°00'33
evening set	3970 Sep 12 13:41	2° ჲ 57'26		retrograde	3971 Aug 18 13:22	16° Mp 36'21	26°00'33
•	3970 Sep 12 13:41 3970 Sep 16 06:14	2° ჲ 57'26	0.60891 AU	•	•	16° m/36'21 14° m/59'56	
evening set	3970 Sep 12 13:41	2° ჲ 57'26	0.60891 AU	retrograde	3971 Aug 18 13:22	16° m/36'21 14° m/59'56	26°00'33 0.58820 AU
evening set	3970 Sep 12 13:41 3970 Sep 16 06:14 3970 Sep 16 14:48	2° £ 57'26 0° £ 17'36		retrograde evening set	3971 Aug 18 13:22 3971 Aug 24 21:16	16° m/36'21 14° m/59'56	0.58820 AU
evening set min. Earth dist. inferior conj	3970 Sep 12 13:41 3970 Sep 16 06:14 3970 Sep 16 14:48 3970 Sep 19 10:29	2° 2 57'26 0° 2 17'36 30°R M 27° M 35'42	-4°23'02	retrograde evening set min. Earth dist. inferior conj	3971 Aug 18 13:22 3971 Aug 24 21:16 3971 Aug 29 02:32 3971 Sep 01 08:35	16° m 36'21 14° m 59'56 12° m 24'18 10° m 00'19	0.58820 AU -5°00'44
evening set min. Earth dist. inferior conj minimum elong	3970 Sep 12 13:41 3970 Sep 16 06:14 3970 Sep 16 14:48 3970 Sep 19 10:29 3970 Sep 19 16:18	2° \$\omega 57'26 0° \$\omega 17'36 30° R M 27° M 35'42 27° M 23'19	-4°23'02	retrograde evening set min. Earth dist. inferior conj minimum elong	3971 Aug 18 13:22 3971 Aug 24 21:16 3971 Aug 29 02:32 3971 Sep 01 08:35 3971 Sep 01 12:12	16° m 36'21 14° m 59'56 12° m 24'18 10° m 00'19 9° m 53'37	0.58820 AU -5°00'44
evening set min. Earth dist. inferior conj minimum elong morning rise	3970 Sep 12 13:41 3970 Sep 16 06:14 3970 Sep 16 14:48 3970 Sep 19 10:29 3970 Sep 19 16:18 3970 Sep 26 20:46	2°\$\overline{2}57'26 0°\$\overline{1}7'36 30°R\$\psi\$\overline{2}7°\$\psi\$35'42 27°\$\overline{2}3'19 22°\$\psi\$46'23	-4°23'02	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	3971 Aug 18 13:22 3971 Aug 24 21:16 3971 Aug 29 02:32 3971 Sep 01 08:35 3971 Sep 01 12:12 3971 Sep 09 05:22	16° m 36'21 14° m 59'56 12° m 24'18 10° m 00'19 9° m 53'37 5° m 34'11	0.58820 AU -5°00'44
evening set min. Earth dist. inferior conj minimum elong morning rise direct	3970 Sep 12 13:41 3970 Sep 16 06:14 3970 Sep 16 14:48 3970 Sep 19 10:29 3970 Sep 19 16:18 3970 Sep 26 20:46 3970 Sep 29 05:23	2° \$\Delta 57'26 0° \$\Delta 17'36 30° R M 27° M 35'42 27° M 23'19 22° M 46'23 22° M 24'15	-4°23'02	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3971 Aug 18 13:22 3971 Aug 24 21:16 3971 Aug 29 02:32 3971 Sep 01 08:35 3971 Sep 01 12:12 3971 Sep 09 05:22 3971 Sep 11 15:54	16° m 36'21 14° m 59'56 12° m 24'18 10° m 00'19 9° m 53'37 5° m 34'11 5° m 14'28	0.58820 AU -5°00'44 5°00'22
evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	3970 Sep 12 13:41 3970 Sep 16 06:14 3970 Sep 16 14:48 3970 Sep 19 10:29 3970 Sep 19 16:18 3970 Sep 26 20:46	2°\$\overline{5}57'26 0°\$\overline{1}7'36 30°\$\overline{1}7'35'42 27°\$\overline{2}3'19 22°\$\overline{4}6'23 22°\$\overline{2}4'15 24°\$\overline{4}0'59	-4°23'02 4°21'45	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	3971 Aug 18 13:22 3971 Aug 24 21:16 3971 Aug 29 02:32 3971 Sep 01 08:35 3971 Sep 01 12:12 3971 Sep 09 05:22 3971 Sep 11 15:54 3971 Sep 19 18:11	16° m 36'21 14° m 59'56 12° m 24'18 10° m 00'19 9° m 53'37 5° m 34'11 5° m 14'28 9° m 07'23	0.58820 AU -5°00'44
evening set min. Earth dist. inferior conj minimum elong morning rise direct	3970 Sep 12 13:41 3970 Sep 16 06:14 3970 Sep 16 14:48 3970 Sep 19 10:29 3970 Sep 19 16:18 3970 Sep 26 20:46 3970 Sep 29 05:23	2°\$\overline{5}57'26 0°\$\overline{1}7'36 30°\$\overline{1}7'35'42 27°\$\overline{2}3'19 22°\$\overline{4}6'23 22°\$\overline{2}4'15 24°\$\overline{4}0'59	-4°23'02	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	3971 Aug 18 13:22 3971 Aug 24 21:16 3971 Aug 29 02:32 3971 Sep 01 08:35 3971 Sep 01 12:12 3971 Sep 09 05:22 3971 Sep 11 15:54	16° m 36'21 14° m 59'56 12° m 24'18 10° m 00'19 9° m 53'37 5° m 34'11 5° m 14'28	0.58820 AU -5°00'44 5°00'22
evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	3970 Sep 12 13:41 3970 Sep 16 06:14 3970 Sep 16 14:48 3970 Sep 19 10:29 3970 Sep 19 16:18 3970 Sep 26 20:46 3970 Sep 29 05:23 3970 Oct 04 23:02	2°\$\overline{5}57'26 0°\$\overline{1}7'36 30°\$\overline{1}7'35'42 27°\$\overline{2}3'19 22°\$\overline{4}6'23 22°\$\overline{2}4'15 24°\$\overline{4}0'59	-4°23'02 4°21'45	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	3971 Aug 18 13:22 3971 Aug 24 21:16 3971 Aug 29 02:32 3971 Sep 01 08:35 3971 Sep 01 12:12 3971 Sep 09 05:22 3971 Sep 11 15:54 3971 Sep 19 18:11	16° m 36'21 14° m 59'56 12° m 24'18 10° m 00'19 9° m 53'37 5° m 34'11 5° m 14'28 9° m 07'23	0.58820 AU -5°00'44 5°00'22
evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	3970 Sep 12 13:41 3970 Sep 16 06:14 3970 Sep 16 14:48 3970 Sep 19 10:29 3970 Sep 19 16:18 3970 Sep 26 20:46 3970 Sep 29 05:23 3970 Oct 04 23:02 3970 Oct 06 10:28	2°\$\frac{\Omega}57'26 0°\$\frac{\Omega}17'36 30°\Rm\tau\tau\tau\tau\tau\tau\tau\tau\tau\tau	-4°23'02 4°21'45	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	3971 Aug 18 13:22 3971 Aug 24 21:16 3971 Aug 29 02:32 3971 Sep 01 08:35 3971 Sep 01 12:12 3971 Sep 09 05:22 3971 Sep 11 15:54 3971 Sep 19 18:11 3971 Sep 21 20:05	16° m 36'21 14° m 59'56 12° m 24'18 10° m 00'19 9° m 53'37 5° m 34'11 5° m 14'28 9° m 07'23 11° m 20'38	0.58820 AU -5°00'44 5°00'22
evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el	3970 Sep 12 13:41 3970 Sep 16 06:14 3970 Sep 16 14:48 3970 Sep 19 10:29 3970 Sep 19 16:18 3970 Sep 26 20:46 3970 Sep 29 05:23 3970 Oct 04 23:02 3970 Oct 06 10:28 3970 Oct 09 21:01	2°\$\sigma 57'26 0°\$\sigma 17'36 30°\$\text{Rm} 27°\$\text{m} 35'42 27°\$\text{m} 23'19 22°\$\text{m} 46'23 22°\$\text{m} 24'15 24°\$\text{m} 40'59 25°\$\text{m} 59'08 0°\$\sigma	-4°23'02 4°21'45	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	3971 Aug 18 13:22 3971 Aug 24 21:16 3971 Aug 29 02:32 3971 Sep 01 08:35 3971 Sep 01 12:12 3971 Sep 09 05:22 3971 Sep 11 15:54 3971 Sep 19 18:11 3971 Sep 21 20:05 3971 Oct 03 08:25	16° m 36'21 14° m 59'56 12° m 24'18 10° m 00'19 9° m 53'37 5° m 34'11 5° m 14'28 9° m 07'23 11° m 20'38 0° •	0.58820 AU -5°00'44 5°00'22
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evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise	3970 Sep 12 13:41 3970 Sep 16 06:14 3970 Sep 16 06:14 3970 Sep 19 10:29 3970 Sep 19 16:18 3970 Sep 29 05:23 3970 Oct 04 23:02 3970 Oct 06 10:28 3970 Oct 09 21:01 3970 Oct 22 05:08 3970 Oct 27 03:17 3970 Nov 01 05:20 3970 Nov 01 09:31 3970 Nov 01 09:31 3970 Nov 11 00:15 3970 Nov 13 14:13 3970 Nov 14 13:59 3970 Dec 03 12:57 3970 Dec 17 14:56 3970 Dec 31 23:51 3970 Dec 31 23:51 3970 Dec 31 23:51 3970 Dec 31 22:15 3971 Jan 06 08:28 3971 Jan 06 06:21 3971 Jan 06 04:48 3971 Jan 11 12:44	2° \$\omega 57'26 0° \$\omega 17'36 30° R M 27° \$\omega 35'42 27° \$\omega 35'42 27° \$\omega 23'19 22° \$\omega 46'23 22° \$\omega 24'15 24° \$\omega 40'59 25° \$\omega 54'48 0° \$\omega 54'48 35' \$\omega 54'835 10° \$\omega 37'55 23° \$\omega 53'55 23° \$\omega 53'48 21° \$\omega 33'48 21° \$\omega 33'49 9° \$\omega 01'26	-4°23'02 4°21'45 18°01'29 1°05'06 1°04'35 1.42035 AU 22°29'35	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	3971 Aug 18 13:22 3971 Aug 24 21:16 3971 Aug 29 02:32 3971 Sep 01 08:35 3971 Sep 01 12:12 3971 Sep 09 05:22 3971 Sep 11 15:54 3971 Sep 19 18:11 3971 Sep 21 20:05 3971 Oct 03 08:25 3971 Oct 05 21:48 3971 Oct 14 18:22 3971 Oct 14 21:40 3971 Oct 19 05:17 3971 Oct 22 03:03 3971 Oct 26 08:02 3971 Oct 28 21:16 3971 Nov 06 10:50 3971 Nov 28 23:40 3971 Dec 11 01:47 3971 Dec 16 05:39 3971 Dec 18 19:19 3971 Dec 20 23:54 3971 Dec 21 01:25	16° m 36'21 14° m 59'56 12° m 24'18 10° m 00'19 9° m 53'37 5° m 34'11 5° m 14'28 9° m 07'23 11° m 20'38 0° a 4° a 54'24 21° a 51'23 22° a 06'49 0° m 5° m 07'57 12° m 18'49 16° m 31'51 0° x 0° t 1° t 15'15 7° t 39'37 5° t 30'49 2° t 50'37 30° k x 29° x 55'52 29° x 05'27 29° x 09'56	0.58820 AU -5°00'44 5°00'22 18°32'54 1°27'50 1°27'32 1.40026 AU 23°49'33
evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening rise evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist.	3970 Sep 12 13:41 3970 Sep 16 06:14 3970 Sep 16 06:14 3970 Sep 16 14:48 3970 Sep 19 10:29 3970 Sep 19 16:18 3970 Sep 26 20:46 3970 Sep 29 05:23 3970 Oct 04 23:02 3970 Oct 06 10:28 3970 Oct 09 21:01 3970 Oct 22 05:08 3970 Oct 27 03:17 3970 Nov 01 05:20 3970 Nov 01 09:31 3970 Nov 01 09:31 3970 Nov 11 00:15 3970 Nov 13 14:13 3970 Nov 14 13:59 3970 Dec 03 12:57 3970 Dec 17 14:56 3970 Dec 31 23:51 3970 Dec 31 22:15 3971 Jan 06 08:28 3971 Jan 06 06:21 3971 Jan 06 06:21 3971 Jan 06 04:48	2°\$\overline{2}57'26 0°\$\overline{1}17'36 30°\$\overline{1}\text{m}\text{27}\text{m}\text{35'42} 27°\$\overline{1}35'42 27°\$\overline{1}35'42 22°\$\overline{1}40'59 25°\$\overline{1}59'08 0°\$\overline{2}0°\$\overline{2}54'48 0°\$\overline{1}2 9°\$\overline{1}27'38 22°\$\overline{1}4'33 25°\$\overline{1}4'33 21°\$\overline{3}35'12 0°\$\overline{3}1'08 15°\$\overline{3}32'48 21°\$\overline{3}36'05 15°\$\overline{3}11'08 15°\$\overline{3}11'08 15°\$\overline{3}11'24 15°\$\overline{3}23'49	-4°23'02 4°21'45 18°01'29 1°05'06 1°04'35 1.42035 AU 22°29'35	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj	3971 Aug 18 13:22 3971 Aug 24 21:16 3971 Aug 29 02:32 3971 Sep 01 08:35 3971 Sep 01 12:12 3971 Sep 09 05:22 3971 Sep 11 15:54 3971 Sep 19 18:11 3971 Sep 21 20:05 3971 Oct 03 08:25 3971 Oct 05 21:48 3971 Oct 14 18:22 3971 Oct 14 21:40 3971 Oct 19 05:17 3971 Oct 22 03:03 3971 Oct 28 21:16 3971 Nov 06 10:50 3971 Nov 28 23:40 3971 Nov 30 05:01 3971 Dec 11 01:47 3971 Dec 16 05:39 3971 Dec 18 19:19 3971 Dec 21 01:25 3971 Dec 21 15:56	16° m 36'21 14° m 59'56 12° m 24'18 10° m 00'19 9° m 53'37 5° m 34'11 5° m 14'28 9° m 07'23 11° m 20'38 0° a 4° a 54'24 21° a 51'23 22° a 06'49 0° m 5° m 07'57 12° m 18'49 16° m 31'51 0° x 0° b 1° 515'15 7° 539'37 5° 530'49 2° 550'37 30° R x 29° x 54'52 29° x 05'27	0.58820 AU -5°00'44 5°00'22 18°32'54 1°27'50 1°27'32 1.40026 AU 23°49'33 0.67873 AU 0°57'37
evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node inferior conj minimum elong min. Earth dist. morning rise	3970 Sep 12 13:41 3970 Sep 16 06:14 3970 Sep 16 06:14 3970 Sep 19 10:29 3970 Sep 19 16:18 3970 Sep 29 05:23 3970 Oct 04 23:02 3970 Oct 06 10:28 3970 Oct 09 21:01 3970 Oct 22 05:08 3970 Oct 27 03:17 3970 Nov 01 05:20 3970 Nov 01 09:31 3970 Nov 01 09:31 3970 Nov 11 00:15 3970 Nov 13 14:13 3970 Nov 14 13:59 3970 Dec 03 12:57 3970 Dec 17 14:56 3970 Dec 31 23:51 3970 Dec 31 23:51 3970 Dec 31 23:51 3970 Dec 31 22:15 3971 Jan 06 08:28 3971 Jan 06 06:21 3971 Jan 06 04:48 3971 Jan 11 12:44	2° \$\omega 57'26 0° \$\omega 17'36 30° R M 27° \$\omega 35'42 27° \$\omega 35'42 27° \$\omega 23'19 22° \$\omega 46'23 22° \$\omega 24'15 24° \$\omega 40'59 25° \$\omega 54'48 0° \$\omega 54'48 35' \$\omega 54'835 10° \$\omega 37'55 23° \$\omega 53'55 23° \$\omega 53'48 21° \$\omega 33'48 21° \$\omega 33'49 9° \$\omega 01'26	-4°23'02 4°21'45 18°01'29 1°05'06 1°04'35 1.42035 AU 22°29'35 1°45'23 1°44'36 0.68008 AU	retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	3971 Aug 18 13:22 3971 Aug 24 21:16 3971 Aug 29 02:32 3971 Sep 01 08:35 3971 Sep 01 12:12 3971 Sep 09 05:22 3971 Sep 11 15:54 3971 Sep 19 18:11 3971 Sep 21 20:05 3971 Oct 03 08:25 3971 Oct 05 21:48 3971 Oct 14 18:22 3971 Oct 14 21:40 3971 Oct 19 05:17 3971 Oct 22 03:03 3971 Oct 26 08:02 3971 Oct 28 21:16 3971 Nov 06 10:50 3971 Nov 28 23:40 3971 Nov 30 05:01 3971 Dec 11 01:47 3971 Dec 16 05:39 3971 Dec 18 19:19 3971 Dec 20 23:54 3971 Dec 21 01:25 3971 Dec 21 15:56 3971 Dec 21 15:56 3971 Dec 21 15:56	16° m 36'21 14° m 59'56 12° m 24'18 10° m 00'19 9° m 53'37 5° m 34'11 5° m 14'28 9° m 07'23 11° m 20'38 0° a 4° a 54'24 21° a 51'23 22° a 06'49 0° m 5° m 07'57 12° m 18'49 16° m 31'51 0° x 0° t 1° t 15'15 7° t 39'37 5° t 30'49 2° t 50'37 30° k x 29° x 55'52 29° x 05'27 29° x 09'56	0.58820 AU -5°00'44 5°00'22 18°32'54 1°27'50 1°27'32 1.40026 AU 23°49'33 0.67873 AU 0°57'37

morning max el	3972 Jan 08 03:49	26° ₹ 09'33	20°43'21	direct	3972 Dec 13 22:57	5° ₹ 51'40	
morning max er	3972 Jan 11 14:56	20 x 09 33	20 43 21	morning max el	3972 Dec 13 22:37 3972 Dec 21 06:06	9° 🖈 58'21	19°36'36
desc. node	3972 Jan 24 20:32	0 3 18° 3 11'04		greatest brilliancy	3972 Dec 21 00:00 3973 Jan 03 08:56	27°×720'04	-0.7m
desc. Hode	3972 Jan 24 20:32 3972 Feb 01 17:18	0°≈		greatest offinalicy	3973 Jan 05 03:43	27 メ ・2004 0°る	-0.7111
				1 1		0 3 8° る 28'19	
morning set	3972 Feb 06 12:12 3972 Feb 15 05:23	7°≈22'51	1 42062 ATT	desc. node	3973 Jan 10 17:34	8° る 2819	
max. Earth dist.		21°≈12'33	1.43063 AU	morning set	3973 Jan 15 08:50		
	3972 Feb 20 13:48	0° ℋ		To de the	3973 Jan 24 14:40	0°≈	1 44456 411
	2072 F 1 21 22 20	201/17/42	2007/20	max. Earth dist.	3973 Jan 27 17:19	4° ≈ 54'37	1.44456 AU
superior conj	3972 Feb 21 22:28	2°\(\frac{1}{16}\)'43			2072 F. L. 01, 00, 46	110 47100	1055150
minimum elong	3972 Feb 21 21:47	2° ∺ 13'49 23° ∺ 06'34	2°07'29	superior conj	3973 Feb 01 00:46	11°≈47'23	
evening rise	3972 Mar 04 22:54	23°π06'34 0°Υ		minimum elong	3973 Jan 31 18:05	11°≈20'30	1°55′33
1	3972 Mar 08 20:22	11° Y 39'01			3973 Feb 12 03:09	0°) €	
asc. node	3972 Mar 15 18:35		10007153	evening rise	3973 Feb 14 20:10	4°) (33'03	
evening max el	3972 Mar 21 23:43	19° Y 45'59	18°06'53	asc. node	3973 Mar 02 15:37	29° ¥ 46'19 0° Ƴ	
retrograde	3972 Mar 28 12:41	23°Y08'45			3973 Mar 02 19:53	3° Υ 05'29	10017142
evening set	3972 Mar 31 06:10	22° Y 33'03	2022/20	evening max el	3973 Mar 05 12:29		18°17'43
inferior conj	3972 Apr 06 16:36	17° Y 29'31	3°22'29	retrograde	3973 Mar 11 22:59	6° Y 32'47	
minimum elong	3972 Apr 06 18:40	17° Y 24'19	3°22'14	evening set	3973 Mar 14 22:22	5° Υ 45'24	2026121
min. Earth dist.	3972 Apr 09 17:45	14° Y 27'08	0.61687 AU	inferior conj	3973 Mar 20 21:55	0° Υ 22'47	
morning rise	3972 Apr 13 05:27	11° Y 31'02		minimum elong	3973 Mar 20 22:13	0° Υ 21'55	3°36'21
direct	3972 Apr 20 01:00	9° ℃ 06'59			3973 Mar 21 05:59	30° ₹	
desc. node	3972 Apr 21 19:42	9° Y 16′10		min. Earth dist.	3973 Mar 23 08:56	27° ₩ 37'25	0.63700 AU
morning max el	3972 May 04 05:12	17° ℃ 05'15	27°51'10	morning rise	3973 Mar 26 21:09	24°) 15′05	
	3972 May 14 22:01	0° 8		direct	3973 Apr 02 18:10	21°) € 30′28	
	3972 Jun 02 00:28	0°II		desc. node	3973 Apr 08 16:44	23°) 13'41	
morning set	3972 Jun 06 11:01	8° Ⅱ 48'16		morning max el	3973 Apr 16 13:17	29°) €28'12	27°39'39
asc. node	3972 Jun 11 17:52	19° Ⅱ 56'42	1 22205 1 11		3973 Apr 17 01:49	0° Υ	
max. Earth dist.	3972 Jun 12 06:18	21° Ⅱ 03'55	1.32295 AU	. ,	3973 May 08 20:13	0° 8	
	2072 1 12 20 52	240T22150	0022100	morning set	3973 May 21 07:28	22° 8 47'34	
superior conj	3972 Jun 13 20:53	24° II 33'58	0°22'09	T 41 11 4	3973 May 24 20:37	0°II	1 22006 ATT
minimum elong	3972 Jun 13 19:53	24°∏28′28 0° ©	0°21'56	max. Earth dist.	3973 May 26 09:30	3°Щ12′32	1.32996 AU
	3972 Jun 16 08:26 3972 Jun 20 17:48	9° 5 30'44			2072 M 20, 02-40	9° Ⅱ 04'55	0004151
evening rise	3972 Jul 20 17.48 3972 Jul 01 06:28	9 \$3 0 44		superior conj minimum elong	3973 May 29 03:49 3973 May 29 04:03	9° I 104′33	
evening max el	3972 Jul 16 05:09	20° Ω 15'34	24°36'03	behind sun begin	3973 May 28 22:56	8° Ⅱ 38'46	0 0449
desc. node	3972 Jul 18 18:56	20° € 13'34'	24 30 03	behind sun end	3973 May 29 09:10	9° ∏ 33'39	
retrograde	3972 Jul 30 02:46	27°Ω17'01		asc. node	3973 May 29 05:10 3973 May 29 14:54	10° Ⅱ 04'25	
evening set	3972 Aug 04 04:37	26° Ω 19'03		evening rise	3973 Jun 05 05:31	24° I 17'03	
min. Earth dist.	3972 Aug 04 04:37		0.56898 AU	evening rise	3973 Jun 07 23:25	0°95	
inferior conj	3972 Aug 12 10:50	21° Ω 41'36			3973 Jun 27 02:00	$0^{\circ}\Omega$	
minimum elong	3972 Aug 12 09:16	21° Ω 44'10		evening max el	3973 Jun 27 18:22	0° Ω 40'37	22°59'31
morning rise	3972 Aug 20 16:28	17° Ω 36'56		desc. node	3973 Jul 05 15:57	6°Ω12'21	
direct	3972 Aug 23 07:42	17° Ω 17'48		retrograde	3973 Jul 11 03:26	7° Ω 20'49	
morning max el	3972 Sep 01 16:39	21°Ω40'43	19°25'43	evening set	3973 Jul 14 16:43	6° £ 53′13	
asc. node	3972 Sep 07 17:07	29° Ω 00'15		min. Earth dist.	3973 Jul 22 03:19	3° £ 33'38	0.55472 AU
	3972 Sep 08 09:00	0° m)		inferior conj	3973 Jul 23 17:46	2°Ω37'59	
morning set	3972 Sep 18 22:52	19° m) 18'03		minimum elong	3973 Jul 23 10:32	2° Ω 48'29	
8	3972 Sep 24 06:47	$0 \circ \overline{\mathbf{v}}$			3973 Jul 28 16:32	30° ℝ ூ	
	1			morning rise	3973 Aug 01 06:37	28°946'12	
superior conj	3972 Sep 27 00:03	5° £ 22'42	1°40'24	direct	3973 Aug 04 05:03	28° © 25'50	
minimum elong	3972 Sep 27 01:44	5° £ 30'56	1°40'19		3973 Aug 10 07:18	$0^{\circ}\Omega$	
max. Earth dist.	3972 Oct 03 07:07	17° £ 20'33	1.37935 AU	morning max el	3973 Aug 15 03:31	3° Ω 30'42	20°39'58
evening rise	3972 Oct 07 01:21	24° ≏ 06'47		asc. node	3973 Aug 25 14:09	17° Ω 26′13	
-	3972 Oct 10 11:02	0° M .			3973 Sep 01 06:45	0° m/	
desc. node	3972 Oct 14 18:17	7° M .07'40		morning set	3973 Sep 03 05:30	3° m 57'47	
	3972 Oct 30 04:03	0° ∡ ¹			•		
evening max el	3972 Nov 11 17:30	14° ∡ 756'41	25°06'31	superior conj	3973 Sep 10 17:39	19° m 29'07	1°44'21
retrograde	3972 Nov 23 14:35	21° ∡ ¹49'23		minimum elong	3973 Sep 10 17:43	19° m 29'25	1°44'20
evening set	3972 Nov 29 08:08	19° ∡ ²25′51		max. Earth dist.	3973 Sep 15 14:38	29° m 13'23	1.36010 AU
min. Earth dist.	3972 Dec 03 20:04	14° ∡ °23′58	0.67390 AU		3973 Sep 16 00:13	0∘ ত	
inferior conj	3972 Dec 04 21:20	13° ∡ 01'19	0°04'16	evening rise	3973 Sep 19 14:53	6° £ 51′09	
minimum elong	3972 Dec 04 21:13	13° ∡ 01'41	0°04'14	desc. node	3973 Oct 01 15:16	27° ≏ 30'49	
transit middle	3972 Dec 04 21:13	13° ∡ 01'41	0°04'14		3973 Oct 03 05:14	0° M ₊	
transit begin	3972 Dec 04 18:33	13° ∡ 10′27		evening max el	3973 Oct 25 06:00	28°M38'49	26°13'07
transit end	3972 Dec 04 23:54	12° ∡ 52'55			3973 Oct 26 16:44	0° ∡ ¹	
asc. node	3972 Dec 04 16:20	13° х 17'41		retrograde	3973 Nov 06 22:19	5° ҂ ′48'32	
morning rise	3972 Dec 10 10:31	7° ∡ 03'02		evening set	3973 Nov 13 05:28	3° ≯ 13′23	

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	3973 Nov 16 09:48	30°RM		min. Earth dist.	3974 Oct 31 17:48	12°M58'52	0.65396 AU
min. Earth di		28°M46'54	0.66566 AU	inferior conj	3974 Nov 02 18:10	10°M41'20	
inferior conj	3973 Nov 18 22:46	26°M54'37	-0°53'33	minimum elong	3974 Nov 02 21:22	10°M32'12	
minimum el	ong 3973 Nov 19 00:12	26°M50'11	0°52'55	asc. node	3974 Nov 08 10:24	5°M23'25	
asc. node	3973 Nov 21 13:22	23°M51'02		morning rise	3974 Nov 09 00:06	5°M05'01	
morning rise	3973 Nov 24 19:27	21°ML05'46		direct	3974 Nov 11 17:50	4°M24'22	
direct	3973 Nov 27 21:26	20°ML11'38		morning max el	3974 Nov 18 05:49	7°M53'58	18°10'11
morning max	el 3973 Dec 04 15:28	23°M54'45	18°45'10		3974 Dec 03 10:00	0° ∡ ¹	
	3973 Dec 09 16:48	0°⊀		morning set	3974 Dec 06 18:02	5° ₹ 28'05	
morning set	3973 Dec 25 22:52	24° ≯ ⁴48'03		desc. node	3974 Dec 15 11:35	19° ∡ ³38'42	
desc. node	3973 Dec 28 14:34	28° ₰ 58'56					
	3973 Dec 29 06:06	0°ರ		superior conj	3974 Dec 21 10:57	29° ₹ 09'25	-0°40'08
max. Earth di	st. 3974 Jan 10 10:42	19° る 08'24	1.45183 AU	minimum elong	3974 Dec 21 05:54	28° х 49′25	0°39'28
					3974 Dec 21 23:46	0°ප	
superior conj	3974 Jan 11 07:03	20° る 28'18		max. Earth dist.	3974 Dec 24 06:18	3° る 34'49	1.45166 AU
minimum el	-	19° る 52'16	1°24'00	evening rise	3975 Jan 06 18:41	24° る 40'15	
	3974 Jan 17 08:11	0° ≈			3975 Jan 10 05:04	0° ≈	
evening rise	3974 Jan 26 18:25	15° ≈ 01'59		greatest brilliancy	3975 Jan 19 05:15	13° ≈ 50′22	-0.7m
greatest brilli		26°≈18'37	-0.9m		3975 Jan 31 05:34	0° ∀	
_	3974 Feb 05 02:20	0° ∀		evening max el	3975 Jan 31 07:00	0°) €03'40	19°32'29
evening max		16°) 32′54	18°46'41	asc. node	3975 Feb 04 09:40	3° ¥ 21'47	
asc. node	3974 Feb 17 12:39	17° ∺ 05'05		retrograde	3975 Feb 07 13:16	4°) 14'46	
retrograde	3974 Feb 23 16:14	20°) 16′49		evening set	3975 Feb 11 02:14	3° ₩ 01'18	
evening set	3974 Feb 26 21:56	19° ★ 16'50			3975 Feb 14 06:17	30°R≈	
inferior conj	3974 Mar 04 13:59	13°) (36′40		inferior conj	3975 Feb 16 13:34	27°≈05'39	
minimum el	C	13°) (40′10		minimum elong	3975 Feb 16 11:30	27°≈12'25	
min. Earth di		11°) (23'39	0.65371 AU	min. Earth dist.	3975 Feb 17 17:55	25°≈32'38	0.66630 AU
morning rise	3974 Mar 10 03:19	7°) €24'34		morning rise	3975 Feb 21 20:32	20°≈51'51	
direct	3974 Mar 16 18:16	4°) 33′45		direct	3975 Feb 28 00:21	18°≈07'27	25046100
desc. node	3974 Mar 26 13:46	9° 米 11'14 12° 米 19'45	26855121	morning max el	3975 Mar 12 08:35	25°≈28'28	25°46'09
morning max		12° π 1945 0° Υ	20-33-21	desc. node	3975 Mar 13 10:48 3975 Mar 16 11:51	26°≈36'17 0°) €	
	3974 Apr 13 02:53 3974 May 01 10:17	0°8			3975 Apr 06 15:12	0 X 0°Υ	
morning set	3974 May 01 10:17 3974 May 04 17:49	6° 8 13'34		morning set	3975 Apr 17 13:53	18°Υ53'48	
max. Earth di	•	. •	1.34154 AU	max. Earth dist.	3975 Apr 21 09:16	26° Υ 01'36	1.35770 AU
max. Larui ui	st. 3974 May 09 03.02	14 03034	1.54154 AO	max. Earth dist.	3975 Apr 23 10:38	0° 8	1.55770 AO
superior conj	3974 May 13 05:20	23° 8 15'27	-0°33'33		3773 Apr 23 10.30	٥ ن	
minimum el	•	23° 8 24'40		superior conj	3975 Apr 26 22:50	6° 8 57'26	-1°02'36
asc. node	3974 May 16 11:56	0° Ⅱ 08'46		minimum elong	3975 Apr 27 02:11	7° 8 14'17	
ase. node	3974 May 16 10:16	0°II		asc. node	3975 May 03 08:57	20° 8 05'02	1 02 01
evening rise	3974 May 20 15:41	8° Ⅱ 54'26		evening rise	3975 May 04 22:11	23° 8 15'40	
<i>8</i>	3974 May 31 20:26	0°ಅ		<i>5</i>	3975 May 08 06:43	0°II	
evening max	•	11°©15'25	21°26'25	evening max el	3975 May 22 19:46	22° I I23'20	20°07'34
retrograde	3974 Jun 21 17:43	17°©15'00		retrograde	3975 Jun 02 08:01	27° Ⅱ 30′52	
desc. node	3974 Jun 22 12:58	17°513'31		evening set	3975 Jun 04 07:04	27° Ⅲ 20'55	
evening set	3974 Jun 24 03:17	17° © 01'51		desc. node	3975 Jun 09 10:00	25° Ⅱ 33'57	
inferior conj	3974 Jul 03 12:26	13° © 02'09	-3°06'43	inferior conj	3975 Jun 13 08:19	23° Ⅲ 21'40	-1°09'53
minimum el	ong 3974 Jul 03 04:25	13° © 13'21	3°04'12	minimum elong	3975 Jun 13 05:03	23° Ⅱ 26′33	1°08'40
min. Earth di	st. 3974 Jul 03 14:09	12° © 59'45	0.54845 AU	min. Earth dist.	3975 Jun 15 02:33	22° Ⅱ 18'49	0.55172 AU
morning rise	3974 Jul 12 06:22	9° © 07'12		morning rise	3975 Jun 22 01:28	19° Ⅱ 03′22	
direct	3974 Jul 15 15:19	8°542'32		direct	3975 Jun 26 03:02	18° ∏ 27′28	
morning max	el 3974 Jul 28 02:58	14° 5 36'29	22°12'39	morning max el	3975 Jul 09 18:46	25° ∏ 09′05	23°55'31
	3974 Aug 08 19:59	$0 {\circ} \Omega$			3975 Jul 14 07:13	0	
asc. node	3974 Aug 12 11:11	6° Ω 27'30		asc. node	3975 Jul 30 08:13	25° © 54'20	
morning set	3974 Aug 18 15:33	18° Ω 47'57			3975 Aug 01 08:39	0 $^{\circ}\Omega$	
	3974 Aug 23 22:14	0° т р		morning set	3975 Aug 03 03:10	3° Ω 42′06	
superior conj	3974 Aug 25 19:34	4° Mp 00′20	1°41'06	superior conj	3975 Aug 10 02:55	18° Ω 46'46	1°31'53
minimum el	ong 3974 Aug 25 18:21	3° m 53'55	1°41'03	minimum elong	3975 Aug 10 00:54	18° Ω 35′50	1°31'41
max. Earth di	st. 3974 Aug 29 06:12	11° m 10'51	1.34414 AU	max. Earth dist.	3975 Aug 12 06:33	23° Q 24'20	1.33213 AU
evening rise	3974 Sep 02 20:17	20° m 20'51			3975 Aug 15 09:46	0° m	
	3974 Sep 07 23:52	0∘ ⊽		evening rise	3975 Aug 17 13:24	4° Mp 23′42	
desc. node	3974 Sep 18 12:17	17° ≏ 35'22			3975 Aug 31 16:46	0∘ ⊽	
	3974 Sep 27 04:10	0° M		desc. node	3975 Sep 05 09:18	7° £ 12'35	
evening max		12°M13'55	27°01'40	evening max el	3975 Sep 20 06:09	25° ≏ 29'54	27°25'19
retrograde	3974 Oct 21 00:23	19° M 30'42			3975 Sep 25 20:03	0° M	
evening set	3974 Oct 27 19:31	16°M49'28		retrograde	3975 Oct 03 20:29	2°M47'22	

evening set	3975 Oct 10 23:35	0°M08'46			3976 Aug 25 04:06	0∘ ত	
e venning see	3975 Oct 11 04:16	30°R ≏		evening max el	3976 Sep 01 14:19	° — 8° Ω 14'15	27°18'24
min. Earth dist.	3975 Oct 14 16:21	26° £ 52'01	0.63874 AU	retrograde	3976 Sep 15 10:02	15° £ 28'56	_,
inferior conj	3975 Oct 17 05:01	24° £ 15'43		evening set	3976 Sep 22 14:04	13° ♀ 04'52	
minimum elong	3975 Oct 17 09:55	24° £ 03'05	2°53'52	min. Earth dist.	3976 Sep 26 04:40	10° £ 14'57	0.62041 AU
morning rise	3975 Oct 23 21:35	18° £ 55'17		inferior conj	3976 Sep 29 04:23	7° £ 30'38	
direct	3975 Oct 26 09:28	18° ≏ 24'27		minimum elong	3976 Sep 29 10:17	7° £ 17'03	3°52'00
asc. node	3975 Oct 26 07:27	18° ≏ 24'29		morning rise	3976 Oct 06 08:15	2° ≏ 29'13	
morning max el	3975 Nov 01 22:26	21° ≏ 49'35	17°52'26	direct	3976 Oct 08 17:02	2° ഫ 04'53	
S	3975 Nov 08 05:27	0°M		asc. node	3976 Oct 12 04:31	2° £ 59'18	
morning set	3975 Nov 18 16:26	17° M 27'23		morning max el	3976 Oct 15 14:11	5° ഫ 33'59	17°52'41
S	3975 Nov 26 01:22	0° ∡ 7		morning set	3976 Oct 31 11:43	0°M26'19	
				Č	3976 Oct 31 05:53	0° M	
superior conj	3975 Dec 01 08:27	8° ∡ ¹45'38	0°06'59				
minimum elong	3975 Dec 01 09:13	8° ∡ ¹48'48	0°06'52	superior conj	3976 Nov 11 08:20	19°M39'27	0°46'57
behind sun begin	3975 Dec 01 00:12	8° ≯ 11'58		minimum elong	3976 Nov 11 12:10	19° M 55'49	0°46'26
behind sun end	3975 Dec 01 18:14	9° ₹ 25'34			3976 Nov 17 12:13	0° ∡ ¹	
desc. node	3975 Dec 02 08:37	10° ₹ 24'05		desc. node	3976 Nov 18 05:38	1° ∡ 11′24	
max. Earth dist.	3975 Dec 07 00:39	17° ∡ 754'30	1.44416 AU	max. Earth dist.	3976 Nov 18 14:53	1° ∡ °49'13	1.43040 AU
	3975 Dec 14 17:34	0°ರ		evening rise	3976 Nov 25 17:59	13° ∡ 12'12	
evening rise	3975 Dec 17 05:25	3° る 50'58			3976 Dec 06 19:09	0°ප	
	3976 Jan 03 17:21	0°≈		evening max el	3976 Dec 27 05:55	27° る 09'03	21°44'57
evening max el	3976 Jan 14 09:13	13° ≈ 35'57	20°32'58		3976 Dec 30 09:18	0° ≈	
retrograde	3976 Jan 22 11:29	18° ≈ 22'10		retrograde	3977 Jan 05 08:49	2° ≈ 34'32	
asc. node	3976 Jan 22 06:43	18° ≈ 21'57		asc. node	3977 Jan 08 03:46	1° ≈ 52′28	
evening set	3976 Jan 26 09:11	16° ≈ 54'18		evening set	3977 Jan 09 16:55	0° ≈ 51'17	
inferior conj	3976 Jan 31 18:03	10° ≈ 45'55	2°46'44		3977 Jan 10 16:00	30°R₹	
minimum elong	3976 Jan 31 15:35	10° ≈ 54'21	2°46'06	inferior conj	3977 Jan 15 01:10	24° る 33'26	2°09'56
min. Earth dist.	3976 Feb 01 08:58	9° ≈ 54'58	0.67468 AU	minimum elong	3977 Jan 14 22:48	24° පි 41'40	2°09'09
morning rise	3976 Feb 05 21:48	4° ≈ 32'14		min. Earth dist.	3977 Jan 15 04:03	24° る 23'26	0.67914 AU
direct	3976 Feb 11 11:47	2° ≈ 03'24		morning rise	3977 Jan 20 04:30	18° る 21'36	
morning max el	3976 Feb 22 17:16	8° ≈ 45'51	24°21'55	direct	3977 Jan 25 03:46	16° る 13'37	
desc. node	3976 Feb 28 07:51	15° ≈ 04'00		morning max el	3977 Feb 04 02:52	22° る 07'54	22°52'45
	3976 Mar 10 10:05	0° ∀			3977 Feb 10 22:32	0° ≈	
	3976 Mar 29 06:30	0° Y		desc. node	3977 Feb 14 04:53	4° ≈ 15'49	
morning set	3976 Mar 29 14:19	0° Ƴ 34'01			3977 Mar 03 17:57	0° ∀	
max. Earth dist.	3976 Apr 02 06:35	7° Ƴ 05'45	1.37763 AU	morning set	3977 Mar 10 12:51	10° ¥ 57'11	
				max. Earth dist.	3977 Mar 15 01:37	18°) 35'35	1.39939 AU
superior conj	3976 Apr 09 05:04	20° Y 02'48	-1°29'56		3977 Mar 21 12:54	0 ° Υ	
minimum elong	3976 Apr 09 09:37	20° Y 24'38	1°29'19				
	3976 Apr 14 07:08	0°8		superior conj	3977 Mar 22 19:44	2° Y 20'14	-1°52'29
evening rise	3976 Apr 17 22:36	7° 8 14'03		minimum elong	3977 Mar 23 00:15	2° Y 40'52	1°52'06
asc. node	3976 Apr 19 06:01	9° 8 49'01		evening rise	3977 Apr 01 13:48	20° Ƴ 40'48	
	3976 Apr 30 22:39	Π $^{\circ}0$		asc. node	3977 Apr 06 03:04	29° Ƴ 14'59	
evening max el	3976 May 04 14:06	4° Ⅱ 13′04	19°07'56		3977 Apr 06 12:53	0°8	
retrograde	3976 May 13 10:30	8° Ⅲ 31'48		evening max el	3977 Apr 17 17:56	16° 8 39'26	18°28'38
evening set	3976 May 15 11:37	8° Ⅱ 18'56		retrograde	3977 Apr 25 07:27	20° 8 23'21	
inferior conj	3976 May 23 18:57	4° Ⅱ 07'07	0°43'28	evening set	3977 Apr 27 15:05	20° 8 03'24	
minimum elong	3976 May 23 20:41	4° Ⅱ 04'10	0°42'50	inferior conj	3977 May 05 02:37	15° 8 32'23	2°09'50
desc. node	3976 May 26 07:02	2° ∏ 24'47		minimum elong	3977 May 05 06:17	15° 8 25'04	2°08'47
min. Earth dist.	3976 May 26 17:46	2° Ⅲ 07′01	0.56403 AU	min. Earth dist.	3977 May 08 12:57	12° 8 49'29	0.58277 AU
	3976 May 30 08:25	30° ₹ 8		morning rise	3977 May 12 18:22	10° 8 06'09	
morning rise	3976 Jun 01 02:35	29° 8 13'29		desc. node	3977 May 13 04:04	9° 8 54'16	
direct	3976 Jun 06 03:04	28° 8 14'38		direct	3977 May 18 17:34	8° 8 34'06	
	3976 Jun 12 21:29	Π °0		morning max el	3977 Jun 02 02:54	16° 8 15'38	26°53'42
morning max el	3976 Jun 20 09:02	5° Ⅱ 33'17	25°34'27		3977 Jun 13 08:19	Π $^{\circ}0$	
	3976 Jul 08 02:30	0 \circ \odot			3977 Jun 30 09:52	0 \circ \odot	
asc. node	3976 Jul 16 05:17	15° © 39'39		morning set	3977 Jul 02 00:37	3°521'28	
morning set	3976 Jul 17 14:44	18° © 35'03		asc. node	3977 Jul 03 02:21	5° © 37'35	
	3976 Jul 22 21:12	$0^{\circ}\Omega$					
				superior conj	3977 Jul 09 01:17	18° © 36'55	0°58'57
superior conj	3976 Jul 24 13:28	3° Ω 41′07	1°17'36	minimum elong	3977 Jul 08 23:07	18° 5 24'56	0°58'33
minimum elong	3976 Jul 24 11:08	3° Ω 28′18	1°17'16	max. Earth dist.	3977 Jul 09 01:00	18° 5 35'20	1.32054 AU
max. Earth dist.	3976 Jul 25 13:52	5° Ω 54'53	1.32428 AU		3977 Jul 14 06:10	$0^{\circ}\Omega$	
evening rise	3976 Jul 31 14:51	18° Ω 50′08		evening rise	3977 Jul 15 21:56	3° Ω 31'43	
	3976 Aug 06 05:41	0° m			3977 Jul 30 01:31	0°Щ	
desc. node	3976 Aug 22 06:19	26° Mp 11'07		desc. node	3977 Aug 09 03:20	14° m 15'07	

evening max el	3977 Aug 14 16:52	20° m 16'14	26°38'13	evening max el	3978 Jul 27 11:59	1° m 29'33	25°27'11
retrograde	3977 Aug 28 15:41	27° m) 26'46	20 30 13	retrograde	3978 Aug 10 11:14	8° mp 35'04	20 27 11
evening set	3977 Sep 04 10:26	25° m 30'17		evening set	3978 Aug 16 07:49	7° m) 15'22	
min. Earth dist.	3977 Sep 08 06:42	22° m 54'13	0.60005 AU	min. Earth dist.	3978 Aug 20 23:51		0.57968 AU
inferior conj	3977 Sep 11 12:49	20° m 17'36		inferior conj	3978 Aug 24 02:47	2° m) 25'26	
minimum elong	3977 Sep 11 18:04	20° m 07'02		minimum elong	3978 Aug 24 04:30	2° m) 22'25	
morning rise	3977 Sep 19 03:43	15° m/37'52		Č	3978 Aug 27 19:46	30°RΩ	
direct	3977 Sep 21 12:37	15° Mp 17'08		morning rise	3978 Sep 01 03:29	28° Ω 08'36	
morning max el	3977 Sep 29 01:48	18° m 58'50	18°12'14	direct	3978 Sep 03 15:49	27° Ω 49′12	
asc. node	3977 Sep 29 01:34	18° m 58'16			3978 Sep 09 22:47	0° m y	
	3977 Oct 07 03:19	0∘ ⊽		morning max el	3978 Sep 12 05:53	1° m 53'29	18°52'36
morning set	3977 Oct 14 22:01	14° ഫ 08'35		asc. node	3978 Sep 15 22:36	6° Mp 05′26	
	3977 Oct 23 09:49	0° M.		morning set	3978 Sep 28 18:43	28° m 20'13	
					3978 Sep 29 15:01	0∘ ত	
superior conj	3977 Oct 24 09:20	1°M46'45	1°16'04				
minimum elong	3977 Oct 24 13:18	2°M04'43	1°15'37	superior conj	3978 Oct 07 06:05	14° ≏ 51'53	1°34'19
max. Earth dist.	3977 Nov 01 00:12	15° ™ 07'42	1.41208 AU	minimum elong	3978 Oct 07 08:45	15° ≙ 04'33	1°34'06
desc. node	3977 Nov 05 02:39	21°M57'41		max. Earth dist.	3978 Oct 14 05:40	27° ≏ 44'32	1.39140 AU
evening rise	3977 Nov 05 23:12	23°M21'29			3978 Oct 15 12:18	0° M	
	3977 Nov 10 02:52	0° ∡ 7		evening rise	3978 Oct 18 03:22	4°M33'23	
	3977 Nov 30 19:05	0°ප		desc. node	3978 Oct 22 23:40	12°M38'38	
evening max el	3977 Dec 09 22:05	10° る 45'22	23°03'36		3978 Nov 03 05:56	0° ∡	
retrograde	3977 Dec 20 03:37	16° る 49'10		evening max el	3978 Nov 22 11:24	24° ₹ 25′18	24°23'03
evening set	3977 Dec 24 23:52	14° る 49'51			3978 Nov 29 17:44	0°る	
asc. node	3977 Dec 26 00:49	13° る 52'20		retrograde	3978 Dec 03 18:43	1° る 02'05	
inferior conj	3977 Dec 30 09:03	8° ප 26'14	1°25'52		3978 Dec 07 11:26	30°Ŗ ⋌ ¹	
minimum elong	3977 Dec 30 07:13	8° ප 32'32	1°25'10	evening set	3978 Dec 09 04:26	28° ∡ ¹46'49	
min. Earth dist.	3977 Dec 30 00:48	8° ろ 54'38	0.67995 AU	asc. node	3978 Dec 12 21:50	24° ∡ ¹40'57 _	
morning rise	3978 Jan 04 14:28	2°る18'05		min. Earth dist.	3978 Dec 13 20:48	23° ∡ 25′20	0.67718 AU
direct	3978 Jan 08 23:16	0° る 32'59		inferior conj	3978 Dec 14 15:50	22° ₹ 21'32	0°35'37
morning max el	3978 Jan 17 17:03	5° る 38'24	21°27'41	minimum elong	3978 Dec 14 14:59	22° ₹ 24'23	0°35'16
desc. node	3978 Feb 01 01:55	23° る 59'41		morning rise	3978 Dec 20 01:36	16° √ 19'09	
	3978 Feb 05 05:02	0°≈		direct	3978 Dec 23 21:03	14° ₹ 56'10	20012110
morning set	3978 Feb 18 06:29	19°≈58'27		morning max el	3978 Dec 31 14:45	19° ₹ 20'45	20°13'10
D d E c	3978 Feb 24 11:42	0° ∀	1 42025 444	1 1	3979 Jan 09 06:09	0°る	
max. Earth dist.	3978 Feb 25 02:00	0° ¥ 58'53	1.42025 AU	desc. node	3979 Jan 18 22:57	14°る06'41	
	2070 M 04 12 50	120 1/20127	2005157	morning set	3979 Jan 28 04:15	28° る 09'43	
superior conj	3978 Mar 04 13:50	13°) 38′27 13°) 47′32		Double diet	3979 Jan 29 08:44	0°≈ 14°≈ •18'05	1 42722 ATT
minimum elong	3978 Mar 04 15:56	13°π4/32 0°γ	2.03.33	max. Earth dist.	3979 Feb 07 10:35	14***18'03	1.43732 AU
evening rise	3978 Mar 13 18:30 3978 Mar 15 16:04	3° Υ 27'30		superior conj	3979 Feb 13 06:55	23° ≈ 47'52	2004/50
asc. node	3978 Mar 24 00:06	18° Y 16'52		minimum elong	3979 Feb 13 00:33 3979 Feb 13 03:40	23°≈34'31	
evening max el	3978 Apr 01 03:46	29° Y 33'20	18°09'16	minimum ciong	3979 Feb 17 00:32	25 ≈ 54 51	2 04 32
evening max er	3978 Apr 01 03:40	0° 8	18 09 10	evening rise	3979 Feb 17 00:32 3979 Feb 26 01:09	15° ¥ 25'38	
retrograde	3978 Apr 07 22:18	2° 8 59'10		evening rise	3979 Mar 06 13:05	0° Υ	
evening set	3978 Apr 10 12:30	2° 8 29'30		asc. node	3979 Mar 10 21:08	6° Y 46'54	
evening set	3978 Apr 14 14:13	2 0 2230		evening max el	3979 Mar 15 16:16	12° Υ 45'34	18°09'14
inferior conj	3978 Apr 17 06:56	27° Υ 37'33	3°04'06	retrograde	3979 Mar 22 02:57	16° Υ 08'40	10 07 14
minimum elong	3978 Apr 17 09:56	27° Υ 30'34	3°03'33	evening set	3979 Mar 24 23:02	15° Υ 27'57	
min. Earth dist.	3978 Apr 20 14:07	24° Υ 35'17	0.60442 AU	inferior conj	3979 Mar 31 04:19	10° Υ 15'51	3°30'53
morning rise	3978 Apr 24 05:09	21° Υ 48'17	0.001.12110	minimum elong	3979 Mar 31 05:38		3°30'48
desc. node	3978 Apr 30 01:07	19° Y 43'17		min. Earth dist.	3979 Apr 02 23:43	7° Υ 18'41	0.62572 AU
direct	3978 Apr 30 20:03	19° Ƴ 41'31		morning rise	3979 Apr 06 10:57	4° Υ 12'47	
morning max el	3978 May 15 02:59	27° Y 35'08	27°40'58	direct	3979 Apr 13 08:05	1° Y ′38'43	
	3978 May 17 10:34	0°8	_,	desc. node	3979 Apr 16 22:08	2° Y 16'13	
	3978 Jun 07 00:26	0°II		morning max el	3979 Apr 27 08:57	9° Υ 37'13	27°50'51
morning set	3978 Jun 16 06:59	17° Ⅲ 55′09			3979 May 13 04:58	0°8	
asc. node	3978 Jun 19 23:22	25° Ⅱ 42'47			3979 May 30 05:59	0°II	
	3978 Jun 21 22:43	0ಂತಾ		morning set	3979 May 31 07:47	2° П 09'36	
max. Earth dist.	3978 Jun 22 12:18	1°9514'21	1.32091 AU	max. Earth dist.	3979 Jun 05 19:49	13° Ⅱ 38′50	1.32541 AU
				asc. node	3979 Jun 06 20:23	15° ∏ 51'04	
superior conj	3978 Jun 23 12:35	3°527'41	0°36'33				
minimum elong	3978 Jun 23 11:02	3°519'08	0°36'12	superior conj	3979 Jun 07 21:38	18° Ⅱ 07'43	0°11'01
evening rise	3978 Jun 30 08:21	18° © 20'30		minimum elong	3979 Jun 07 21:07	18° Ⅱ 04'53	0°10'54
	3978 Jul 06 01:36	$0^{\circ}\Omega$		behind sun begin	3979 Jun 07 17:17	17° Ⅱ 44′09	
	3978 Jul 25 24:00	0° m y		behind sun end	3979 Jun 08 00:56	18° Ⅱ 25'38	
desc. node	3978 Jul 27 00:23	1°Mp01'29			3979 Jun 13 08:41	0	

evening rise	3979 Jun 14 20:09	3° © 09'53		evening rise	3980 May 29 07:24	17° Ⅱ 52'45	
Č	3979 Jun 29 08:20	$0^{\circ}\Omega$		Č	3980 Jun 04 07:33	0°©	
evening max el	3979 Jul 09 01:21	12° Ω 04'03	23°55'30	evening max el	3980 Jun 19 15:51	22° © 28'09	22°18'42
desc. node	3979 Jul 13 21:22	16° Ω 00'01		desc. node	3980 Jun 29 18:23	28° © 35'24	
retrograde	3979 Jul 22 18:57	18° Ω 58'31		retrograde	3980 Jul 02 14:52	28° © 54'13	
evening set	3979 Jul 27 05:37	18° Ω 14'53		evening set	3980 Jul 05 14:25	28° © 34'33	
min. Earth dist.	3979 Aug 02 11:40		0.56220 AU	min. Earth dist.	3980 Jul 13 22:15	24°958'37	0.55091 AU
inferior conj	3979 Aug 04 20:25	13° Ω 47'16		inferior conj	3980 Jul 14 20:44	24°\$26'52	
minimum elong	3979 Aug 04 16:11	13° £ 53'46		minimum elong	3980 Jul 14 12:20	24°538'44	
morning rise	3979 Aug 13 05:20	9° Ω 49'51	. 5,50	morning rise	3980 Jul 23 12:11	20°536'22	3 0,00
direct	3979 Aug 15 23:32	9° Ω 30'21		direct	3980 Jul 26 14:16	20°50'22	
morning max el	3979 Aug 25 23:33	14° Ω 09'04	19°54'42	morning max el	3980 Aug 07 05:27	25°5540'07	21°17'32
asc. node	3979 Sep 02 19:37	24° Ω 06'18	17 54 42	morning max er	3980 Aug 11 05:54	0°Ω	21 1/32
ase. Houe	3979 Sep 06 06:59	0° m		asc. node	3980 Aug 19 16:39	12° Ω 48'21	
morning set	3979 Sep 12 22:26	12° Mp 51'49		morning set	3980 Aug 27 06:45	27° Ω 36'42	
morning set	3777 Sep 12 22.20	12 IIV 31 47		morning set	3980 Aug 28 10:17	0° Mp	
superior conj	3979 Sep 20 17:22	28° m 39'54	1°43'02		3700 Aug 20 10.17	עויי ∨	
minimum elong	3979 Sep 20 18:20	28° m 44'43		superior conj	3980 Sep 03 14:56	12° m 58'26	1°43'46
minimum ciong	3979 Sep 21 09:29	20 ार्र नन नउ	1 43 00	minimum elong	3980 Sep 03 14:30	12° m 55'40	1°43'46
max. Earth dist.	3979 Sep 26 10:46	0 == 9° £ 47'01	1.37091 AU	max. Earth dist.	3980 Sep 03 14.23 3980 Sep 07 21:02	21°M) 38'08	1.35282 AU
evening rise	3979 Sep 20 10:40 3979 Sep 30 05:45	16° £ 46'26	1.37091 AU	evening rise	3980 Sep 07 21:02 3980 Sep 12 02:33	21° m 51'31	1.33262 AU
evening rise				evening rise	•	0° ⊡	
1 1	3979 Oct 07 22:00	0°M		1 1	3980 Sep 12 04:20		
desc. node	3979 Oct 09 20:41	3°M09'49		desc. node	3980 Sep 25 17:41	23° Ω 26'07	
	3979 Oct 28 16:17	0° ⊀ 7	25026125		3980 Sep 30 01:08	0°M	26026110
evening max el	3979 Nov 04 23:40	8° ₹ 07'18	25°36'25	evening max el	3980 Oct 17 12:06	21°M47'19	26°36'19
retrograde	3979 Nov 17 05:22	15° ₹ 08'22		retrograde	3980 Oct 30 10:59	29°M01'56	
evening set	3979 Nov 23 04:57	12° х 39′06		evening set	3980 Nov 05 23:33	26°M23'04	
min. Earth dist.	3979 Nov 27 13:44	7° ₹ 52'26		min. Earth dist.	3980 Nov 10 01:24	22°M12'01	0.66109 AU
inferior conj	3979 Nov 28 19:46	6° ≯ 16'31		inferior conj	3980 Nov 11 18:56	20°M08'01	
minimum elong	3979 Nov 28 20:17	6° ≯ 14'53	0°19'33	minimum elong	3980 Nov 11 21:07	20°M01'31	1°18'08
asc. node	3979 Nov 29 18:51	5° ≯ 03′25		asc. node	3980 Nov 15 15:53	15° ™ 56'57	
morning rise	3979 Dec 04 11:57	0° ≯ 22'11		morning rise	3980 Nov 17 19:23	14°M24'18	
	3979 Dec 05 03:21	30°RM₊		direct	3980 Nov 20 17:28	13°M36'33	
direct	3979 Dec 07 19:40	29°M18'42		morning max el	3980 Nov 27 08:14	17°M13'00	18°28'14
	3979 Dec 10 14:29	0°⊀			3980 Dec 06 21:53	0° ∡	
morning max el	3979 Dec 14 20:19			morning set	3980 Dec 17 07:46	16° ≯ 30'11	
greatest brilliancy	3979 Dec 28 17:11	22° ≯ 00′12	-0.7m	desc. node	3980 Dec 22 16:59	25° ₹ 05'31	
	3980 Jan 02 22:11	0°ප			3980 Dec 25 19:18	0°₹	
desc. node	3980 Jan 05 19:58	4° る 30'12					
morning set	3980 Jan 07 05:42	6° ප 41'08		superior conj	3981 Jan 02 01:55	11° る 27'12	
max. Earth dist.	3980 Jan 21 01:26	28° る 16'46	1.44852 AU	minimum elong	3981 Jan 01 17:51	10° る 55'32	
	3980 Jan 22 03:35	0° ≈		max. Earth dist.	3981 Jan 02 19:48	12° る 37'18	1.45264 AU
					3981 Jan 13 21:29	0° ≈	
superior conj	3980 Jan 23 23:09	2° ≈ 52′26	-1°45'04	evening rise	3981 Jan 18 01:22	6° ≈ 34'06	
minimum elong	3980 Jan 23 14:37	2° ≈ 18'33	1°44'21	greatest brilliancy	3981 Jan 27 17:55	21° ≈ 50′59	-0.8m
evening rise	3980 Feb 07 12:52	26° ≈ 27'51			3981 Feb 02 02:38	0° ∀	
	3980 Feb 09 16:15	0° ℋ		evening max el	3981 Feb 09 14:17	9°){ 37'47	19°04'11
asc. node	3980 Feb 25 18:09	24°) ₹34'53		asc. node	3981 Feb 11 15:11	11° ¥ 29'17	
evening max el	3980 Feb 27 04:31	26° ₩ 08'25	18°27'52	retrograde	3981 Feb 16 12:01	13°) € 32′26	
retrograde	3980 Mar 04 16:46	29°) 41′48		evening set	3981 Feb 19 20:34	12° ∺ 27′01	
evening set	3980 Mar 07 18:42	28°) 49′12		inferior conj	3981 Feb 25 10:18	6°) 40′04	3°26'24
inferior conj	3980 Mar 13 14:38	23° ∺ 18'40	3°36'35	minimum elong	3981 Feb 25 08:43	6° ¥ 45′08	3°26'11
minimum elong	3980 Mar 13 14:16	23° ∺ 19'44	3°36'34	min. Earth dist.	3981 Feb 26 23:11	4°) 43′11	0.65958 AU
min. Earth dist.	3980 Mar 15 18:55	20°) (45′42	0.64450 AU	morning rise	3981 Mar 02 20:30	0°) €26'43	
morning rise	3980 Mar 19 09:10	17°) €08'24			3981 Mar 03 09:00	30°R≈	
direct	3980 Mar 26 04:10	14°) (19′38		direct	3981 Mar 09 07:09	27° ≈ 37'00	
desc. node	3980 Apr 02 19:10	17°) €08'46			3981 Mar 15 23:37	0°) €	
morning max el	3980 Apr 08 18:18	22°) 14′23	27°24'33	desc. node	3981 Mar 20 16:13	3°){ 47′08	
-	3980 Apr 15 13:57	$0^{\circ}\mathbf{\Upsilon}$		morning max el	3981 Mar 22 04:15	5°) 15′01	26°28'18
	3980 May 05 10:06	9° 8		-	3981 Apr 10 03:30	0° Y	
morning set	3980 May 14 00:21	15° 8 55'51		morning set	3981 Apr 27 05:11	29° Y 03'52	
max. Earth dist.	3980 May 18 19:23	25° 8 35'29	1.33428 AU	-	3981 Apr 27 17:05	0° ႘	
	3980 May 20 22:04	0°Ⅲ		max. Earth dist.	3981 May 01 07:50		1.34784 AU
	•				-		
superior conj	3980 May 22 02:29	2° Ⅲ 30′14	-0°16'53	superior conj	3981 May 06 00:56	16° 8 29'10	-0°45'57
minimum elong	3980 May 22 03:21	2° Ⅲ 34'49	0°16'42	minimum elong	3981 May 06 03:23	16° 8 41'46	0°45'29
asc. node	3980 May 23 17:25	5° Ⅱ 57'40		asc. node	3981 May 10 14:28	25° 8 58'49	

	3981 May 12 12:38	Π°		asc. node	3982 Apr 27 11:32	15° 8 50'34	
evening rise	3981 May 13 16:15	2° I I23'23		evening rise	3982 Apr 27 20:29	16° 8 35'45	
* · · · · · · · · · · · · · · · · · · ·	3981 May 29 16:14	0ಂಣ 			3982 May 04 19:06	0°II	
evening max el	3981 Jun 01 15:21	3°514'43	20°50'45	evening max el	3982 May 15 03:05		19°39'47
retrograde	3981 Jun 13 03:39	8°952'39		retrograde	3982 May 24 21:25	19° Ⅱ 26′03	
evening set	3981 Jun 15 06:22	8°9542'01		evening set	3982 May 26 20:31	19° Ⅱ 15′24	
desc. node	3981 Jun 16 15:25	8° 9 24'13		desc. node	3982 Jun 03 12:28	15° Ⅱ 53'19	
inferior conj	3981 Jun 24 14:00	4°9544'45	-2°18'57	inferior conj	3982 Jun 04 14:51	15° Ⅱ 12'20	-0°19'30
minimum elong	3981 Jun 24 07:35	4°953'52	2°16'43	minimum elong	3982 Jun 04 13:58	15° Ⅲ 13'42	0°19'11
min. Earth dist.	3981 Jun 25 09:56	4°গু16'24	0.54859 AU	min. Earth dist.	3982 Jun 06 23:24	13° Ⅱ 44′02	0.55597 AU
morning rise	3981 Jul 03 08:29	0°9541'41		morning rise	3982 Jun 13 04:59	10° Ⅱ 39'48	
direct	3981 Jul 06 23:32	0°513'20		direct	3982 Jun 17 16:11	9° ∏ 55'22	
morning max el	3981 Jul 20 01:00	6°929'20	22°55'57	morning max el	3982 Jul 01 15:09	16° Ⅱ 54'19	24°39'05
	3981 Aug 05 12:15	$0^{\circ}\Omega$			3982 Jul 12 06:37	0 \circ \odot	
asc. node	3981 Aug 06 13:42	2° Ω 01′13		asc. node	3982 Jul 24 10:46	21° © 36'55	
morning set	3981 Aug 11 17:39	12° Ω 28'47		morning set	3982 Jul 27 05:28	27° © 23'13	
					3982 Jul 28 10:54	0 $^{\circ}$ Ω	
superior conj	3981 Aug 18 19:27	27° Ω 36′59	1°37'52				
minimum elong	3981 Aug 18 17:49	27° Ω 28'21	1°37'46	superior conj	3982 Aug 03 04:25	12° Ω 27'47	1°26'25
	3981 Aug 19 22:19	0° m ∕		minimum elong	3982 Aug 03 02:12	12° Ω 15'43	1°26'09
max. Earth dist.	3981 Aug 21 16:10	3° Mp 40'22	1.33846 AU	max. Earth dist.	3982 Aug 04 19:57	16° Ω 02′25	1.32827 AU
evening rise	3981 Aug 26 13:22	13° m 36'42		evening rise	3982 Aug 10 10:27	27° Ω 51'15	
	3981 Sep 04 09:33	0∘ ⊽			3982 Aug 11 11:52	0° m ∕	
desc. node	3981 Sep 12 14:43	13° ≏ 20'15			3982 Aug 28 15:07	0∘ ত	
	3981 Sep 25 00:46	0°M₊		desc. node	3982 Aug 30 11:45	2° £ 42'55	
evening max el	3981 Sep 30 00:30	5°M16'08	27°15'15	evening max el	3982 Sep 12 11:10	18° ഫ 21'31	27°26'29
retrograde	3981 Oct 13 10:48	12°M34'23		retrograde	3982 Sep 26 04:06	25° £ 37′20	
evening set	3981 Oct 20 09:46	9°M53'11		evening set	3982 Oct 03 08:33	23° ≏ 03'44	
min. Earth dist.	3981 Oct 24 05:30	6°M₁7′12	0.64784 AU	min. Earth dist.	3982 Oct 06 23:57	19° ≙ 59'19	0.63130 AU
inferior conj	3981 Oct 26 11:04	3°M50'38		inferior conj	3982 Oct 09 17:28	17° ≏ 18′20	
minimum elong	3981 Oct 26 15:01	3°M39'48	2°18'52	minimum elong	3982 Oct 09 22:55	17° ≏ 04'54	3°19'09
	3981 Oct 30 07:51	30° ₹		morning rise	3982 Oct 16 14:46	12° ≙ 05'14	
morning rise	3981 Nov 01 21:23	28° ≙ 20'30		direct	3982 Oct 19 01:02	11° ≏ 37'27	
asc. node	3981 Nov 02 12:57	28° ≙ 05'00		asc. node	3982 Oct 20 10:00	11° ≏ 46'33	
direct	3981 Nov 04 12:13	27° £ 44'33		morning max el	3982 Oct 25 16:29	15° Ω 03'17	17°50'12
	3981 Nov 09 16:41	0° M			3982 Nov 05 02:14	0°M	
morning max el	3981 Nov 10 23:55	1°M11'36	18°00'25	morning set	3982 Nov 10 23:21	10°M13'50	
morning set	3981 Nov 28 15:13	27°M46'17			3982 Nov 22 11:20	0°⊀	
	3981 Nov 29 23:15	0° ∡ 7			200237 22 10 11	00 30 450	000 5100
desc. node	3981 Dec 09 14:00	15° ≯ ′48′03		superior conj	3982 Nov 22 19:44	0° 🗷 34'58	0°25'08
	2001 D 12 11 22	200 726140	0010147	minimum elong	3982 Nov 22 22:13	0° ₹ 45'18	0°24'47
superior conj	3981 Dec 12 11:23	20° ₹26'48		desc. node	3982 Nov 26 11:02	6° ₹ 34'40	1 42011 411
minimum elong	3981 Dec 12 08:58	20° 🖈 17'07		max. Earth dist.	3982 Nov 29 08:04	11°× 14'02	1.43911 AU
max. Earth dist.	3981 Dec 16 14:51 3981 Dec 18 12:09	27° メ 01'45 0°る	1.44935 AU	evening rise	3982 Dec 08 03:48	25°♂07'03 0°る	
avanina riaa	3981 Dec 18 12.09 3981 Dec 28 18:17	0 3 15° る 56'27			3982 Dec 11 08:10	0°≈	
evening rise	3981 Dec 28 18.17 3982 Jan 06 22:40	13 3 3027		evening max el	3983 Jan 01 02:30 3983 Jan 06 19:37	0 ≈ 6°≈42'40	21°02'26
greatest brilliancy	3982 Jan 11 21:16	0 ≈ 7°≈24'37	-0.6m	retrograde	3983 Jan 15 07:42	0 ≈42 40 11°≈44'43	21 02 20
evening max el	3982 Jan 21 21:16 3982 Jan 23 19:39	7 ≈24 3 7 23°≈09'44	-0.6m 19°56'37	asc. node	3983 Jan 16 09:18	11 ≈44 43 11°≈38'30	
asc. node	3982 Jan 29 12:14	27°≈15'18	17 3037	evening set	3983 Jan 19 09:43	10°≈10'18	
retrograde	3982 Jan 31 09:45	27°≈34'45		inferior conj	3983 Jan 24 18:09	3°≈57'37	2°32'03
evening set	3982 Feb 04 02:14	26°≈15'25		minimum elong	3983 Jan 24 15:39	4°≈06'11	2°31'20
inferior conj	3982 Feb 09 12:17	20°≈14'15	3°04'03	min. Earth dist.	3983 Jan 25 03:46	3°≈24'26	0.67716 AU
minimum elong	3982 Feb 09 10:00	20°≈21'57	3°03'34	Time Darvir Gibt.	3983 Jan 27 18:08	30°R₹	0.07710110
min. Earth dist.	3982 Feb 10 10:50	18°≈58'52	0.67045 AU	morning rise	3983 Jan 29 21:25	27°₹44'46	
morning rise	3982 Feb 14 17:32	14°≈00'20		direct	3983 Feb 04 05:15	25° る 24'22	
direct	3982 Feb 20 15:49	11° ≈ 21'21			3983 Feb 13 01:25	0° ≈	
morning max el	3982 Mar 04 13:06	18° ≈ 27'23	25°11'23	morning max el	3983 Feb 14 21:41	1°≈46'08	23°43'54
desc. node	3982 Mar 07 13:15	21°≈41'13		desc. node	3983 Feb 22 10:17	10°≈29'14	
	3982 Mar 14 06:52	0° \			3983 Mar 08 07:32	0°) €	
	3982 Apr 03 04:50	0° Υ		morning set	3983 Mar 22 07:42	22° H 29'09	
morning set	3982 Apr 09 17:38	11° Υ 20'29		max. Earth dist.	3983 Mar 26 04:57	29°) 13'49	1.38688 AU
max. Earth dist.	3982 Apr 13 09:15	18° Υ 01'33	1.36581 AU		3983 Mar 26 15:23	0°Υ	
	-r5 07.15						
superior conj	3982 Apr 19 14:07	29° Ƴ 57'02	-1°14'35	superior conj	3983 Apr 02 14:18	12° Y 43'29	-1°40'18
minimum elong	=				-		
	3982 Apr 19 18:03	0° 8 16'30	1°13'56	minimum elong	3983 Apr 02 19:03	13° Y 05′50	1°39'46
-	3982 Apr 19 18:03 3982 Apr 19 14:43	0°81630	1°13'56	minimum elong evening rise	3983 Apr 02 19:03 3983 Apr 11 17:24	13°°γ′05'50 0° ႘ 21'46	1°39'46

	3983 Apr 11 12:56	0°8			3984 Mar 17 20:21	0° Υ	
asc. node	3983 Apr 14 08:35	5° 8 27'36		evening rise	3984 Mar 25 03:39	13° Y '33'14	
evening max el	3983 Apr 28 01:50	26° 8 47'08	18°48'41	asc. node	3984 Mar 31 05:38	24° Υ '44'28	
evening max er	3983 May 02 14:10	0°II	10 10 11	use. Hode	3984 Apr 03 07:33	0°8	
retrograde	3983 May 06 07:31	0° П 49'06		evening max el	3984 Apr 10 08:35	9° 8 26'09	18°17'53
evening set	3983 May 08 11:23	0° Д 33'30		retrograde	3984 Apr 17 12:45	13° 8 00'47	10 17 33
evening set	3983 May 10 05:01	30°R 8		evening set	3984 Apr 19 23:08	12° 8 37'02	
inferior conj	3983 May 16 03:01 3983 May 16 10:05	26° 8 13'36	1°24'06	inferior conj	3984 Apr 27 02:55	7° 8 56'54	2°36'35
minimum elong	3983 May 16 10:03	26° 8 08'12	1°23'06	minimum elong	3984 Apr 27 06:31	7° 8 49'13	2°35'43
min. Earth dist.	3983 May 10 15:03 3983 May 19 15:43	23° 8 53'10	0.57142 AU	min. Earth dist.	3984 Apr 30 13:12	5° 8 02'41	0.59182 AU
	•	23 8 33 10 22° 8 44'04	0.37142 AU		•	2° 8 19'16	0.39162 AU
desc. node	3983 May 21 09:30			morning rise	3984 May 04 11:06		
morning rise	3983 May 24 11:30	21° 8 05'27		desc. node	3984 May 07 06:31	1° 8 05'06 0° 8 32'18	
direct	3983 May 29 22:08	19° 8 53'36	26011125	direct	3984 May 10 17:50	_	27010115
morning max el	3983 Jun 13 06:22	_	26°11'35	morning max el	3984 May 25 03:03	8° 8 20'17	2/*18/15
	3983 Jun 15 19:25	0° I I			3984 Jun 10 13:29	0°П	
,	3983 Jul 05 14:55	0°95		morning set	3984 Jun 25 01:05	26° Ⅱ 55'24	
asc. node	3983 Jul 11 07:49	11° © 28'05			3984 Jun 26 12:05	0°€	
morning set	3983 Jul 11 16:30	12° © 13'50		asc. node	3984 Jun 27 04:52	1° © 29'36	
		_		max. Earth dist.	3984 Jul 01 17:10	11° © 20'09	1.32020 AU
superior conj	3983 Jul 18 15:41	27° © 22'56	1°10'12			_	
minimum elong	3983 Jul 18 13:22	27°©10'08	1°09'48	superior conj	3984 Jul 02 03:27	12° © 16'51	0°49'52
max. Earth dist.	3983 Jul 19 05:31	28° © 39'04	1.32220 AU	minimum elong	3984 Jul 02 01:29	12° © 06'01	0°49'28
	3983 Jul 19 20:14	$0^{\circ}\Omega$		evening rise	3984 Jul 08 23:18	27° © 09'30	
evening rise	3983 Jul 25 14:35	12° Ω 24'42			3984 Jul 10 07:46	$0 {\circ} \Omega$	
	3983 Aug 03 15:16	O° Mp			3984 Jul 27 06:54	0° m ∕	
desc. node	3983 Aug 17 08:48	21°M/20'14		desc. node	3984 Aug 03 05:49	8° m 53'52	
	3983 Aug 24 21:10	0∘ ⊽		evening max el	3984 Aug 06 16:21	12° m 28'03	26°11'12
evening max el	3983 Aug 25 17:16	0° ჲ 48'35	27°05'22	retrograde	3984 Aug 20 15:43	19° m 37'20	
retrograde	3983 Sep 08 14:04	8° ♀ 00'49		evening set	3984 Aug 27 02:51	17° m 55'25	
evening set	3983 Sep 15 15:51	5° ≏ 46'55		min. Earth dist.	3984 Aug 31 05:12	15° mp 20'16	0.59120 AU
min. Earth dist.	3983 Sep 19 07:33	3° ჲ 05'04	0.61194 AU	inferior conj	3984 Sep 03 11:41	12° m 52'19	-4°56'37
inferior conj	3983 Sep 22 10:51	0° ჲ 22'00	-4°15'46	minimum elong	3984 Sep 03 15:49	12° m) 44'27	4°56'07
minimum elong	3983 Sep 22 16:46	0° 亞 09'09	4°14'22	morning rise	3984 Sep 11 07:00	8° m) 22'48	
	3983 Sep 22 20:59	30°₽.₩		direct	3984 Sep 13 16:58	8° mp 02'55	
morning rise	3983 Sep 29 19:30	25° m 29'33		morning max el	3984 Sep 21 15:38	11° mp 52'38	18°26'56
direct	3983 Oct 02 04:05	25° m 06'55		asc. node	3984 Sep 23 04:03	13° m) 27'33	10 2000
asc. node	3983 Oct 07 07:01	26° m 58'19		use. Houe	3984 Oct 03 18:15	0° ⊡	
morning max el	3983 Oct 09 06:49	28° m 39'53	17°58'38	morning set	3984 Oct 07 16:46	ა — 7° ჲ 28'08	
morning max ci	3983 Oct 09 00:49	0° ∵	17 30 30	morning set	3704 Oct 07 10.40	7 —28 08	
morning set	3983 Oct 25 01:39	o — 23° Ω 32'57		superior conj	3984 Oct 16 16:52	24° Ω 35'06	1°25'05
morning set	3983 Oct 28 13:55	0°M		minimum elong	3984 Oct 16 10:32 3984 Oct 16 20:23	24° ⊆ 53'00 24° ⊆ 51'22	
	3983 OCt 28 13.33	O IIG		minimum ciong	3984 Oct 19 16:01	0°M	1 2443
	2002 No 04 06.50	120M 01126	1900141	Fauth diet	3984 Oct 19 16.01 3984 Oct 24 03:47	7°ML55'38	1 40221 ATT
superior conj	3983 Nov 04 06:50	12°M01'36	1°00'41	max. Earth dist.		15°M19'27	1.40331 AU
minimum elong	3983 Nov 04 10:59	12°M19'49	1°00'09	evening rise desc. node	3984 Oct 28 12:36		
max. Earth dist.	3983 Nov 11 20:46	24°M56'40	1.42307 AU	desc. node	3984 Oct 30 05:05	18°M06'11	
desc. node	3983 Nov 13 08:04	27°M21'58			3984 Nov 06 17:28	0° ∡ 7	
	3983 Nov 14 22:53	0° ∡ 7			3984 Nov 28 13:51	0°る	22025141
evening rise	3983 Nov 17 22:04	4° ₹ 45'16		evening max el	3984 Dec 02 04:39	3°る53'53	23°3/'41
	3983 Dec 04 16:22	0°る	22017110	retrograde	3984 Dec 12 21:38	10°る13'27	
evening max el	3983 Dec 20 14:10		22°17'49	evening set	3984 Dec 17 23:27	8° る 07'07	
retrograde	3983 Dec 30 04:09	25° る 59'03		asc. node	3984 Dec 20 03:19	5° ろ 55'55	
asc. node	3984 Jan 03 06:18	24° ろ 30'13		inferior conj	3984 Dec 23 09:24	1° ろ 41'59	
evening set	3984 Jan 03 17:20	24° る 08'45		minimum elong	3984 Dec 23 07:56	1° る 46'59	1°04'41
inferior conj	3984 Jan 09 01:48	17° る 47'51	1°52'03	min. Earth dist.	3984 Dec 22 20:30	2° る 26'04	0.67913 AU
minimum elong	3984 Jan 08 23:36	17° る 55'27	1°51'17		3984 Dec 24 15:35	30°Ŗ ⋌ ¹	
min. Earth dist.	3984 Jan 08 23:46	17° る 54'52	0.67996 AU	morning rise	3984 Dec 28 16:24	25° ∡ '35'58	
morning rise	3984 Jan 14 05:45	11° る 37'33		direct	3985 Jan 01 19:13	24° 尽 00'41	
direct	3984 Jan 18 22:43	9° る 39'29		morning max el	3985 Jan 10 02:14	28° ҂ 47'59	20°54'27
morning max el	3984 Jan 28 09:00	15° る 12'17	22°15'39		3985 Jan 11 05:54	ರ∘ರ	
desc. node	3984 Feb 09 07:18	29° る 56'03		desc. node	3985 Jan 26 04:18	19° る 50'30	
	3984 Feb 09 08:27	0° ≈			3985 Feb 01 23:50	0° ≈	
	3984 Feb 29 07:54	0° ∀		morning set	3985 Feb 09 01:03	10° ≈ 50'57	
morning set	3984 Mar 01 17:57	2° ₩ 17'19		max. Earth dist.	3985 Feb 17 05:35	23° ≈ 53'43	1.42810 AU
max. Earth dist.	3984 Mar 07 02:11	11°) €07'15	1.40858 AU		3985 Feb 20 22:45	0°) €	
superior conj	3984 Mar 14 20:52	24°) 37'20	-1°59'36	superior conj	3985 Feb 24 04:41	5°) €26'38	-2°07'38
minimum elong	3984 Mar 14 20:52 3984 Mar 15 00:43	24° 		superior conj minimum elong	3985 Feb 24 04:41 3985 Feb 24 04:49	5° ¥ 26'38 5° ¥ 27'12	

evening rise	3985 Mar 07 23:09	26° ∺ 00'12		superior conj	3986 Feb 04 10:44	15° ≈ 07'05	-1°58'59
-	3985 Mar 10 04:53	0° Y		minimum elong	3986 Feb 04 04:53	14° ≈ 43′28	1°58'40
asc. node	3985 Mar 18 02:39	13° Y 33'48			3986 Feb 13 11:45	0°) €	
evening max el	3985 Mar 24 19:53	22° Y 28'34	18°06'53	evening rise	3986 Feb 17 23:33	7°) 34′53	
retrograde	3985 Mar 31 09:59	25° Ƴ 51'38			3986 Mar 03 16:37	0° Y	
evening set	3985 Apr 03 02:37	25° Y 17'34		asc. node	3986 Mar 04 23:39	1° Y 47'18	
inferior conj	3985 Apr 09 15:00	20° Ƴ 17′07	3°18'24	evening max el	3986 Mar 08 08:41	5° Y 46'31	18°14'56
minimum elong	3985 Apr 09 17:20	20° Y 11′22	3°18'05	retrograde	3986 Mar 14 18:53	9° Y 12'09	
min. Earth dist.	3985 Apr 12 18:01	17° Ƴ 13'53	0.61370 AU	evening set	3986 Mar 17 17:27	8° Y 26'28	
morning rise	3985 Apr 16 06:12	14° Y 20'44		inferior conj	3986 Mar 23 18:22	3° Y 06'34	
direct	3985 Apr 23 00:53	12° Y ′00′42		minimum elong	3986 Mar 23 18:56	3° Y 05'00	3°35'28
desc. node	3985 Apr 24 03:32	12° Ƴ 04'16		min. Earth dist.	3986 Mar 26 07:39	0° Ƴ 17'37	0.63421 AU
morning max el	3985 May 07 05:54	19° Ƴ 58'13	27°49'42		3986 Mar 26 14:18	30° ₹ ₩	
	3985 May 15 19:45	0°8		morning rise	3986 Mar 29 19:26	26° ∺ 59'59	
	3985 Jun 03 11:00	Π °0		direct	3986 Apr 05 16:48	24° ¥ 17'39	
morning set	3985 Jun 09 05:22	11° Ⅱ 21'44		desc. node	3986 Apr 11 00:33	25°) 40′33	
asc. node	3985 Jun 14 01:55	21° Ⅱ 36'40			3986 Apr 17 04:04	0° Υ	
max. Earth dist.	3985 Jun 15 03:09	23° ∏ 53′27	1.32225 AU	morning max el	3986 Apr 19 13:26	2° Y 15'42	27°43'38
					3986 May 10 02:54	0°8	
superior conj	3985 Jun 16 14:01	27° Ⅱ 03'43	0°26'02	morning set	3986 May 24 03:01	25° 8 25'06	
minimum elong	3985 Jun 16 12:51	26° ∏ 57'21	0°25'47		3986 May 26 09:18	Π °0	
	3985 Jun 17 22:11	0°ಅ		max. Earth dist.	3986 May 29 07:34	6° Ⅱ 06′21	1.32862 AU
evening rise	3985 Jun 23 10:30	11° © 58'59				_	
	3985 Jul 02 13:21	0 $^{\circ}\Omega$		superior conj	3986 May 31 21:34	11° ∏ 37'14	
evening max el	3985 Jul 19 08:27	23° Ω 22′23	24°49'53	minimum elong	3986 May 31 21:35	11° ∏ 37′24	0°00'36
desc. node	3985 Jul 21 02:48	24° Ω 58'31		behind sun begin	3986 May 31 16:18	11° Ⅱ 08'57	
	3985 Jul 29 23:40	0° m		behind sun end	3986 Jun 01 02:53	12° ∏ 05'53	
retrograde	3985 Aug 02 06:55	0° TD 25'16		asc. node	3986 May 31 22:57	11° Ⅱ 44'43	
	3985 Aug 05 14:27	30°R Ω		evening rise	3986 Jun 07 22:19	26° ∏ 46′21	
evening set	3985 Aug 07 13:52	29° Ω 21'54			3986 Jun 09 11:10	0°©	
min. Earth dist.	3985 Aug 12 19:53	26° Ω 34'40	0.57160 AU		3986 Jun 27 08:42	0°Ω	
inferior conj	3985 Aug 15 17:04	24°Ω41'10		evening max el	3986 Jun 30 21:33	3° Ω 49'07	23°14'06
minimum elong	3985 Aug 15 16:24	24° Ω 42'15	5°10'29	desc. node	3986 Jul 07 23:49	9° Ω 00'31	
morning rise	3985 Aug 23 21:26	20° Ω 33'26		retrograde	3986 Jul 14 09:14	10° Ω 33'26	
direct	3985 Aug 26 11:47	20°Ω14'19	10016105	evening set	3986 Jul 18 03:59	10°Ω02'11	0.55642.444
morning max el	3985 Sep 04 15:40	24° Ω 32'12	19°16'25	min. Earth dist.	3986 Jul 25 06:59	6° Ω 47'54	0.55643 AU
,	3985 Sep 09 08:13	0° Mp		inferior conj	3986 Jul 27 02:38	5° Ω 44'01	
asc. node	3985 Sep 10 01:06	0° m 59'25		minimum elong	3986 Jul 26 20:04	5° Ω 53'41	4°40'36
morning set	3985 Sep 21 16:48	21° ™ 49'09 0° ⊆		morning rise	3986 Aug 04 14:29	1° Ω 51'13	
	3985 Sep 25 19:02	0,37		direct	3986 Aug 07 11:49	1° Ω 31'05	20027124
	2005 0 20 20 24	00 0 0011 4	1020105	morning max el	3986 Aug 18 04:18	6° Ω 28'49	20°27'34
superior conj	3985 Sep 29 20:24		1°39'05	asc. node	3986 Aug 27 22:09	19° Ω 19'14	
minimum elong max. Earth dist.	3985 Sep 29 22:21 3985 Oct 06 08:01	8° Ω 09'40	1°38'58	morning set	3986 Sep 02 17:49	0° Mp 6° Mp 27′05	
evening rise	3985 Oct 10 02:38	20° £ 13'59 26° £ 58'38	1.38243 AU	morning set	3986 Sep 05 22:46	0 IIJ2/03	
evening rise		20 = 38 38 0° M		superior conj	2006 Can 12 12:20	220 mm () 211 2	1944!12
desc. node	3985 Oct 11 20:30 3985 Oct 17 02:07	8°M43'43		minimum elong	3986 Sep 13 12:30 3986 Sep 13 12:48	22° my 02'12 22° my 03'39	
desc. Houe	3985 Oct 31 05:53	0° √		minimum ciong	3986 Sep 17 12:19	0° ʊ	1 77 17
evening max el	3985 Nov 14 17:21		24°55'32	max. Earth dist.	3986 Sep 18 14:53	ა _ 2° ჲ 09'08	1.36284 AU
retrograde	3985 Nov 26 11:04	24° × 24'06	2.0002	evening rise	3986 Sep 22 13:26	2 = 0908 9° £ 35'16	1.50207 AU
evening set	3985 Dec 02 02:31	22° × ² 102'45		desc. node	3986 Oct 03 23:08	29° ⊆ 09'11	
min. Earth dist.	3985 Dec 06 15:36	16° ₹ 55'40	0.67487 AU	dese. Hode	3986 Oct 04 11:56	0°M	
asc. node	3985 Dec 07 00:19	16° ≯ 27'03	0.07.107.110		3986 Oct 26 22:42	0° ⊼ 7	
inferior conj	3985 Dec 07 15:13	15° ✓ 37'52	0°12'43	evening max el	3986 Oct 28 05:51	1° √ 17'41	26°04'06
minimum elong	3985 Dec 07 14:54	15° ∡ 38'55	0°12'35	retrograde	3986 Nov 09 19:29	8° ₹ 25'11	20 0.00
transit middle	3985 Dec 07 14:54	15° ∡ ³38'55	0°12'35	evening set	3986 Nov 16 00:45	5° √ 51'27	
transit begin	3985 Dec 07 13:09	15° ✓ 44'40		min. Earth dist.	3986 Nov 20 06:39	1° √ 19'41	0.66715 AU
transit end	3985 Dec 07 16:38	15° ✓ 33'11			3986 Nov 21 08:17	30°RM.	
morning rise	3985 Dec 13 03:26	9° ∡ 38'21		inferior conj	3986 Nov 21 17:23	29°M31'38	-0°44'30
direct	3985 Dec 16 17:39	8° ₹ 24'00		minimum elong	3986 Nov 21 18:34	29°M27'56	
morning max el	3985 Dec 24 03:16	12° ∡ °34'58	19°45'34	asc. node	3986 Nov 23 21:21	26°M55'35	
<i>3</i>	3986 Jan 06 08:28	0°る		morning rise	3986 Nov 27 12:50	23°M41'15	
greatest brilliancy	3986 Jan 06 08:31	0° る 00'13	-0.7m	direct	3986 Nov 30 16:16	22°M44'45	
desc. node	3986 Jan 13 01:21	10° る 05'16		morning max el	3986 Dec 07 11:43	26°M30'28	18°51'49
morning set	3986 Jan 18 21:04	19° ප 01'04		Ç	3986 Dec 10 13:42	0° ∡ ¹	
Ç	3986 Jan 25 22:34	0° ≈		morning set	3986 Dec 29 07:23	28° ₹ 01'17	
max. Earth dist.	3986 Jan 30 16:40		1.44293 AU	desc. node	3986 Dec 30 22:24	0° る 34'14	

	2006 D 20 12.40	007			2007 D 24 22-02	20720100	0047122
E d E	3986 Dec 30 13:40	0°る	1 45101 477	superior conj	3987 Dec 24 22:02	2°る30'00	
max. Earth dist.	3987 Jan 13 09:41	21° る 41'20	1.45121 AU	minimum elong	3987 Dec 24 16:04	2° る 06'32	
	2007 1 14 10 00	220754	1020147	max. Earth dist.	3987 Dec 27 05:11	6° る 06'57	1.45211 AU
superior conj	3987 Jan 14 19:09	23° ⋜ 52'54		evening rise	3988 Jan 10 04:37	27° る 57'26	
minimum elong	3987 Jan 14 09:54	23° る 16'29	1°29'52		3988 Jan 11 12:03	0° ≈	
	3987 Jan 18 16:13	0° ≈		greatest brilliancy	3988 Jan 21 23:12	16°≈12'04	-0.7m
evening rise	3987 Jan 30 01:24	18° ≈ 12'46			3988 Jan 31 18:09	0° ∀	
	3987 Feb 06 08:14	0°) €		evening max el	3988 Feb 03 04:17	2°) 43′33	19°24'39
asc. node	3987 Feb 19 20:40	19° ∺ 14'23		asc. node	3988 Feb 06 17:43	5° ∺ 41′23	
evening max el	3987 Feb 19 20:14	19° ₩ 13'19	18°41'15	retrograde	3988 Feb 10 08:09	6°) 50′14	
retrograde	3987 Feb 26 11:26	22° 升 54′07		evening set	3988 Feb 13 19:56	5°) €38'53	
evening set	3987 Mar 01 16:09	21°) 56′00		inferior conj	3988 Feb 19 07:47	29° ≈ 45'19	3°18'14
inferior conj	3987 Mar 07 09:06	16° ₩ 18'11	3°33'56	minimum elong	3988 Feb 19 05:50	29° ≈ 51'42	3°17'55
minimum elong	3987 Mar 07 08:09	16°) €21'04	3°33'51		3988 Feb 19 03:17	30°R ≈	
min. Earth dist.	3987 Mar 09 06:41	13° ∺ 59'49	0.65145 AU	min. Earth dist.	3988 Feb 20 14:17	28° ≈ 06′03	0.66465 AU
morning rise	3987 Mar 12 23:41	10° ∺ 06'30		morning rise	3988 Feb 24 15:29	23° ≈ 31'29	
direct	3987 Mar 19 15:50	7° ₩ 15'55		direct	3988 Mar 01 21:07	20° ≈ 45′29	
desc. node	3987 Mar 28 21:36	11°) 22'33		morning max el	3988 Mar 14 09:01	28° ≈ 11'33	25°57'42
morning max el	3987 Apr 01 23:15	15°) 04'19	27°03'49	desc. node	3988 Mar 14 18:38	28° ≈ 36′05	
	3987 Apr 14 04:26	0 ° $\mathbf{\gamma}$			3988 Mar 16 02:26	0°) €	
	3987 May 02 20:26	$B_{\circ 0}$			3988 Apr 06 22:16	0 $^{\circ}$ $\mathbf{\Upsilon}$	
morning set	3987 May 07 15:08	8° 8 56'54		morning set	3988 Apr 19 13:41	21° Y 44'53	
max. Earth dist.	3987 May 12 02:54	17° 8 50'17	1.33955 AU	max. Earth dist.	3988 Apr 23 10:51	29° Ƴ 04'22	1.35503 AU
	Ž				3988 Apr 23 22:22	0°8	
superior conj	3987 May 16 00:04	25° 8 51'17	-0°29'08		•		
minimum elong	3987 May 16 01:35	25° 8 59'16	0°28'48	superior conj	3988 Apr 28 18:58	9° 8 37'50	-0°58'15
Č	3987 May 17 23:16	0° I I		minimum elong	3988 Apr 28 22:05	9° 8 53'37	0°57'41
asc. node	3987 May 18 20:00	1° Ⅱ 49'52		asc. node	3988 May 04 17:02	21° 8 47'26	
evening rise	3987 May 23 08:52	11° Ⅱ 25'39		evening rise	3988 May 06 16:04	25° 8 49'31	
8	3987 Jun 02 00:07	0°95		8	3988 May 08 17:25	0°П	
evening max el	3987 Jun 12 15:11		21°39'30	evening max el	3988 May 24 19:38	25° I I21'36	20°18'06
desc. node	3987 Jun 24 20:50	20°526'47	21 37 30	ovening man er	3988 May 31 20:44	0°9	20 10 00
retrograde	3987 Jun 25 00:39	20°526'51		retrograde	3988 Jun 04 14:17	0°937'10	
evening set	3987 Jun 27 13:22	20°512'22		evening set	3988 Jun 06 13:45	0°927'17	
inferior conj	3987 Jul 06 22:19	16°9510'58	-3°22'30	evening set	3988 Jun 08 11:47	30°RII	
minimum elong	3987 Jul 06 13:59	16°922'37		desc. node	3988 Jun 10 17:52	29° Ⅱ 08'48	
min. Earth dist.	3987 Jul 06 17:35	16°917'35	0.54882 AU	inferior conj	3988 Jun 15 17:03	26° II 28'55	-1°28'08
morning rise	3987 Jul 15 15:46	10 © 17 59	0.54002 110	minimum elong	3988 Jun 15 12:54	26° I I35'01	1°26'37
direct	3987 Jul 18 22:47	11°954'20		min. Earth dist.	3988 Jun 17 05:47	25° I 34'59	0.55063 AU
morning max el	3987 Jul 31 05:19	17°540'32	21°57'58	morning rise	3988 Jun 24 10:49	22° Ⅱ 14'59	0.55005710
morning max cr	3987 Aug 09 23:52	0°Ω	21 37 36	direct	3988 Jun 28 09:21	21° I I41'25	
asc. node	3987 Aug 14 19:14	8° Ω 15'39		morning max el	3988 Jul 11 21:59	28° I 16'49	23°40'07
morning set	3987 Aug 14 19:14 3987 Aug 21 08:26	21°Ω15'50		morning max ci	3988 Jul 13 15:36	0°9	23 40 07
morning set	3987 Aug 21 08:20 3987 Aug 25 11:39	0° m		asc. node	3988 Jul 31 16:18	27° 9 38'57	
	3967 Aug 23 11.39	עוו ט		asc. Houc	3988 Aug 01 20:31	0°Ω	
superior conj	3987 Aug 28 13:24	6° Mp 30'06	1°42'00	morning set	3988 Aug 04 19:57	6° Ω 09'33	
minimum elong	3987 Aug 28 13:24 3987 Aug 28 12:21	6° Mp 24'35	1°41'58	morning set	3900 Aug 04 19.37	0 860933	
max. Earth dist.	3987 Aug 28 12:21 3987 Sep 01 05:03	14° Mp 04'08	1.34627 AU	superior conj	3988 Aug 11 20:07	21° Ω 14'46	1°33'38
evening rise	3987 Sep 01 03:03 3987 Sep 05 16:44	22° Mp 58'28	1.54027 AU	minimum elong	3988 Aug 11 20:07	21° Ω 04'22	1°33'27
evening rise	3987 Sep 09 10:44	ე° ი		max. Earth dist.	3988 Aug 14 04:03		1.33360 AU
desc. node	3987 Sep 09 10:20 3987 Sep 20 20:09	0 = 19° £ 16'46		max. Earth dist.	3988 Aug 15 22:54	0° m)	1.33300 AC
desc. Hode	3987 Sep 28 04:17	0° M		evening rise	3988 Aug 19 08:20	6° Mp 56'58	
avaning may al	3987 Oct 10 18:27	14°M53'53	26055140	evening rise	3988 Aug 31 23:24	0∘ ⊽	
evening max el	3987 Oct 10 18.27 3987 Oct 23 22:28	22°M10'18	20 33 49	11-	•	0 == 8° £ 58'48	
retrograde				desc. node	3988 Sep 06 17:11		27922140
evening set min. Earth dist.	3987 Oct 30 16:04 3987 Nov 03 15:13	19°M29'21	0.65592 AU	evening max el	3988 Sep 22 06:10 3988 Sep 24 05:18	28° ≏ 13'29 0° ™	21 23 40
				ratra ara da	•		
inferior conj	3987 Nov 05 13:50 3987 Nov 05 16:46	13°M19'18 13°M10'50		retrograde	3988 Oct 05 19:40	5°M31'37 2°M51'52	
minimum elong asc. node		8°M16'06	1 43 40	evening set	3988 Oct 12 21:53	2°11651°52 30° ₽₽	
	3987 Nov 10 18:25			min Forth 3:-4	3988 Oct 16 03:32		0.64118 AU
morning rise	3987 Nov 11 18:19	7°M41'06		min. Earth dist.	3988 Oct 16 15:17	29° Ω 30'22	
direct	3987 Nov 14 13:07	6°M58'44	10014121	inferior conj	3988 Oct 19 02:11	26° £ 56'10	
morning max el	3987 Nov 21 01:34	10°M29'42	18°14'21	minimum elong	3988 Oct 19 06:51	26° £ 43'56	Z-44'44
	3987 Dec 04 17:18	0°×7 8°×72754		morning rise	3988 Oct 25 17:06	21° Ω 33'12	
morning set	3987 Dec 09 22:07	8° × ⁷ 27'54		asc. node	3988 Oct 27 15:30	21° Ω 02'59	
desc. node	3987 Dec 17 19:25	21° ⊀ 12'44		direct	3988 Oct 28 05:37	21° Ω 01'13	17052157
	3987 Dec 23 08:01	0°₹		morning max el	3988 Nov 03 18:06	24° Ω 26'39	17°53'56
					3988 Nov 08 06:45	0° M	

morning set	3988 Nov 20 16:51 3988 Nov 26 10:33	20°M.16'35 0°⊀		morning set	3989 Nov 03 09:26	3° M 07'52	
				superior conj	3989 Nov 14 11:55	22°M37'42	0°41'33
superior conj	3988 Dec 03 16:04	11° ₹ 55'55	0°00'07	minimum elong	3989 Nov 14 15:29	22°M52'53	0°41'03
minimum elong	3988 Dec 03 16:04	11° ₹ '55'56	0°00'08		3989 Nov 18 21:25	0° ∡ ″	
behind sun begin	3988 Dec 03 06:06	11° ∡ 15′27		desc. node	3989 Nov 20 13:28	2° ҂ ⁴44'37	
behind sun end	3988 Dec 04 02:02	12° ∡ ³36′22		max. Earth dist.	3989 Nov 21 14:34	4° ∡ ¹26'53	1.43283 AU
desc. node	3988 Dec 03 16:27	11° ₹ 57'31		evening rise	3989 Nov 29 03:44	16° ∡ ¹26'52	
max. Earth dist.	3988 Dec 08 23:41	20° ₹ 27'54	1.44570 AU		3989 Dec 08 01:04	0°ප	
	3988 Dec 15 01:20	0°ಕ		evening max el	3989 Dec 30 04:50	29° る 48'15	21°33'41
evening rise	3988 Dec 19 16:29	7° る 09'45			3989 Dec 30 09:28	0° ≈	
	3989 Jan 03 20:29	0° ≈		retrograde	3990 Jan 08 03:49	5°≈07'33	
evening max el	3989 Jan 16 07:19	16° ≈ 15′24	20°23'10	asc. node	3990 Jan 10 11:48	4° ≈ 38′03	
asc. node	3989 Jan 23 14:46	20° ≈ 53'49		evening set	3990 Jan 12 10:17	3° ≈ 26'41	
retrograde	3989 Jan 24 06:21	20°≈56'08			3990 Jan 15 16:12	30°Rる	2015150
evening set	3989 Jan 28 02:36	19° ≈ 30'34	2051124	inferior conj	3990 Jan 17 18:33	27°る10'08	2°15'59
inferior conj	3989 Feb 02 11:42	13°≈23'56	2°51'34	minimum elong	3990 Jan 17 16:08	27°る18'31	2°15'14
minimum elong	3989 Feb 02 09:16	13°≈32'14	2°50'58	min. Earth dist.	3990 Jan 17 23:11	26°る54'05 20°る57'57	0.67878 AU
min. Earth dist.	3989 Feb 03 04:34	12°≈26'35	0.67370 AU	morning rise	3990 Jan 22 21:46	20° る 3/3/ 18° る 46'34	
morning rise direct	3989 Feb 07 15:45 3989 Feb 13 07:55	7°≈10'02 4°≈38'17		direct	3990 Jan 27 23:17 3990 Feb 07 02:49	18 ⁻ 846 ⁻³⁴ 24° 3 48'00	22905152
	3989 Feb 24 17:42	4 ≈38 17 11°≈27'31	24°34'56	morning max el	3990 Feb	24 O4800 0°≈	23 03 33
morning max el desc. node	3989 Feb 24 17.42 3989 Mar 01 15:40	11 ≈2731 16°≈55'15	24 34 30	desc. node	3990 Feb 11 18.32 3990 Feb 16 12:41	0 ≈ 6°≈00'53	
desc. node	3989 Mar 11 13:34	0° \		desc. Hode	3990 Net 10 12.41 3990 Mar 05 01:12	0° X	
	3989 Mar 30 16:01	0° Υ		morning set	3990 Mar 13 20:06	14°) 09'48	
morning set	3989 Apr 01 17:24	3° Υ 34'45		max. Earth dist.	3990 Mar 18 03:36	21°) (29'14	1.39613 AU
max. Earth dist.	3989 Apr 05 08:48	10° Υ 05'44	1.37448 AU	max. Earth dist.	3990 Mar 22 23:22	0°Υ	1.57015710
man. Darm uist.	5,0,1.pr 00 00.10	10 1 00	1.57 1.0110		3,50 1,141 22 23.22	•	
superior conj	3989 Apr 12 03:05	22° Y 48'54	-1°26'01	superior conj	3990 Mar 25 20:22	5° Υ 14'12	-1°49'32
minimum elong	3989 Apr 12 07:30	23° Υ 10'17		minimum elong	3990 Mar 26 01:01	5° Y 35'36	
	3989 Apr 15 18:57	0°8		evening rise	3990 Apr 04 10:19	23° Y 23'09	
evening rise	3989 Apr 20 17:33	9° 8 51'19		Č	3990 Apr 07 21:48	0°8	
asc. node	3989 Apr 21 14:04	11° 8 33'12		asc. node	3990 Apr 08 11:07	1° 8 02'11	
	3989 May 01 20:04	$\Pi^{\circ}0$		evening max el	3990 Apr 20 15:01	19° 8 26'57	18°33'15
evening max el	3989 May 07 12:21	7° Ⅱ 05'14	19°15'32	retrograde	3990 Apr 28 08:16	23° 8 14'53	
retrograde	3989 May 16 14:12	11° Ⅱ 30′15		evening set	3990 Apr 30 14:57	22° 8 56'07	
evening set	3989 May 18 14:34	11° Ⅱ 18′08		inferior conj	3990 May 08 05:20	18° 8 28'06	1°58'48
inferior conj	3989 May 27 00:53	7° Ⅱ 08'57	0°27'42	minimum elong	3990 May 08 08:54	18° 8 21'08	1°57'44
minimum elong	3989 May 27 02:01	7° Ⅱ 07'02	0°27'17	min. Earth dist.	3990 May 11 14:58	15° 8 50'22	0.57969 AU
desc. node	3989 May 28 14:54	6° Ⅱ 05′21		desc. node	3990 May 15 11:54	13° 8 21'14	
min. Earth dist.	3989 May 29 20:36	5° Ⅱ 16'37	0.56172 AU	morning rise	3990 May 15 23:40	13° 8 06'24	
morning rise	3989 Jun 04 10:25	2° Ⅱ 20'41		direct	3990 May 21 19:53	11° 8 39'41	
direct	3989 Jun 09 07:27	1° Ⅱ 25'51		morning max el	3990 Jun 05 04:59	19° 8 18'09	26°43'43
morning max el	3989 Jun 23 11:59	8° ∏ 40'04	25°20'37		3990 Jun 14 06:29	0°II	
	3989 Jul 09 09:14	0°9			3990 Jul 01 21:53	0.22	
asc. node	3989 Jul 18 13:20	17°521'40		morning set	3990 Jul 04 17:49	5°950'35	
morning set	3989 Jul 20 07:36	21° © 02'45 0° Ω		asc. node	3990 Jul 05 10:22	7° © 18'04	
	3989 Jul 24 11:08	0 06		superior conj	3990 Jul 11 18:01	21° © 04'17	1°02'03
superior conj	3989 Jul 27 06:18	6° Ω 08'13	1°20'05	minimum elong	3990 Jul 11 15:48	21 \$0417 20°\$51'59	1°02'03
minimum elong	3989 Jul 27 00:18 3989 Jul 27 03:59	5°Ω55'31	1°19'45	max. Earth dist.	3990 Jul 11 13:48 3990 Jul 11 21:20		1.32087 AU
max. Earth dist.	3989 Jul 28 10:27	8° Ω 42'11	1.32516 AU	max. Larur dist.	3990 Jul 15 19:42	0°Ω	1.32007 AC
evening rise	3989 Aug 03 08:44	21° Ω 20'26	1.52510710	evening rise	3990 Jul 18 15:08	6° Ω 00'28	
evening rise	3989 Aug 07 16:38	0° m/y		evening rise	3990 Jul 31 06:55	0° m/y	
desc. node	3989 Aug 24 14:13	28° mp 04'00		desc. node	3990 Aug 11 11:14	16° Mp 17'22	
	3989 Aug 26 00:21	0∘ ⊽		evening max el	3990 Aug 17 18:41	23° m 12'33	26°46'15
evening max el	3989 Sep 04 15:04		27°21'37	8	3990 Aug 28 15:56	0∘ ⊽	
retrograde	3989 Sep 18 10:18	18° ≏ 18'45		retrograde	3990 Aug 31 17:00	0° £ 23′10	
evening set	3989 Sep 25 14:39	15° ≏ 51'53		J	3990 Sep 03 16:48	30°R Mp	
min. Earth dist.	3989 Sep 29 05:16	12° ≏ 58'30	0.62327 AU	evening set	3990 Sep 07 13:57	28° mp 21'55	
inferior conj	3989 Oct 02 03:27	10° ≏ 14'34		min. Earth dist.	3990 Sep 11 08:43	25° m 44'48	0.60319 AU
minimum elong	3989 Oct 02 09:18	10° ≏ 00'53	3°43'39	inferior conj	3990 Sep 14 14:18	23° Mp 06'04	-4°35'28
morning rise	3989 Oct 09 05:37	5° ჲ 09'59		minimum elong	3990 Sep 14 19:48	22° m 54'45	4°34'25
direct	3989 Oct 11 14:39	4° ≏ 44'54		morning rise	3990 Sep 22 03:36	18° ™ 22'49	
asc. node	3989 Oct 14 12:33	5° ≏ 23'47		direct	3990 Sep 24 12:20	18° m 01'38	
morning max el	3989 Oct 18 10:08	8° 亞 13'01	17°51'25	asc. node	3990 Oct 01 09:34	21° Mp 10'30	
	3989 Nov 01 15:28	0° M		morning max el	3990 Oct 01 22:30	21° Mp 40'48	18°08'02

	3990 Oct 08 07:58	0° ⊽			3991 Oct 01 02:31	0 ∘⊽	
morning set	3990 Oct 17 17:49 3990 Oct 24 20:49	16° ≏ 44'21 0° ™		morning set	3991 Oct 01 13:09	0° £ 51'50	
	3,5,0 000 2. 20.15	V 110		superior conj	3991 Oct 10 03:34	17° ≏ 31'46	1°32'11
superior conj	3990 Oct 27 09:25	4°M34'30	1°12'22	minimum elong	3991 Oct 10 06:28	17° ≏ 45'28	1°31'57
minimum elong	3990 Oct 27 13:30	4°M52'48	1°11'54	E d E c	3991 Oct 16 22:53	0°M	1 20 451 411
max. Earth dist. desc. node	3990 Nov 04 00:52 3990 Nov 07 10:31	17°M52'04 23°M31'04	1.41507 AU	max. Earth dist. evening rise	3991 Oct 17 06:44 3991 Oct 21 06:26	0°M34'44 7°M29'00	1.39451 AU
evening rise	3990 Nov 07 10:31 3990 Nov 09 05:50	26°M27'12		desc. node	3991 Oct 21 00:20 3991 Oct 25 07:33	14°M12'55	
2 / 2	3990 Nov 11 10:59	0° ∡ 7			3991 Nov 04 11:16	0° ∡ 7	
	3990 Dec 01 19:38	ರ°0		evening max el	3991 Nov 25 11:07	27° ∡ °02'51	24°11'25
evening max el	3990 Dec 12 21:35	13° පි 23'48	22°51'39		3991 Nov 28 17:22	0°ප	
retrograde	3990 Dec 22 23:00	19° る 21'50		retrograde	3991 Dec 06 14:45	3° る 35'28	
evening set asc. node	3990 Dec 27 17:25 3990 Dec 28 08:49	17°පි24'49 16°පි50'40		evening set	3991 Dec 11 22:26 3991 Dec 13 08:48	1°る22'22 30°Rメ	
inferior conj	3990 Dec 28 08.49 3991 Jan 02 02:22	10 83040 11° そ 01'52	1°32'58	asc. node	3991 Dec 15 05:49	27° √ 147'55	
minimum elong	3991 Jan 02 00:26	11° る 08'34	1°32'14	min. Earth dist.	3991 Dec 16 15:57	25° ₹ 55'53	0.67780 AU
min. Earth dist.	3991 Jan 01 19:43	11° る 24'50	0.68010 AU	inferior conj	3991 Dec 17 09:26	24° ₹ 56'58	0°43'37
morning rise	3991 Jan 07 07:20	4° る 53'11		minimum elong	3991 Dec 17 08:24	25° ₹ 00'26	0°43'11
direct	3991 Jan 11 18:16	3° る 04'41		morning rise	3991 Dec 22 18:25	18° ₹ 53'42	
morning max el	3991 Jan 20 16:06		21°39'47	direct	3991 Dec 26 15:43	17° 🗷 27'39	20022127
desc. node	3991 Feb 03 09:42 3991 Feb 06 09:58	25° る 40'15 0°≈		morning max el	3992 Jan 03 12:39 3992 Jan 10 06:33	21°矛57'41 0°舌	20°23'27
morning set	3991 Feb 00 09:58 3991 Feb 21 17:50	0 ∞ 23°≈22'05		desc. node	3992 Jan 21 06:45	0 8 15° 8 44'16	
	3991 Feb 25 20:31	0°) €			3992 Jan 30 16:12	0° ≈	
max. Earth dist.	3991 Feb 28 03:12	3°){ 44′57	1.41733 AU	morning set	3992 Jan 31 17:23	1° ≈ 37'19	
				max. Earth dist.	3992 Feb 10 10:37	16° ≈ 56'39	1.43512 AU
superior conj	3991 Mar 07 17:49	16°) √41'35			2002 5 1 16 14 40	270 01121	2006116
minimum elong	3991 Mar 07 20:29	16° ¥ 53'12 0° Υ	2°04'37	superior conj	3992 Feb 16 14:48	27°≈01'21	
evening rise	3991 Mar 15 04:35 3991 Mar 18 14:45	6°Υ16'08		minimum elong	3992 Feb 16 12:29 3992 Feb 18 09:42	26°≈51'47 0°¥	2-06-13
asc. node	3991 Mar 26 08:07	20° Υ 07'51		evening rise	3992 Feb 29 02:42	18° ¥ 22'07	
	3991 Apr 01 22:32	0°8		Ü	3992 Mar 06 19:27	0° Υ	
evening max el	3991 Apr 04 00:07	2° 8 16'46	18°10'54	asc. node	3992 Mar 12 05:09	8° Y 43'04	
retrograde	3991 Apr 10 20:45	5° 8 44'25		evening max el	3992 Mar 17 12:22	15° Y 26′19	18°08'00
evening set	3991 Apr 13 10:01	5° 8 16'18	2057140	retrograde	3992 Mar 23 23:41	18° ℃ 49'06	
inferior conj minimum elong	3991 Apr 20 06:43 3991 Apr 20 09:55	0° と 27'18 0° と 20'01	2°57'48 2°57'09	evening set inferior conj	3992 Mar 26 18:50 3992 Apr 02 01:50	18° Υ 10'11 13° Υ 00'58	3°28'19
minimum clong	3991 Apr 20 09:33 3991 Apr 20 18:40	30°RΥ	2 37 09	minimum elong	3992 Apr 02 01:30 3992 Apr 02 03:25	13° γ ′56'51	
min. Earth dist.	3991 Apr 23 14:58	27° Y 26'26	0.60111 AU	min. Earth dist.	3992 Apr 04 23:19	10° Y °01'33	0.62266 AU
morning rise	3991 Apr 27 07:29	24° Y 40'47		morning rise	3992 Apr 08 10:34	6° Y 59'18	
desc. node	3991 May 02 08:55	22° Y 45'18		direct	3992 Apr 15 07:17	4° Υ ′28'31	
direct	3991 May 03 20:31	22° Ƴ 39'07		desc. node	3992 Apr 18 05:56	4°Υ53'47	27051147
morning max el	3991 May 17 15:19 3991 May 18 04:09	0° と 31'18	27°36'21	morning max el	3992 Apr 29 09:29 3992 May 13 07:59	12° Y 27'12 0° ႘	2/314/
morning max ci	3991 Jun 08 08:32	0°II	27 3021		3992 May 30 17:50	0°II	
morning set	3991 Jun 19 00:49	20° Ⅲ 26′19		morning set	3992 Jun 02 02:36	4° Ⅱ 43'40	
asc. node	3991 Jun 22 07:23	27° II 22'17		max. Earth dist.	3992 Jun 07 17:11	16° Ⅱ 29'21	1.32443 AU
	3991 Jun 23 12:32	0ಂತಾ		asc. node	3992 Jun 08 04:26	17° ∏ 30′02	
max. Earth dist.	3991 Jun 25 08:54	4° © 02'40	1.32061 AU		2002 I 00 14.59	200Д27112	0015102
superior conj	3991 Jun 26 05:28	5° © 55'45	0°40'10	superior conj minimum elong	3992 Jun 09 14:58 3992 Jun 09 14:15	20°П37'13 20°П33'23	0°15'03 0°14'54
minimum elong	3991 Jun 26 03:48	5° 9 46'31	0°39'49	behind sun begin	3992 Jun 09 12:26	20° I I23'27	0 1434
evening rise	3991 Jul 03 01:09	20° © 48'16		behind sun end	3992 Jun 09 16:05	20° Ⅱ 43'18	
	3991 Jul 07 12:21	$0^{\circ}\Omega$			3992 Jun 13 22:09	0 \circ \odot	
	3991 Jul 26 08:32	0° m		evening rise	3992 Jun 16 12:50	5° © 37'19	
desc. node	3991 Jul 29 08:14	3° Mp 16'50	25020110		3992 Jun 29 10:18	0° Ω	24000172
evening max el retrograde	3991 Jul 30 14:47 3991 Aug 13 14:00	4° mp 32'17 11° mp 38'39	25°39'19	evening max el desc. node	3992 Jul 11 04:36 3992 Jul 15 05:14	15°Ω10'31 18°Ω33'32	24~09'53
evening set	3991 Aug 13 14:56	11 III 38 39 10° M 12'59		retrograde	3992 Jul 13 03.14 3992 Jul 24 23:51	18 0 33 32 $22^{\circ} \Omega 07'55$	
min. Earth dist.	3991 Aug 24 02:49	-	0.58266 AU	evening set	3992 Jul 29 15:59	21° Ω 19'26	
inferior conj	3991 Aug 27 07:08	5° m 19'44		min. Earth dist.	3992 Aug 04 15:12	18° Ω 22'26	0.56445 AU
minimum elong	3991 Aug 27 09:36	5° Mp 15'21	5°06'32	inferior conj	3992 Aug 07 03:47	16° Ω 48'20	
morning rise	3991 Sep 04 06:30	0° m 59'41		minimum elong	3992 Aug 07 00:29	16° £ 53′29	5°04'02
direct	3991 Sep 06 18:12	0° Mp 40'10	100/5/15	morning rise	3992 Aug 15 11:35	12° Ω 48'41	
morning max el asc. node	3991 Sep 15 03:53 3991 Sep 18 06:36	4° mp 40'06 8° mp 07'55	18°45'15	direct morning max el	3992 Aug 18 04:43 3992 Aug 27 23:19	12° Ω 29'22 17° Ω 02'13	19°44'07
ase. Houe	эээгэср 10 00.50	o nyo/oo		morning max or	5772 rug 21 25.19	1, 060213	17 170/

asa mada	3992 Sep 04 03:39	26° Ω 01'32			3993 Jul 13 18:39	20000	
asc. node	3992 Sep 04 03.39 3992 Sep 06 14:04	0°m		min. Earth dist.	3993 Jul 13 18.39 3993 Jul 17 02:00	30°Rூ 28°€14'06	0.55201 AU
morning set	3992 Sep 14 15:59	15° Mp 20'49		inferior conj	3993 Jul 17 02:00 3993 Jul 18 06:18	28 \$1400 27° \$33'50	
morning set	3992 Sep 14 13.39 3992 Sep 21 22:02	0° ⊡		minimum elong	3993 Jul 17 00:18	27°\$33'30'	
	3992 Sep 21 22.02	0 ==		_	3993 Jul 17 22:11 3993 Jul 26 20:52	27 3 43 23 23° 3 43'16	4 12 13
gumariar agni	3992 Sep 22 12:59	1° £ 14'17	1942!15	morning rise direct	3993 Jul 20 20:32 3993 Jul 29 21:31	23°9522'18	
superior conj	•	1° £ 20'19	1°42'13			23 \$22 18 28°\$40'24	21904102
minimum elong max. Earth dist.	3992 Sep 22 14:12	1 2 20 19 12° 2 40'13	1.37382 AU	morning max el	3993 Aug 10 07:01	28 €40 24 0°Ω	21°04'02
	3992 Sep 28 11:20		1.5/362 AU	asc. node	3993 Aug 11 15:31		
evening rise	3992 Oct 02 05:43	19° £ 33'24			3993 Aug 22 00:44	14° Ω 38'28	
	3992 Oct 08 06:49	0°M		morning set	3993 Aug 29 23:49	0° Mp 04'30	
desc. node	3992 Oct 11 04:34	4°M45'49			3993 Aug 29 22:57	0° m	
	3992 Oct 28 14:04	0° ∡ 7	25026112		2002 0 0 0 10	1.50 % 2012.1	104406
evening max el	3992 Nov 06 23:23	10° ∡ 744'30	25°26'13	superior conj	3993 Sep 06 09:19	15° m 29'24	1°44'06
retrograde	3992 Nov 19 02:13	17° ∡ ¹43'04		minimum elong	3993 Sep 06 08:59	•	1°44'06
evening set	3992 Nov 24 23:43	15° ∡ 15'40		max. Earth dist.	3993 Sep 10 20:36	-•	1.35529 AU
min. Earth dist.	3992 Nov 29 09:33	10° ∡ 23'42	0.67200 AU		3993 Sep 13 16:03	0∘ ⊽	
inferior conj	3992 Nov 30 13:56	8° ≯ 52'15		evening rise	3993 Sep 15 00:09	2° ≏ 32'11	
minimum elong	3992 Nov 30 14:13	8° ≯ 51'20	0°10'58	desc. node	3993 Sep 28 01:35	25° ≏ 04'58	
transit middle	3992 Nov 30 14:13	8° ₰ 751'20	0°10'58		3993 Oct 01 06:03	0°M₊	
transit begin	3992 Nov 30 12:09	8° ⊀ 57'58		evening max el	3993 Oct 20 11:54	24°M25'48	26°28'33
transit end	3992 Nov 30 16:16	8° ∡ ¹44'42			3993 Oct 27 16:35	0° ∡ ¹	
asc. node	3992 Dec 01 02:52	8° ∡ 10'42		retrograde	3993 Nov 02 08:41	1° ∡ ³39′01	
morning rise	3992 Dec 06 05:01	2° ∡ ¹56'31			3993 Nov 07 11:46	30°RM₊	
direct	3992 Dec 09 14:19	1° ∡ 750'24		evening set	3993 Nov 08 19:21	29°M01'21	
morning max el	3992 Dec 16 17:09	5° ∡ ¹49'20	19°20'46	min. Earth dist.	3993 Nov 12 22:15	24° M 44'47	0.66279 AU
greatest brilliancy	3992 Dec 30 02:44	23° ∡ ¹46'57	-0.7m	inferior conj	3993 Nov 14 13:59	22°M44'47	-1°09'51
	3993 Jan 03 04:48	6°0		minimum elong	3993 Nov 14 15:54	22°M39'00	1°09'03
desc. node	3993 Jan 07 03:48	6° そ 05'36		asc. node	3993 Nov 17 23:55	18°M56'18	
morning set	3993 Jan 09 16:38	10° පි 00'57		morning rise	3993 Nov 20 13:05	16°M59'08	
C	3993 Jan 22 11:52	0° ≈		direct	3993 Nov 23 12:28	16°M₀09'15	
max. Earth dist.	3993 Jan 23 00:30	0° ≈ 49'50	1.44727 AU	morning max el	3993 Nov 30 04:15	19° M 47'54	18°33'44
					3993 Dec 08 01:45	0° ∡ 7	
superior conj	3993 Jan 26 10:24	6°≈14'32	-1°49'21	morning set	3993 Dec 20 14:20	19° ∡ ³36′28	
minimum elong	3993 Jan 26 02:24	5°≈42'41		desc. node	3993 Dec 25 00:52	26° ₹ 39'24	
evening rise	3993 Feb 09 17:51	29°≈32'58	1 10 15	dese. Hode	3993 Dec 27 03:35	0°る	
evening rise	3993 Feb 10 00:21	0° \			3773 Dec 21 03.33	٥ ٠	
asc. node	3993 Feb 27 02:11	26°) 38'14		superior conj	3994 Jan 05 13:59	14°₹50'14	-1°13'//0
evening max el	3993 Mar 01 00:52	28°) (48'10	18°23'55	minimum elong	3994 Jan 05 05:22	14°る16'29	
evening max er	3993 Mar 01 00:32 3993 Mar 02 07:45	20 γ (40 10	16 25 55	max. Earth dist.	3994 Jan 05 05:22		1.45253 AU
ratragrada	3993 Mar 07 12:22	2° Υ 19'13		max. Earm dist.	3994 Jan 15 05:32	13 3 07 34 0° ≈	1.43233 AU
retrograde		1° Υ 28'30		avanina risa	3994 Jan 21 09:42	0 ≈ 9°≈46'43	
evening set	3993 Mar 10 13:22	1 1 28 30 30°R) €		evening rise			0.0
	3993 Mar 12 15:04	**-	2027147	greatest brilliancy	3994 Jan 30 06:51	23°≈52'45	-0.8m
inferior conj	3993 Mar 16 10:31	26° ₩ 00'45			3994 Feb 03 05:41	0°)(10057144
minimum elong	3993 Mar 16 10:23	26° ₩ 01'07	3°36'47	evening max el	3994 Feb 12 11:11	12°) 16′58	18°57'44
min. Earth dist.	3993 Mar 18 17:11	23° ∺ 23'03	0.64196 AU	asc. node	3994 Feb 13 23:13	13°) (41'36	
morning rise	3993 Mar 22 06:37	19° 米 51′10		retrograde	3994 Feb 19 07:00	16°) €07'37	
direct	3993 Mar 29 02:26	17°) €03'32		evening set	3994 Feb 22 14:31	15°) €04'08	2020112
desc. node	3993 Apr 05 02:58	19° ₩ 27'23	25020125	inferior conj	3994 Feb 28 05:01	9°) (19'34	3°28'43
morning max el	3993 Apr 11 18:31	24°) 59'49	2'/°30'2'/	minimum elong	3994 Feb 28 03:34	9°) €24'06	3°28'34
	3993 Apr 16 07:56	0°Υ		min. Earth dist.	3994 Mar 01 20:09	7° ∺ 16'51	0.65763 AU
	3993 May 06 18:49	0° 8		morning rise	3994 Mar 05 16:14	3° ∺ 06'37	
morning set	3993 May 16 20:37	18° 8 34'43		direct	3994 Mar 12 04:32	0°) 16′11	
max. Earth dist.	3993 May 21 18:05	28° 8 30'02	1.33263 AU	desc. node	3994 Mar 23 00:02	5° ∺ 51'46	
	3993 May 22 11:19	$\Pi^{\circ}0$		morning max el	3994 Mar 25 04:24	7° ¥ 57'20	26°38'11
					3994 Apr 11 08:18	0 ° Υ	
superior conj	3993 May 24 20:37	5° Ⅱ 02'49			3994 Apr 29 04:17	0°8	
minimum elong	3993 May 24 21:15	5° Ⅱ 06'12	0°12'24	morning set	3994 Apr 30 03:29	1° 8 49'17	
behind sun begin	3993 May 24 17:49	4° Ⅱ 47'53		max. Earth dist.	3994 May 04 08:15	9° 8 58'16	1.34553 AU
behind sun end	3993 May 25 00:42	5° Ⅱ 24'32					
asc. node	3993 May 26 01:30	7° Ⅱ 37'09		superior conj	3994 May 08 20:14	19° 8 06'01	-0°41'31
evening rise	3993 Jun 01 00:20	20° Ⅱ 21′27		minimum elong	3994 May 08 22:26	19° 8 17'25	0°41'05
	3993 Jun 05 17:28	0ංම		asc. node	3994 May 12 22:33	27° 8 39'26	
evening max el	3993 Jun 22 18:31	25° © 34'27	22°32'56		3994 May 14 01:19	$\Pi^{\circ}0$	
	3993 Jun 28 12:00	$0^{\circ}\Omega$		evening rise	3994 May 16 09:42	4° Ⅱ 54'35	
desc. node	3993 Jul 02 02:13	1° £ 32'45			3994 May 30 09:03	0ಂತಾ	
retrograde	3993 Jul 05 21:34	2° Ω 06′05		evening max el	3994 Jun 04 16:24	6°5916'18	21°02'54
evening set	3993 Jul 09 01:35	1° Ω 44'00		retrograde	3994 Jun 16 10:28	12° © 01'54	
0							

avaning sat	3994 Jun 18 15:11	11° © 50'35		ovening set	2005 May 20, 01:27	22° Ⅱ 18'36	
evening set				evening set	3995 May 30 01:37		
desc. node	3994 Jun 18 23:15	11°546'56	2026120	desc. node	3995 Jun 05 20:16	19° Ⅱ 32'40	002711.4
inferior conj	3994 Jun 27 23:42	7°952'57		inferior conj	3995 Jun 07 22:33	18° Ⅱ 17'04	
minimum elong	3994 Jun 27 16:37	8°902'56	2°34'05	minimum elong	3995 Jun 07 20:50	18° Ⅱ 19'41	0°36'35
min. Earth dist.	3994 Jun 28 13:24	7° © 33'38	0.54831 AU	min. Earth dist.	3995 Jun 10 02:22	16° ∏ 57'37	0.55433 AU
morning rise	3994 Jul 06 18:06	3° 9 53'07		morning rise	3995 Jun 16 13:56	13° ∐ 49'47	
direct	3994 Jul 10 06:55	3°526'10		direct	3995 Jun 20 21:43	13° ∏ 08'35	
morning max el	3994 Jul 23 03:47	9° © 34'40	22°40'41	morning max el	3995 Jul 04 18:21	20° Ⅱ 01'31	24°24'01
	3994 Aug 06 20:57	$0^{\circ}\Omega$			3995 Jul 13 05:37	0 \circ \odot	
asc. node	3994 Aug 08 21:48	3° Ω 47'16		asc. node	3995 Jul 26 18:51	23° © 19'50	
morning set	3994 Aug 14 10:29	14° Ω 55'53		morning set	3995 Jul 29 22:15	29° © 50'02	
	3994 Aug 21 11:58	O° My			3995 Jul 30 00:08	$0 {\circ} \Omega$	
superior conj	3994 Aug 21 12:59	0° Mp 05′24	1°39'09	superior conj	3995 Aug 05 21:24	14° Ω 54'24	1°28'28
minimum elong	3994 Aug 21 11:30	29° Ω 57'31	1°39'03	minimum elong	3995 Aug 05 19:15	14° Ω 42'41	1°28'14
max. Earth dist.	3994 Aug 24 14:28	6° My 32′03	1.34035 AU	max. Earth dist.	3995 Aug 07 17:07	18° Ω 51′00	1.32953 AU
evening rise	3994 Aug 29 09:10	16° Mp 12'06		evening rise	3995 Aug 13 04:54	0° Mp 22′22	
	3994 Sep 05 18:52	0∘ ত			3995 Aug 13 00:30	0° m)	
desc. node	3994 Sep 14 22:36	15° ≏ 02'55			3995 Aug 29 19:01	0∘ ত	
	3994 Sep 25 18:32	0° M.		desc. node	3995 Sep 01 19:37	4° ₽ 30'40	
evening max el	3994 Oct 03 00:30	7°M57'22	27°11'03	evening max el	3995 Sep 15 11:30	21° ≏ 06'31	27°26'45
retrograde	3994 Oct 16 09:18	15° ™ 15'05		retrograde	3995 Sep 29 03:30	28° £ 22'46	
evening set	3994 Oct 23 06:59	12°M33'48		evening set	3995 Oct 06 07:39	25° ≏ 47'11	
min. Earth dist.	3994 Oct 27 03:37	8°M52'40	0.65008 AU	min. Earth dist.	3995 Oct 09 23:29	22° ≏ 38'39	0.63396 AU
inferior conj	3994 Oct 29 07:20	6°M29'10	-2°11'03	inferior conj	3995 Oct 12 15:20	19° ≏ 59'08	-3°12'00
minimum elong	3994 Oct 29 11:02	6° ™ 18'54	2°09'36	minimum elong	3995 Oct 12 20:36	19° ≙ 45'55	3°10'14
morning rise	3994 Nov 04 16:05	0°M56'42		morning rise	3995 Oct 19 10:57	14° ≏ 43'23	
asc. node	3994 Nov 04 20:59	0°M51'13		direct	3995 Oct 21 21:46	14° £ 14'35	
direct	3994 Nov 07 07:54	0°M19'10		asc. node	3995 Oct 22 18:02	14° £ 18'05	
morning max el	3994 Nov 13 19:31	3°M46'53	18°03'26	morning max el	3995 Oct 28 12:09	17° Ω 39'55	17°50'36
morning max er	3994 Dec 01 07:51	0° ⊼	10 03 20	morning max er	3995 Nov 06 09:06	0°M	17 30 30
morning set	3994 Dec 01 07:37	0° х 40′33		morning set	3995 Nov 13 22:28	12°M58'40	
desc. node	3994 Dec 11 21:54	17°×721'09		morning set	3995 Nov 23 20:51	0° √	
dese. Hode	3774 Dec 11 21.54	1/ × 210)			3773 NOV 23 20.31	0 🗴	
		_					
superior coni	3994 Dec. 15, 21:08	23° × 742'28	-0°27'01	superior coni	3995 Nov 26 01:33	3° √ 39'09	0°18'51
superior conj	3994 Dec 15 21:08 3994 Dec 15 17:46	23° ⊀ 42'28 23° ₹ 29'06		superior conj	3995 Nov 26 01:33 3995 Nov 26 03:29	3° х 39′09 3° х 47′10	0°18'51 0°18'34
minimum elong	3994 Dec 15 17:46	23° ₹ 29'06	0°26'33	minimum elong	3995 Nov 26 03:29	3° ∡ ¹47'10	0°18'51 0°18'34
1 ,	3994 Dec 15 17:46 3994 Dec 19 13:45	23° х 29′06 29° х 33′17		minimum elong desc. node	3995 Nov 26 03:29 3995 Nov 28 18:55	3° х 47′10 8° х 07′23	0°18'34
minimum elong max. Earth dist.	3994 Dec 15 17:46 3994 Dec 19 13:45 3994 Dec 19 20:32	23°♂29'06 29°♂33'17 0°♂	0°26'33	minimum elong desc. node max. Earth dist.	3995 Nov 26 03:29 3995 Nov 28 18:55 3995 Dec 02 07:37	3° ₹47'10 8° ₹07'23 13° ₹49'21	
minimum elong	3994 Dec 15 17:46 3994 Dec 19 13:45 3994 Dec 19 20:32 3995 Jan 01 04:59	23° メ 29'06 29° メ 33'17 0°る 19°る14'13	0°26'33	minimum elong desc. node	3995 Nov 26 03:29 3995 Nov 28 18:55 3995 Dec 02 07:37 3995 Dec 11 14:34	3° 🖈 47'10 8° 🖈 07'23 13° 🖈 49'21 28° 🖈 24'05	0°18'34
minimum elong max. Earth dist. evening rise	3994 Dec 15 17:46 3994 Dec 19 13:45 3994 Dec 19 20:32 3995 Jan 01 04:59 3995 Jan 08 04:49	23° ₹29'06 29° ₹33'17 0° ₹ 19° ₹14'13 0°≈	0°26'33 1.45034 AU	minimum elong desc. node max. Earth dist.	3995 Nov 26 03:29 3995 Nov 28 18:55 3995 Dec 02 07:37 3995 Dec 11 14:34 3995 Dec 12 15:30	3° ₹47'10 8° ₹07'23 13° ₹49'21 28° ₹24'05 0° ₹	0°18'34
minimum elong max. Earth dist. evening rise greatest brilliancy	3994 Dec 15 17:46 3994 Dec 19 13:45 3994 Dec 19 20:32 3995 Jan 01 04:59 3995 Jan 08 04:49 3995 Jan 14 19:26	23°水29'06 29°水33'17 0°♂ 19°♂14'13 0°≈ 10°≈00'10	0°26'33 1.45034 AU -0.7m	minimum elong desc. node max. Earth dist. evening rise	3995 Nov 26 03:29 3995 Nov 28 18:55 3995 Dec 02 07:37 3995 Dec 11 14:34 3995 Dec 12 15:30 3996 Jan 02 01:35	3° ₹47'10 8° ₹07'23 13° ₹49'21 28° ₹24'05 0° ₹ 0° ≈	0°18'34 1.44102 AU
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el	3994 Dec 15 17:46 3994 Dec 19 13:45 3994 Dec 19 20:32 3995 Jan 01 04:59 3995 Jan 08 04:49 3995 Jan 14 19:26 3995 Jan 26 17:19	23°₹29'06 29°₹33'17 0°♂ 19°♂14'13 0°≈ 10°≈00'10 25°≈48'51	0°26'33 1.45034 AU	minimum elong desc. node max. Earth dist. evening rise	3995 Nov 26 03:29 3995 Nov 28 18:55 3995 Dec 02 07:37 3995 Dec 11 14:34 3995 Dec 12 15:30 3996 Jan 02 01:35 3996 Jan 09 18:02	3° ₹47'10 8° ₹07'23 13° ₹49'21 28° ₹24'05 0° ₹ 0° ≈ 9° ≈21'25	0°18'34 1.44102 AU
minimum elong max. Earth dist. evening rise greatest brilliancy	3994 Dec 15 17:46 3994 Dec 19 13:45 3994 Dec 19 20:32 3995 Jan 01 04:59 3995 Jan 08 04:49 3995 Jan 14 19:26 3995 Jan 26 17:19 3995 Jan 31 20:15	23° ₹29'06 29° ₹33'17 0° ₹5 19° ₹514'13 0° ≈ 10° ≈00'10 25° ≈48'51 29° ≈39'08	0°26'33 1.45034 AU -0.7m	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	3995 Nov 26 03:29 3995 Nov 28 18:55 3995 Dec 02 07:37 3995 Dec 11 14:34 3995 Dec 12 15:30 3996 Jan 02 01:35 3996 Jan 09 18:02 3996 Jan 18 02:34	3° ₹47'10 8° ₹07'23 13° ₹49'21 28° ₹24'05 0° ₹ 0° ≈ 9° ≈21'25 14° ≈17'49	0°18'34 1.44102 AU
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node	3994 Dec 15 17:46 3994 Dec 19 13:45 3994 Dec 19 20:32 3995 Jan 01 04:59 3995 Jan 08 04:49 3995 Jan 14 19:26 3995 Jan 26 17:19 3995 Jan 31 20:15 3995 Feb 01 22:20	23° ₹29'06 29° ₹33'17 0° ₹ 19° ₹14'13 0° ≈ 10° ≈00'10 25° ≈48'51 29° ≈39'08 0° ₹	0°26'33 1.45034 AU -0.7m	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	3995 Nov 26 03:29 3995 Nov 28 18:55 3995 Dec 02 07:37 3995 Dec 11 14:34 3995 Dec 12 15:30 3996 Jan 02 01:35 3996 Jan 09 18:02 3996 Jan 18 02:34 3996 Jan 18 17:16	3° ₹47'10 8° ₹07'23 13° ₹49'21 28° ₹24'05 0° ₹5 0° ₹5 14° ₹17'49 14° ₹15'46	0°18'34 1.44102 AU
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el	3994 Dec 15 17:46 3994 Dec 19 13:45 3994 Dec 19 20:32 3995 Jan 01 04:59 3995 Jan 08 04:49 3995 Jan 14 19:26 3995 Jan 26 17:19 3995 Jan 31 20:15 3995 Feb 01 22:20 3995 Feb 03 04:30	23°ダ29'06 29°ダ33'17 0°云 19°云14'13 0°≈ 10°≈00'10 25°≈48'51 29°≈39'08 0°升 0°升08'43	0°26'33 1.45034 AU -0.7m	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set	3995 Nov 26 03:29 3995 Nov 28 18:55 3995 Dec 02 07:37 3995 Dec 11 14:34 3995 Dec 12 15:30 3996 Jan 02 01:35 3996 Jan 09 18:02 3996 Jan 18 02:34 3996 Jan 18 17:16 3996 Jan 22 03:04	3° ₹47'10 8° ₹07'23 13° ₹49'21 28° ₹24'05 0° ₹ 0° ≈ 9° ≈21'25 14° ≈17'49 14° ≈15'46 12° ≈45'38	0°18'34 1.44102 AU 20°51'54
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde	3994 Dec 15 17:46 3994 Dec 19 13:45 3994 Dec 19 20:32 3995 Jan 01 04:59 3995 Jan 08 04:49 3995 Jan 14 19:26 3995 Jan 26 17:19 3995 Jan 31 20:15 3995 Feb 01 22:20 3995 Feb 03 04:30 3995 Feb 04 10:02	23° **29'06 29° **33'17 0° **5 19° *514'13 0° **≈ 10° *≈00'10 25° *≈48'51 29° *≈39'08 0° *+ 0° *+08'43 30° R**	0°26'33 1.45034 AU -0.7m	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj	3995 Nov 26 03:29 3995 Nov 28 18:55 3995 Dec 02 07:37 3995 Dec 11 14:34 3995 Dec 12 15:30 3996 Jan 02 01:35 3996 Jan 09 18:02 3996 Jan 18 02:34 3996 Jan 18 17:16 3996 Jan 22 03:04 3996 Jan 27 11:36	3° ₹47'10 8° ₹07'23 13° ₹49'21 28° ₹24'05 0° ₹ 0° ≈ 9° ≈21'25 14° ≈17'49 14° ≈15'46 12° ≈45'38 6° ≈34'20	0°18'34 1.44102 AU 20°51'54 2°37'28
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set	3994 Dec 15 17:46 3994 Dec 19 13:45 3994 Dec 19 20:32 3995 Jan 01 04:59 3995 Jan 08 04:49 3995 Jan 14 19:26 3995 Jan 26 17:19 3995 Jan 31 20:15 3995 Feb 01 22:20 3995 Feb 03 04:30 3995 Feb 04 10:02 3995 Feb 06 19:46	23° **29'06 29° **33'17 0° **514'13 0° **≈ 10° **00'10 25° **48'51 29° **39'08 0° ** 0° **+08'43 30° R** 28° **51'24	0°26'33 1.45034 AU -0.7m 19°47'54	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	3995 Nov 26 03:29 3995 Nov 28 18:55 3995 Dec 02 07:37 3995 Dec 11 14:34 3995 Dec 12 15:30 3996 Jan 02 01:35 3996 Jan 09 18:02 3996 Jan 18 02:34 3996 Jan 18 17:16 3996 Jan 22 03:04 3996 Jan 27 11:36 3996 Jan 27 09:07	3° ₹47'10 8° ₹07'23 13° ₹49'21 28° ₹24'05 0° ₹5 0° ₹5 14° ₹17'49 14° ₹15'46 12° ₹45'38 6° ₹34'20 6° ₹42'53	0°18'34 1.44102 AU 20°51'54 2°37'28 2°36'46
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj	3994 Dec 15 17:46 3994 Dec 19 13:45 3994 Dec 19 20:32 3995 Jan 01 04:59 3995 Jan 08 04:49 3995 Jan 14 19:26 3995 Jan 26 17:19 3995 Jan 31 20:15 3995 Feb 01 22:20 3995 Feb 03 04:30 3995 Feb 04 10:02 3995 Feb 06 19:46 3995 Feb 12 06:13	23° *729'06 29° *733'17 0° で 19° で14'13 0° ※ 10° ※00'10 25° ※48'51 29° ※39'08 0° 光 0° 光 08'43 30° R ※ 28° ※51'24 22° ※52'11	0°26'33 1.45034 AU -0.7m 19°47'54	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	3995 Nov 26 03:29 3995 Nov 28 18:55 3995 Dec 02 07:37 3995 Dec 11 14:34 3995 Dec 12 15:30 3996 Jan 02 01:35 3996 Jan 09 18:02 3996 Jan 18 02:34 3996 Jan 18 17:16 3996 Jan 22 03:04 3996 Jan 27 11:36 3996 Jan 27 09:07 3996 Jan 27 23:01	3° ₹47'10 8° ₹07'23 13° ₹49'21 28° ₹24'05 0° ₹ 0° ₹ 9° ≈21'25 14° ≈17'49 14° ≈15'46 12° ≈45'38 6° ≈34'20 6° ≈42'53 5° ≈55'03	0°18'34 1.44102 AU 20°51'54 2°37'28
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong	3994 Dec 15 17:46 3994 Dec 19 13:45 3994 Dec 19 20:32 3995 Jan 01 04:59 3995 Jan 08 04:49 3995 Jan 14 19:26 3995 Jan 31 20:15 3995 Feb 01 22:20 3995 Feb 03 04:30 3995 Feb 04 10:02 3995 Feb 06 19:46 3995 Feb 12 06:13 3995 Feb 12 04:00	23° *729'06 29° *733'17 0° *5 19° *514'13 0° *≈ 10° *≈00'10 25° *≈48'51 29° *≈39'08 0° *+ 0° *+ 08'43 30° R*≈ 28° *≈51'24 22° *≈52'11 22° *≈59'35	0°26'33 1.45034 AU -0.7m 19°47'54 3°08'05 3°07'39	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong	3995 Nov 26 03:29 3995 Nov 28 18:55 3995 Dec 02 07:37 3995 Dec 11 14:34 3995 Dec 12 15:30 3996 Jan 02 01:35 3996 Jan 09 18:02 3996 Jan 18 02:34 3996 Jan 18 17:16 3996 Jan 22 03:04 3996 Jan 27 11:36 3996 Jan 27 09:07 3996 Jan 27 23:01 3996 Feb 01 15:00	3° ₹47'10 8° ₹07'23 13° ₹49'21 28° ₹24'05 0° ₹ 0° ₹ 9° ≈21'25 14° ≈17'49 14° ≈15'46 12° ≈45'38 6° ≈34'20 6° ≈42'53 5° ≈55'03 0° ≈21'13	0°18'34 1.44102 AU 20°51'54 2°37'28 2°36'46
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minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	3994 Dec 15 17:46 3994 Dec 19 13:45 3994 Dec 19 20:32 3995 Jan 01 04:59 3995 Jan 08 04:49 3995 Jan 14 19:26 3995 Jan 26 17:19 3995 Jan 31 20:15 3995 Feb 01 22:20 3995 Feb 03 04:30 3995 Feb 04 10:02 3995 Feb 12 06:13 3995 Feb 12 04:00 3995 Feb 13 06:46 3995 Feb 17 12:00	23° ₹29'06 29° ₹33'17 0° ₹5 19° ₹514'13 0° ≈ 10° ≈00'10 25° ≈48'51 29° ≈39'08 0° ¥ 0° ¥08'43 30° ₹≈ 28° ≈51'24 22° ≈52'11 22° ≈52'11 22° ≈59'35 21° ≈30'37 16° ≈38'20	0°26'33 1.45034 AU -0.7m 19°47'54 3°08'05 3°07'39	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	3995 Nov 26 03:29 3995 Nov 28 18:55 3995 Dec 02 07:37 3995 Dec 11 14:34 3995 Dec 12 15:30 3996 Jan 02 01:35 3996 Jan 09 18:02 3996 Jan 18 02:34 3996 Jan 18 17:16 3996 Jan 22 03:04 3996 Jan 27 11:36 3996 Jan 27 09:07 3996 Jan 27 23:01 3996 Feb 01 15:00 3996 Feb 02 00:49 3996 Feb 07 00:59	3° 水47'10 8° 水07'23 13° 水49'21 28° 水24'05 0° 云 0° ≈ 9° ≈21'25 14° ≈17'49 14° ≈15'46 12° ≈45'38 6° ≈34'20 6° ≈42'53 5° ≈55'03 0° ≈21'13 30° R云 27° 云57'50	0°18'34 1.44102 AU 20°51'54 2°37'28 2°36'46
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minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	3994 Dec 15 17:46 3994 Dec 19 13:45 3994 Dec 19 20:32 3995 Jan 01 04:59 3995 Jan 08 04:49 3995 Jan 14 19:26 3995 Jan 26 17:19 3995 Jan 31 20:15 3995 Feb 01 22:20 3995 Feb 04 10:02 3995 Feb 06 19:46 3995 Feb 12 06:13 3995 Feb 12 04:00 3995 Feb 13 06:46 3995 Feb 14 12:00 3995 Feb 15 10:46 3995 Feb 16:13 3995 Feb 17 12:00 3995 Feb 18 06:46 3995 Feb 19 18:46 3995 Apr 18:20 3995 Apr 18:44 3995 Apr 19 18:44 3995 Apr 10 11:24 3995 Apr 21 02:47	23° ₹29'06 29° ₹33'17 0° ₹ 19° ₹14'13 0° ≈ 10° ≈00'10 25° ≈48'51 29° ≈39'08 0° ₹ 0° ₹08'43 30° ₹≈ 28° ≈51'24 22° ≈52'11 22° ≈59'35 21° ≈30'37 16° ≈38'20 13° ≈57'17 21° ≈08'41 23° ≈36'10 0° ₹ 0° ₹ 14° ₹14'46 21° ₹03'51 0° ₹ 2° ₹39'24 2° ₹58'00 17° ₹33'01	0°26'33 1.45034 AU -0.7m 19°47'54 3°08'05 3°07'39 0.66908 AU 25°23'50	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	3995 Nov 26 03:29 3995 Nov 28 18:55 3995 Dec 02 07:37 3995 Dec 11 14:34 3995 Dec 12 15:30 3996 Jan 02 01:35 3996 Jan 18 02:34 3996 Jan 18 02:34 3996 Jan 22 03:04 3996 Jan 27 11:36 3996 Jan 27 09:07 3996 Jan 27 23:01 3996 Feb 01 15:00 3996 Feb 02 00:49 3996 Feb 07 00:59 3996 Feb 12 16:39 3996 Feb 17 22:02 3996 Feb 17 22:02 3996 Feb 24 18:06 3996 Mar 24 12:29 3996 Mar 27 01:33 3996 Mar 28 07:32	3° ₹47'10 8° ₹07'23 13° ₹49'21 28° ₹24'05 0° ₹ 0° ₹ 9° ≈21'25 14° ≈17'49 14° ≈15'46 12° ≈45'38 6° ≈42'53 5° ≈55'03 0° ≈21'13 30° ₹ 27° ₹57'50 0° ≈ 4° ≈26'55 12° ≈17'07 0° ₹ 25° ₹34'26 0° ₹ 2° ₹12'39 15° ₹32'18 15° ₹32'18 15° ₹34'37 0° ₹ 3° ₹000'50	0°18'34 1.44102 AU 20°51'54 2°37'28 2°36'46 0.67639 AU 23°57'15 1.38362 AU -1°36'44
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	3994 Dec 15 17:46 3994 Dec 19 13:45 3994 Dec 19 20:32 3995 Jan 01 04:59 3995 Jan 08 04:49 3995 Jan 14 19:26 3995 Jan 26 17:19 3995 Jan 31 20:15 3995 Feb 01 22:20 3995 Feb 04 10:02 3995 Feb 06 19:46 3995 Feb 12 06:13 3995 Feb 12 06:13 3995 Feb 12 06:40 3995 Feb 13 06:46 3995 Feb 14 12:00 3995 Feb 15 10:46 3995 Feb 16:13 3995 Feb 17 12:00 3995 Feb 18 18:46 3995 Apr 04 13:20 3995 Apr 12 18:44 3995 Apr 16 11:24 3995 Apr 22 11:01 3995 Apr 22 11:01	23° ₹29'06 29° ₹33'17 0° ₹ 19° ₹14'13 0° ≈ 10° ≈00'10 25° ≈48'51 29° ≈39'08 0° ₹ 0° ₹08'43 30° ₹≈ 28° ≈51'24 22° ≈52'11 22° ≈59'35 21° ≈30'37 16° ≈38'20 13° ≈57'17 21° ≈08'41 23° ≈36'10 0° ₹ 0° ₹ 14° ₹14'46 21° ₹03'51 0° ₹ 2° ₹39'24 2° ₹58'00 17° ₹33'01 19° ₹10'32	0°26'33 1.45034 AU -0.7m 19°47'54 3°08'05 3°07'39 0.66908 AU 25°23'50	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong minimum elong	3995 Nov 26 03:29 3995 Nov 28 18:55 3995 Dec 02 07:37 3995 Dec 11 14:34 3995 Dec 12 15:30 3996 Jan 02 01:35 3996 Jan 09 18:02 3996 Jan 18 02:34 3996 Jan 18 17:16 3996 Jan 22 03:04 3996 Jan 27 09:07 3996 Jan 27 09:07 3996 Jan 27 23:01 3996 Feb 01 15:00 3996 Feb 02 00:49 3996 Feb 07 00:59 3996 Feb 12 16:39 3996 Feb 17 22:02 3996 Feb 17 22:02 3996 Feb 24 18:06 3996 Mar 24 12:29 3996 Mar 27 01:33 3996 Mar 28 07:32 3996 Apr 04 13:20 3996 Apr 04 13:20 3996 Apr 04 18:02	3° ₹47'10 8° ₹07'23 13° ₹49'21 28° ₹24'05 0° ₹ 0° ₹ 9° ≈21'25 14° ≈17'49 14° ≈15'46 12° ≈45'38 6° ≈42'53 5° ≈55'03 0° ≈21'13 30° ₹₹ 27° ₹557'50 0° ≈ 4° ≈26'55 12° ≈17'07 0° ₹ 25° ₹34'26 0° ₹ 2° ₹12'39 15° ₹32'18 15° ₹32'18 15° ₹32'18 15° ₹32'18	0°18'34 1.44102 AU 20°51'54 2°37'28 2°36'46 0.67639 AU 23°57'15 1.38362 AU -1°36'44 1°36'10
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node	3994 Dec 15 17:46 3994 Dec 19 13:45 3994 Dec 19 20:32 3995 Jan 01 04:59 3995 Jan 08 04:49 3995 Jan 14 19:26 3995 Jan 26 17:19 3995 Jan 31 20:15 3995 Feb 01 22:20 3995 Feb 04 10:02 3995 Feb 06 19:46 3995 Feb 12 06:13 3995 Feb 12 06:13 3995 Feb 12 04:00 3995 Feb 13 06:46 3995 Feb 14 12:00 3995 Feb 15 10:46 3995 Feb 16:46 3995 Feb 17 12:00 3995 Feb 18:20 3995 Feb 19:35 3995 Mar 09 21:05 3995 Mar 15 05:34 3995 Apr 04 13:20 3995 Apr 12 18:44 3995 Apr 16 11:24 3995 Apr 21 02:47	23° ₹29'06 29° ₹33'17 0° ₹ 19° ₹14'13 0° ≈ 10° ≈00'10 25° ≈48'51 29° ≈39'08 0° ₹ 0° ₹08'43 30° ₹≈ 28° ≈51'24 22° ≈52'11 22° ≈59'35 21° ≈30'37 16° ≈38'20 13° ≈57'17 21° ≈08'41 23° ≈36'10 0° ₹ 0° ₹ 14° ₹14'46 21° ₹03'51 0° ₹ 2° ₹39'24 2° ₹58'00 17° ₹33'01	0°26'33 1.45034 AU -0.7m 19°47'54 3°08'05 3°07'39 0.66908 AU 25°23'50	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	3995 Nov 26 03:29 3995 Nov 28 18:55 3995 Dec 02 07:37 3995 Dec 11 14:34 3995 Dec 12 15:30 3996 Jan 02 01:35 3996 Jan 18 02:34 3996 Jan 18 02:34 3996 Jan 22 03:04 3996 Jan 27 11:36 3996 Jan 27 09:07 3996 Feb 01 15:00 3996 Feb 02 00:49 3996 Feb 07 00:59 3996 Feb 12 16:39 3996 Feb 12 16:39 3996 Feb 12 16:39 3996 Feb 14 12:02 3996 Mar 24 12:29 3996 Mar 25 01:33 3996 Mar 28 07:32 3996 Apr 04 13:20 3996 Apr 04 13:20 3996 Apr 12 00:07 3996 Apr 13 12:57	3° ₹47'10 8° ₹07'23 13° ₹49'21 28° ₹24'05 0° ₹ 0° ₹ 9° ≈21'25 14° ≈17'49 14° ≈15'46 12° ≈45'38 6° ≈42'53 5° ≈55'03 0° ≈21'13 30° ₹₹ 27° ₹557'50 0° ≈ 4° ≈26'55 12° ≈17'07 0° ₹ 25° ₹34'26 0° ₹ 2° ₹12'39 15° ₹32'18 15° ₹32'18 15° ₹32'18 29° ₹36'29	0°18'34 1.44102 AU 20°51'54 2°37'28 2°36'46 0.67639 AU 23°57'15 1.38362 AU -1°36'44 1°36'10
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node	3994 Dec 15 17:46 3994 Dec 19 13:45 3994 Dec 19 20:32 3995 Jan 01 04:59 3995 Jan 08 04:49 3995 Jan 14 19:26 3995 Jan 26 17:19 3995 Jan 31 20:15 3995 Feb 01 22:20 3995 Feb 04 10:02 3995 Feb 06 19:46 3995 Feb 12 06:13 3995 Feb 12 04:00 3995 Feb 13 06:46 3995 Feb 13 06:46 3995 Feb 13 10:46 3995 Feb 14 12:00 3995 Feb 15 13 12:17 3995 Mar 07 13:28 3995 Mar 09 21:05 3995 Mar 15 05:34 3995 Apr 04 13:20 3995 Apr 12 18:44 3995 Apr 16 11:24 3995 Apr 21 102:47	23° ₹29'06 29° ₹33'17 0° ₹ 19° ₹14'13 0° ≈ 10° ≈00'10 25° ≈48'51 29° ≈39'08 0° ₹ 0° ₹08'43 30° ₹≈ 28° ≈51'24 22° ≈52'11 22° ≈59'35 21° ≈30'37 16° ≈38'20 13° ≈57'17 21° ≈08'41 23° ≈36'10 0° ₹ 0° ₹ 14° ₹14'46 21° ₹03'51 0° ₹ 2° ₹39'24 2° ₹58'00 17° ₹33'01 19° ₹10'32	0°26'33 1.45034 AU -0.7m 19°47'54 3°08'05 3°07'39 0.66908 AU 25°23'50 1.36291 AU -1°10'20 1°09'43	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3995 Nov 26 03:29 3995 Nov 28 18:55 3995 Dec 02 07:37 3995 Dec 11 14:34 3995 Dec 12 15:30 3996 Jan 02 01:35 3996 Jan 18 02:34 3996 Jan 18 02:34 3996 Jan 22 03:04 3996 Jan 27 11:36 3996 Jan 27 09:07 3996 Jan 27 23:01 3996 Feb 01 15:00 3996 Feb 02 00:49 3996 Feb 07 00:59 3996 Feb 12 16:39 3996 Feb 12 16:39 3996 Feb 14 18:06 3996 Mar 08 13:06 3996 Mar 24 12:29 3996 Mar 27 01:33 3996 Mar 28 07:32 3996 Apr 04 13:20 3996 Apr 04 18:02 3996 Apr 12 00:07 3996 Apr 13 12:57 3996 Apr 15 16:35	3° ₹47'10 8° ₹07'23 13° ₹49'21 28° ₹24'05 0° ₹ 0° ₹ 9° ≈21'25 14° ≈17'49 14° ≈15'46 12° ≈45'38 6° ≈42'53 5° ≈55'03 0° ≈21'13 30° ₹₹ 27° ₹557'50 0° ≈ 4° ≈26'55 12° ≈17'07 0° ₹ 25° ₹34'26 0° ₹ 2° ₹12'39 15° ₹32'18 15° ₹32'18 15° ₹32'18 15° ₹32'18	0°18'34 1.44102 AU 20°51'54 2°37'28 2°36'46 0.67639 AU 23°57'15 1.38362 AU -1°36'44 1°36'10
minimum elong max. Earth dist. evening rise greatest brilliancy evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node evening rise	3994 Dec 15 17:46 3994 Dec 19 13:45 3994 Dec 19 20:32 3995 Jan 01 04:59 3995 Jan 08 04:49 3995 Jan 14 19:26 3995 Jan 26 17:19 3995 Jan 31 20:15 3995 Feb 01 22:20 3995 Feb 04 10:02 3995 Feb 06 19:46 3995 Feb 12 04:00 3995 Feb 12 04:00 3995 Feb 13 06:46 3995 Feb 17 12:00 3995 Feb 13 10:46 3995 Feb 14 10:02 3995 Feb 15 10:40 3995 Feb 16:46 3995 Feb 17 12:00 3995 Feb 18:20 3995 Feb 19:35 3995 Mar 15 05:34 3995 Mar 15 05:34 3995 Apr 12 18:44 3995 Apr 12 18:44 3995 Apr 12 18:44 3995 Apr 22 11:01 3995 Apr 22 14:46 3995 Apr 29 19:35 3995 Apr 30 14:48 3995 May 06 03:08	23° ₹29'06 29° ₹33'17 0° ₹5 19° ₹14'13 0° ≈ 10° ≈00'10 25° ≈48'51 29° ≈39'08 0° ₹ 0° ₹08'43 30° ₹≈ 28° ≈51'24 22° ≈52'11 22° ≈52'35 21° ≈30'37 16° ≈38'20 13° ≈57'17 21° ≈08'41 23° ≈36'10 0° ₹ 0° ₹ 14° ₹14'46 21° ₹03'51 0° ₹ 2° ₹39'24 2° ₹58'00 17° ₹33'01 19° ₹10'32 0° ¶	0°26'33 1.45034 AU -0.7m 19°47'54 3°08'05 3°07'39 0.66908 AU 25°23'50 1.36291 AU -1°10'20 1°09'43	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3995 Nov 26 03:29 3995 Nov 28 18:55 3995 Dec 02 07:37 3995 Dec 11 14:34 3995 Dec 12 15:30 3996 Jan 02 01:35 3996 Jan 09 18:02 3996 Jan 18 02:34 3996 Jan 18 02:34 3996 Jan 22 03:04 3996 Jan 27 11:36 3996 Jan 27 23:01 3996 Feb 01 15:00 3996 Feb 02 00:49 3996 Feb 07 00:59 3996 Feb 12 16:39 3996 Feb 12 16:39 3996 Feb 17 22:02 3996 Feb 17 22:02 3996 Feb 24 18:06 3996 Mar 08 13:06 3996 Mar 24 12:29 3996 Mar 27 01:33 3996 Mar 28 07:32 3996 Apr 04 13:20 3996 Apr 04 18:02 3996 Apr 12 00:07 3996 Apr 13 12:57 3996 Apr 15 16:35 3996 Apr 29 23:29	3° ₹47'10 8° ₹07'23 13° ₹49'21 28° ₹24'05 0° ₹ 0° ₹ 9° ≈21'25 14° ≈17'49 14° ≈15'46 12° ≈45'38 6° ≈42'53 5° ≈55'03 0° ≈21'13 30° ₹₹ 27° ₹557'50 0° ≈ 4° ≈26'55 12° ≈17'07 0° ₹ 25° ₹34'26 0° ₹ 2° ₹12'39 15° ₹32'18 15° ₹32'18 15° ₹32'18 29° ₹36'29	0°18'34 1.44102 AU 20°51'54 2°37'28 2°36'46 0.67639 AU 23°57'15 1.38362 AU -1°36'44 1°36'10

evening set	3996 May 10 12:57	3° Ⅱ 29'34		retrograde	3997 Apr 20 12:28	15° 8 48'39	
evening set	3996 May 17 11:41	30°R ∀		evening set	3997 Apr 22 21:51	15° 8 26'19	
inferior conj	3996 May 18 14:40		1°10'12	inferior conj	3997 Apr 30 04:18	10° 8 49'26	2°27'41
minimum elong	3996 May 18 17:16	29° 8 07'52	1°09'19	minimum elong	3997 Apr 30 07:58	10° 8 41'47	
min. Earth dist.	3996 May 21 18:12	26° 8 58'54	0.56872 AU	min. Earth dist.	3997 May 03 14:54	7° 8 58'34	0.58859 AU
desc. node	3996 May 22 17:17	26° 8 20'32		morning rise	3997 May 07 15:07	5° 8 15'28	
morning rise	3996 May 26 18:21	24° 8 09'18		desc. node	3997 May 09 14:19	4° 8 21'14	
direct	3996 Jun 01 01:26	23° 8 02'14		direct	3997 May 13 19:21	3° 8 33'41	
	3996 Jun 14 21:25	0° I I		morning max el	3997 May 28 04:47	11° 8 19'49	27°10'24
morning max el	3996 Jun 15 09:07	0° Ⅲ 27'51	25°59'06	•	3997 Jun 11 17:27	$\Pi^{\circ}0$	
-	3996 Jul 06 00:39	0°©		morning set	3997 Jun 27 18:31	29° Ⅱ 24'52	
asc. node	3996 Jul 12 15:53	13° © 08'58			3997 Jun 28 01:13	0 \circ \mathfrak{S}	
morning set	3996 Jul 13 09:28	14° 5 641'29		asc. node	3997 Jun 29 12:54	3° 5 09'14	
superior conj	3996 Jul 20 08:25	29° © 49'16	1°12'55	superior conj	3997 Jul 04 20:13	14° © 44'01	0°53'11
minimum elong	3996 Jul 20 06:05	29° © 36'25	1°12'34	minimum elong	3997 Jul 04 18:10	14° © 32'43	0°52'48
	3996 Jul 20 10:22	$0^{\circ}\Omega$		max. Earth dist.	3997 Jul 04 13:26	14° © 06'33	1.32021 AU
max. Earth dist.	3996 Jul 21 01:56	1° Ω 25'35	1.32283 AU	evening rise	3997 Jul 11 16:16	29° © 37'07	
evening rise	3996 Jul 27 08:06	14° Ω 53′20			3997 Jul 11 20:36	$0 {\circ} \Omega$	
	3996 Aug 04 00:38	0° m ∕			3997 Jul 28 07:31	0° m	
desc. node	3996 Aug 18 16:37	23° Mp 15'53		desc. node	3997 Aug 05 13:37	11° m 00'51	
	3996 Aug 24 04:57	0∘ ⊽		evening max el	3997 Aug 09 18:35	15° m 26'55	26°21'17
evening max el	3996 Aug 27 18:19	3° ₽ 39'42	27°10'39	retrograde	3997 Aug 23 17:54	22° M 36'51	
retrograde	3996 Sep 10 14:44	10° ≙ 52'56		evening set	3997 Aug 30 07:57	20° m 49'39	
evening set	3996 Sep 17 17:34	8° ≏ 35'07		min. Earth dist.	3997 Sep 03 07:48	18° m 14'33	0.59426 AU
min. Earth dist.	3996 Sep 21 08:40	5° ≙ 50'51	0.61491 AU	inferior conj	3997 Sep 06 14:23	15° m 43'07	-4°51'53
inferior conj	3996 Sep 24 10:51	3° ჲ 06'57	-4°08'10	minimum elong	3997 Sep 06 18:59	15° m 34'12	4°51'14
minimum elong	3996 Sep 24 16:49	2° ≏ 53'45	4°06'41	morning rise	3997 Sep 14 08:12	11° Mp 10'04	
	3996 Sep 28 06:38	30°R, Mp		direct	3997 Sep 16 17:41	10° Mp 49'57	
morning rise	3996 Oct 01 17:51	28° Mp 11'24		morning max el	3997 Sep 24 12:54	-	18°21'22
direct	3996 Oct 04 02:26	27° m 48'15		asc. node	3997 Sep 25 12:07	15° m 35'43	
asc. node	3996 Oct 08 15:04	29° Mp 17'02			3997 Oct 05 03:14	0∘ ⊽	
	3996 Oct 09 14:59	0∘ ⊽		morning set	3997 Oct 10 11:56	10° Ω 02'00	
morning max el	3996 Oct 11 03:02		17°56'11				
morning set	3996 Oct 26 22:26	26° ≙ 11'17		superior conj	3997 Oct 19 15:48	27° ≙ 19'27	1°22'03
	3996 Oct 29 00:31	0° M		minimum elong	3997 Oct 19 19:30	27° Ω 36'27	1°21'41
					3997 Oct 21 02:59	0°M	
superior conj	3996 Nov 06 08:50	14° M .54'57	0°55'59	max. Earth dist.	3997 Oct 21 02:59 3997 Oct 27 04:30	0°M 10°M41'53	1°21'41 1.40640 AU
minimum elong	3996 Nov 06 08:50 3996 Nov 06 12:55	14°M54'57 15°M12'43	0°55'27	max. Earth dist.	3997 Oct 21 02:59 3997 Oct 27 04:30 3997 Oct 31 17:46	0°M 10°M41'53 18°M21'13	
minimum elong max. Earth dist.	3996 Nov 06 08:50 3996 Nov 06 12:55 3996 Nov 13 20:52	14°M54'57 15°M12'43 27°M36'44		max. Earth dist.	3997 Oct 21 02:59 3997 Oct 27 04:30 3997 Oct 31 17:46 3997 Nov 01 12:57	0°M 10°M41'53 18°M21'13 19°M39'58	
minimum elong	3996 Nov 06 08:50 3996 Nov 06 12:55 3996 Nov 13 20:52 3996 Nov 14 15:56	14°M.54'57 15°M.12'43 27°M.36'44 28°M.54'59	0°55'27	max. Earth dist.	3997 Oct 21 02:59 3997 Oct 27 04:30 3997 Oct 31 17:46 3997 Nov 01 12:57 3997 Nov 08 00:44	0°M 10°M41'53 18°M21'13 19°M39'58 0°⊀	
minimum elong max. Earth dist. desc. node	3996 Nov 06 08:50 3996 Nov 06 12:55 3996 Nov 13 20:52 3996 Nov 14 15:56 3996 Nov 15 07:51	14°M54'57 15°M12'43 27°M36'44 28°M54'59 0° ₹	0°55'27	max. Earth dist. evening rise desc. node	3997 Oct 21 02:59 3997 Oct 27 04:30 3997 Oct 31 17:46 3997 Nov 01 12:57 3997 Nov 08 00:44 3997 Nov 29 08:23	0°M 10°M41'53 18°M21'13 19°M39'58 0°ズ 0°る	1.40640 AU
minimum elong max. Earth dist.	3996 Nov 06 08:50 3996 Nov 06 12:55 3996 Nov 13 20:52 3996 Nov 14 15:56 3996 Nov 15 07:51 3996 Nov 20 06:36	14° M 54'57 15° M 12'43 27° M 36'44 28° M 54'59 0° ₹ 7° ₹ 56'04	0°55'27	max. Earth dist. evening rise desc. node	3997 Oct 21 02:59 3997 Oct 27 04:30 3997 Oct 31 17:46 3997 Nov 01 12:57 3997 Nov 08 00:44 3997 Nov 29 08:23 3997 Dec 05 04:18	0°M 10°M41'53 18°M21'13 19°M39'58 0°メ 0°उ 6°उ32'06	1.40640 AU
minimum elong max. Earth dist. desc. node evening rise	3996 Nov 06 08:50 3996 Nov 06 12:55 3996 Nov 13 20:52 3996 Nov 14 15:56 3996 Nov 15 07:51 3996 Nov 20 06:36 3996 Dec 04 20:46	14°M54'57 15°M12'43 27°M36'44 28°M54'59 0°	0°55'27 1.42571 AU	max. Earth dist. evening rise desc. node evening max el retrograde	3997 Oct 21 02:59 3997 Oct 27 04:30 3997 Oct 31 17:46 3997 Nov 01 12:57 3997 Nov 08 00:44 3997 Nov 29 08:23 3997 Dec 05 04:18 3997 Dec 15 17:23	0°M 10°M41'53 18°M21'13 19°M39'58 0°₹ 0°उ 6°उ32'06 12°उ46'24	1.40640 AU
minimum elong max. Earth dist. desc. node evening rise evening max el	3996 Nov 06 08:50 3996 Nov 06 12:55 3996 Nov 13 20:52 3996 Nov 14 15:56 3996 Nov 15 07:51 3996 Nov 20 06:36 3996 Dec 04 20:46 3996 Dec 22 13:16	14°M.54'57 15°M.12'43 27°M.36'44 28°M.54'59 0° ₹ 7° ₹'56'04 0° ₹ 22° ₹55'24	0°55'27	max. Earth dist. evening rise desc. node evening max el retrograde evening set	3997 Oct 21 02:59 3997 Oct 27 04:30 3997 Oct 31 17:46 3997 Nov 01 12:57 3997 Nov 08 00:44 3997 Nov 29 08:23 3997 Dec 05 04:18 3997 Dec 15 17:23 3997 Dec 20 17:11	0°M 10°M41'53 18°M21'13 19°M39'58 0°ズ 0°उ 6°उ32'06 12°उ46'24 10°उ42'34	1.40640 AU
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde	3996 Nov 06 08:50 3996 Nov 06 12:55 3996 Nov 13 20:52 3996 Nov 14 15:56 3996 Nov 15 07:51 3996 Nov 20 06:36 3996 Dec 04 20:46 3996 Dec 22 13:16 3996 Dec 31 23:22	14° M.54'57 15° M.12'43 27° M.36'44 28° M.54'59 0° 🖈 7° 🖈 56'04 0° ℧ 22° ℧ 55'24 28° ℧ 31'49	0°55'27 1.42571 AU	max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node	3997 Oct 21 02:59 3997 Oct 27 04:30 3997 Oct 31 17:46 3997 Nov 01 12:57 3997 Nov 08 00:44 3997 Nov 29 08:23 3997 Dec 05 04:18 3997 Dec 15 17:23 3997 Dec 20 17:11 3997 Dec 22 11:19	0°M 10°M41'53 18°M21'13 19°M39'58 0°⊀ 0°G 6°G32'06 12°G46'24 10°G42'34 8°G59'09	1.40640 AU 23°25'44
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node	3996 Nov 06 08:50 3996 Nov 06 12:55 3996 Nov 13 20:52 3996 Nov 14 15:56 3996 Nov 15 07:51 3996 Nov 20 06:36 3996 Dec 04 20:46 3996 Dec 22 13:16 3996 Dec 31 23:22 3997 Jan 04 14:17	14°M54'57 15°M12'43 27°M36'44 28°M54'59 0°ズ 7°ズ56'04 0°G 22°G55'24 28°G31'49 27°G21'40	0°55'27 1.42571 AU	max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist.	3997 Oct 21 02:59 3997 Oct 27 04:30 3997 Oct 31 17:46 3997 Nov 01 12:57 3997 Nov 08 00:44 3997 Nov 29 08:23 3997 Dec 05 04:18 3997 Dec 15 17:23 3997 Dec 20 17:11 3997 Dec 22 11:19 3997 Dec 25 15:34	0°M 10°M41'53 18°M21'13 19°M39'58 0°ズ 0°G 6°G32'06 12°G46'24 10°G42'34 8°G59'09 4°G56'29	1.40640 AU 23°25'44 0.67950 AU
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minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist.	3996 Nov 06 08:50 3996 Nov 06 12:55 3996 Nov 13 20:52 3996 Nov 14 15:56 3996 Nov 15 07:51 3996 Nov 20 06:36 3996 Dec 04 20:46 3996 Dec 22 13:16 3996 Dec 31 23:22 3997 Jan 04 14:17 3997 Jan 05 10:44 3997 Jan 10 19:06 3997 Jan 10 16:50 3997 Jan 10 18:46 3997 Jan 10 18:46 3997 Jan 20 17:54 3997 Jan 30 08:41 3997 Feb 09 09:58 3997 Feb 10 15:08 3997 Mar 01 16:00 3997 Mar 05 03:02 3997 Mar 10 03:44	14°M54'57 15°M12'43 27°M36'44 28°M54'59 0°ダ 7°ダ56'04 0°℧ 22°℧555'24 28°℧31'49 27°℧21'40 26°℧43'58 20°℧23'58 20°℧31'51 20°℧25'09 14°℧13'03 12°℧11'33 17°℧51'52 0°窓 1°窓39'00 0°ℋ 5°ℋ34'52 13°Ж56'58	0°55'27 1.42571 AU 22°06'08 1°58'37 1°57'50 0.67978 AU 22°28'28	max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	3997 Oct 21 02:59 3997 Oct 27 04:30 3997 Oct 31 17:46 3997 Nov 01 12:57 3997 Nov 08 00:44 3997 Nov 29 08:23 3997 Dec 05 04:18 3997 Dec 15 17:23 3997 Dec 20 17:11 3997 Dec 22 11:19 3997 Dec 25 15:34 3997 Dec 26 02:50 3997 Dec 26 01:14 3997 Dec 29 11:31 3997 Dec 31 09:13 3998 Jan 04 14:08 3998 Jan 11 12:35 3998 Jan 13 00:48 3998 Jan 28 12:11 3998 Feb 03 06:10 3998 Feb 12 13:37 3998 Feb 20 05:59 3998 Feb 27 10:20 3998 Feb 27 11:14	0°M. 10°M41'53 18°M21'13 19°M39'58 0°水 0°G 6°G32'06 12°G46'24 10°G42'34 8°G59'09 4°G56'29 4°G17'51 4°G23'20 30°R√ 28°√10'58 26°√3'32'14 0°G 1°G25'48 21°G30'01 0°≈ 14°≈17'40 26°≈35'15 0°∀ 8°∀34'23 8°∀34'23 8°∀38'13	1.40640 AU 23°25'44 0.67950 AU 1°12'48 1°12'09 21°05'48 1.42545 AU -2°07'22
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3996 Nov 06 08:50 3996 Nov 06 12:55 3996 Nov 13 20:52 3996 Nov 14 15:56 3996 Nov 15 07:51 3996 Nov 20 06:36 3996 Dec 04 20:46 3996 Dec 22 13:16 3996 Dec 31 23:22 3997 Jan 04 14:17 3997 Jan 05 10:44 3997 Jan 10 19:06 3997 Jan 10 16:50 3997 Jan 10 18:46 3997 Jan 10 18:46 3997 Jan 20 17:54 3997 Jan 30 08:41 3997 Feb 09 09:58 3997 Feb 10 15:08 3997 Mar 01 16:00 3997 Mar 05 03:02 3997 Mar 10 03:44 3997 Mar 17 22:47 3997 Mar 18 02:56 3997 Mar 19 06:57	14°M54'57 15°M12'43 27°M36'44 28°M54'59 0°ダ 7°ダ56'04 0°℧ 22°℧555'24 28°℧31'49 27°℧21'40 26°℧43'58 20°℧23'58 20°℧31'51 20°℧25'09 14°℧13'03 12°℧11'33 17°℧51'52 0°総 1°総39'00 0°ℋ 5°ℋ34'52 13°Ж56'58 27°ℋ34'24 27°ℋ53'05 0°Ƴ	0°55'27 1.42571 AU 22°06'08 1°58'37 1°57'50 0.67978 AU 22°28'28	max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	3997 Oct 21 02:59 3997 Oct 27 04:30 3997 Oct 31 17:46 3997 Nov 01 12:57 3997 Nov 08 00:44 3997 Nov 29 08:23 3997 Dec 05 04:18 3997 Dec 15 17:23 3997 Dec 20 17:11 3997 Dec 22 11:19 3997 Dec 25 15:34 3997 Dec 26 02:50 3997 Dec 26 01:14 3997 Dec 29 11:31 3997 Dec 31 09:13 3998 Jan 04 14:08 3998 Jan 11 12:35 3998 Jan 13 00:48 3998 Jan 28 12:11 3998 Feb 03 06:10 3998 Feb 12 13:37 3998 Feb 20 05:59 3998 Feb 27 10:20 3998 Feb 27 11:14 3998 Mar 10 22:58	0°M. 10°M41'53 18°M21'13 19°M39'58 0°ズ 0°उ 6°332'06 12°346'24 10°342'34 8°359'09 4°356'29 4°37'551 4°323'20 30°Rズ 28°ズ10'58 26°ズ32'14 0°उ 1°325'48 21°330'01 0°≈ 14°≈17'40 26°≈35'15 0°Ж 8° 38'13 28° 38'13 28° 38'13	1.40640 AU 23°25'44 0.67950 AU 1°12'48 1°12'09 21°05'48 1.42545 AU -2°07'22
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3996 Nov 06 08:50 3996 Nov 06 12:55 3996 Nov 13 20:52 3996 Nov 14 15:56 3996 Nov 15 07:51 3996 Nov 20 06:36 3996 Dec 04 20:46 3996 Dec 22 13:16 3996 Dec 31 23:22 3997 Jan 04 14:17 3997 Jan 05 10:44 3997 Jan 10 19:06 3997 Jan 10 18:46 3997 Jan 10 18:46 3997 Jan 10 18:46 3997 Jan 10 18:46 3997 Jan 20 17:54 3997 Jan 30 08:41 3997 Feb 09 09:58 3997 Feb 10 15:08 3997 Mar 01 16:00 3997 Mar 05 03:02 3997 Mar 10 03:44 3997 Mar 17 22:47 3997 Mar 18 02:56 3997 Mar 19 06:57 3997 Mar 28 00:59	14°M54'57 15°M12'43 27°M36'44 28°M54'59 0°ダ 7°ダ56'04 0°G 22°G55'24 28°G31'49 27°G21'40 26°G43'58 20°G23'58 20°G31'51 20°G25'09 14°G13'03 12°G11'33 17°G51'52 0°≈ 1°≈39'00 0°升 5°升34'52 13°升56'58 27°升34'24 27°升53'05 0°个 16°个17'40	0°55'27 1.42571 AU 22°06'08 1°58'37 1°57'50 0.67978 AU 22°28'28	max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	3997 Oct 21 02:59 3997 Oct 27 04:30 3997 Oct 31 17:46 3997 Nov 01 12:57 3997 Nov 08 00:44 3997 Nov 29 08:23 3997 Dec 05 04:18 3997 Dec 15 17:23 3997 Dec 20 17:11 3997 Dec 22 11:19 3997 Dec 25 15:34 3997 Dec 26 02:50 3997 Dec 26 01:14 3997 Dec 29 11:31 3997 Dec 31 09:13 3998 Jan 04 14:08 3998 Jan 11 12:35 3998 Jan 13 00:48 3998 Jan 28 12:11 3998 Feb 03 06:10 3998 Feb 12 13:37 3998 Feb 20 05:59 3998 Feb 27 10:20 3998 Feb 27 11:14 3998 Mar 10 22:58 3998 Mar 11 14:05	0°M 10°M41'53 18°M21'13 19°M39'58 0°ダ 0°G 6°G32'06 12°G46'24 10°G42'34 8°G59'09 4°G56'29 4°G17'51 4°G23'20 30°Rダ 28°ダ10'58 26°ダ32'14 0°G 1°G25'48 21°G30'01 0°≈ 14°≈17'40 26°≈35'15 0°米 8°升38'13 28°升38'13 28°升51'59 0°Y	1.40640 AU 23°25'44 0.67950 AU 1°12'48 1°12'09 21°05'48 1.42545 AU -2°07'22
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3996 Nov 06 08:50 3996 Nov 06 12:55 3996 Nov 13 20:52 3996 Nov 14 15:56 3996 Nov 15 07:51 3996 Nov 20 06:36 3996 Dec 04 20:46 3996 Dec 22 13:16 3996 Dec 31 23:22 3997 Jan 04 14:17 3997 Jan 05 10:44 3997 Jan 10 19:06 3997 Jan 10 16:50 3997 Jan 10 18:46 3997 Jan 10 18:46 3997 Jan 20 17:54 3997 Jan 30 08:41 3997 Feb 09 09:58 3997 Feb 10 15:08 3997 Mar 01 16:00 3997 Mar 05 03:02 3997 Mar 10 03:44 3997 Mar 17 22:47 3997 Mar 18 02:56 3997 Mar 19 06:57 3997 Mar 28 00:59 3997 Apr 02 13:36	14°M54'57 15°M12'43 27°M36'44 28°M54'59 0°ダ 7°ダ56'04 0°♂ 22°♂555'24 28°♂31'49 27°♂21'40 26°♂43'58 20°♂31'51 20°♂25'09 14°♂13'03 12°♂11'33 17°♂51'52 0°≈ 1°≈39'00 0°升 5°升34'52 13°升56'58 27°升34'24 27°升53'05 0°Y 16°Y17'40 26°Y32'33	0°55'27 1.42571 AU 22°06'08 1°58'37 1°57'50 0.67978 AU 22°28'28	max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	3997 Oct 21 02:59 3997 Oct 27 04:30 3997 Oct 31 17:46 3997 Nov 01 12:57 3997 Nov 08 00:44 3997 Nov 29 08:23 3997 Dec 05 04:18 3997 Dec 15 17:23 3997 Dec 20 17:11 3997 Dec 22 11:19 3997 Dec 25 15:34 3997 Dec 26 01:14 3997 Dec 26 01:14 3997 Dec 27 11:31 3997 Dec 28 11:31 3997 Dec 29 11:31 3997 Dec 31 09:13 3998 Jan 04 14:08 3998 Jan 13 00:48 3998 Jan 13 00:48 3998 Jan 28 12:11 3998 Feb 03 06:10 3998 Feb 12 13:37 3998 Feb 20 05:59 3998 Feb 27 10:20 3998 Feb 27 10:20 3998 Feb 27 11:14 3998 Mar 10 22:58 3998 Mar 11 14:05 3998 Mar 20 10:37	0°M。 10°M41'53 18°M21'13 19°M39'58 0°水 0°G 6°G32'06 12°G46'24 10°G42'34 8°G59'09 4°G56'29 4°G17'51 4°G23'20 30°R水 28°水10'58 26°水32'14 0°G 1°G25'48 21°G30'01 0°≈ 14°≈17'40 26°≈35'15 0°米 8°X34'23 8°X34'23 8°X34'23 8°X34'23	1.40640 AU 23°25'44 0.67950 AU 1°12'48 1°12'09 21°05'48 1.42545 AU -2°07'22 2°07'21
minimum elong max. Earth dist. desc. node evening rise evening max el retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3996 Nov 06 08:50 3996 Nov 06 12:55 3996 Nov 13 20:52 3996 Nov 14 15:56 3996 Nov 15 07:51 3996 Nov 20 06:36 3996 Dec 04 20:46 3996 Dec 22 13:16 3996 Dec 31 23:22 3997 Jan 04 14:17 3997 Jan 05 10:44 3997 Jan 10 19:06 3997 Jan 10 18:46 3997 Jan 10 18:46 3997 Jan 10 18:46 3997 Jan 10 18:46 3997 Jan 20 17:54 3997 Jan 30 08:41 3997 Feb 09 09:58 3997 Feb 10 15:08 3997 Mar 01 16:00 3997 Mar 05 03:02 3997 Mar 10 03:44 3997 Mar 17 22:47 3997 Mar 18 02:56 3997 Mar 19 06:57 3997 Mar 28 00:59	14°M54'57 15°M12'43 27°M36'44 28°M54'59 0°ダ 7°ダ56'04 0°G 22°G55'24 28°G31'49 27°G21'40 26°G43'58 20°G23'58 20°G31'51 20°G25'09 14°G13'03 12°G11'33 17°G51'52 0°≈ 1°≈39'00 0°升 5°升34'52 13°升56'58 27°升34'24 27°升53'05 0°个 16°个17'40	0°55'27 1.42571 AU 22°06'08 1°58'37 1°57'50 0.67978 AU 22°28'28 1.40542 AU -1°57'18 1°57'00	max. Earth dist. evening rise desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	3997 Oct 21 02:59 3997 Oct 27 04:30 3997 Oct 31 17:46 3997 Nov 01 12:57 3997 Nov 08 00:44 3997 Nov 29 08:23 3997 Dec 05 04:18 3997 Dec 15 17:23 3997 Dec 20 17:11 3997 Dec 22 11:19 3997 Dec 25 15:34 3997 Dec 26 02:50 3997 Dec 26 01:14 3997 Dec 29 11:31 3997 Dec 31 09:13 3998 Jan 04 14:08 3998 Jan 11 12:35 3998 Jan 13 00:48 3998 Jan 28 12:11 3998 Feb 03 06:10 3998 Feb 12 13:37 3998 Feb 20 05:59 3998 Feb 27 10:20 3998 Feb 27 11:14 3998 Mar 10 22:58 3998 Mar 11 14:05	0°M 10°M41'53 18°M21'13 19°M39'58 0°ダ 0°G 6°G32'06 12°G46'24 10°G42'34 8°G59'09 4°G56'29 4°G17'51 4°G23'20 30°Rダ 28°ダ10'58 26°ダ32'14 0°G 1°G25'48 21°G30'01 0°≈ 14°≈17'40 26°≈35'15 0°米 8°升38'13 28°升38'13 28°升51'59 0°Y	1.40640 AU 23°25'44 0.67950 AU 1°12'48 1°12'09 21°05'48 1.42545 AU -2°07'22

evening set	3998 Apr 05 23:20	28° Y ′02'13		evening set	3999 Mar 20 12:46	11° Y '07'48	
inferior conj	3998 Apr 03 23:20 3998 Apr 12 13:45	23°\cdot\0213	3°13'49	inferior conj	3999 Mar 26 15:08	5°Υ50'36	3°34'12
minimum elong	3998 Apr 12 15:43 3998 Apr 12 16:20	23 1 04 49 22° Υ 58'35	3°13'24	minimum elong	3999 Mar 26 15:58	5° Υ 48'20	3°34'10
min. Earth dist.	_	22 γ 38 33 20° Υ 01'21	0.61045 AU	min. Earth dist.		2°Υ′58'28	0.63131 AU
	3998 Apr 15 18:25		0.01043 AU	IIIII. Eartii Qist.	3999 Mar 29 06:36		0.03131 AU
morning rise	3998 Apr 19 07:22	17° Y 10'46			3999 Apr 01 10:34	30° ₹	
direct	3998 Apr 26 00:58	14° ℃ 55'07		morning rise	3999 Apr 01 18:05	29°) (45'11	
desc. node	3998 Apr 26 11:20	14° Y 55'39		direct	3999 Apr 08 15:34	27°) €05'30	
morning max el	3998 May 10 06:41	22° Y 51'33	27°47'28	desc. node	3999 Apr 13 08:24	28°) 10′08	
	3998 May 16 14:44	0°8			3999 Apr 16 14:36	0° Υ	
	3998 Jun 04 21:03	Π °0		morning max el	3999 Apr 22 13:42	5° Y 03'42	27°46'54
morning set	3998 Jun 11 23:36	13° ∏ 54'21			3999 May 11 08:46	9° 8	
asc. node	3998 Jun 16 09:56	23° Ⅱ 16′01		morning set	3999 May 26 22:25	28° 8 01'38	
max. Earth dist.	3998 Jun 17 23:58	26° ∏ 42'27	1.32167 AU		3999 May 27 21:52	Π $^{\circ}0$	
				max. Earth dist.	3999 Jun 01 05:33	8° ∏ 59'32	1.32740 AU
superior conj	3998 Jun 19 07:07	29° ∏ 32'53	0°29'52	asc. node	3999 Jun 03 06:58	13° Ⅱ 24′07	
minimum elong	3998 Jun 19 05:48	29° Ⅱ 25'40	0°29'36				
	3998 Jun 19 12:04	0 \circ \mathfrak{S}		superior conj	3999 Jun 03 15:14	14° Ⅱ 08'47	0°03'38
evening rise	3998 Jun 26 03:16	14° © 26'58		minimum elong	3999 Jun 03 15:04	14° Ⅱ 07'50	0°03'35
-	3998 Jul 03 21:39	$0^{\circ}\Omega$		behind sun begin	3999 Jun 03 09:55	13° Ⅱ 40′03	
evening max el	3998 Jul 22 11:44	26° Ω 28'11	25°03'20	behind sun end	3999 Jun 03 20:13	14° ∏ 35'38	
desc. node	3998 Jul 23 10:38	27° Ω 21'23		evening rise	3999 Jun 10 15:07	29° Ⅱ 15′10	
	3998 Jul 26 17:30	0° m)		<i>5</i> 21	3999 Jun 10 23:35	0°©	
retrograde	3998 Aug 05 10:40	3° m 32'02			3999 Jun 27 23:52	$0^{\circ}\Omega$	
evening set	3998 Aug 10 22:36	2° m 23'02		evening max el	3999 Jul 04 00:48	6°Ω57'00	23°28'38
evening set	3998 Aug 15 10:04	2 11/23 02 30°RΩ		desc. node	3999 Jul 10 07:39	11° Ω 44'24	23 20 30
min. Earth dist.	Č	29° Ω 38'42	0.57437 AU		3999 Jul 17 14:45	11° 04 4724	
	3998 Aug 15 23:23			retrograde			
inferior conj	3998 Aug 18 22:50	27° Ω 39'06		evening set	3999 Jul 21 15:07	13° Ω 09'50	0.55022 ATT
minimum elong	3998 Aug 18 23:05	27° Ω 38'42	5*10'50	min. Earth dist.	3999 Jul 28 10:37	10° Ω 00'31	0.55832 AU
morning rise	3998 Aug 27 01:57	23° Ω 28'10		inferior conj	3999 Jul 30 11:10	8° Ω 48'32	
direct	3998 Aug 29 15:31	23° Ω 08'59		minimum elong	3999 Jul 30 05:21	8° Ω 57'12	4°48'30
morning max el	3998 Sep 07 14:26	27° Ω 21'56	19°07'35	morning rise	3999 Aug 07 22:01	4° Ω 54'24	
	3998 Sep 10 01:44	0° ™		direct	3999 Aug 10 18:17	4° Ω 34'30	
asc. node	3998 Sep 12 09:10	2° Mp 59'15		morning max el	3999 Aug 21 04:50	9° Ω 25'16	20°15'37
morning set	3998 Sep 24 10:52	24° Mp 19'54		asc. node	3999 Aug 30 06:14	21° Ω 12'38	
	3998 Sep 27 07:18	0∘ ⊽			3999 Sep 04 04:12	0° m y	
				morning set	3999 Sep 08 16:08	8° m 55'59	
superior conj	3998 Oct 02 17:03	10° ≙ 37'45	1°37'33				
minimum elong	3998 Oct 02 19:15	10° ≏ 48'22	1°37'24	superior conj	3999 Sep 16 07:34	24° Mp 35'09	1°43'57
max. Earth dist.	2000 0 . 00 00 02	23° ≏ 06'14	1.38558 AU	minimum elong	3999 Sep 16 08:05	24° mp 37'48	1°43'56
	3998 Oct 09 09:02					2	
evening rise	3998 Oct 09 09:02 3998 Oct 13 04:24	29° ♀ 50'55			3999 Sep 19 00:42	0∘ ರ	
evening rise		29° £ 50'55 0° IL		max. Earth dist.	•	••	1.36562 AU
evening rise desc. node	3998 Oct 13 04:24			max. Earth dist.	3999 Sep 19 00:42	0° ت	1.36562 AU
-	3998 Oct 13 04:24 3998 Oct 13 06:29	0°M			3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21	0° 亞 5° 亞 03'58	1.36562 AU
desc. node	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59	0°ጤ 10°ጤ18'42 0°፟፟፟፟፟፟፟፟፟፟፟	24°44'21		3999 Sep 19 00:42 3999 Sep 21 15:17	0° ჲ 5° ჲ 03'58 12° ჲ 19'35	1.36562 AU
desc. node	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14	0°M 10°M18'42 0°⊀ 20°⊀12'59	24°44'21	evening rise	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00	0° Ω 5° Ω 03'58 12° Ω 19'35 0° M	1.36562 AU
desc. node evening max el retrograde	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23	0°M 10°M18'42 0°⊀ 20°⊀12'59 26°⊀57'44	24°44'21	evening rise desc. node	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41	0° Ω 5° Ω03'58 12° Ω19'35 0° M 0° M46'27	
desc. node evening max el retrograde evening set	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49	0°M 10°M18'42 0°⊀ 20°⊀12'59 26°⊀757'44 24°⊀38'33	24°44'21	evening rise desc. node evening max el	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41	0° Ω 5° Ω03'58 12° Ω19'35 0° M. 0° M.46'27 0° 🖈 3° 🖈 55'42	
desc. node evening max el retrograde evening set asc. node	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23	0° M. 10° M.18'42 0° ₹ 20° ₹ 12'59 26° ₹ 57'44 24° ₹ 38'33 19° ₹ 35'13		evening rise desc. node evening max el retrograde	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36	0°	
desc. node evening max el retrograde evening set asc. node min. Earth dist.	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23 3998 Dec 09 11:04	0° M 10° M 18'42 0° 🖈 20° 🖈 12'59 26° 🖈 57'44 24° 🖈 38'33 19° 🖈 26'22	0.67575 AU	evening rise desc. node evening max el retrograde evening set	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36 3999 Nov 18 19:55	0°	25°54'46
desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23 3998 Dec 09 11:04 3998 Dec 10 09:03	0° M 10° M 18'42 0° ₹ 12'59 26° ₹ 57'44 24° ₹ 38'33 19° ₹ 26'22 18° ₹ 13'29	0.67575 AU 0°21'01	evening rise desc. node evening max el retrograde evening set min. Earth dist.	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36 3999 Nov 18 19:55 3999 Nov 23 02:49	0° Ω 5° Ω 03'58 12° Ω 19'35 0° M 0° M 46'27 0° ¾ 3° ¾ 55'42 11° ¾ 01'01 8° ¾ 28'45 3° ¾ 51'50	25°54'46 0.66853 AU
desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23 3998 Dec 09 11:04 3998 Dec 10 09:03 3998 Dec 10 08:32	0° M 10° M 18'42 0° 🖈 12'59 26° ₹ 57'44 24° ₹ 38'33 19° ₹ 35'13 19° ₹ 26'22 18° ₹ 13'29 18° ₹ 15'12	0.67575 AU	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36 3999 Nov 18 19:55 3999 Nov 23 02:49 3999 Nov 24 11:54	0° Ω 5° Ω03'58 12° Ω19'35 0° M 0° M46'27 0° ¾ 3° ¾55'42 11° ¾01'01 8° ¾28'45 3° ¾51'50 2° ¾07'57	25°54'46 0.66853 AU -0°35'36
desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23 3998 Dec 09 09:03 3998 Dec 10 09:03 3998 Dec 10 08:32 3998 Dec 15 20:21	0°M. 10°M.18'42 0°\$\star* 20°\$\star*12'59 26°\$\star*57'44 24°\$\star*38'33 19°\$\star*26'22 18°\$\star*13'29 18°\$\star*15'12 12°\$\star*12'52	0.67575 AU 0°21'01	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36 3999 Nov 18 19:55 3999 Nov 23 02:49 3999 Nov 24 11:54 3999 Nov 24 12:51	0° Ω 5° Ω03'58 12° Ω19'35 0° ጤ 0° ጤ46'27 0° ¾ 3° ¾55'42 11° ¾01'01 8° ¾28'45 3° ¾51'50 2° ¾07'57 2° ¾04'59	25°54'46 0.66853 AU -0°35'36
desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23 3998 Dec 09 11:04 3998 Dec 10 09:03 3998 Dec 10 08:32 3998 Dec 15 20:21 3998 Dec 19 12:23	0°M. 10°M.18'42 0°\$\star*\) 20°\$\star*\] 20°\$\star*\] 26°\$\star*\] 24°\$\star*\] 38'33 19°\$\star*\] 35'13 19°\$\star*\] 18°\$\star*\] 18°\$\star*\] 18'\$\star*\] 12'52 10°\$\star*\] 55'31	0.67575 AU 0°21'01 0°20'48	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36 3999 Nov 18 19:55 3999 Nov 23 02:49 3999 Nov 24 11:54 3999 Nov 24 12:51 3999 Nov 26 05:27	0° Ω 5° Ω03'58 12° Ω19'35 0° ጤ 0° ጤ46'27 0° ¾ 3° ¾55'42 11° ¾01'01 8° ¾28'45 3° ¾51'50 2° ¾07'57 2° ¾04'59 0° ¾00'35	25°54'46 0.66853 AU -0°35'36
desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23 3998 Dec 10 09:03 3998 Dec 10 08:32 3998 Dec 10 08:32 3998 Dec 15 20:21 3998 Dec 19 12:23 3998 Dec 27 00:39	0°M. 10°M.18'42 0°\$\star*\) 20°\$\star*\] 20°\$\star*\] 26°\$\star*\] 24°\$\star*\] 38'33 19°\$\star*\] 35'13 19°\$\star*\] 18°\$\star*\] 18'\$\star*\] 18'\$\star*\] 12'52 10°\$\star*\] 15'\$\star*\] 15'\$\star*\] 10'57	0.67575 AU 0°21'01	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36 3999 Nov 18 19:55 3999 Nov 23 02:49 3999 Nov 24 11:54 3999 Nov 24 12:51 3999 Nov 26 05:27 3999 Nov 26 05:39	0° Ω 5° Ω03'58 12° Ω19'35 0° ጤ 0° ጤ46'27 0° ጃ 3° ጃ 55'42 11° ጃ 01'01 8° ጃ 28'45 3° ጃ 51'50 2° ጃ 04'59 0° ጃ 00'35 30° Rጤ	25°54'46 0.66853 AU -0°35'36
desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23 3998 Dec 09 11:04 3998 Dec 10 09:03 3998 Dec 10 08:32 3998 Dec 15 20:21 3998 Dec 19 12:23 3998 Dec 27 00:39 3999 Jan 07 12:34	0°M 10°M18'42 0°ズ 20°ズ12'59 26°ズ57'44 24°ズ38'33 19°ズ26'22 18°ズ13'29 18°ズ15'12 12°ズ12'52 10°ズ55'31 15°ズ10'57 0°る	0.67575 AU 0°21'01 0°20'48	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36 3999 Nov 18 19:55 3999 Nov 23 02:49 3999 Nov 24 12:51 3999 Nov 24 12:51 3999 Nov 26 05:27 3999 Nov 26 05:39 3999 Nov 30 06:10	0° Ω 5° Ω03'58 12° Ω19'35 0° ጤ 0° ጤ46'27 0° 🖈 3° ¾55'42 11° ¾01'01 8° ¾28'45 3° ¾51'50 2° ¾07'57 2° ¾04'59 0° ¾00'35 30° R ጤ 26° ጤ16'11	25°54'46 0.66853 AU -0°35'36
desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23 3998 Dec 09 11:04 3998 Dec 10 09:03 3998 Dec 10 08:32 3998 Dec 15 20:21 3998 Dec 15 20:21 3998 Dec 17 12:23 3998 Dec 27 00:39 3999 Jan 07 12:34 3999 Jan 15 09:14	0°M 10°M18'42 0°ダ 20°ダ12'59 26°ダ57'44 24°ダ38'33 19°ダ26'22 18°ダ13'29 18°ダ15'12 12°ダ12'52 10°ダ55'31 15°ダ10'57 0°उ 11°ጜ42'09	0.67575 AU 0°21'01 0°20'48	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36 3999 Nov 18 19:55 3999 Nov 23 02:49 3999 Nov 24 11:54 3999 Nov 24 12:51 3999 Nov 26 05:27 3999 Nov 26 05:39 3999 Nov 30 06:10 3999 Dec 03 11:06	0° Ω 5° Ω03'58 12° Ω19'35 0° ጤ 0° ጤ46'27 0° ¾ 3° ¾55'42 11° ¾01'01 8° ¾28'45 3° ¾51'50 2° ¾07'57 2° ¾00'35 30° R ጤ 26° ጤ16'11 25° ጤ17'17	25°54'46 0.66853 AU -0°35'36 0°35'11
desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23 3998 Dec 09 11:04 3998 Dec 10 09:03 3998 Dec 10 08:32 3998 Dec 15 20:21 3998 Dec 15 20:21 3998 Dec 27 00:39 3999 Jan 07 12:34 3999 Jan 15 09:14 3999 Jan 22 09:42	0°M. 10°M.18'42 0° ₹ 20° ₹ 12'59 26° ₹ 57'44 24° ₹ 38'33 19° ₹ 35'13 19° ₹ 26'22 18° ₹ 13'29 18° ₹ 15'12 12° ₹ 12'52 10° ₹ 55'31 15° ₹ 10'57 0° ₹ 11° ₹ 42'09 22° ₹ 26'32	0.67575 AU 0°21'01 0°20'48	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36 3999 Nov 18 19:55 3999 Nov 23 02:49 3999 Nov 24 11:54 3999 Nov 24 12:51 3999 Nov 26 05:27 3999 Nov 26 05:39 3999 Nov 30 06:10 3999 Dec 03 11:06 3999 Dec 10 08:09	0° \(\Omega\) 5° \(\Omega\) 12° \(\Omega\) 0° \(\mathbb{M}\) 0° \(\mathbb{M}\) 46'27 0° \(\mathbb{A}'\) 3° \(\mathbb{A}'\) 55'42 11° \(\mathbb{A}'\) 110' \(\mathbb{A}'\) 28' \(\mathbb{A}'\) 29' \(\mathbb{A}'\) 26' \(\mathbb{M}\) 16' 11 25' \(\mathbb{M}\) 17' 17 29' \(\mathbb{M}\) 05' 55	25°54'46 0.66853 AU -0°35'36
desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23 3998 Dec 09 11:04 3998 Dec 10 09:03 3998 Dec 10 09:03 3998 Dec 15 20:21 3998 Dec 15 20:21 3998 Dec 27 00:39 3999 Jan 07 12:34 3999 Jan 15 09:14 3999 Jan 27 06:33	0°M. 10°M.18'42 0° ₹ 20° ₹ 12'59 26° ₹ 57'44 24° ₹ 38'33 19° ₹ 26'22 18° ₹ 13'29 18° ₹ 15'12 12° ₹ 12'52 10° ₹ 55'31 15° ₹ 10'57 0° ₹ 11° ₹ 42'09 22° ₹ 26'32 0° ≈	0.67575 AU 0°21'01 0°20'48 19°54'54	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36 3999 Nov 18 19:55 3999 Nov 23 02:49 3999 Nov 24 11:54 3999 Nov 24 12:51 3999 Nov 26 05:27 3999 Nov 26 05:39 3999 Nov 30 06:10 3999 Dec 03 11:06 3999 Dec 10 08:09 3999 Dec 11 04:57	0° Ω 5° Ω03'58 12° Ω19'35 0° M 0° M.46'27 0° 🖈 3° ₹'55'42 11° ₹'01'01 8° ₹'28'45 3° ₹'51'50 2° ₹'07'57 2° ₹'04'59 0° ₹'00'35 30° RM 26° M.16'11 25° M.17'17 29° M.05'55 0° ₹'	25°54'46 0.66853 AU -0°35'36 0°35'11
desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23 3998 Dec 09 11:04 3998 Dec 10 09:03 3998 Dec 10 08:32 3998 Dec 15 20:21 3998 Dec 15 20:21 3998 Dec 27 00:39 3999 Jan 07 12:34 3999 Jan 15 09:14 3999 Jan 22 09:42	0°M. 10°M.18'42 0° ₹ 20° ₹ 12'59 26° ₹ 57'44 24° ₹ 38'33 19° ₹ 26'22 18° ₹ 13'29 18° ₹ 15'12 12° ₹ 12'52 10° ₹ 55'31 15° ₹ 10'57 0° ₹ 11° ₹ 42'09 22° ₹ 26'32 0° ≈	0.67575 AU 0°21'01 0°20'48	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36 3999 Nov 18 19:55 3999 Nov 23 02:49 3999 Nov 24 11:54 3999 Nov 24 12:51 3999 Nov 26 05:27 3999 Nov 26 05:39 3999 Nov 30 06:10 3999 Dec 03 11:06 3999 Dec 11 04:57 3999 Dec 31 21:08	0° Ω 5° Ω03'58 12° Ω19'35 0° ጤ 0° ጤ46'27 0° ¾ 3° ¾55'42 11° ¾01'01 8° ¾28'45 3° ¾51'50 2° ¾07'57 2° ¾04'59 0° ¾00'35 30° R ጤ 26° ጤ16'11 25° ጤ17'17 29° ጤ05'55 0° ¾ 0° ጜ	25°54'46 0.66853 AU -0°35'36 0°35'11
desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23 3998 Dec 10 09:03 3998 Dec 10 08:32 3998 Dec 15 20:21 3998 Dec 15 20:21 3998 Dec 19 12:23 3998 Dec 27 00:39 3999 Jan 07 12:34 3999 Jan 15 09:14 3999 Jan 22 09:42 3999 Jan 27 06:33 3999 Feb 02 16:17	0°M. 10°M.18'42 0° ₹ 20° ₹ 12'59 26° ₹ 57'44 24° ₹ 38'33 19° ₹ 26'22 18° ₹ 13'29 18° ₹ 15'12 12° ₹ 12'52 10° ₹ 55'31 15° ₹ 10'57 0° ₹ 11° ₹ 42'09 22° ₹ 26'32 0° ≈ 10° ≈ 06'15	0.67575 AU 0°21'01 0°20'48 19°54'54	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36 3999 Nov 18 19:55 3999 Nov 23 02:49 3999 Nov 24 11:54 3999 Nov 24 12:51 3999 Nov 26 05:27 3999 Nov 26 05:27 3999 Nov 30 06:10 3999 Dec 03 11:06 3999 Dec 10 08:09 3999 Dec 11 04:57 3999 Dec 31 21:08 4000 Jan 01 16:35	0° Ω 5° Ω03'58 12° Ω19'35 0° M 0° M.46'27 0° ¾ 3° ¾55'42 11° ¾01'01 8° ¾28'45 3° ¾51'50 2° ¾07'57 2° ¾04'59 0° ¾00'35 30° RM 26° M.16'11 25° M.17'17 29° M.05'55 0° ¾ 0° ጜ 1° ጜ 16'01	25°54'46 0.66853 AU -0°35'36 0°35'11
desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23 3998 Dec 09 11:04 3998 Dec 10 09:03 3998 Dec 10 09:03 3998 Dec 15 20:21 3998 Dec 15 20:21 3998 Dec 27 00:39 3999 Jan 07 12:34 3999 Jan 15 09:14 3999 Jan 27 06:33	0°M. 10°M.18'42 0° ₹ 20° ₹ 12'59 26° ₹ 57'44 24° ₹ 38'33 19° ₹ 26'22 18° ₹ 13'29 18° ₹ 15'12 12° ₹ 12'52 10° ₹ 55'31 15° ₹ 10'57 0° ₹ 11° ₹ 42'09 22° ₹ 26'32 0° ≈	0.67575 AU 0°21'01 0°20'48 19°54'54	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36 3999 Nov 18 19:55 3999 Nov 23 02:49 3999 Nov 24 11:54 3999 Nov 24 12:51 3999 Nov 26 05:27 3999 Nov 26 05:39 3999 Nov 30 06:10 3999 Dec 03 11:06 3999 Dec 11 04:57 3999 Dec 31 21:08	0° Ω 5° Ω03'58 12° Ω19'35 0° M 0° M.46'27 0° ¾ 3° ¾55'42 11° ¾'01'01 8° ¾28'45 3° ¾'51'50 2° ¾'04'59 0° ¾'00'35 30° RM 26° M.16'11 25° M.17'17 29° M.05'55 0° ¾ 0° ጜ 1° ጜ16'01 2° ጜ09'28	25°54'46 0.66853 AU -0°35'36 0°35'11 18°58'49
desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23 3998 Dec 10 09:03 3998 Dec 10 08:32 3998 Dec 15 20:21 3998 Dec 15 20:21 3998 Dec 19 12:23 3998 Dec 27 00:39 3999 Jan 07 12:34 3999 Jan 15 09:14 3999 Jan 22 09:42 3999 Jan 27 06:33 3999 Feb 02 16:17	0°M. 10°M.18'42 0°ズ 20°ズ12'59 26°ズ57'44 24°ズ38'33 19°ズ26'22 18°ズ13'29 18°ズ15'12 12°ズ12'52 10°ズ55'31 15°ズ10'57 0°℧ 11°℧42'09 22°℧26'32 0°≈ 10°≈06'15 18°≈25'00 18°≈04'53	0.67575 AU 0°21'01 0°20'48 19°54'54 1.44110 AU -2°01'32	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36 3999 Nov 18 19:55 3999 Nov 23 02:49 3999 Nov 24 11:54 3999 Nov 24 12:51 3999 Nov 26 05:27 3999 Nov 26 05:27 3999 Nov 30 06:10 3999 Dec 03 11:06 3999 Dec 10 08:09 3999 Dec 11 04:57 3999 Dec 31 21:08 4000 Jan 01 16:35	0° Ω 5° Ω03'58 12° Ω19'35 0° M 0° M.46'27 0° ¾ 3° ¾55'42 11° ¾01'01 8° ¾28'45 3° ¾51'50 2° ¾07'57 2° ¾04'59 0° ¾00'35 30° RM 26° M.16'11 25° M.17'17 29° M.05'55 0° ¾ 0° ጜ 1° ጜ 16'01	25°54'46 0.66853 AU -0°35'36 0°35'11
desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23 3998 Dec 10 09:03 3998 Dec 10 08:32 3998 Dec 15 20:21 3998 Dec 15 20:21 3998 Dec 17 20:39 3999 Jan 07 12:34 3999 Jan 15 09:14 3999 Jan 22 09:42 3999 Jan 27 06:33 3999 Feb 02 16:17	0°M. 10°M.18'42 0°ズ 20°ズ12'59 26°ズ57'44 24°ズ38'33 19°ズ26'22 18°ズ13'29 18°ズ15'12 12°ズ12'52 10°ズ55'31 15°ズ10'57 0°℧ 11°℧42'09 22°℧26'32 0°≈ 10°≈06'15	0.67575 AU 0°21'01 0°20'48 19°54'54 1.44110 AU -2°01'32	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36 3999 Nov 18 19:55 3999 Nov 23 02:49 3999 Nov 24 11:54 3999 Nov 24 12:51 3999 Nov 26 05:27 3999 Nov 26 05:27 3999 Nov 30 06:10 3999 Dec 03 11:06 3999 Dec 03 11:06 3999 Dec 11 04:57 3999 Dec 31 21:08 4000 Jan 01 16:35 4000 Jan 02 06:16	0° Ω 5° Ω03'58 12° Ω19'35 0° M 0° M.46'27 0° ¾ 3° ¾55'42 11° ¾'01'01 8° ¾28'45 3° ¾'51'50 2° ¾'04'59 0° ¾'00'35 30° RM 26° M.16'11 25° M.17'17 29° M.05'55 0° ¾ 0° ጜ 1° ጜ16'01 2° ጜ09'28	25°54'46 0.66853 AU -0°35'36 0°35'11 18°58'49
desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23 3998 Dec 10 09:03 3998 Dec 10 08:32 3998 Dec 10 08:32 3998 Dec 15 20:21 3998 Dec 15 20:21 3998 Dec 17 12:23 3998 Dec 27 00:39 3999 Jan 07 12:34 3999 Jan 15 09:14 3999 Jan 22 09:42 3999 Jan 27 06:33 3999 Feb 02 16:17	0°M. 10°M.18'42 0° 20° 20° 27:12'59 26° 27:57'44 24° 23:33:19° 26'22 18° 21:32'9 18° 26'12'52 10° 25:31 15° 21:0'57 0° 311° 342'09 22° 326'32 0° 810° 806'15 18° 825'00 18° 804'53 0° 10° 10° 35'06	0.67575 AU 0°21'01 0°20'48 19°54'54 1.44110 AU -2°01'32	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36 3999 Nov 18 19:55 3999 Nov 23 02:49 3999 Nov 24 11:54 3999 Nov 24 12:51 3999 Nov 26 05:27 3999 Nov 26 05:27 3999 Nov 30 06:10 3999 Dec 03 11:06 3999 Dec 03 11:06 3999 Dec 11 04:57 3999 Dec 31 21:08 4000 Jan 01 16:35 4000 Jan 02 06:16	0° Ω 5° Ω03'58 12° Ω19'35 0° M 0° M.46'27 0° ¾ 3° ¾55'42 11° ¾'01'01 8° ¾28'45 3° ¾'51'50 2° ¾'04'59 0° ¾'00'35 30° RM 26° M.16'11 25° M.17'17 29° M.05'55 0° ¾ 0° ጜ 1° ጜ16'01 2° ጜ09'28	25°54'46 0.66853 AU -0°35'36 0°35'11 18°58'49
desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23 3998 Dec 10 09:03 3998 Dec 10 08:32 3998 Dec 10 08:32 3998 Dec 15 20:21 3998 Dec 15 20:21 3998 Dec 17 12:23 3998 Dec 19 12:23 3998 Dec 19 12:23 3998 Dec 19 12:23 3999 Jan 07 12:34 3999 Jan 15 09:14 3999 Jan 22 09:42 3999 Jan 27 06:33 3999 Feb 02 16:17	0°M. 10°M.18'42 0° 20° 20° 27:12'59 26° 27:57'44 24° 23:33:19° 26'22 18° 27:13'29 18° 27:12'52 10° 27:55'31 15° 27:10'57 0° 31° 342'09 22° 326'32 0° 20° 10° 20'15 18° 25'00 18° 20'53 0° 36' 18° 25'00 18° 20'53 0° 36' 18° 25'00	0.67575 AU 0°21'01 0°20'48 19°54'54 1.44110 AU -2°01'32	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist.	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36 3999 Nov 18 19:55 3999 Nov 24 12:51 3999 Nov 24 12:51 3999 Nov 26 05:27 3999 Nov 26 05:27 3999 Nov 26 05:39 3999 Nov 30 06:10 3999 Dec 03 11:06 3999 Dec 10 08:09 3999 Dec 11 04:57 3999 Dec 31 21:08 4000 Jan 01 16:35 4000 Jan 02 06:16 4000 Jan 16 08:49	0° Ω 5° Ω03'58 12° Ω19'35 0° M 0° M46'27 0° ¾ 3° ¾55'42 11° ¾'01'01 8° ¾28'45 3° ¾'51'50 2° ¾'04'59 0° ¾'00'35 30° RM 26° M16'11 25° M17'17 29° M05'55 0° ¾ 0° ♂ 1° ♂ 16'01 2° ♂ 09'28 24° ♂ 14'21	25°54'46 0.66853 AU -0°35'36 0°35'11 18°58'49 1.45041 AU -1°36'15
desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23 3998 Dec 09 11:04 3998 Dec 10 09:03 3998 Dec 10 08:32 3998 Dec 15 20:21 3998 Dec 15 20:21 3998 Dec 27 00:39 3999 Jan 07 12:34 3999 Jan 15 09:14 3999 Jan 22 09:42 3999 Jan 27 06:33 3999 Feb 02 16:17 3999 Feb 07 20:15 3999 Feb 07 15:18 3999 Feb 14 20:39 3999 Feb 21 02:31	0°M. 10°M.18'42 0° 20° 20° 27:12'59 26° 27:57'44 24° 23:33:19° 26'22 18° 21:32'9 18° 26'12'52 10° 25:31 15° 21:0'57 0° 311° 342'09 22° 326'32 0° 810° 806'15 18° 825'00 18° 804'53 0° 10° 10° 35'06	0.67575 AU 0°21'01 0°20'48 19°54'54 1.44110 AU -2°01'32	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist.	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36 3999 Nov 18 19:55 3999 Nov 23 02:49 3999 Nov 24 12:51 3999 Nov 24 12:51 3999 Nov 26 05:27 3999 Nov 26 05:27 3999 Nov 30 06:10 3999 Dec 03 11:06 3999 Dec 10 08:09 3999 Dec 11 04:57 3999 Dec 31 21:08 4000 Jan 01 16:35 4000 Jan 02 06:16 4000 Jan 16 08:49	0° Ω 5° Ω03'58 12° Ω19'35 0° M 0° M.46'27 0° ¾ 3° ¾55'42 11° ¾01'01 8° ¾28'45 3° ¾51'50 2° ¾07'57 2° ¾04'59 0° ¾00'35 30° RM 26° M.16'11 25° M.17'17 29° M.05'55 0° ¾ 0° ♂ 1° ♂ 16'01 2° ♂ 09'28 24° ♂ 14'21	25°54'46 0.66853 AU -0°35'36 0°35'11 18°58'49 1.45041 AU -1°36'15
desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23 3998 Dec 09 11:04 3998 Dec 10 09:03 3998 Dec 10 08:32 3998 Dec 15 20:21 3998 Dec 15 20:21 3998 Dec 17 12:23 3998 Dec 19 12:23 3998 Dec 19 12:23 3999 Dec 27 00:39 3999 Jan 07 12:34 3999 Jan 15 09:14 3999 Jan 22 09:42 3999 Jan 27 06:33 3999 Feb 02 16:17 3999 Feb 07 20:15 3999 Feb 07 15:18 3999 Feb 14 20:39 3999 Feb 21 02:31 3999 Mar 04 17:39	0°M. 10°M.18'42 0°ズ 20°ズ12'59 26°ズ57'44 24°ズ38'33 19°ズ26'22 18°ズ13'29 18°ズ15'12 12°ズ12'52 10°ズ55'31 15°ズ10'57 0°उ 11°उ42'09 22°उ26'32 0°≈ 10°≈06'15 18°≈25'00 18°≈04'53 0°升	0.67575 AU 0°21'01 0°20'48 19°54'54 1.44110 AU -2°01'32	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist.	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36 3999 Nov 18 19:55 3999 Nov 24 12:51 3999 Nov 24 12:51 3999 Nov 26 05:27 3999 Nov 26 05:27 3999 Nov 30 06:10 3999 Dec 03 11:06 3999 Dec 10 08:09 3999 Dec 11 04:57 3999 Dec 31 21:08 4000 Jan 01 16:35 4000 Jan 02 06:16 4000 Jan 16 08:49	0° Ω 5° Ω03'58 12° Ω19'35 0° M 0° M.46'27 0° 🖈 3° ※55'42 11° ※01'01 8° ※28'45 3° ※55'50 2° ※07'57 2° ※00'35 30° RM 26° M.16'11 25° M.17'17 29° M.05'55 0° ※ 0° ♂ 1° ♂ 16'01 2° ♂ 09'28 24° ♂ 14'21 27° ♂ 16'45 26° ♂ 40'38	25°54'46 0.66853 AU -0°35'36 0°35'11 18°58'49 1.45041 AU -1°36'15
desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	3998 Oct 13 04:24 3998 Oct 13 06:29 3998 Oct 19 09:59 3998 Nov 01 09:08 3998 Nov 17 17:14 3998 Nov 29 07:23 3998 Dec 04 20:49 3998 Dec 09 08:23 3998 Dec 09 11:04 3998 Dec 10 09:03 3998 Dec 10 09:03 3998 Dec 15 20:21 3998 Dec 15 20:21 3998 Dec 27 00:39 3999 Jan 07 12:34 3999 Jan 15 09:14 3999 Jan 27 06:33 3999 Feb 02 16:17 3999 Feb 07 20:15 3999 Feb 07 15:18 3999 Feb 14 20:39 3999 Feb 14 20:39 3999 Mar 04 17:39 3999 Mar 07 07:40	0°M. 10°M.18'42 0°ズ 20°ズ12'59 26°ズ57'44 24°ズ38'33 19°ズ26'22 18°ズ13'29 18°ズ15'12 12°ズ12'52 10°ズ55'31 15°ズ10'57 0°उ 11°उ42'09 22°उ26'32 0°≈ 10°≈06'15 18°≈25'00 18°≈04'53 0°升 10°升35'06 0°介 3°介46'34	0.67575 AU 0°21'01 0°20'48 19°54'54 1.44110 AU -2°01'32 2°01'19	evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node max. Earth dist. superior conj minimum elong	3999 Sep 19 00:42 3999 Sep 21 15:17 3999 Sep 25 12:21 3999 Oct 05 19:25 3999 Oct 06 07:00 3999 Oct 27 11:41 3999 Oct 31 05:41 3999 Nov 12 16:36 3999 Nov 18 19:55 3999 Nov 24 12:51 3999 Nov 24 12:51 3999 Nov 26 05:27 3999 Nov 26 05:27 3999 Nov 30 06:10 3999 Dec 03 11:06 3999 Dec 10 08:09 3999 Dec 11 04:57 3999 Dec 31 21:08 4000 Jan 01 16:35 4000 Jan 02 06:16 4000 Jan 18 07:08 4000 Jan 18 07:08 4000 Jan 17 21:58 4000 Jan 20 00:28	0° £ 5° £03'58 12° £19'35 0° M. 0° M.46'27 0° ¾ 3° ¾55'42 11° ¾01'01 8° ¾28'45 3° ¾51'50 2° ¾07'57 2° ¾04'59 0° ¾00'35 30° RM. 26° M.16'11 25° M.17'17 29° M.05'55 0° ¾ 0° ♂ 1° ♂16'01 2° ♂09'28 24° ♂14'21 27° ♂16'45 26° ♂40'38 0° ≈	25°54'46 0.66853 AU -0°35'36 0°35'11 18°58'49 1.45041 AU -1°36'15

1-	4000 E-L 22 04.42	210 1145		1-	4001 E-L 00 01.47	70 W 50140	
asc. node	4000 Feb 22 04:43	21°) (21'45	1002 (110	asc. node	4001 Feb 08 01:47	7°) (58'48	
evening max el	4000 Feb 22 16:48	21°) 53'14	18°36'10	retrograde	4001 Feb 12 03:04	9° ∺ 25′23	
retrograde	4000 Feb 29 06:47	25°) €31'14		evening set	4001 Feb 15 13:40	8° ¥ 16′09	
evening set	4000 Mar 03 10:31	24° ∺ 35′01		inferior conj	4001 Feb 21 02:07	2° ∺ 24'49	3°21'20
inferior conj	4000 Mar 09 04:26	18° ¥ 59'38	3°35'06	minimum elong	4001 Feb 21 00:17	2°) 30′45	3°21'04
minimum elong	4000 Mar 09 03:41	19°) €01'53	3°35'04	min. Earth dist.	4001 Feb 22 10:49	0°) 39′18	0.66295 AU
min. Earth dist.	4000 Mar 11 04:20	16° ¥ 36′01	0.64911 AU		4001 Feb 22 23:14	30° ₹ ≈	
morning rise	4000 Mar 14 20:20	12°) √ 48′22		morning rise	4001 Feb 26 10:36	26° ≈ 11'02	
direct	4000 Mar 21 13:34	9°) 58'14		direct	4001 Mar 04 18:02	23° ≈ 23'33	
desc. node	4000 Mar 30 05:26	13°) 35'32			4001 Mar 16 11:25	0° ∀	
morning max el	4000 Apr 03 23:29	17°) 49'01	27°11'38	desc. node	4001 Mar 17 02:29	0° ¥ 37'01	
3	4000 Apr 14 04:36	$0^{\circ}\Upsilon$		morning max el	4001 Mar 17 09:23	0°) 54′20	26°08'47
	4000 May 03 06:18	0°8		8	4001 Apr 08 04:52	0°Υ	
morning set	4000 May 09 12:10	11° 8 38'46		morning set	4001 Apr 22 13:02	24°Υ34'16	
max. Earth dist.	4000 May 14 02:31	20° 8 48'25	1.33764 AU	morning set	4001 Apr 25 09:59	0°8	
max. Lattii dist.	4000 May 14 02.51	20 04023	1.55704 AC	max. Earth dist.	4001 Apr 26 12:00	_	1.35242 AU
gumariar agni	4000 May 17, 19,27	28° 8 25'54	0024142	max. Earth dist.	4001 Apr 20 12.00	2 00337	1.33242 AU
superior conj	4000 May 17 18:37				400134 01 14 40	100 4 1710 5	0052152
minimum elong	4000 May 17 19:54	28° 8 32'40	0°24'27	superior conj	4001 May 01 14:49	12° 8 17'05	
_	4000 May 18 12:27	0°II		minimum elong	4001 May 01 17:42	12° 8 31'46	0°53'20
asc. node	4000 May 20 04:01	3° Ⅱ 29'54		asc. node	4001 May 07 01:03	23° 8 28'59	
evening rise	4000 May 25 01:59	13° Ⅱ 55'54		evening rise	4001 May 09 09:49	28° 8 22'28	
	4000 Jun 02 06:09	0 \circ ∞			4001 May 10 04:51	Π \circ 0	
evening max el	4000 Jun 14 17:08	17° 5 24'26	21°52'55	evening max el	4001 May 27 19:48	28° Ⅲ 20′52	20°29'08
desc. node	4000 Jun 26 04:40	23° © 35'37			4001 May 29 16:01	0 \circ \odot	
retrograde	4000 Jun 27 07:39	23° 5 38'34		retrograde	4001 Jun 07 20:50	3° 5 544'25	
evening set	4000 Jun 29 23:49	23° © 22'32		evening set	4001 Jun 09 21:00	3° © 34'27	
inferior conj	4000 Jul 09 08:10	19° © 19'07	-3°37'23	desc. node	4001 Jun 13 01:40	2°541'06	
minimum elong	4000 Jul 08 23:39	19° © 31'01	3°35'00		4001 Jun 18 10:03	30°R Ⅱ	
min. Earth dist.	4000 Jul 08 21:03	19° © 34'40	0.54935 AU	inferior conj	4001 Jun 19 02:06	29° ∏ 36'47	-1°46'26
morning rise	4000 Jul 18 01:00	15° © 27'33	0.54755710	minimum elong	4001 Jun 18 21:06	29° ∏ 44'02	1°44'37
direct	4000 Jul 21 06:12	15° © 04'47		min. Earth dist.	4001 Jun 20 09:08	29° П 44°02 28° П 51'46	0.54968 AU
			21942125			25° I I26'56	0.54908 AU
morning max el	4000 Aug 02 07:30	20°543'30	21°43'35	morning rise	4001 Jun 27 20:15		
_	4000 Aug 10 00:59	0°N		direct	4001 Jul 01 15:57	24° ∏ 55'25	
asc. node	4000 Aug 16 03:17	10° Ω 04'02			4001 Jul 13 11:04	0° ©	
morning set	4000 Aug 23 01:22	23° Ω 43'35		morning max el	4001 Jul 15 01:05	1° 5 524'22	23°24'41
	4000 Aug 26 00:58	O° m y		asc. node	4001 Aug 03 00:19	29° © 23'59	
					4001 Aug 03 07:38	0 $^{\circ}$ Ω	
superior conj	4000 Aug 30 07:21	9° № 00'07	1°42'46	morning set	4001 Aug 07 12:42	8° Ω 37'13	
minimum elong	4000 Aug 30 06:29	8° m 55'33	1°42'43				
max. Earth dist.	4000 Sep 03 04:05	16° ₩ 57'32	1.34846 AU	superior conj	4001 Aug 14 13:22	23° Ω 43'17	1°35'16
evening rise	4000 Sep 07 13:27	25° m 36'43		minimum elong	4001 Aug 14 11:33	23° Ω 33′29	1°35'07
	4000 Sep 09 21:14	0∘ ⊽		max. Earth dist.	4001 Aug 17 01:42	29° Ω 04'55	1.33518 AU
desc. node	4000 Sep 22 04:01	20° £ 57'26			4001 Aug 17 12:08	0° m)	
	4000 Sep 28 06:01	0°M		evening rise	4001 Aug 22 03:28	9° m)31'13	
evening max el	4000 Oct 12 18:12	17°M33'24	26°49'28		4001 Sep 02 06:48	0∘ ⊽	
retrograde	4000 Oct 25 20:30	24°M49'26	20 1720	desc. node	4001 Sep 09 01:01	ა – 10° ჲ 44'14	
evening set	4000 Oct 23 20:30 4000 Nov 01 12:26	22°M08'58		desc. Hode	4001 Sep 24 06:50	0°M	
•	4000 Nov 01 12:20 4000 Nov 05 12:29		0.65781 AU	avanina may al		0°M56'43	27921110
min. Earth dist.		18°M07'58		evening max el	4001 Sep 25 06:08		27°21'18
inferior conj	4000 Nov 07 09:21	15°M57'04		retrograde	4001 Oct 08 18:41	8°M15'14	
minimum elong	4000 Nov 07 12:01	15°M49'17	1°34'34	evening set	4001 Oct 15 19:51	5°M34'43	
asc. node	4000 Nov 12 02:31	11°M10'39		min. Earth dist.	4001 Oct 19 14:00	2°M08'14	
morning rise	4000 Nov 13 12:24	10°M16'58		inferior conj	4001 Oct 21 23:04	29° ≏ 36′26	-2°37'10
direct	4000 Nov 16 08:17	9°M32'49		minimum elong	4001 Oct 22 03:29	29° ≏ 24'39	2°35'31
morning max el	4000 Nov 22 21:25	13°M05'27	18°18'50		4001 Oct 21 14:15	30° ŖΩ	
	4000 Dec 04 23:57	0° ∡ ¹		morning rise	4001 Oct 28 12:22	24° ≏ 10'54	
morning set	4000 Dec 12 02:49	11° ∡ ¹29'19		asc. node	4001 Oct 29 23:32	23° ≗ 43'45	
desc. node	4000 Dec 19 03:18	22° ∡ ¹46'55		direct	4001 Oct 31 01:36	23° △ 37'40	
	4000 Dec 23 16:17	0° ට		morning max el	4001 Nov 06 13:42	27° ჲ 03'32	17°55'49
		-		5	4001 Nov 09 03:47	0°M	
superior conj	4000 Dec 27 09:27	5° る 51'32	-0°54'30	morning set	4001 Nov 23 17:44	23°M07'13	
minimum elong	4000 Dec 27 02:40	5° පි 24'50			4001 Nov 27 19:36	23 11 0 07 13	
max. Earth dist.	4000 Dec 27 02:40 4000 Dec 29 03:57	8° る 38'27	1.45244 AU	desc. node	4001 Nov 27 19:30 4001 Dec 06 00:20	13° ∡ 31'09	
man. Latui Uist.			1.4344 AU	uese. Hout	TOUL DEC UC UU.20	12 8.2109	
arraniei	4001 Jan 11 19:25	0°≈ 1°2212122		aumani '	4001 D 07 00 14	150.707140	0006152
evening rise	4001 Jan 12 14:12	1°≈13'32	0.0	superior conj	4001 Dec 07 00:14	15° × 707'48	
greatest brilliancy	4001 Jan 23 16:04	18°≈29'34	-0.8m	minimum elong	4001 Dec 06 23:26	15° ∡ 04'32	U~U6'46
	4001 Jan 31 13:33	0°) (behind sun begin	4001 Dec 06 14:03	14° ₹ 26'42	
evening max el	4001 Feb 05 01:26	5°) €23'00	19°17'10	behind sun end	4001 Dec 07 08:48	15° ∡ ¹42'20	

max. Earth dist.	4001 Dec 11 22:30 4001 Dec 16 09:14	23° ҂ 00'20 0° ප	1.44714 AU	dasa nada	4002 Nov 20 06:38	0° ₰ 4° ₰ 18'17	
evening rise	4001 Dec 16 09:14 4001 Dec 23 03:30	0°る 10°る28'34		desc. node max. Earth dist.	4002 Nov 22 21:21 4002 Nov 24 14:14	4°×'18'17 7°× 7 '04'28	1.43516 AU
evening rise	4001 Dec 25 03:30 4002 Jan 05 00:39	10 ⊙ 28 34		evening rise	4002 Nov 24 14:14 4002 Dec 02 13:49	19° х 42'54	1.43310 AU
greatest brilliancy	4002 Jan 06 17:12	2°≈29'30	-0.6m	evening rise	4002 Dec 02 13:49 4002 Dec 09 07:18	0°ਰ	
evening max el	4002 Jan 19 05:15	18°≈54'39	20°13'37		4002 Dec 30 21:11	0° ≈	
asc. node	4002 Jan 25 22:48	23°≈23'17	20 13 37	evening max el	4003 Jan 02 03:39	2°≈27'57	21°22'35
retrograde	4002 Jan 27 01:05	23°≈29'49		retrograde	4003 Jan 10 22:43	7°≈41'02	21 22 33
evening set	4002 Jan 30 19:58	22°≈06'30		asc. node	4003 Jan 12 19:48	7°≈21'51	
inferior conj	4002 Feb 05 05:23	16°≈01'45	2°56'13	evening set	4003 Jan 15 03:37	6°≈02'28	
minimum elong	4002 Feb 05 02:59	16°≈09'52	2°55'39	inferior conj	4003 Jan 20 11:54		2°21'55
min. Earth dist.	4002 Feb 06 00:13	14° ≈ 57'59	0.67266 AU	minimum elong	4003 Jan 20 09:27	29° る 55'46	2°21'09
morning rise	4002 Feb 10 09:46	9° ≈ 47'46			4003 Jan 20 08:13	30°Rる	
direct	4002 Feb 16 04:06	7° ≈ 13'16		min. Earth dist.	4003 Jan 20 18:16	29° පි 25'13	0.67831 AU
morning max el	4002 Feb 27 18:02	14° ≈ 08'46	24°47'48	morning rise	4003 Jan 25 15:06	23° る 34'51	
desc. node	4002 Mar 03 23:31	18° ≈ 47'31		direct	4003 Jan 30 18:52	21° ට 20'11	
	4002 Mar 12 16:00	0° ∀		morning max el	4003 Feb 10 02:51	27° る 28'42	23°19'08
	4002 Apr 01 01:16	$0^{\circ}\mathbf{\Upsilon}$		C	4003 Feb 12 11:39	0° ≈	
morning set	4002 Apr 04 19:54	6° Ƴ 33'44		desc. node	4003 Feb 18 20:34	7° ≈ 47'27	
max. Earth dist.	4002 Apr 08 10:53	13° Y 06'01	1.37135 AU		4003 Mar 06 07:55	0° ℋ	
	•			morning set	4003 Mar 17 02:40	17° ∺ 20'55	
superior conj	4002 Apr 15 00:46	25° Ƴ 34'07	-1°22'01	max. Earth dist.	4003 Mar 21 05:51	24°) 25′13	1.39289 AU
minimum elong	4002 Apr 15 05:01	25° Ƴ 54'55	1°21'23		4003 Mar 24 09:41	$0^{\circ}\mathbf{\Upsilon}$	
	4002 Apr 17 06:49	9° 8					
evening rise	4002 Apr 23 12:16	12° 8 27'58		superior conj	4003 Mar 28 20:33	8° Y 07'16	-1°46'26
asc. node	4002 Apr 23 22:05	13° 8 16'57		minimum elong	4003 Mar 29 01:16	8° Y 29'12	1°45'57
	4002 May 02 21:53	$\Pi^{\circ}0$		evening rise	4003 Apr 07 06:33	26° Ƴ 05′02	
evening max el	4002 May 10 10:49	9° Ⅱ 58'39	19°23'38	-	4003 Apr 09 07:28	8° 0	
retrograde	4002 May 19 18:17	14° Ⅲ 30′22		asc. node	4003 Apr 10 19:06	2° 8 49'00	
evening set	4002 May 21 18:04	14° Ⅱ 18'51		evening max el	4003 Apr 23 12:12	22° 8 15'14	18°38'16
inferior conj	4002 May 30 07:17	10° Ⅱ 12'07	0°11'18	retrograde	4003 May 01 09:31	26° 8 07'40	
minimum elong	4002 May 30 07:46	10° Ⅱ 11'19	0°11'07	evening set	4003 May 03 15:14	25° 8 50'03	
transit middle	4002 May 30 07:46	10° Ⅱ 11'19	0°11'07	inferior conj	4003 May 11 08:30	21° 8 24'55	1°47'04
transit begin	4002 May 30 04:59	10° Ⅱ 15'52		minimum elong	4003 May 11 11:55	21° 8 18'25	1°46'00
transit end	4002 May 30 10:33	10° Ⅱ 06'47		min. Earth dist.	4003 May 14 17:03	18° 8 52'54	0.57671 AU
desc. node	4002 May 30 22:41	9° Ⅱ 46'56		desc. node	4003 May 17 19:43	16° 8 51'21	
min. Earth dist.	4002 Jun 01 23:30	8° Ⅱ 27'56	0.55953 AU	morning rise	4003 May 19 05:23	16° 8 07'54	
morning rise	4002 Jun 07 18:34	5° Ⅱ 29'23		direct	4003 May 24 22:25	14° 8 46'32	
direct	4002 Jun 12 12:10	4° Ⅱ 38′23		morning max el	4003 Jun 08 07:14	22° 8 21'44	26°33'03
morning max el	4002 Jun 26 14:59	11° Ⅱ 47'40	25°06'23		4003 Jun 15 01:19	$\Pi^{\circ}0$	
	4002 Jul 10 14:13	0 \circ \odot			4003 Jul 03 09:18	0 \circ \odot	
asc. node	4002 Jul 20 21:20	19° © 04'15		morning set	4003 Jul 07 10:56	8° © 19'37	
morning set	4002 Jul 23 00:25	23°930'50		asc. node	4003 Jul 07 18:22	8° © 58'54	
	4002 Jul 26 00:49	$0^{\circ}\Omega$					
		_		superior conj	4003 Jul 14 10:43	23° © 31'36	1°05'02
superior conj	4002 Jul 29 23:08	8° Ω 35'53		minimum elong	4003 Jul 14 08:27	23°519'04	1°04'39
minimum elong	4002 Jul 29 20:51	8° Ω 23'22		max. Earth dist.	4003 Jul 14 17:41	24° © 10'01	1.32128 AU
max. Earth dist.	4002 Jul 31 07:10		1.32616 AU		4003 Jul 17 09:24	$0^{\circ}\Omega$	
evening rise	4002 Aug 06 02:44	23° £ 51'43		evening rise	4003 Jul 21 08:23	8° Ω 29'32	
	4002 Aug 09 03:57	0° m)			4003 Aug 01 13:32	0° m	
desc. node	4002 Aug 26 22:01	29° m 55'49		desc. node	4003 Aug 13 19:01	18° Mp 17'51	26052126
. ,	4002 Aug 26 23:12	0° ™	2702402	evening max el	4003 Aug 20 20:18	26° Mp 07'56	26°53'36
evening max el	4002 Sep 07 15:44	13° £ 52'30	27°24'02		4003 Aug 25 13:41	0° ™	
retrograde	4002 Sep 21 10:16	21° Ω 07'55		retrograde	4003 Sep 03 18:02	3° £ 18'49	
evening set	4002 Sep 28 14:47	18° £ 38'31	0.62612.441	evening set	4003 Sep 10 16:58	1° £ 12'57	
min. Earth dist.	4002 Oct 02 05:36			min Forth I'	4003 Sep 12 13:33	30°R∭0	0.60620 411
inferior conj	4002 Oct 05 02:10	12° £ 58'16		min. Earth dist.	4003 Sep 14 10:28		0.60630 AU
minimum elong	4002 Oct 05 07:54	12° ♀ 44'35 7° ♀ 50'33	3 33 03	inferior conj	4003 Sep 17 15:22	25° m 53'59	
morning rise direct	4002 Oct 12 02:38	7° £ 30'33		minimum elong	4003 Sep 17 21:04	25° Mp 42'01	4°27'40
asc. node	4002 Oct 14 12:00 4002 Oct 16 20:33	7° £ 24'35 7° £ 50'32		morning rise direct	4003 Sep 25 03:03 4003 Sep 27 11:42	21° Mp 07'23 20° Mp 45'43	
		10° £ 50'32	17050125	asc. node	•	-	
morning max el	4002 Oct 21 05:57 4002 Nov 03 00:24	0° M	17 30 33	asc. node morning max el	4003 Oct 03 17:36 4003 Oct 04 19:02	23° m/24'48 24° m/22'29	18°04'18
morning set	4002 Nov 06 07:30	5°M50'46		morning max ci	4003 Oct 04 19:02 4003 Oct 09 09:28	24 III/2229 0° Ω	10 04 10
morning set	TUUL 1107 00 07.30	J 11630 40		morning set	4003 Oct 09 09.28 4003 Oct 20 13:49	0 ≗ 19° £ 21'14	
superior conj	4002 Nov 17 16:03	25°M37'57	0°35'54	morning set	4003 Oct 26 07:38	0° M	
minimum elong	4002 Nov 17 10:03 4002 Nov 17 19:18	25°M51'40			1005 001 20 07.50	O IIO	
minimum ciong	10021101 1/ 17.10	25 11051 70	3 33 20				

superior conj	4003 Oct 30 09:58	7° ጤ 24'10	1°08'25	minimum elong	4004 Oct 12 04:34	20° £ 28'28	1°29'34
minimum elong	4003 Oct 30 14:07	7°M42'36	1°07'55	C	4004 Oct 17 09:26	0°M	
max. Earth dist.	4003 Nov 07 01:29	20°M36'15	1.41794 AU	max. Earth dist.	4004 Oct 19 07:47	3°M25'04	1.39760 AU
desc. node	4003 Nov 09 18:21	25°M04'52		evening rise	4004 Oct 23 10:04	10° M27'10	
evening rise	4003 Nov 12 12:57	29°M34'52		desc. node	4004 Oct 26 15:22	15°M47'35	
	4003 Nov 12 19:14	0°⊀			4004 Nov 04 17:01	0°⊀	
	4003 Dec 02 21:20	0° ろ		evening max el	4004 Nov 27 10:50	29° х 41′30	23°59'40
evening max el	4003 Dec 15 21:00	16°る03'07	22°39'46		4004 Nov 27 18:20	0°る	
retrograde	4003 Dec 25 18:21	21°る55'32		retrograde	4004 Dec 08 10:48	6° る 09'47	
evening set asc. node	4003 Dec 30 10:56 4003 Dec 30 16:50	20°පි00'48 19°පි48'16		evening set asc. node	4004 Dec 13 16:25 4004 Dec 16 13:53	3°る58'58 0°る55'07	
inferior conj	4004 Jan 04 19:42	13° る 38'32	1°39'57	asc. Houe	4004 Dec 10 13:33 4004 Dec 17 07:15	0 ℃3307 30°Ŗ ⋌ ¹	
minimum elong	4004 Jan 04 17:40	13° る 45'35	1°39'12	min. Earth dist.	4004 Dec 17 07:13 4004 Dec 18 11:07	28° ∡ ¹27'25	0.67834 AU
min. Earth dist.	4004 Jan 04 14:39	13° ප 56'02	0.68014 AU	inferior conj	4004 Dec 19 03:01	27°×733'31	0°51'29
morning rise	4004 Jan 10 00:16	7° る 29'19		minimum elong	4004 Dec 19 01:50	27° ₹ ³37'33	0°51'00
direct	4004 Jan 14 13:19	5° る 37'28		morning rise	4004 Dec 24 11:16	21° ₹ ′29′17	
morning max el	4004 Jan 23 15:22	10° ප 56'31	21°52'10	direct	4004 Dec 28 10:28	20° х 00'07	
desc. node	4004 Feb 05 17:37	27° る 22'35		morning max el	4005 Jan 05 10:48	24° ∡ ³35'57	20°34'02
	4004 Feb 07 13:58	0° ≈			4005 Jan 10 04:13	5°0	
morning set	4004 Feb 25 04:43	26° ≈ 45′20		desc. node	4005 Jan 22 14:40	17° る 23'25	
	4004 Feb 27 05:00	0° ∀			4005 Jan 30 23:12	0° ≈	
max. Earth dist.	4004 Mar 02 04:40	6°) ₹33′23	1.41436 AU	morning set	4005 Feb 03 06:34	5° ≈ 06'07	
				max. Earth dist.	4005 Feb 12 10:47	19° ≈ 36'53	1.43279 AU
superior conj	4004 Mar 09 21:17	19°) (43'59			4005 E 1 10 22 00	001/14/20	2007100
minimum elong	4004 Mar 10 00:26	19° ¥ 57'52 0° Ƴ	2°03'02	superior conj	4005 Feb 18 22:09	0°) 14′20 0°) 08′30	
evening rise	4004 Mar 15 14:42 4004 Mar 20 13:06	9° Υ 04'34		minimum elong	4005 Feb 18 20:45 4005 Feb 18 18:43	0° ∺	2-0/0/
asc. node	4004 Mar 27 16:08	21° Υ 58'40		evening rise	4005 Mar 03 03:51	21°) 18'21	
use. Houe	4004 Apr 01 17:06	0° 8		evening rise	4005 Mar 08 02:42	0°Υ	
evening max el	4004 Apr 05 20:31	5° 8 01'04	18°12'56	asc. node	4005 Mar 14 13:11	10° Υ 39'12	
retrograde	4004 Apr 12 19:34	8° 8 30'55		evening max el	4005 Mar 20 08:31	18° Υ 08'15	18°07'10
evening set	4004 Apr 15 07:49	8° 8 04'22		retrograde	4005 Mar 26 20:38	21° Y '30'55	
inferior conj	4004 Apr 22 06:55	3° 8 18'20	2°50'48	evening set	4005 Mar 29 14:53	20° Y 53'45	
minimum elong	4004 Apr 22 10:17	3° 8 10'50	2°50'04	inferior conj	4005 Apr 04 23:41	15° Ƴ 47'34	3°25'11
min. Earth dist.	4004 Apr 25 16:03	0° 8 19'21	0.59785 AU	minimum elong	4005 Apr 05 01:32	15° Y 42'49	3°24'59
	4004 Apr 26 01:22	30° ₹Ƴ		min. Earth dist.	4005 Apr 07 23:12	12° Y 46'16	0.61958 AU
morning rise	4004 Apr 29 10:16	27° Ƴ 34'43		morning rise	4005 Apr 11 10:36	9° Ƴ 47'26	
desc. node	4004 May 03 16:46	25° Y 51′29		direct	4005 Apr 18 06:45	7° Y 20'11	
direct	4004 May 05 21:14	25° Y 38'11		desc. node	4005 Apr 20 13:50	7° Υ 35'31	
	4004 May 16 07:05	0°8	27020140	morning max el	4005 May 02 10:07	15° Y 18'49	27°51'50
morning max el	4004 May 20 05:32 4004 Jun 08 15:39	3° 8 28'56	2/~30/49		4005 May 14 09:14	0° Β	
morning set	4004 Jun 08 15:39 4004 Jun 20 18:33	0°Ⅲ 22°Ⅲ57'24		morning set	4005 Jun 01 05:10 4005 Jun 04 21:17	0° П 7° П 17'58	
asc. node	4004 Jun 23 15:25	22 H3724 29°H02'05		max. Earth dist.	4005 Jun 10 14:23	7 П 17 38 19° П 19'46	1.32355 AU
asc. node	4004 Jun 24 02:10	0°95		asc. node	4005 Jun 10 12:28	19° Ⅱ 09'27	1.52555 AO
max. Earth dist.	4004 Jun 27 05:25		1.32037 AU	use. Houe	1003 3411 10 12.20	17 110727	
				superior conj	4005 Jun 12 08:16	23° ∏ 07'12	0°19'03
superior conj	4004 Jun 27 22:20	8°523'52	0°43'42	minimum elong	4005 Jun 12 07:23	23° I I02'26	0°18'51
minimum elong	4004 Jun 27 20:33	8° 5 14'01	0°43'21		4005 Jun 15 11:46	0 \circ \odot	
evening rise	4004 Jul 04 18:00	23° © 16'18		evening rise	4005 Jun 19 05:34	8° © 05'25	
	4004 Jul 07 23:45	0 ° Ω			4005 Jun 30 14:28	0 \circ Ω	
	4004 Jul 25 23:34	0° ™		evening max el	4005 Jul 14 07:54	18° Ω 17'35	24°24'07
desc. node	4004 Jul 30 16:01	5° Mp 30′06		desc. node	4005 Jul 17 13:03	21° Ω 04'33	
evening max el	4004 Aug 01 17:27	7° Tp 34'32	25°51'01	retrograde	4005 Jul 28 04:36	25° Ω 17'25	
retrograde	4004 Aug 15 16:42	14° Mp 42'00		evening set	4005 Aug 02 02:02	24° £ 23'54	0.56601 444
evening set	4004 Aug 21 21:36	13° Mp 10'29	0.505C1 AII	min. Earth dist.	4005 Aug 07 18:48	21° Ω 30'38	0.56681 AU
min. Earth dist. inferior conj	4004 Aug 26 05:42 4004 Aug 29 11:06	10° mp 34'00 8° mp 13'51	0.58561 AU -5°03'51	inferior conj minimum elong	4005 Aug 10 10:47 4005 Aug 10 08:26	19° Ω 49'23 19° Ω 53'08	
minimum elong	4004 Aug 29 11:06 4004 Aug 29 14:14	8° My 08'09	5°03'34	morning rise	4005 Aug 10 08:26 4005 Aug 18 17:26	19° ∂ <i>€</i> 33'08 15° Ω 47'11	3 0121
morning rise	4004 Sep 06 09:06	3° m 50'35	J 03 34	direct	4005 Aug 18 17:20 4005 Aug 21 09:29	15° Ω 28'00	
direct	4004 Sep 08 20:09	3°m/30'59		morning max el	4005 Aug 30 22:52	19° Ω 55'26	19°34'01
morning max el	4004 Sep 17 01:44	7° mp 27'00	18°38'24	asc. node	4005 Sep 06 11:44	27° Ω 58'50	
asc. node	4004 Sep 19 14:39	10° mp 12'45	-		4005 Sep 07 18:50	0° my	
	4004 Oct 01 13:23	0∘ <u>⊽</u>		morning set	4005 Sep 17 09:44	17° mp 51'15	
morning set	4004 Oct 03 07:48	3° ≏ 24'56		-	4005 Sep 23 10:26	0∘ ⊽	
avnori	4004 0-+ 12 01 26	200 0 12147	1020151	aumori :	4005 C 25 00 56	20 0 50122	10/11/17
superior conj	4004 Oct 12 01:26	20° £ 13'47	1~29'51	superior conj	4005 Sep 25 08:56	3° £ 50'33	1~41'16

minimum elong	4005 Sep 25 10:24	3° £ 57'49	1°41'12		4006 Aug 11 09:02	0°N	
max. Earth dist.	4005 Oct 01 12:05	15° ⊆ 34'20	1.37678 AU	morning max el	4006 Aug 13 08:18	1° Ω 40'08	20°50'52
evening rise	4005 Oct 05 06:12	22° £ 22'53	1.57070110	asc. node	4006 Aug 24 08:46	16° Ω 29'46	20 3032
	4005 Oct 09 15:50	0°M			4006 Aug 31 11:06	0° m)	
desc. node	4005 Oct 13 12:22	6°M22'02		morning set	4006 Sep 01 16:58	2°m/32'57	
	4005 Oct 29 13:31	0° ∡ 7		<i>3 3 1 1 1 1 1 1 1 1 1 1</i>	ı	4	
evening max el	4005 Nov 09 23:12	13° ∡ °22'50	25°15'41	superior conj	4006 Sep 09 03:50	18° m 01'08	1°44'17
retrograde	4005 Nov 21 23:01	20° х 18′25		minimum elong	4006 Sep 09 03:43	18° m 00'33	1°44'17
evening set	4005 Nov 27 18:22	17° ₹ 53'04		max. Earth dist.	4006 Sep 13 20:20	27° Mp 26'18	1.35788 AU
min. Earth dist.	4005 Dec 02 05:19	12° ₹ 55'45	0.67309 AU		4006 Sep 15 03:55	0० ত	
inferior conj	4005 Dec 03 08:02	11° ₹ 28'56	-0°02'30	evening rise	4006 Sep 17 22:03	5° ≙ 14'08	
minimum elong	4005 Dec 03 08:06	11° ₰ 28'45	0°02'27	desc. node	4006 Sep 30 09:23	26° £ 43′26	
transit middle	4005 Dec 03 08:06	11° ≯ 28'45	0°02'27		4006 Oct 02 11:43	0°M₊	
transit begin	4005 Dec 03 05:21	11° ∡ ³37'42		evening max el	4006 Oct 23 11:42	27°M04'34	26°20'23
transit end	4005 Dec 03 10:51	11° √ 19'48			4006 Oct 26 18:46	0° ∡	
asc. node	4005 Dec 03 10:57	11°× 19'27		retrograde	4006 Nov 05 06:10	4° √ 15'58	
morning rise	4005 Dec 08 22:05	5° ∡ 31'48		evening set	4006 Nov 11 14:56	1° ₹ 39'40	
direct	4005 Dec 12 09:02	4° 🖈 22'54	1002010.5	i matra	4006 Nov 13 09:33	30°RM.	0.66441.441
morning max el	4005 Dec 19 14:07	8° ₹25'56	19°29'05	min. Earth dist.	4006 Nov 15 18:55	27°M17'42	
greatest brilliancy	4006 Jan 01 18:31 4006 Jan 04 10:43	25° メ 58'12 0°る	-0.7m	inferior conj	4006 Nov 17 08:52	25°M21'48	
daga mada	4006 Jan 04 10:43 4006 Jan 09 11:40	0°る 7° る 42'11		minimum elong asc. node	4006 Nov 17 10:31 4006 Nov 20 08:00	25°M16'46 21°M57'36	1°00'02
desc. node morning set	4006 Jan 13 04:06	7 34211 13° 3 23'08		morning rise	4006 Nov 20 08:00 4006 Nov 23 06:39	19°M34'22	
morning set	4006 Jan 23 19:54	0° ≈		direct	4006 Nov 26 07:24	18°M42'15	
max. Earth dist.	4006 Jan 25 23:32	0 ∞ 3°≈23'42	1.44589 AU	morning max el	4006 Nov 20 07:24 4006 Dec 03 00:18	22°M23'08	18°39'38
max. Dartii dist.	1000 3411 25 25.52	3 / 0 / 23 / 12	1.11507110	morning max or	4006 Dec 09 03:38	0° ₹	10 37 30
superior conj	4006 Jan 29 21:16	9° ≈ 36'29	-1°53'13	morning set	4006 Dec 23 21:31	22° х 45'16	
minimum elong	4006 Jan 29 13:56	9° ≈ 07'11		desc. node	4006 Dec 27 08:40	28° х 13′54	
	4006 Feb 11 08:36	0°) €			4006 Dec 28 11:34	5°0	
evening rise	4006 Feb 12 22:17	2° 升 37′28		max. Earth dist.	4007 Jan 08 17:03	17° る 38'48	1.45223 AU
asc. node	4006 Mar 01 10:14	28°) 41′20					
	4006 Mar 02 12:19	0 ° $\mathbf{\gamma}$		superior conj	4007 Jan 09 02:03	18° る 14'04	-1°20'02
evening max el	4006 Mar 03 21:12	1° Y 29'02	18°20'25	minimum elong	4007 Jan 08 17:04	17° る 38'48	1°19'02
retrograde	4006 Mar 10 08:06	4° Ƴ 57'57			4007 Jan 16 13:30	0° ≈	
evening set	4006 Mar 13 08:13	4° Ƴ 09'03		evening rise	4007 Jan 24 17:30	12° ≈ 58'50	
	4006 Mar 18 03:36	30° ₹ ₩		greatest brilliancy	4007 Feb 01 17:10	25° ≈ 44'47	-0.8m
inferior conj	4006 Mar 19 06:37	28°) 44′05	3°36'37		4007 Feb 04 09:59	0° ∀	
minimum elong	4006 Mar 19 06:43	28°) 43′46	3°36'37	evening max el	4007 Feb 15 07:58	14° ¥ 56'58	18°51'41
min. Earth dist.	4006 Mar 21 15:39		0.63930 AU	asc. node	4007 Feb 16 07:16	15°) €53'16	
morning rise	4006 Mar 25 04:22	22°\(\frac{1}{3}5'26		retrograde	4007 Feb 22 01:59	18°) (43′52	
direct	4006 Apr 01 00:54	19° ¥ 49'15 21° ¥ 49'38		evening set	4007 Feb 25 08:32	17°) 42'15	2820140
desc. node morning max el	4006 Apr 07 10:53 4006 Apr 14 18:43	21 X 4938 27° X 46'37	27025145	inferior conj minimum elong	4007 Mar 02 23:49 4007 Mar 02 22:33	12°) € 00'05 12°) € 04'02	3°30'49 3°30'42
morning max er	4006 Apr 16 21:33	27 Λ 4037	27 33 43	min. Earth dist.	4007 Mar 04 17:13	9° H 51'42	0.65554 AU
	4006 May 08 02:42	0°8		morning rise	4007 Mar 08 12:09	5°) (31 4 2	0.03334 AC
morning set	4006 May 19 16:40	21° 8 13'55		direct	4007 Mar 15 01:55	2° H 56'47	
morning sec	4006 May 24 00:16	0°II		desc. node	4007 Mar 25 07:55	7° ¥ 59'15	
max. Earth dist.	4006 May 24 16:33	1° Ⅱ 24'59	1.33111 AU	morning max el	4007 Mar 28 04:30	10°) (40′40	26°47'40
	•			C	4007 Apr 12 11:50	$0^{\circ}\mathbf{Y}$	
superior conj	4006 May 27 14:40	7° Ⅱ 36′08	-0°08'13		4007 Apr 30 15:00	0° 8	
minimum elong	4006 May 27 15:04	7° Ⅱ 38'19	0°08'09	morning set	4007 May 03 01:24	4° 8 34'27	
behind sun begin	4006 May 27 10:25	7° Ⅱ 13′26		max. Earth dist.	4007 May 07 08:31	12° 8 58'25	1.34333 AU
behind sun end	4006 May 27 19:44	8° 耳 03′14					
asc. node	4006 May 28 09:31	9° Ⅱ 17'08		superior conj	4007 May 11 15:18	21° 8 43'05	
evening rise	4006 Jun 03 17:15	22° Ⅱ 51′06		minimum elong	4007 May 11 17:15	21° 8 53'16	0°36'41
	4006 Jun 07 04:10	0 \circ \odot		asc. node	4007 May 15 06:32	29° 8 20'26	
evening max el	4006 Jun 25 21:24	28°5542'04	22°47'14		4007 May 15 14:03	$\Pi^{\circ 0}$	
	4006 Jun 27 07:07	0°N		evening rise	4007 May 19 03:02	7° Ⅱ 26'19	
desc. node	4006 Jul 04 10:05	4° Ω 27'03			4007 May 31 07:15	0°95	01015100
retrograde	4006 Jul 09 03:54	5° Ω 18'33		evening max el	4007 Jun 07 17:41	9°519'27	21~15'23
evening set	4006 Jul 12 12:48	4° £ 53'38	0.55220 ATT	retrograde	4007 Jun 19 17:17	15°506'40	
min. Earth dist. inferior conj	4006 Jul 20 05:46 4006 Jul 21 15:38	0° Ω 40'52	0.55338 AU -4°25'01	desc. node evening set	4007 Jun 21 07:08 4007 Jun 22 00:29	15° © 06'49 15° © 00'24	
minimum elong	4006 Jul 21 13.38 4006 Jul 21 07:57	0° Ω 51'56		inferior conj	4007 Jul	13 900 24 11°901'51	-2°53'29
Clong	4006 Jul 22 20:16	30°RS	1 23 20	minimum elong	4007 Jul 01 09:50 4007 Jul 01 01:51	11°50131	
morning rise	4006 Jul 30 05:16	26°549'47		min. Earth dist.	4007 Jul 01 01:31	10° © 51'38	0.54830 AU
direct	4006 Aug 02 04:41	26°529'11		morning rise	4007 Jul 10 03:41	7° © 04'51	
	5			<i>S</i> .			

direct	4007 Jul 13 14:26	6° © 39'10		direct	4008 Jun 23 03:26	16° ∏ 22'13	
morning max el	4007 Jul 26 06:24	12° © 39'51	22°25'32	morning max el	4008 Jul 06 21:30	23° I 109'03	24°08'49
	4007 Aug 08 04:03	$0^{\circ}\Omega$			4008 Jul 13 00:39	0 \circ \odot	
asc. node	4007 Aug 11 05:48	5° Ω 33'59		asc. node	4008 Jul 28 02:49	25° © 03'06	
morning set	4007 Aug 17 03:18	17° Ω 23'16			4008 Jul 30 12:51	$0^{\circ}\Omega$	
	4007 Aug 23 01:33	0° m		morning set	4008 Jul 31 14:58	2° Ω 17'11	
superior conj	4007 Aug 24 06:34	2° m/34'12	1°40'17	superior conj	4008 Aug 07 14:24	17° Ω 21'33	1°30'25
minimum elong	4007 Aug 24 05:14	2° m) 27'08	1°40'12	minimum elong	4008 Aug 07 12:19	17° Ω 10'16	1°30'12
max. Earth dist.	4007 Aug 27 12:56	9° m/24'23		max. Earth dist.	4008 Aug 09 14:22		1.33087 AU
evening rise	4007 Sep 01 05:08	18° m) 48'13			4008 Aug 13 13:19	0° m)	
C	4007 Sep 07 04:37	0∘ ⊽		evening rise	4008 Aug 14 23:27	2° m 54'17	
desc. node	4007 Sep 17 06:25	16° ≏ 44'57			4008 Aug 30 00:02	0∘ ⊽	
	4007 Sep 26 15:16	0°M₊		desc. node	4008 Sep 03 03:26	6° ≏ 17'58	
evening max el	4007 Oct 06 00:24	10°MJ38'13	27°06'16	evening max el	4008 Sep 17 11:39	23° ჲ 51'01	27°26'19
retrograde	4007 Oct 19 07:34	17°M55'24			4008 Sep 26 02:43	0° M	
evening set	4007 Oct 26 03:54	15°ML14'07		retrograde	4008 Oct 01 02:45	1°M07'55	
min. Earth dist.	4007 Oct 30 01:26	11°M27'55	0.65220 AU		4008 Oct 05 19:51	30° ₹ Ω	
inferior conj	4007 Nov 01 03:20	9° ™ 07'34		evening set	4008 Oct 08 06:26	28° ≏ 30'37	
minimum elong	4007 Nov 01 06:46	8°M57'55	2°00'21	min. Earth dist.	4008 Oct 11 22:44	25° Ω 17'45	
morning rise	4007 Nov 07 10:34	3°M32'59		inferior conj	4008 Oct 14 12:53	22° Ω 39'52	
asc. node	4007 Nov 07 05:01	3°M39'53		minimum elong	4008 Oct 14 17:58	22° Ω 26'57	3°01'13
direct	4007 Nov 10 03:23	2°M53'48	10007153	morning rise	4008 Oct 21 06:52	17° £ 21'36	
morning max el	4007 Nov 16 15:07 4007 Dec 02 15:56	6°M22'25 0° <i>₹</i> 1	18°06'52	direct asc. node	4008 Oct 23 18:14 4008 Oct 24 02:03	16° £ 51'44 16° £ 52'16	
morning set	4007 Dec 02 13:30 4007 Dec 04 20:34	3° ∡ ³37′00		morning max el	4008 Oct 24 02:03 4008 Oct 30 07:46	20° £ 16'50	17°51'26
desc. node	4007 Dec 04 20:34 4007 Dec 14 05:42	18° 🗷 54'41		morning max er	4008 Oct 30 07:40 4008 Nov 06 14:21	20 = 10 30 0 0 ° € 10 30 0 0 ° € 10 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 31 20
desc. node	4007 DCC 14 03.42	10 🗡 2441		morning set	4008 Nov 15 22:01	15°M45'12	
superior conj	4007 Dec 19 07:21	27° ∡ 00′14	-0°34'17	morning sec	4008 Nov 24 06:12	0° √	
minimum elong	4007 Dec 19 03:03	26° × ⁷ 43'10			.00011012100.12	• ••	
	4007 Dec 21 04:48	0°ප		superior conj	4008 Nov 28 08:00	6° ∡ ¹45'47	0°12'20
max. Earth dist.	4007 Dec 22 12:46	2° る 05'54	1.45113 AU	minimum elong	4008 Nov 28 09:19	6° ∡ ′51′13	0°12'09
evening rise	4008 Jan 04 15:25	22° る 32'15		behind sun begin	4008 Nov 28 02:52	6° ₹ ¹24'42	
	4008 Jan 09 11:14	0° ≈		behind sun end	4008 Nov 28 15:47	7° ∡ 17'42	
greatest brilliancy	4008 Jan 17 15:25	12° ≈ 28'42	-0.7m	desc. node	4008 Nov 30 02:43	9° ∡ ¹40'22	
evening max el	4008 Jan 29 14:48	28° ≈ 28'25	19°39'27	max. Earth dist.	4008 Dec 04 06:58	16° ₹ 24'12	1.44279 AU
	4008 Jan 31 05:21	0° ∀			4008 Dec 12 22:59	0°る	
asc. node	4008 Feb 03 04:18	2°) €01'42		evening rise	4008 Dec 14 01:30	1° る 42'12	
retrograde	4008 Feb 05 23:14	2°) 43'24			4009 Jan 02 02:30	0° ≈	20041122
evening set	4008 Feb 09 13:17	1° ∺ 28′08		evening max el	4009 Jan 11 16:18	12°≈00'31	20°41'33
inforior coni	4008 Feb 11 06:39 4008 Feb 15 00:11	30°R≈ 25°2220148	2011/5/	retrograde asc. node	4009 Jan 19 21:25 4009 Jan 20 01:20	16°≈51'24 16°≈51'16	
inferior conj minimum elong	4008 Feb 13 00:11 4008 Feb 14 22:03	25°≈30'48 25°≈37'52	3°11'54 3°11'30	evening set	4009 Jan 20 01:20 4009 Jan 23 20:24	15°≈21'31	
min. Earth dist.	4008 Feb 16 02:46	23 ≈3732 24°≈03'04	0.66764 AU	inferior conj	4009 Jan 29 05:06	9°≈11'42	2°42'40
morning rise	4008 Feb 20 06:35	19°≈16'58	0.00701710	minimum elong	4009 Jan 29 02:37	9° ≈ 20'12	
direct	4008 Feb 26 08:47	16° ≈ 34'04		min. Earth dist.	4009 Jan 29 18:22	8°≈26'12	0.67556 AU
morning max el	4008 Mar 09 13:48	23° ≈ 50'42	25°35'57	morning rise	4009 Feb 03 08:39	2°≈58'16	
desc. node	4008 Mar 11 04:55	25° ≈ 33'01		direct	4009 Feb 08 20:48	0° ≈ 31'56	
	4008 Mar 15 01:50	0° \		morning max el	4009 Feb 19 22:25	7° ≈ 08'15	24°10'29
	4008 Apr 04 21:15	$0^{\circ}\mathbf{\Upsilon}$		desc. node	4009 Feb 26 01:57	14° ≈ 06′25	
morning set	4008 Apr 14 19:15	17° Ƴ 07'43			4009 Mar 09 17:56	0°) €	
max. Earth dist.	4008 Apr 18 13:18	24° Y 06′28	1.36009 AU	morning set	4009 Mar 27 16:37	28°) ₹38′04	
	4008 Apr 21 14:41	9° 8			4009 Mar 28 11:28	0° Υ	
		4.		max. Earth dist.	4009 Mar 31 09:55	5° Ƴ 11'41	1.38039 AU
superior conj	4008 Apr 24 07:32	5° 8 20'55			4000 4 07 11 57	100000000	1022102
minimum elong	4008 Apr 24 11:04	5° 8 38'35	1~05′28	superior conj	4009 Apr 07 11:57	18° Y 20′02	
asc. node	4008 May 01 03:34 4008 May 02 08:53	19° 8 15'28 21° 8 44'57		minimum elong	4009 Apr 07 16:35	18° Y 42'10 0° と	1-32-26
evening rise	4008 May 02 08:53 4008 May 06 12:20	0° I		evening rise	4009 Apr 13 11:35 4009 Apr 16 08:15	5° 8 39'13	
evening max el	4008 May 00 12.20 4008 May 20 01:37	0 H 20°∏32'34	19°58'47	asc. node	4009 Apr 18 00:37	8° 8 57'14	
retrograde	4008 May 30 08:20	25° I 33'07	17 50 77	450. Houc	4009 Apr 30 15:26	0°Ⅱ	
evening set	4008 Jun 01 07:15	25° I 23'03		evening max el	4009 May 02 21:16	2° П 26'45	19°01'46
desc. node	4008 Jun 07 04:08	23° Ⅱ 10'45		retrograde	4009 May 11 13:08	6° ∏ 40′20	
inferior conj	4008 Jun 10 06:35	21° Ⅲ 22'47	-0°55'12	evening set	4009 May 13 14:56	6° Ⅱ 26'45	
minimum elong	4008 Jun 10 04:01	21° Ⅱ 26'40		inferior conj	4009 May 21 19:41	2° Ⅱ 12'32	0°55'40
min. Earth dist.	4008 Jun 12 05:20	20° Ⅱ 12'16	0.55286 AU	minimum elong	4009 May 21 21:50	2° Ⅱ 08'47	0°54'54
morning rise	4008 Jun 18 22:58	17° Ⅱ 00′29		min. Earth dist.	4009 May 24 20:51	0° Ⅱ 06′02	0.56609 AU

desc. node	4009 May 25 01:08	29° 8 58'54		min. Earth dist.	4010 May 06 16:46	10° 8 56'21	0.58539 AU
	4009 May 25 00:28	30°R₩		morning rise	4010 May 10 19:37	8° 8 13'17	
morning rise	4009 May 30 01:31	27° 8 14'27		desc. node	4010 May 11 22:12	7° 8 41'33	
direct	4009 Jun 04 05:02	26° 8 11'53		direct	4010 May 16 21:13	6° 8 36'45	
	4009 Jun 14 06:38	$\Pi^{\circ}0$		morning max el	4010 May 31 06:40	14° 8 20'39	27°01'48
morning max el	4009 Jun 18 11:57	3° Ⅱ 33'57	25°46'10	•	4010 Jun 12 19:34	$\Pi^{\circ}0$	
	4009 Jul 07 09:18	0 \circ \odot			4010 Jun 29 13:56	0°50	
asc. node	4009 Jul 14 23:52	14° © 50'18		morning set	4010 Jun 30 11:54	1° 5 54'33	
morning set	4009 Jul 16 02:24	17° 5 09'38		asc. node	4010 Jul 01 20:54	4° © 49'15	
	4009 Jul 22 00:23	$\mathfrak{O}_{\circ} \mathfrak{O}$					
				superior conj	4010 Jul 07 13:01	17° © 11'37	0°56'27
superior conj	4009 Jul 23 01:12	2° Ω 16′24	1°15'35	minimum elong	4010 Jul 07 10:53	16° © 59'54	0°56'03
minimum elong	4009 Jul 22 22:51	2° Ω 03'33	1°15'14	max. Earth dist.	4010 Jul 07 09:44	16° © 53'31	1.32031 AU
max. Earth dist.	4009 Jul 23 22:25	4° Ω 12'53	1.32352 AU		4010 Jul 13 09:43	$0^{\circ}\Omega$	
evening rise	4009 Jul 30 01:45	17° Ω 22'59		evening rise	4010 Jul 14 09:20	2° Ω 05′28	
	4009 Aug 05 10:35	0° m y			4010 Jul 29 10:14	0° m	
desc. node	4009 Aug 21 00:27	25° Mp 10'53		desc. node	4010 Aug 07 21:29	13° Mp 06'27	
	4009 Aug 24 18:50	0∘ ⊽		evening max el	4010 Aug 12 20:44	18° Mp 25′25	26°30'44
evening max el	4009 Aug 30 19:14	6° ჲ 30′29	27°15'11	retrograde	4010 Aug 26 19:50	25° Mp 35'42	
retrograde	4009 Sep 13 15:18	13° ≏ 44'36		evening set	4010 Sep 02 12:32	23° Mp 43'23	
evening set	4009 Sep 20 18:54	11° ≏ 23'15		min. Earth dist.	4010 Sep 06 10:19	21° m 07'55	0.59738 AU
min. Earth dist.	4009 Sep 24 09:36	8° ჲ 36'06	0.61787 AU	inferior conj	4010 Sep 09 16:44	18° m 33'30	
inferior conj	4009 Sep 27 10:32	5° ≙ 51'47	-4°00'17	minimum elong	4010 Sep 09 21:43	18° m ∕23'37	4°45'47
minimum elong	4009 Sep 27 16:29	5° ≏ 38'19	3°58'42	morning rise	4010 Sep 17 09:00	13° m 56'49	
morning rise	4009 Oct 04 15:52	0° ჲ 53'05		direct	4010 Sep 19 18:05	13° Mp 36'25	
direct	4009 Oct 07 00:30	0° ჲ 29'20		morning max el	4010 Sep 27 10:02		18°16'15
asc. node	4009 Oct 10 23:05	1° ≏ 38′00		asc. node	4010 Sep 27 20:08	17° m 45'26	
morning max el	4009 Oct 13 23:11	3° ჲ 59'25	17°54'08		4010 Oct 06 10:56	0∘ ⊽	
morning set	4009 Oct 29 19:33	28° ≏ 50'48		morning set	4010 Oct 13 07:21	12° ≙ 36'37	
	4009 Oct 30 10:48	0° M					
				superior conj	4010 Oct 22 15:08	0°M05'01	1°18'49
superior conj	4009 Nov 09 11:23	17° ™ 50'07	0°51'03	minimum elong	4010 Oct 22 19:00	0°M22'36	1°18'23
minimum elong	4009 Nov 09 15:21	18°M07'12	0°50'31		4010 Oct 22 14:02	0° M	
desc. node	4009 Nov 16 23:45	0° ∡ °27'56		max. Earth dist.	4010 Oct 30 05:11	13°M27'26	1.40949 AU
	4009 Nov 16 16:56	0°⊀		evening rise	4010 Nov 03 23:29	21°M24'26	
max. Earth dist.	4009 Nov 16 20:45	0° ∡ 15'38	1.42830 AU	desc. node	4010 Nov 03 20:47	21°M13'23	
evening rise	4009 Nov 23 15:36	11° ∡ ′08′21			4010 Nov 09 08:22	0° ∡	
	4009 Dec 06 01:50	5°0			4010 Nov 30 05:48	0° る	
evening max el	4009 Dec 25 12:20	25° る 34'05	21°54'36	evening max el	4010 Dec 08 03:59	9° ට 10'32	23°13'50
	4009 Dec 31 00:21	0° ≈		retrograde	4010 Dec 18 13:02	15° る 19'17	
retrograde	4010 Jan 03 18:33	1°≈04'38		evening set	4010 Dec 23 10:54	13° る 17'54	
asc. node	4010 Jan 06 22:21	0°≈10'58		asc. node	4010 Dec 24 19:24	12° ろ 00'48	
	4010 Jan 07 05:35	30°₹₹		inferior conj	4010 Dec 28 20:17	6° る 53'44	1°20'09
evening set	4010 Jan 08 04:09	29°る19'16	200.4150	minimum elong	4010 Dec 28 18:33	6° る 59'41	1°19'29
inferior conj	4010 Jan 13 12:26	23°る00'22	2°04'59	min. Earth dist.	4010 Dec 28 10:39	7°₹26'53	0.67978 AU
minimum elong	4010 Jan 13 10:06	23°る08'27	2°04'12	morning rise	4011 Jan 03 02:07	0° ප් 46'08	
min. Earth dist.	4010 Jan 13 13:49	22°る55'32	0.67952 AU	11.	4011 Jan 04 04:31	30°₹ ⋌ ⁷	
morning rise	4010 Jan 18 15:54	16° る 48'53		direct	4011 Jan 07 09:08	29°♂03'57 0°る	
direct	4010 Jan 23 13:15	14° 3 43'53	00041104		4011 Jan 10 19:31		21017120
morning max el	4010 Feb 02 08:30	20° る 31'42	22°41'24	morning max el	4011 Jan 15 23:35	4°る03'52	21°17'28
1 1	4010 Feb 10 09:54	0°≈ 2022140		desc. node	4011 Jan 30 20:03	23°る10'01	
desc. node	4010 Feb 12 23:00	3°≈22'48		. ,	4011 Feb 04 12:02	0°≈ 170~ • 42151	
. ,	4010 Mar 02 23:49	0°)(morning set	4011 Feb 16 01:55	17°≈43'51	1 42270 ATT
morning set	4010 Mar 08 11:32	8° ¥ 50′52	1 40220 ATT	max. Earth dist.	4011 Feb 23 06:46	29° ≈ 18'47 0°) €	1.42270 AU
max. Earth dist.	4010 Mar 13 05:27 4010 Mar 20 17:33	16°) 48′00 0° Υ	1.40220 AU		4011 Feb 23 16:48	υ π	
	4010 Mai 20 17.55	0 1		gunariar aani	4011 Mar 02 15:20	11°)(40'57	2006144
superior conj	4010 Mar 21 00:16	0° Ƴ 30'30	1054145	superior conj minimum elong	4011 Mar 02 15:29 4011 Mar 02 17:05	11° X 4037	
minimum elong	4010 Mar 21 00:16 4010 Mar 21 04:39	0° Υ 50'24		minimum etong	4011 Mar 02 17:03 4011 Mar 12 23:43	11°π4/48 0° γ	2 0043
evening rise	4010 Mar 21 04:39 4010 Mar 30 22:03	19° Υ 01'27	1 54 45	evening rise	4011 Mar 12 23:43 4011 Mar 13 22:27	0° γ 1° Υ 43'00	
asc. node	4010 Mar 30 22:03 4010 Apr 04 21:39	19° γ 01′27 28° γ 20′36		asc. node	4011 Mar 13 22:27 4011 Mar 22 18:42	1° Υ 43'00 17° Υ 19'21	
asc. node	4010 Apr 04 21:39 4010 Apr 05 19:40	0° 8		evening max el	4011 Mar 22 18:42 4011 Mar 30 12:28	17 γ 1921 27° Υ 54'11	18°08'10
evening max el	4010 Apr 03 19.40 4010 Apr 16 02:02	14° 8 56'59	18°25'03	evening max ci	4011 Mai 30 12.28 4011 Apr 02 02:28	0° 8	10 00 10
retrograde	4010 Apr 23 12:33	18° 8 37'53	10 23 03	retrograde	4011 Apr 06 05:25	1° 8 18'48	
evening set	4010 Apr 25 20:59	18° 8 16'52		evening set	4011 Apr 08 20:22	0° 8 47'51	
inferior conj	4010 May 03 06:09	13° 8 43'13	2°18'00	o coming sec	4011 Apr 10 11:17	30°RΥ	
minimum elong	4010 May 03 00:50	13° 8 35'43		inferior conj	4011 Apr 15 12:55	25°Υ53'23	3°08'33
mmmum ciong	1010 111ay 05 07.50	15 (3545	2 1 / 00	microi conj	1011 11pt 13 12.33	4J 1JJ43	5 00 55

minimum elong	4011 Apr 15 15:44	25° Ƴ 46'43	3°08'04	minimum elong	4012 Mar 28 13:17	8° Y '32'04	3°32'22
min. Earth dist.	4011 Apr 18 19:01	22° Y '50'20	0.60723 AU	min. Earth dist.	4012 Mar 31 05:47	5° Υ 40'02	0.62837 AU
morning rise	4011 Apr 22 09:00	20° Υ '01'50	0.00723710	morning rise	4012 Apr 03 17:06	2° Υ 30'48	0.02037710
desc. node	4011 Apr 28 19:14	17° Y ′51'04			4012 Apr 09 05:40	30°R) €	
direct	4011 Apr 29 01:17	17° Y ′50′53		direct	4012 Apr 10 14:27	29°) 54'04	
morning max el	4011 May 13 07:38	25° Ƴ 45'50	27°44'19		4012 Apr 11 23:54	0° Υ	
. 8	4011 May 17 05:57	0°8		desc. node	4012 Apr 14 16:16	0° Y 42'36	
	4011 Jun 06 06:30	0°Щ		morning max el	4012 Apr 24 14:05	7° Y ′52′22	27°49'20
morning set	4011 Jun 14 17:42	16° Ⅱ 26′07		C	4012 May 11 13:44	0° ႘	
asc. node	4011 Jun 18 17:58	24° Ⅱ 55'09			4012 May 28 10:15	$\Pi^{\circ}0$	
max. Earth dist.	4011 Jun 20 20:41	29° Ⅲ 30'47	1.32122 AU	morning set	4012 May 28 17:37	0° Ⅲ 37′01	
	4011 Jun 21 02:01	0 \circ \mathfrak{S}		max. Earth dist.	4012 Jun 03 03:21	11° Ⅱ 51'38	1.32631 AU
				asc. node	4012 Jun 04 15:01	15° Ⅲ 03′08	
superior conj	4011 Jun 22 00:09	2° 5 01'23	0°33'38				
minimum elong	4011 Jun 21 22:42	1° © 53'25	0°33'19	superior conj	4012 Jun 05 08:48	16° Ⅲ 39'14	0°07'46
evening rise	4011 Jun 28 20:03	16° © 54'37		minimum elong	4012 Jun 05 08:26	16° Ⅲ 37'13	0°07'41
	4011 Jul 05 07:06	$0^{\circ}\Omega$		behind sun begin	4012 Jun 05 03:49	16° Ⅱ 12'16	
evening max el	4011 Jul 25 14:55	29° Ω 32'43	25°16'22	behind sun end	4012 Jun 05 13:03	17° Ⅲ 02'13	
desc. node	4011 Jul 25 18:29	29° Ω 41'14			4012 Jun 11 12:33	0 \circ \odot	
	4011 Jul 26 02:30	0° m		evening rise	4012 Jun 12 07:54	1° 5 643'13	
retrograde	4011 Aug 08 14:03	6° Mg 37′23			4012 Jun 27 20:27	$0 {\circ} \Omega$	
evening set	4011 Aug 14 06:47	5°₩22'39		evening max el	4012 Jul 06 04:03	10° Ω 03'56	23°43'05
min. Earth dist.	4011 Aug 19 02:42	2° Mp 40'53	0.57722 AU	desc. node	4012 Jul 11 15:31	14° Ω 24′00	
inferior conj	4011 Aug 22 04:08	0° m∕ 35′32	-5°10'14	retrograde	4012 Jul 19 20:04	16° Ω 55'38	
minimum elong	4011 Aug 22 05:13	0° Mp 33′40	5°10'12	evening set	4012 Jul 24 02:01	16° Ω 15'59	
	4011 Aug 23 00:57	30° R Ω		min. Earth dist.	4012 Jul 30 14:08	13° Ω 11'17	0.56032 AU
morning rise	4011 Aug 30 05:58	26° Ω 21'24		inferior conj	4012 Aug 01 19:16	11° Ω 51′23	
direct	4011 Sep 01 18:52	26° Ω 02'06		minimum elong	4012 Aug 01 14:17	11° Ω 58'54	4°55'12
	4011 Sep 10 08:31	0° m		morning rise	4012 Aug 10 05:05	7° Ω 55'40	
morning max el	4011 Sep 10 12:55	0° m 10'18	18°59'18	direct	4012 Aug 13 00:15	7° Ω 35'59	
asc. node	4011 Sep 14 17:12	4° m 59′38		morning max el	4012 Aug 23 05:05	12° Ω 20′11	20°04'13
morning set	4011 Sep 27 05:05	26° To 50'49		asc. node	4012 Aug 31 14:15	23° Ω 06′10	
	4011 Sep 28 19:23	0∘ ⊽			4012 Sep 04 13:37	0° m)	
	4011 0 + 05 12 50	120 0 15151	1025140	morning set	4012 Sep 10 09:34	11° m 24'48	
superior conj	4011 Oct 05 13:59	13° Ω 15'51	1°35'49		1012 0 10 02 10	270 m 00121	1042120
minimum elong	4011 Oct 05 16:27	13° Ω 27'37	1°35'38	superior conj	4012 Sep 18 02:49	27° Mp 08'31	1°43'29
max. Earth dist.	4011 Oct 12 10:08	25° £ 57'51 0° I L	1.38871 AU	minimum elong	4012 Sep 18 03:35	27° Mp 12'22 0° <u>₽</u>	1°43'28
avanina riaa	4011 Oct 14 16:47 4011 Oct 16 06:36	2°M44'09		max. Earth dist.	4012 Sep 19 13:13		1.36842 AU
evening rise desc. node	4011 Oct 16 06.36 4011 Oct 21 17:48	11°M53'05		evening rise	4012 Sep 23 15:51 4012 Sep 27 11:37	7 2 38 38 15° 2 04'42	1.30842 AU
desc. Hode	4011 Nov 02 13:20	0° √		evening rise	4012 Scp 27 11:37 4012 Oct 06 03:29	0°M	
evening max el	4011 Nov 02 13:20 4011 Nov 20 17:06	22° х 50'43	24°33'01	desc. node	4012 Oct 00 03:29 4012 Oct 07 14:48	2°M22'54	
retrograde	4011 Dec 02 03:37	29°×30'45	24 33 01	dese. Hode	4012 Oct 07 14:48 4012 Oct 27 05:02	2° 11022 34 0° ₹ ⁷	
evening set	4011 Dec 02 05:57 4011 Dec 07 15:03	27°×714'12			4012 Oct 27 03.02		
asc. node		2/ / 1112		evening max el	4012 Nov 02 05:28	6° ∡ 733'18	25°45'03
min. Earth dist.	4011 Dec 11 10:27	22° ∡ ′43′07		evening max el retrograde	4012 Nov 02 05:28 4012 Nov 14 13:36	6° ∡ ³33'18 13° ∡ ³36'23	25°45'03
	4011 Dec 11 16:27 4011 Dec 12 06:26	22° х 43'07 21° х 57'02	0.67654 AU	retrograde	4012 Nov 14 13:36	13° ∡ ³36′23	25°45'03
	4011 Dec 12 06:26	21° ₹ ′57′02	0.67654 AU 0°29'13	retrograde evening set	4012 Nov 14 13:36 4012 Nov 20 14:56		
inferior conj				retrograde evening set min. Earth dist.	4012 Nov 14 13:36	13° ₹36'23 11° ₹05'40 6° ₹23'33	0.66984 AU
inferior conj minimum elong	4011 Dec 12 06:26 4011 Dec 13 02:50	21° х 57'02 20° х 49'00	0°29'13	retrograde evening set	4012 Nov 14 13:36 4012 Nov 20 14:56 4012 Nov 24 22:50	13° х 36′23 11° х 05′40	0.66984 AU
inferior conj	4011 Dec 12 06:26 4011 Dec 13 02:50 4011 Dec 13 02:08	21° ₹ 57'02 20° ₹ 49'00 20° ₹ 51'21	0°29'13	retrograde evening set min. Earth dist. inferior conj	4012 Nov 14 13:36 4012 Nov 20 14:56 4012 Nov 24 22:50 4012 Nov 26 06:17	13° ₹36'23 11° ₹05'40 6° ₹23'33 4° ₹43'51	0.66984 AU -0°26'44
inferior conj minimum elong morning rise direct	4011 Dec 12 06:26 4011 Dec 13 02:50 4011 Dec 13 02:08 4011 Dec 18 13:17	21° \$\times^7 57'02 20° \$\times^7 49'00 20° \$\times^7 51'21 14° \$\times^7 47'25	0°29'13 0°28'55	retrograde evening set min. Earth dist. inferior conj minimum elong	4012 Nov 14 13:36 4012 Nov 20 14:56 4012 Nov 24 22:50 4012 Nov 26 06:17 4012 Nov 26 06:59 4012 Nov 27 13:29	13° ₹36'23 11° ₹05'40 6° ₹23'33 4° ₹43'51 4° ₹41'38	0.66984 AU -0°26'44
inferior conj minimum elong morning rise	4011 Dec 12 06:26 4011 Dec 13 02:50 4011 Dec 13 02:08 4011 Dec 18 13:17 4011 Dec 22 07:08	21° \$\times^7 57'02 20° \$\times^4 49'00 20° \$\times^7 51'21 14° \$\times^4 47'25 13° \$\times^7 27'02	0°29'13 0°28'55	retrograde evening set min. Earth dist. inferior conj minimum elong	4012 Nov 14 13:36 4012 Nov 20 14:56 4012 Nov 24 22:50 4012 Nov 26 06:17 4012 Nov 26 06:59	13° 🖈 36'23 11° 🖈 05'40 6° 🖈 23'33 4° 🖈 43'51 4° 🖈 41'38 3° 🖈 06'26	0.66984 AU -0°26'44
inferior conj minimum elong morning rise direct	4011 Dec 12 06:26 4011 Dec 13 02:50 4011 Dec 13 02:08 4011 Dec 18 13:17 4011 Dec 22 07:08 4011 Dec 29 22:14	21° 🖈 57'02 20° 🖈 49'00 20° 🖈 51'21 14° 🖈 47'25 13° 🖈 27'02 17° 🖈 47'12	0°29'13 0°28'55	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	4012 Nov 14 13:36 4012 Nov 20 14:56 4012 Nov 24 22:50 4012 Nov 26 06:17 4012 Nov 26 06:59 4012 Nov 27 13:29 4012 Nov 30 10:53	13° ₹36'23 11° ₹05'40 6° ₹23'33 4° ₹43'51 4° ₹41'38 3° ₹06'26 30° RML	0.66984 AU -0°26'44
inferior conj minimum elong morning rise direct morning max el	4011 Dec 12 06:26 4011 Dec 13 02:50 4011 Dec 13 02:08 4011 Dec 18 13:17 4011 Dec 22 07:08 4011 Dec 29 22:14 4012 Jan 08 15:36	21° ₹57'02 20° ₹49'00 20° ₹51'21 14° ₹47'25 13° ₹27'02 17° ₹47'12 0°る	0°29'13 0°28'55	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	4012 Nov 14 13:36 4012 Nov 20 14:56 4012 Nov 24 22:50 4012 Nov 26 06:17 4012 Nov 26 06:59 4012 Nov 27 13:29 4012 Nov 30 10:53 4012 Dec 01 23:24	13° \$\tilde{\$7}36'23 11° \$\tilde{\$7}05'40 6° \$\tilde{\$2}23'33 4° \$\tilde{\$4}43'51 4° \$\tilde{\$4}41'38 3° \$\tilde{\$7}06'26 30° RM 28° \$\tilde{\$1}50'44	0.66984 AU -0°26'44
inferior conj minimum elong morning rise direct morning max el desc. node	4011 Dec 12 06:26 4011 Dec 13 02:50 4011 Dec 13 02:08 4011 Dec 18 13:17 4011 Dec 22 07:08 4011 Dec 29 22:14 4012 Jan 08 15:36 4012 Jan 17 17:04	21° ₹57'02 20° ₹49'00 20° ₹51'21 14° ₹47'25 13° ₹27'02 17° ₹47'12 0° ጜ 13° ጜ19'06	0°29'13 0°28'55	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	4012 Nov 14 13:36 4012 Nov 20 14:56 4012 Nov 24 22:50 4012 Nov 26 06:17 4012 Nov 26 06:59 4012 Nov 27 13:29 4012 Nov 30 10:53 4012 Dec 01 23:24 4012 Dec 05 05:50	13° \$\tilde{\$7}36'23 11° \$\tilde{\$7}05'40 6° \$\tilde{\$2}23'33 4° \$\tilde{\$4}43'51 4° \$\tilde{\$4}41'38 3° \$\tilde{\$7}06'26 30° RML 28° \$\tilde{\$1}50'44 27° \$\tilde{\$1}49'23	0.66984 AU -0°26'44
inferior conj minimum elong morning rise direct morning max el desc. node	4011 Dec 12 06:26 4011 Dec 13 02:50 4011 Dec 13 02:08 4011 Dec 18 13:17 4011 Dec 22 07:08 4011 Dec 29 22:14 4012 Jan 08 15:36 4012 Jan 17 17:04 4012 Jan 25 22:39	21° ₹57'02 20° ₹49'00 20° ₹51'21 14° ₹47'25 13° ₹27'02 17° ₹47'12 0° ₹ 13° ₹19'06 25° ₹53'04	0°29'13 0°28'55	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	4012 Nov 14 13:36 4012 Nov 20 14:56 4012 Nov 24 22:50 4012 Nov 26 06:17 4012 Nov 26 06:59 4012 Nov 27 13:29 4012 Nov 30 10:53 4012 Dec 01 23:24 4012 Dec 05 05:50 4012 Dec 10 07:52	13° \$\tilde{\$7}36'23 11° \$\tilde{\$7}05'40 6° \$\tilde{\$2}23'33 4° \$\tilde{\$4}43'51 4° \$\tilde{\$4}41'38 3° \$\tilde{\$7}06'26 30° RML 28° \$\tilde{\$15}0'44 27° \$\tilde{\$14}49'23 0° \$\tilde{\$7}\$	0.66984 AU -0°26'44 0°26'25
inferior conj minimum elong morning rise direct morning max el desc. node morning set	4011 Dec 12 06:26 4011 Dec 13 02:50 4011 Dec 13 02:08 4011 Dec 18 13:17 4011 Dec 22 07:08 4011 Dec 29 22:14 4012 Jan 08 15:36 4012 Jan 17 17:04 4012 Jan 25 22:39 4012 Jan 28 14:23	21° ₹57'02 20° ₹49'00 20° ₹51'21 14° ₹47'25 13° ₹27'02 17° ₹47'12 0° ₹ 13° ₹19'06 25° ₹53'04 0° ≈	0°29'13 0°28'55 20°04'36	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	4012 Nov 14 13:36 4012 Nov 20 14:56 4012 Nov 24 22:50 4012 Nov 26 06:17 4012 Nov 26 06:59 4012 Nov 27 13:29 4012 Nov 30 10:53 4012 Dec 01 23:24 4012 Dec 05 05:50 4012 Dec 10 07:52 4012 Dec 12 04:44	13° \$\times^3 36'23 11° \$\times^0 05'40 6° \$\times^2 23'33 4° \$\times^4 43'51 4° \$\times^4 41'38 3° \$\times^0 06'26 30° RM 28° \$M\$.50'44 27° \$M\$.49'23 0° \$\times^1 \times^4 41'18 0° \$\times^3 \times^5 44'17	0.66984 AU -0°26'44 0°26'25
inferior conj minimum elong morning rise direct morning max el desc. node morning set	4011 Dec 12 06:26 4011 Dec 13 02:50 4011 Dec 13 02:08 4011 Dec 18 13:17 4011 Dec 22 07:08 4011 Dec 29 22:14 4012 Jan 08 15:36 4012 Jan 17 17:04 4012 Jan 25 22:39 4012 Jan 28 14:23	21° ₹57'02 20° ₹49'00 20° ₹51'21 14° ₹47'25 13° ₹27'02 17° ₹47'12 0° ₹ 13° ₹19'06 25° ₹53'04 0° ≈	0°29'13 0°28'55 20°04'36 1.43913 AU	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	4012 Nov 14 13:36 4012 Nov 20 14:56 4012 Nov 24 22:50 4012 Nov 26 06:17 4012 Nov 26 06:59 4012 Nov 27 13:29 4012 Nov 30 10:53 4012 Dec 01 23:24 4012 Dec 05 05:50 4012 Dec 10 07:52 4012 Dec 12 04:44 4013 Jan 01 04:24	13° ₹36'23 11° ₹05'40 6° ₹23'33 4° ₹43'51 4° ₹41'38 3° ₹06'26 30° ₹M 28° № 50'44 27° № 49'23 0° ₹ 1° ₹41'18 0° ₹	0.66984 AU -0°26'44 0°26'25
inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	4011 Dec 12 06:26 4011 Dec 13 02:50 4011 Dec 13 02:08 4011 Dec 18 13:17 4011 Dec 22 07:08 4011 Dec 29 22:14 4012 Jan 08 15:36 4012 Jan 17 17:04 4012 Jan 25 22:39 4012 Jan 28 14:23 4012 Feb 05 16:11 4012 Feb 11 05:15 4012 Feb 11 01:14	21° ズ 57'02 20° ズ 49'00 20° ズ 51'21 14° ズ 47'25 13° ズ 27'02 17° ズ 47'12 0° 云 13° 云 19'06 25° 云 53'04 0° ≈ 12° ≈ 43'33 21° ≈ 41'30 21° ≈ 25'05	0°29'13 0°28'55 20°04'36 1.43913 AU -2°03'39	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el desc. node	4012 Nov 14 13:36 4012 Nov 20 14:56 4012 Nov 24 22:50 4012 Nov 26 06:17 4012 Nov 26 06:59 4012 Nov 27 13:29 4012 Nov 30 10:53 4012 Dec 01 23:24 4012 Dec 10 07:52 4012 Dec 12 04:44 4013 Jan 01 04:24 4013 Jan 03 14:05 4013 Jan 04 02:24 4013 Jan 18 07:55	13° \$\times^3 36'23 11° \$\times^0 5'40 6° \$\times^2 23'33 4° \$\times^4 41'38 3° \$\times^0 06'26 30° RM 28° \$\times 50'44 27° \$\times 49'23 0° \$\times^1 1° \$\times^4 41'18 0° \$\times 30' \times 44'17 4° \$\times 32'16 26° \$\times 47'01	0.66984 AU -0°26'44 0°26'25
inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	4011 Dec 12 06:26 4011 Dec 13 02:50 4011 Dec 13 02:08 4011 Dec 18 13:17 4011 Dec 22 07:08 4011 Dec 29 22:14 4012 Jan 08 15:36 4012 Jan 17 17:04 4012 Jan 25 22:39 4012 Jan 28 14:23 4012 Feb 05 16:11 4012 Feb 11 05:15 4012 Feb 11 01:14 4012 Feb 16 05:42	21° ズ 57'02 20° ズ 49'00 20° ズ 47'25 13° ズ 27'02 17° ズ 47'12 0° 云 13° 云 19'06 25° 云 53'04 0° ≈ 12° ≈ 43'33 21° ≈ 41'30 21° ≈ 25'05 0° 米	0°29'13 0°28'55 20°04'36 1.43913 AU -2°03'39	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el desc. node morning set	4012 Nov 14 13:36 4012 Nov 20 14:56 4012 Nov 24 22:50 4012 Nov 26 06:17 4012 Nov 26 06:59 4012 Nov 27 13:29 4012 Nov 30 10:53 4012 Dec 01 23:24 4012 Dec 10 07:52 4012 Dec 12 04:44 4013 Jan 01 04:24 4013 Jan 03 14:05 4013 Jan 04 02:24	13° \$\times^3 36'23 11° \$\times^0 5'40 6° \$\times^2 23'33 4° \$\times^4 41'38 3° \$\times^0 06'26 30° RM 28° \$\times 50'44 27° \$\times 49'23 0° \$\times^1 \times^4 41'18 0° \$\times 3° \times 44'17 4° \$\times 32'16	0.66984 AU -0°26'44 0°26'25
inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	4011 Dec 12 06:26 4011 Dec 13 02:50 4011 Dec 13 02:08 4011 Dec 18 13:17 4011 Dec 22 07:08 4011 Dec 29 22:14 4012 Jan 08 15:36 4012 Jan 17 17:04 4012 Jan 25 22:39 4012 Jan 28 14:23 4012 Feb 05 16:11 4012 Feb 11 05:15 4012 Feb 11 01:14 4012 Feb 16 05:42 4012 Feb 24 05:02	21° ズ 57'02 20° ズ 49'00 20° ズ 47'25 13° ズ 27'02 17° ズ 47'12 0° 云 13° 云 19'06 25° 云 53'04 0° ≈ 12° ≈ 43'33 21° ≈ 25'05 0° 米 13° 沃 34'09	0°29'13 0°28'55 20°04'36 1.43913 AU -2°03'39	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el desc. node morning set max. Earth dist.	4012 Nov 14 13:36 4012 Nov 20 14:56 4012 Nov 24 22:50 4012 Nov 26 06:17 4012 Nov 26 06:59 4012 Nov 30 10:53 4012 Dec 01 23:24 4012 Dec 05 05:50 4012 Dec 10 07:52 4012 Dec 12 04:44 4013 Jan 01 04:24 4013 Jan 04 02:24 4013 Jan 18 07:55 4013 Jan 20 08:50	13° ₹36′23 11° ₹05′40 6° ₹23′33 4° ₹43′51 4° ₹41′38 3° ₹06′26 30° RIL 28° IL 50′44 27° IL 49′23 0° ₹ 1° ₹41′18 0° ₹ 3° ₹44′17 4° ₹32′16 26° ₹47′01 0° ≈	0.66984 AU -0°26'44 0°26'25 19°06'10 1.44947 AU
inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	4011 Dec 12 06:26 4011 Dec 13 02:50 4011 Dec 13 02:08 4011 Dec 18 13:17 4011 Dec 22 07:08 4011 Dec 29 22:14 4012 Jan 08 15:36 4012 Jan 17 17:04 4012 Jan 25 22:39 4012 Jan 28 14:23 4012 Feb 05 16:11 4012 Feb 11 05:15 4012 Feb 11 01:14 4012 Feb 16 05:42 4012 Feb 24 05:02 4012 Mar 04 21:22	21° ₹57'02 20° ₹49'00 20° ₹51'21 14° ₹47'25 13° ₹27'02 17° ₹47'12 0° ₹ 13° ₹319'06 25° ₹53'04 0° ≈ 12° ≈43'33 21° ≈43'33 21° ≈25'05 0° ¥ 13° ₹34'09 0° ♀	0°29'13 0°28'55 20°04'36 1.43913 AU -2°03'39	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el desc. node morning set max. Earth dist.	4012 Nov 14 13:36 4012 Nov 20 14:56 4012 Nov 24 22:50 4012 Nov 26 06:17 4012 Nov 26 06:59 4012 Nov 27 13:29 4012 Nov 30 10:53 4012 Dec 01 23:24 4012 Dec 10 07:52 4012 Dec 10 07:52 4012 Dec 12 04:44 4013 Jan 01 04:24 4013 Jan 03 14:05 4013 Jan 04 02:24 4013 Jan 18 07:55 4013 Jan 20 08:50	13° ₹36'23 11° ₹05'40 6° ₹23'33 4° ₹43'51 4° ₹41'38 3° ₹06'26 30° ₹ML 28° M.50'44 27° M.49'23 0° ₹ 1° ₹41'18 0° ₹ 3° ₹44'17 4° ₹32'16 26° ₹47'01 0° ≈ 0° ≈ 39'41	0.66984 AU -0°26'44 0°26'25 19°06'10 1.44947 AU -1°41'18
inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	4011 Dec 12 06:26 4011 Dec 13 02:50 4011 Dec 13 02:08 4011 Dec 18 13:17 4011 Dec 22 07:08 4011 Dec 29 22:14 4012 Jan 08 15:36 4012 Jan 17 17:04 4012 Jan 25 22:39 4012 Jan 28 14:23 4012 Feb 05 16:11 4012 Feb 11 05:15 4012 Feb 11 01:14 4012 Feb 16 05:42 4012 Feb 24 05:02 4012 Mar 04 21:22 4012 Mar 08 15:45	21° ₹57'02 20° ₹49'00 20° ₹51'21 14° ₹47'25 13° ₹27'02 17° ₹47'12 0° ₹ 13° ₹19'06 25° ₹53'04 0° ≈ 12° ≈43'33 21° ≈43'33 21° ≈41'30 21° ≈25'05 0° 升 13° 升34'09 0° Υ 5° Υ44'50	0°29'13 0°28'55 20°04'36 1.43913 AU -2°03'39 2°03'30	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el desc. node morning set max. Earth dist.	4012 Nov 14 13:36 4012 Nov 20 14:56 4012 Nov 24 22:50 4012 Nov 26 06:17 4012 Nov 26 06:59 4012 Nov 27 13:29 4012 Nov 30 10:53 4012 Dec 01 23:24 4012 Dec 05 05:50 4012 Dec 10 07:52 4012 Dec 12 04:44 4013 Jan 01 04:24 4013 Jan 03 14:05 4013 Jan 04 02:24 4013 Jan 18 07:55 4013 Jan 20 08:50 4013 Jan 20 08:50	13° ₹36'23 11° ₹05'40 6° ₹23'33 4° ₹43'51 4° ₹41'38 3° ₹06'26 30° ₹ML 28° ML50'44 27° ML49'23 0° ₹ 1° ₹41'18 0° ₹ 3° ₹44'17 4° ₹32'16 26° ₹47'01 0° ≈ 0° ≈ 39'41 0° ≈ 04'32	0.66984 AU -0°26'44 0°26'25 19°06'10 1.44947 AU -1°41'18
inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	4011 Dec 12 06:26 4011 Dec 13 02:50 4011 Dec 13 02:08 4011 Dec 18 13:17 4011 Dec 22 07:08 4011 Dec 29 22:14 4012 Jan 08 15:36 4012 Jan 17 17:04 4012 Jan 25 22:39 4012 Jan 28 14:23 4012 Feb 05 16:11 4012 Feb 11 05:15 4012 Feb 11 01:14 4012 Feb 16 05:42 4012 Feb 24 05:02 4012 Mar 04 21:22 4012 Mar 08 15:45 4012 Mar 13 01:08	21° ₹57'02 20° ₹49'00 20° ₹45'121 14° ₹47'25 13° ₹27'02 17° ₹47'12 0° ₹ 13° ₹19'06 25° ₹53'04 0° ≈ 12° ≈43'33 21° ≈43'33 21° ≈41'30 21° ≈25'05 0° ¥ 13° ¥34'09 0° ♀ 5° ♀44'50 11° ♀08'14	0°29'13 0°28'55 20°04'36 1.43913 AU -2°03'39	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el desc. node morning set max. Earth dist.	4012 Nov 14 13:36 4012 Nov 20 14:56 4012 Nov 24 22:50 4012 Nov 26 06:17 4012 Nov 26 06:59 4012 Nov 30 10:53 4012 Dec 01 23:24 4012 Dec 05 05:50 4012 Dec 10 07:52 4012 Dec 12 04:44 4013 Jan 01 04:24 4013 Jan 03 14:05 4013 Jan 04 02:24 4013 Jan 18 07:55 4013 Jan 20 08:50 4013 Jan 20 09:59 4013 Feb 04 13:49	13° ₹36'23 11° ₹05'40 6° ₹23'33 4° ₹43'51 4° ₹41'38 3° ₹06'26 30° ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹ ₹	0.66984 AU -0°26'44 0°26'25 19°06'10 1.44947 AU -1°41'18
inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde	4011 Dec 12 06:26 4011 Dec 13 02:50 4011 Dec 13 02:08 4011 Dec 18 13:17 4011 Dec 22 07:08 4011 Dec 29 22:14 4012 Jan 08 15:36 4012 Jan 17 17:04 4012 Jan 25 22:39 4012 Jan 28 14:23 4012 Feb 05 16:11 4012 Feb 11 05:15 4012 Feb 11 01:14 4012 Feb 16 05:42 4012 Feb 24 05:02 4012 Mar 04 21:22 4012 Mar 08 15:45 4012 Mar 13 01:08 4012 Mar 19 11:26	21° ₹57'02 20° ₹49'00 20° ₹51'21 14° ₹47'25 13° ₹27'02 17° ₹47'12 0° ₹ 13° ₹19'06 25° ₹53'04 0° ≈ 12° ≈43'33 21° ≈43'33 21° ≈41'30 21° ≈25'05 0° ¥ 13° ¥34'09 0° ♀ 5° ♀ 44'50 11° ♀ 08'14 14° ♀ 31'46	0°29'13 0°28'55 20°04'36 1.43913 AU -2°03'39 2°03'30	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	4012 Nov 14 13:36 4012 Nov 20 14:56 4012 Nov 24 22:50 4012 Nov 26 06:17 4012 Nov 26 06:59 4012 Nov 30 10:53 4012 Dec 01 23:24 4012 Dec 10 07:52 4012 Dec 10 07:52 4012 Dec 12 04:44 4013 Jan 01 04:24 4013 Jan 04 02:24 4013 Jan 18 07:55 4013 Jan 20 08:50 4013 Jan 20 08:50 4013 Jan 20 09:59 4013 Feb 04 13:49 4013 Feb 07 22:24	13° \$\frac{3}{3}6'23 11° \$\frac{3}{0}5'40 6° \$\frac{2}{2}3'33 4° \$\frac{3}{4}3'51 4° \$\frac{3}{4}1'38 3° \$\frac{3}{0}6'26 30° \$\mathbb{m}\$ 28° \$\mathbb{m}\$50'44 27° \$\mathbb{m}\$49'23 0° \$\frac{3}{4}4'17 4° \$\frac{3}{3}2'16 26° \$\frac{3}{4}7'01 0° \$\infty\$ 0° \$\infty\$ 32'16 26° \$\frac{3}{4}7'01 0° \$\infty\$ 0° \$\infty\$ 32'16 26° \$\frac{3}{4}7'01 0° \$\infty\$ 0° \$\infty\$ 32'16 26° \$\infty\$ 32'16 26° \$\infty\$ 32'16 0° \$\infty\$ 3	0.66984 AU -0°26'44 0°26'25 19°06'10 1.44947 AU -1°41'18
inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde evening set	4011 Dec 12 06:26 4011 Dec 13 02:50 4011 Dec 13 02:08 4011 Dec 18 13:17 4011 Dec 22 07:08 4011 Dec 29 22:14 4012 Jan 08 15:36 4012 Jan 17 17:04 4012 Jan 25 22:39 4012 Jan 28 14:23 4012 Feb 05 16:11 4012 Feb 11 05:15 4012 Feb 11 01:14 4012 Feb 16 05:42 4012 Feb 24 05:02 4012 Mar 04 21:22 4012 Mar 08 15:45 4012 Mar 13 01:08 4012 Mar 19 11:26 4012 Mar 22 08:17	21° ズ 57'02 20° ズ 49'00 20° ズ 51'21 14° ズ 47'25 13° ズ 27'02 17° ズ 47'12 0° 云 13° 云 19'06 25° 云 53'04 0° æ 12° æ 43'33 21° æ 41'30 21° æ 25'05 0° 沃 13° 沃 34'09 0° Ŷ 5° Ŷ 44'50 11° Ŷ 08'14 14° Ŷ 31'46 13° Ŷ 49'32	0°29'13 0°28'55 20°04'36 1.43913 AU -2°03'39 2°03'30	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	4012 Nov 14 13:36 4012 Nov 20 14:56 4012 Nov 24 22:50 4012 Nov 26 06:17 4012 Nov 26 06:59 4012 Nov 30 10:53 4012 Dec 01 23:24 4012 Dec 10 07:52 4012 Dec 12 04:44 4013 Jan 01 04:24 4013 Jan 03 14:05 4013 Jan 04 02:24 4013 Jan 20 08:50 4013 Jan 20 08:50 4013 Jan 20 09:59 4013 Feb 04 13:49 4013 Feb 07 22:24 4013 Feb 07 22:24 4013 Feb 23 12:47	13° \$\frac{3}{3}6'23 11° \$\frac{3}{2}05'40 6° \$\frac{3}{2}3'33 4° \$\frac{3}{4}3'51 4° \$\frac{3}{4}1'38 3° \$\frac{3}{0}6'26 30° \$\frac{11}{8}\frac{2}{6}\frac{3}{2}0'44 27° \$\frac{1}{4}49'23 0° \$\frac{3}{4}41'18 0° \$\frac{3}{3}^3 \$\frac{3}{4}4'17 4° \$\frac{3}{3}2'16 26° \$\frac{3}{4}7'01 0° \$\approx \text{30} \text{32} 24° \$\approx 29'10 0° \$\frac{1}{4} 23° \$\frac{1}{4}27'12	0.66984 AU -0°26'44 0°26'25 19°06'10 1.44947 AU -1°41'18 1°40'31
inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el retrograde	4011 Dec 12 06:26 4011 Dec 13 02:50 4011 Dec 13 02:08 4011 Dec 18 13:17 4011 Dec 22 07:08 4011 Dec 29 22:14 4012 Jan 08 15:36 4012 Jan 17 17:04 4012 Jan 25 22:39 4012 Jan 28 14:23 4012 Feb 05 16:11 4012 Feb 11 05:15 4012 Feb 11 01:14 4012 Feb 16 05:42 4012 Feb 24 05:02 4012 Mar 04 21:22 4012 Mar 08 15:45 4012 Mar 13 01:08 4012 Mar 19 11:26	21° ₹57'02 20° ₹49'00 20° ₹51'21 14° ₹47'25 13° ₹27'02 17° ₹47'12 0° ₹ 13° ₹19'06 25° ₹53'04 0° ≈ 12° ≈43'33 21° ≈43'33 21° ≈41'30 21° ≈25'05 0° ¥ 13° ¥34'09 0° ♀ 5° ♀ 44'50 11° ♀ 08'14 14° ♀ 31'46	0°29'13 0°28'55 20°04'36 1.43913 AU -2°03'39 2°03'30	retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	4012 Nov 14 13:36 4012 Nov 20 14:56 4012 Nov 24 22:50 4012 Nov 26 06:17 4012 Nov 26 06:59 4012 Nov 30 10:53 4012 Dec 01 23:24 4012 Dec 10 07:52 4012 Dec 10 07:52 4012 Dec 12 04:44 4013 Jan 01 04:24 4013 Jan 04 02:24 4013 Jan 18 07:55 4013 Jan 20 08:50 4013 Jan 20 08:50 4013 Jan 20 09:59 4013 Feb 04 13:49 4013 Feb 07 22:24	13° \$\frac{3}{3}6'23 11° \$\frac{3}{0}5'40 6° \$\frac{2}{2}3'33 4° \$\frac{3}{4}3'51 4° \$\frac{3}{4}1'38 3° \$\frac{3}{0}6'26 30° \$\mathbb{m}\$ 28° \$\mathbb{m}\$50'44 27° \$\mathbb{m}\$49'23 0° \$\frac{3}{4}4'17 4° \$\frac{3}{3}2'16 26° \$\frac{3}{4}7'01 0° \$\infty\$ 0° \$\infty\$ 32'16 26° \$\frac{3}{4}7'01 0° \$\infty\$ 0° \$\infty\$ 32'16 26° \$\frac{3}{4}7'01 0° \$\infty\$ 0° \$\infty\$ 32'16 26° \$\infty\$ 32'16 26° \$\infty\$ 32'16 0° \$\infty\$ 3	0.66984 AU -0°26'44 0°26'25 19°06'10 1.44947 AU -1°41'18 1°40'31

	4012.14 02 02 12	2001/05/52			4014 F. J. 10, 07 05	100\(50142	
retrograde	4013 Mar 03 02:12	28° ₩ 07'53		evening set	4014 Feb 18 07:25	10°) 52'43	
evening set	4013 Mar 06 04:57	27°) 13′37		inferior conj	4014 Feb 23 20:32	5°) €03'43	3°24'13
inferior conj	4013 Mar 11 23:55	21°) 40'48	3°36'00	minimum elong	4014 Feb 23 18:49	5°) €09'11	3°23'59
minimum elong	4013 Mar 11 23:23	21°) 42′23	3°35'58	min. Earth dist.	4014 Feb 25 07:29	3° ∺ 11'59	0.66115 AU
min. Earth dist.	4013 Mar 14 02:10	19° ∺ 12'02	0.64668 AU		4014 Feb 28 01:05	30°R≈	
morning rise	4013 Mar 17 17:13	15° ¥ 29'57		morning rise	4014 Mar 01 05:54	28° ≈ 50′07	
direct	4013 Mar 24 11:26	12°) 40′30		direct	4014 Mar 07 15:04	26° ≈ 01'18	
desc. node	4013 Apr 01 13:18	15° ∺ 50'04			4014 Mar 16 10:52	0° ℋ	
morning max el	4013 Apr 06 23:43	20°) 33'34	27°18'50	desc. node	4014 Mar 19 10:19	2°) 38'43	
	4013 Apr 15 03:00	0 ° $\mathbf{\gamma}$		morning max el	4014 Mar 20 09:38	3°) (36′19	26°19'32
	4013 May 04 15:48	8°			4014 Apr 09 10:57	$0^{\circ}\mathbf{\Upsilon}$	
morning set	4013 May 12 08:55	14° 8 19'11		morning set	4014 Apr 25 11:59	27° Ƴ 21'59	
max. Earth dist.	4013 May 17 01:47	23° 8 44'55	1.33580 AU	S	4014 Apr 26 21:29	0°8	
	4013 May 20 01:46	0°II		max. Earth dist.	4014 Apr 29 12:53	5° 8 05'57	1.34987 AU
	1010 1.14, 20 01.10	· -		man zarur diot.	101111p1 25 12.05	2 30227	1.5 .507 110
superior conj	4013 May 20 13:00	0° ∏ 59'22	-0°20'20	superior conj	4014 May 04 10:27	14° 8 55'12	-0°49'28
minimum elong	4013 May 20 14:03	1° I I04'55	0°20'07	minimum elong	4014 May 04 10:27 4014 May 04 13:06	15° 8 08'44	0°48'58
•		5° I 109'22	0 2007	asc. node	•		0 46 36
asc. node	4013 May 22 12:03			asc. node	4014 May 09 09:05	25° 8 09'59	
evening rise	4013 May 27 19:01	16° Ⅱ 25'14			4014 May 11 16:52	0°II	
	4013 Jun 03 14:01	0°©		evening rise	4014 May 12 03:25	0° ∏ 54'29	
evening max el	4013 Jun 17 19:19	20° © 29'13	22°06'38		4014 May 29 12:53	0	
desc. node	4013 Jun 28 12:32	26° © 39'56		evening max el	4014 May 30 20:18	1° © 20'55	20°40'39
retrograde	4013 Jun 30 14:35	26° © 50'01		retrograde	4014 Jun 11 03:30	6° © 52'20	
evening set	4013 Jul 03 10:33	26° © 32'10		evening set	4014 Jun 13 04:52	6°9542'05	
min. Earth dist.	4013 Jul 12 00:37	22° © 50'52	0.55008 AU	desc. node	4014 Jun 15 09:34	6°∽10'02	
inferior conj	4013 Jul 12 17:55	22° 5 26'33	-3°51'26	inferior conj	4014 Jun 22 11:28	2° 5 44'48	-2°04'36
minimum elong	4013 Jul 12 09:24	22° © 38'31	3°49'11	minimum elong	4014 Jun 22 05:39	2°\$53'08	2°02'32
morning rise	4013 Jul 21 10:02	18° © 35'49		min. Earth dist.	4014 Jun 23 12:35	2°508'46	0.54900 AU
direct	4013 Jul 24 13:30	18° © 13'49			4014 Jun 27 13:46	30°R Ⅱ	
morning max el	4013 Aug 05 09:28	23°545'14	21°29'29	morning rise	4014 Jul 01 05:50	28° ∏ 38'44	
morning man vi	4013 Aug 10 22:14	0°Ω		direct	4014 Jul 04 22:58	28° I 109'00	
asc. node	4013 Aug 18 11:16	11° Ω 52'24		uncet	4014 Jul 12 00:05	0°95	
morning set	4013 Aug 25 18:19	26°Ω10'57		morning max el	4014 Jul 18 04:07	4°931'04	23°00'07
morning set	=	0° m)		morning max ci		0°Ω	23 0907
	4013 Aug 27 14:08	V III		1-	4014 Aug 04 18:04		
	4012.0 02.01.26	1107 20107	1042122	asc. node	4014 Aug 05 08:18	1° Ω 08'42	
superior conj	4013 Sep 02 01:26	11° Mp 30'07	1°43'22	morning set	4014 Aug 10 05:27	11° Ω 04'00	
minimum elong	4013 Sep 02 00:45	11° Mp 26'32	1°43'21			_	
max. Earth dist.	4013 Sep 06 03:14	19° m 50'38	1.35074 AU	superior conj	4014 Aug 17 06:41	26° Ω 11'07	1°36'46
evening rise	4013 Sep 10 10:26	28° Mp 15'24		minimum elong	4014 Aug 17 04:58	26° Ω 01'56	1°36'38
	4013 Sep 11 08:32	0∘ ⊽			4014 Aug 19 01:39	O° My	
desc. node	4013 Sep 24 11:49	22° ≏ 36'53		max. Earth dist.	4014 Aug 19 23:28	1° m 55'00	1.33693 AU
	4013 Sep 29 09:11	0°M		evening rise	4014 Aug 24 22:48	12°Mp05'12	
evening max el	4013 Oct 15 17:52	20°M12'02	26°42'35		4014 Sep 03 15:11	0∘ ত	
retrograde	4013 Oct 28 18:24	27°M27'30		desc. node	4014 Sep 11 08:51	12° ≙ 27'54	
evening set	4013 Nov 04 08:33	24°M47'48			4014 Sep 24 17:04	0°M₊	
min. Earth dist.	4013 Nov 08 09:34	20°M41'25	0.65962 AU	evening max el	4014 Sep 28 06:05	3°M38'23	27°18'16
inferior conj	4013 Nov 10 04:39	18°MJ34'06		retrograde	4014 Oct 11 17:31	10°M56'50	
minimum elong	4013 Nov 10 07:02	18°ML27'02		evening set	4014 Oct 18 17:29	8°M15'55	
asc. node	4013 Nov 14 10:30	14°ML06'39		min. Earth dist.	4014 Oct 22 12:29	4°M44'18	0.64593 AU
morning rise	4013 Nov 16 06:18	12°ML52'03		inferior conj	4014 Oct 24 19:40	2°M15'13	
direct	4013 Nov 19 03:19	12°M06'02		minimum elong	4014 Oct 24 23:50	2°M03'56	
			18°23'41	minimum ciong		2 11€03 30 30°R Ω	2 20 10
morning max el	4013 Nov 25 17:16	15°M40'36	16 23 41		4014 Oct 26 23:29		
	4013 Dec 06 05:51	0° ⊼ ¹		morning rise	4014 Oct 31 07:22	26° £ 47'10	
morning set	4013 Dec 15 08:08	14° ∡ ³32′00		asc. node	4014 Nov 01 07:31	26° £ 25'33	
desc. node	4013 Dec 21 11:05	24° ∡ ¹20'19		direct	4014 Nov 02 21:25	26° £ 12'32	
	4013 Dec 25 00:40	0°₹		morning max el	4014 Nov 09 09:15	29° ≏ 38'58	17°58'04
					4014 Nov 09 17:31	0°M	
superior conj	4013 Dec 30 21:08	9° る 13'22	-1°01'29	morning set	4014 Nov 26 19:04	25°M58'19	
minimum elong	4013 Dec 30 13:36	8° පි 43'46	1°00'33		4014 Nov 29 04:40	0° ∡	
max. Earth dist.	4014 Jan 01 02:29	11° る 08'29	1.45263 AU	desc. node	4014 Dec 08 08:06	15° х 03′37	
	4014 Jan 13 03:10	0° ≈					
		4° ≈ 27'53		superior conj	4014 Dec 10 08:56	18° ≯ 20′20	-0°13'59
evening rise	4014 Jan 15 23:18			1			
evening rise greatest brilliancy			-0.8m	minimum elong	4014 Dec 10 07:15	18° √ 13'35	0°13'44
evening rise greatest brilliancy	4014 Jan 26 07:44	20° ≈ 41'59	-0.8m	minimum elong behind sun begin	4014 Dec 10 07:15 4014 Dec 10 01:42	18° ∡ 13'35 17° ∡ 751'17	0°13'44
greatest brilliancy	4014 Jan 26 07:44 4014 Feb 01 12:56	20° ≈ 41'59 0° 米		behind sun begin	4014 Dec 10 01:42	17° ∡ 751'17	0°13'44
greatest brilliancy evening max el	4014 Jan 26 07:44 4014 Feb 01 12:56 4014 Feb 07 22:26	20°≈41'59 0°¥ 8°¥01'40	-0.8m 19°10'05	behind sun begin behind sun end	4014 Dec 10 01:42 4014 Dec 10 12:48	17° х 51'17 18° х 35'53	
greatest brilliancy	4014 Jan 26 07:44 4014 Feb 01 12:56	20° ≈ 41'59 0° 米		behind sun begin	4014 Dec 10 01:42	17° ∡ 751'17	0°13'44 1.44842 AU

evening rise	4014 Dec 26 14:24	13° ප් 46'26		max. Earth dist.	4015 Nov 27 13:56	9° ∡ ¹40'57	1.43734 AU
	4015 Jan 06 05:49	0° ≈		evening rise	4015 Dec 06 00:13	22° ₹ 58'56	
greatest brilliancy	4015 Jan 10 01:54	5° ≈ 42'41	-0.6m		4015 Dec 10 14:07	8°0	
evening max el	4015 Jan 22 03:05	21° ≈ 33′23	20°04'23		4015 Dec 31 15:01	0° ≈	
asc. node	4015 Jan 28 06:49	25° ≈ 50′09		evening max el	4016 Jan 05 02:21	5° ≈ 06'58	21°11'38
retrograde	4015 Jan 29 19:47	26° ≈ 03'00		retrograde	4016 Jan 13 17:36	10° ≈ 14′01	
evening set	4015 Feb 02 13:22	24° ≈ 41'51		asc. node	4016 Jan 15 03:50	10° ≈ 02'56	
inferior conj	4015 Feb 07 23:06	18° ≈ 39'03	3°00'38	evening set	4016 Jan 17 20:57	8° ≈ 37'40	
minimum elong	4015 Feb 07 20:45	18° ≈ 46'57	3°00'07	inferior conj	4016 Jan 23 05:17	2° ≈ 23'50	2°27'37
min. Earth dist.	4015 Feb 08 19:56	17° ≈ 28'58	0.67150 AU	minimum elong	4016 Jan 23 02:49		2°26'53
morning rise	4015 Feb 13 03:55	12° ≈ 25′04		min. Earth dist.	4016 Jan 23 13:24	1° ≈ 55'48	0.67775 AU
direct	4015 Feb 19 00:25	9° ≈ 48'03			4016 Jan 24 23:32	30°Rる	
morning max el	4015 Mar 02 18:20	16° ≈ 49'24	25°00'35	morning rise	4016 Jan 28 08:31	26° る 11'11	
desc. node	4015 Mar 06 07:20	20°≈40'05		direct	4016 Feb 02 14:29	23° る 53'22	
	4015 Mar 13 17:22	0° ∀			4016 Feb 12 23:26	0° ≈	22022127
	4015 Apr 02 10:21	0° Υ		morning max el	4016 Feb 13 03:00		23°32'27
morning set	4015 Apr 07 21:51	9° Υ 30'28	1.26020 411	desc. node	4016 Feb 21 04:23	9° ≈ 33'44	
max. Earth dist.	4015 Apr 11 13:01	16° Y 06'39	1.36830 AU		4016 Mar 06 14:22	0°) (20115	
	4015 A 17 22:00	2000017140	1017157	morning set	4016 Mar 19 08:36	20° ¥ 29'15	1.38968 AU
superior conj	4015 Apr 17 22:08	28° Y 17'48		max. Earth dist.	4016 Mar 23 08:16	27° ¥ 21'40 0° Ƴ	1.38968 AU
minimum elong	4015 Apr 18 02:13	28° Y 37'55 0° と	1-1/1/		4016 Mar 24 20:07	U- Y	
avanina riaa	4015 Apr 18 18:52 4015 Apr 26 06:49	15° 8 03'23		aumariar aani	4016 Mar 30 20:19	10° Ƴ 58'09	1942107
evening rise asc. node	4015 Apr 26 06:08	13 8 03 23		superior conj minimum elong	4016 Mar 31 01:05		1°42'36
asc. noue	4015 May 04 02:51	0° I		evening rise	4016 Apr 09 02:33	28° Y 45'14	1 42 30
evening max el	4015 May 13 09:33	12° ∏ 52'22	19°32'12	evening rise	4016 Apr 09 17:58	0° 8	
retrograde	4015 May 22 22:48	12 H 32 22	19 32 12	asc. node	4016 Apr 12 03:11	4° 8 34'43	
evening set	4015 May 24 22:09	17° I I20'05		evening max el	4016 Apr 25 09:32	25° 8 03'00	18°43'41
desc. node	4015 Jun 02 06:35	13° II 27'34		retrograde	4016 May 03 11:13	29° 8 00'23	10 45 41
inferior conj	4015 Jun 02 14:12	13° II 15'27	-0°05'36	evening set	4016 May 05 15:56	28° 8 43'54	
minimum elong	4015 Jun 02 13:57	13° I I15'51	0°05'32	inferior conj	4016 May 13 12:07	24° 8 21'33	1°34'34
transit middle	4015 Jun 02 13:57	13° I I15'51	0°05'32	minimum elong	4016 May 13 15:18	24° 8 15'37	1°33'32
transit begin	4015 Jun 02 10:17	13° Ⅱ 21'42		min. Earth dist.	4016 May 16 19:13	21° 8 55'38	0.57382 AU
transit end	4015 Jun 02 17:37	13° Ⅱ 10'00		desc. node	4016 May 19 03:36	20° 8 22'52	
min. Earth dist.	4015 Jun 05 02:25	11° Ⅱ 39'48	0.55753 AU	morning rise	4016 May 21 11:28	19° 8 09'18	
morning rise	4015 Jun 11 03:04	8° Ⅲ 38'18		direct	4016 May 27 01:08	17° 8 53'06	
direct	4015 Jun 15 17:14	7° Ⅱ 50'55		morning max el	4016 Jun 10 09:39	25° 8 25'00	26°21'50
morning max el	4015 Jun 29 18:03	14° Ⅱ 54'44	24°51'46	-	4016 Jun 14 16:06	$\Pi^{\circ}0$	
	4015 Jul 11 17:28	0ංම			4016 Jul 03 20:18	0°50	
asc. node	4015 Jul 23 05:21	20°5946'22		morning set	4016 Jul 09 04:02	10° 5 47'38	
morning set	4015 Jul 25 17:13	25° © 57'53		asc. node	4016 Jul 09 02:26	10° © 39'11	
	4015 Jul 27 14:30	$0^{\circ}\Omega$					
				superior conj	4016 Jul 16 03:28	25° © 58'01	1°07'58
superior conj	4015 Aug 01 16:02	11° Ω 02'36	1°24'43	minimum elong	4016 Jul 16 01:10	25° © 45'19	1°07'34
minimum elong	4015 Aug 01 13:47	10° Ω 50'19		max. Earth dist.	4016 Jul 16 14:07	26° © 56'41	1.32173 AU
max. Earth dist.	4015 Aug 03 04:04	14° Ω 18'43	1.32729 AU		4016 Jul 17 23:27	0 $^{\circ}\Omega$	
evening rise	4015 Aug 08 20:54	26° Ω 22'25		evening rise	4016 Jul 23 01:45	10° Ω 57'54	
	4015 Aug 10 15:56	0° m ∕			4016 Aug 01 21:26	0°Щ	
	4015 Aug 28 00:32	0∘ ত		desc. node	4016 Aug 15 02:55	20° m 16'24	
desc. node	4015 Aug 29 05:54	1° ≏ 45'36		evening max el	4016 Aug 22 21:45	29° m 01'27	27°00'16
evening max el	4015 Sep 10 16:19	16° £ 39'25	27°25'38		4016 Aug 23 23:14	0∘ ʊ	
retrograde	4015 Sep 24 10:00	23° £ 54'57		retrograde	4016 Sep 05 18:57	6° £ 12'58	
evening set	4015 Oct 01 14:32	21° £ 23'14	0.62004.411	evening set	4016 Sep 12 19:33	4° £ 02'41	0.60025 ATT
min. Earth dist.	4015 Oct 05 05:40	18° £ 22'12		min. Earth dist.	4016 Sep 16 12:00	1° £ 22'33	0.60935 AU
inferior conj	4015 Oct 08 00:35	15° £ 40'13		::	4016 Sep 18 03:12	30°₹ ™	4921151
minimum elong	4015 Oct 08 06:10	15° £ 26'38 10° £ 29'31	3 20 21	inferior conj	4016 Sep 19 16:06	28° Mp 40'32	
morning rise direct	4015 Oct 14 23:20 4015 Oct 17 09:09	10° 2 2931 10° 2 02'37		minimum elong morning rise	4016 Sep 19 21:56 4016 Sep 27 02:11	28° m/28'02 23° m/50'46	7 20 32
asc. node	4015 Oct 17 09:09 4015 Oct 19 04:33	10° 2 202'37		direct	4016 Sep 27 02:11 4016 Sep 29 10:46	23° m/28'36	
morning max el	4015 Oct 19 04.33 4015 Oct 24 01:42	10 ≗ 1811 13° £ 29'04	17°50'12	asc. node	4016 Sep 29 10.46 4016 Oct 05 01:37	25° Mp 40'15	
morning max ci	4015 Nov 04 08:51	0° M	1, 5012	morning max el	4016 Oct 05 01:37 4016 Oct 06 15:30	27° mp 03'12	18°01'02
morning set	4015 Nov 04 08:51 4015 Nov 09 05:55	8°M233'40		morning max or	4016 Oct 09 06:24	ე∘ <u>ი</u>	10 01 02
morning sot	1010 1101 07 03.33	O IIO		morning set	4016 Oct 22 10:08	0 = 21° ⊆ 58'19	
superior conj	4015 Nov 20 20:45	28°M38'55	0°30'01		4016 Oct 26 18:31	0°M	
minimum elong	4015 Nov 20 23:37	28°M50'53			500 20 10.51	- 110	
	4015 Nov 21 16:09	0° ∡ 7		superior conj	4016 Nov 01 11:03	10°M14'45	1°04'13
desc. node	4015 Nov 25 05:10	5° ∡ 750'43		minimum elong	4016 Nov 01 15:13	10°M33'08	1°03'41
				3	-		

max. Earth dist. desc. node	4016 Nov 09 02:00 4016 Nov 11 02:12 4016 Nov 13 03:56	23°M18'47 26°M37'46 0°×7'	1.42074 AU	max. Earth dist. evening rise desc. node	4017 Oct 22 08:46 4017 Oct 26 14:16 4017 Oct 28 23:13	6°M13'54 13°M26'24 17°M21'43	1.40072 AU
evening rise	4016 Nov 14 20:38 4016 Dec 03 00:22	2° メ *43'16 0° る			4017 Nov 05 23:30 4017 Nov 28 05:16	0°る	
evening max el	4016 Dec 17 20:21	18° る 41'41	22°27'53	evening max el	4017 Nov 30 10:31	2° る 19'26	23°47'48
retrograde	4016 Dec 27 13:42	24° る 28'33		retrograde	4017 Dec 11 06:45	8°る43'08	
evening set	4017 Jan 01 04:28	22° る 36'10		evening set	4017 Dec 16 10:20	6° る 34'42	
asc. node	4017 Jan 01 00:53 4017 Jan 06 13:03	22°る43'26 16°る14'36	1°46'45	asc. node	4017 Dec 18 21:55 4017 Dec 21 20:34	4°る00'42 0°る09'19	0°59'14
inferior conj minimum elong	4017 Jan 06 13:05 4017 Jan 06 10:55	16° る 21'58	1°46'43 1°46'00	inferior conj minimum elong	4017 Dec 21 20.34 4017 Dec 21 19:13	0 30919 0° 3 13'54	0°58'41
min. Earth dist.	4017 Jan 06 09:36	16° ろ 26'32	0.68011 AU	min. Earth dist.	4017 Dec 21 19:15 4017 Dec 21 06:15	0°る58'02	0.67885 AU
morning rise	4017 Jan 11 17:16	10° ろ 04'49	0.00011110	mm. Darm dist.	4017 Dec 21 23:18	30°R. ₹	0.07002710
direct	4017 Jan 16 08:24	8° ප 09'39		morning rise	4017 Dec 27 04:07	24° ₹ 04'07	
morning max el	4017 Jan 25 14:50	13° る 35'57	22°04'42	direct	4017 Dec 31 05:15	22° ∡ ³31'42	
desc. node	4017 Feb 07 01:25	29° る 04'21		morning max el	4018 Jan 08 09:07	27° ∡ 13'36	20°44'49
	4017 Feb 07 17:20	0° ≈			4018 Jan 10 22:32	5°0	
morning set	4017 Feb 27 15:03	0°) €06′25		desc. node	4018 Jan 24 22:27	19° る 01'47	
	4017 Feb 27 13:27	0° ∀			4018 Feb 01 06:06	0° ≈	
max. Earth dist.	4017 Mar 05 06:15	9° ∺ 22'06	1.41131 AU	morning set	4018 Feb 06 19:32	8° ≈ 33'41	
	401734 12 00 14	2201/14/00	2001120	max. Earth dist.	4018 Feb 15 10:55	22°≈16'39	1.43033 AU
superior conj	4017 Mar 13 00:14	22°) 44'09			4018 Feb 20 03:51	0°) €	
minimum elong	4017 Mar 13 03:48 4017 Mar 17 01:09	23°¥00'00 0° Y	2°01'09	gunariar agni	4018 Eab 22 04:52	3°){ 24'51	2007/26
evening rise	4017 Mar 23 11:08	0 γ 11° Υ 51'17		superior conj minimum elong	4018 Feb 22 04:52 4018 Feb 22 04:20	3° ∺ 22'37	
asc. node	4017 Mar 30 00:13	23° Y '48'23		evening rise	4018 Mar 06 04:29	24°) 12'27	2 07 33
ase. Hode	4017 Apr 02 17:27	0°8		evening rise	4018 Mar 09 10:55	0°Υ	
evening max el	4017 Apr 08 17:00	7° 8 45'02	18°15'23	asc. node	4018 Mar 16 21:15	12° Y ′34'05	
retrograde	4017 Apr 15 18:43	11° 8 17'22		evening max el	4018 Mar 23 04:40	20° Y ′50′00	18°06'49
evening set	4017 Apr 18 05:56	10° 8 52'22		retrograde	4018 Mar 29 17:46	24° Y 12'45	
inferior conj	4017 Apr 25 07:32	6° 8 09'27	2°43'08	evening set	4018 Apr 01 11:08	23° Y 37'17	
minimum elong	4017 Apr 25 11:02	6° 8 01'48	2°42'19	inferior conj	4018 Apr 07 21:49	18° Ƴ 34'13	3°21'34
min. Earth dist.	4017 Apr 28 17:24	3° 8 12'45	0.59457 AU	minimum elong	4018 Apr 07 23:57	18° Y ′28'54	3°21'18
morning rise	4017 May 02 13:28	0° 8 28'55		min. Earth dist.	4018 Apr 10 23:17	15° Y 31'35	0.61642 AU
	4017 May 03 10:57	30°₹ Υ		morning rise	4018 Apr 14 11:01	12° Υ 35'57	
desc. node	4017 May 06 00:37	29°Υ00'39		direct	4018 Apr 21 06:27	10° Υ 12'28 10° Υ 20'13	
direct	4017 May 08 22:11 4017 May 14 14:41	28° Y 37'32 0° と		desc. node morning max el	4018 Apr 22 21:39 4018 May 05 10:48	10° γ 2013 18° Υ 10'47	27°51'06
morning max el	4017 May 23 07:06	6° 8 26'56	27°24'33	morning max er	4018 May 15 08:36	0° 8	27 31 00
morning max ci	4017 Jun 09 21:50	0°II	21 2433		4018 Jun 02 16:04	0°II	
morning set	4017 Jun 23 12:14	25° Ⅱ 27'47		morning set	4018 Jun 07 15:47	9° ∏ 51'32	
asc. node	4017 Jun 25 23:31	0° © 41'45		asc. node	4018 Jun 12 20:32	20° Ⅱ 48'59	
	4017 Jun 25 15:43	0°€		max. Earth dist.	4018 Jun 13 11:23	22° I 109'20	1.32276 AU
max. Earth dist.	4017 Jun 30 01:53	9° 5 38'03	1.32016 AU				
				superior conj	4018 Jun 15 01:28	25° Ⅱ 36'47	0°22'59
superior conj	4017 Jun 30 15:12	10° © 51'28	0°47'11	minimum elong	4018 Jun 15 00:26	25° Ⅱ 31′06	0°22'45
minimum elong	4017 Jun 30 13:19	10° © 41'02	0°46'48		4018 Jun 17 01:33	0ა ௐ	
evening rise	4017 Jul 07 10:55	25° © 43'57		evening rise	4018 Jun 21 22:18	10° © 33'16	
	4017 Jul 09 11:50	0° N		i1	4018 Jul 01 20:31	0°Ω 21°Ω2417	24929111
desc. node	4017 Jul 26 19:12 4017 Aug 01 23:56	0° т) 7° т)41′12		evening max el desc. node	4018 Jul 17 11:14 4018 Jul 19 20:57	21° Ω 24'17 23° Ω 32'38	24°38'11
evening max el	4017 Aug 01 23:30 4017 Aug 04 20:00	10° Mp 35'37	26°02'14	retrograde	4018 Jul 31 09:01	$28^{\circ} \Omega 25'59$	
retrograde	4017 Aug 18 19:21	17° Mp 44'10	20 02 14	evening set	4018 Aug 05 11:41	27° Ω 27'11	
evening set	4017 Aug 25 03:46	16° Mp 06'54		min. Earth dist.	4018 Aug 10 22:27	24° Ω 37'21	0.56932 AU
min. Earth dist.	4017 Aug 29 08:32	13° Mp 31'26	0.58860 AU	inferior conj	4018 Aug 13 17:23	22° Ω 49'21	
inferior conj	4017 Sep 01 14:41	11° m 06'50		minimum elong	4018 Aug 13 15:59	22° Ω 51'38	5°09'43
minimum elong	4017 Sep 01 18:24	10° m 59'53	4°59'50	morning rise	4018 Aug 21 22:50	18° Ω 44'16	
morning rise	4017 Sep 09 11:17	6° Mp 40′14		direct	4018 Aug 24 13:54	18° Ω 25'10	
direct	4017 Sep 11 21:41	6° Mp 20′31		morning max el	4018 Sep 02 22:09	22° Ω 47'23	19°24'19
morning max el	4017 Sep 19 23:27	10° mp 13'01	18°31'59	asc. node	4018 Sep 08 19:45	29° Ω 56'45	
asc. node	4017 Sep 21 22:42	12° m 18'33			4018 Sep 08 20:38	0° m	
	4017 Oct 02 23:45	0∘ ʊ		morning set	4018 Sep 20 03:35	20° m/21'38	
morning set	4017 Oct 06 02:39	5° ≏ 58'10			4018 Sep 24 22:52	0∘ ⊽	
superior conj	4017 Oct 14 23:42	22° £ 56'32	1°27'15	superior conj	1018 San 28 05:05	6° £ 27'06	1°40'06
minimum elong	4017 Oct 14 23:42 4017 Oct 15 03:03	22° £ 36′32 23° £ 12′07		minimum elong	4018 Sep 28 05:05 4018 Sep 28 06:50	6° £ 27'06 6° £ 35'35	1°40'01
mmmum ciong	4017 Oct 13 03:03 4017 Oct 18 20:13	0°M	1 20 30	max. Earth dist.	4018 Oct 04 12:53	18° £ 27'34	1.37983 AU
	.01, 000 10 20.13	O IIO		man. Darm uist.	1010 000 07 12.33	10 -2/34	1.57705 AU

	4010 0 4 00 07 07	250 0 12116		1	4010 A 26 16 47	100 001107	
evening rise	4018 Oct 08 07:07	25° £ 13'16		asc. node	4019 Aug 26 16:47	18° Ω 21'27	
	4018 Oct 11 01:15	0°M,		_	4019 Sep 01 22:43	0° m	
desc. node	4018 Oct 15 20:15	7°M57'59		morning set	4019 Sep 04 10:08	5° ™ 01'08	
	4018 Oct 30 14:40	0° ⊼					
evening max el	4018 Nov 12 23:01	16° ₰ 00'49	25°04'55	superior conj	4019 Sep 11 22:29	20° M 32'54	1°44'17
retrograde	4018 Nov 24 19:39	22° ₹ 52'58		minimum elong	4019 Sep 11 22:36	20° m 33'27	1°44'18
evening set	4018 Nov 30 12:53	20° ∡ ¹29'46			4019 Sep 16 16:03	0∘ ত	
min. Earth dist.	4018 Dec 05 00:59	15° ∡ ¹27'08	0.67410 AU	max. Earth dist.	4019 Sep 16 20:16	0° ჲ 20'32	1.36051 AU
asc. node	4018 Dec 05 18:57	14° ∡ ¹28'23		evening rise	4019 Sep 20 20:15	7° £ 56'34	
inferior conj	4018 Dec 06 02:02	14° ₹ 05'08	0°06'04	desc. node	4019 Oct 02 17:16	28° £ 21'41	
minimum elong	4018 Dec 06 01:53	14° ∡ ¹05'38	0°05'59		4019 Oct 03 18:10	0°M₊	
transit middle	4018 Dec 06 01:53	14° ₹ 05'38	0°05'59	evening max el	4019 Oct 26 11:33	29°M43'12	26°11'50
transit begin	4018 Dec 05 23:18	14°× 14'05	0 00 07	evening max er	4019 Oct 26 18:32	0°×7	20 1130
transit end	4018 Dec 06 04:27	13° × ⁷ 57'12		retrograde	4019 Nov 08 03:29	6° х 52'34	
				•			
morning rise	4018 Dec 11 15:04	8°×706'40		evening set	4019 Nov 14 10:21	4°×717'41	0.66501.444
direct	4018 Dec 15 03:45	6° ₹ 54'53		min. Earth dist.	4019 Nov 18 15:22	29°M50'26	0.66591 AU
morning max el	4018 Dec 22 11:12	11° ≯ 02'04	19°37'44		4019 Nov 18 12:13	30°RM₊	
greatest brilliancy	4019 Jan 04 13:54	28° ≯ 22'26	-0.7m	inferior conj	4019 Nov 20 03:35	27°M58'41	-0°51'40
	4019 Jan 05 16:04	0°る		minimum elong	4019 Nov 20 04:58	27°M54'24	0°51'04
desc. node	4019 Jan 11 19:29	9° ರ 18'30		asc. node	4019 Nov 22 15:59	25°M00'48	
morning set	4019 Jan 16 16:00	16° පි 46'26		morning rise	4019 Nov 26 00:05	22°M09'38	
C	4019 Jan 25 03:57	0° ≈		direct	4019 Nov 29 02:17	21°M15'10	
max. Earth dist.	4019 Jan 28 22:40		1.44435 AU	morning max el	4019 Dec 05 20:27	24°ML58'31	18°46'00
max. Earth dist.	401) Juli 20 22.40	3 70.37 30	1.44455 710	morning max er	4019 Dec 03 20:27 4019 Dec 10 02:50	0° ⊼ ¹	10 40 00
	4010 E-L 02 07.40	1290 05 (150)	195(12)				
superior conj	4019 Feb 02 07:40	12°≈56'59		morning set	4019 Dec 27 05:30	25° 🖈 56'40	
minimum elong	4019 Feb 02 01:07	12°≈30'40	1°56'13	desc. node	4019 Dec 29 16:30	29° ∡ ¹48'53	
	4019 Feb 12 17:09	0° ∀			4019 Dec 29 19:20	0°る	
evening rise	4019 Feb 16 02:10	5°) (40′16		max. Earth dist.	4020 Jan 11 16:01	20° る 11'23	1.45177 AU
	4019 Mar 03 05:15	0 ° Υ					
asc. node	4019 Mar 03 18:15	0° Ƴ 42'59		superior conj	4020 Jan 12 14:14	21° る 38'36	-1°26'06
evening max el	4019 Mar 06 17:28	4° Ƴ 09'47	18°17'18	minimum elong	4020 Jan 12 05:01	21° る 02'25	1°25'09
retrograde	4019 Mar 13 03:55	7° Ƴ 36'48		_	4020 Jan 17 21:31	0° ≈	
evening set	4019 Mar 16 03:11	6° Ƴ 49'39		evening rise	4020 Jan 28 00:55	16°≈10'24	
inferior conj	4019 Mar 22 02:53	1° Υ 27'26	3°36'05	greatest brilliancy	4020 Feb 03 20:56	27°≈10'31	-0.9m
minimum elong	4019 Mar 22 02:35 4019 Mar 22 03:15	1° Υ 26'25	3°36'04	greatest of financy	4020 Feb 05 15:22	0° \	0.7111
minimum clong			3 30 04	avanina may al		17° ₩ 37'08	10015151
: D 4 E	4019 Mar 23 09:54	30° ₹	0.62650 ATT	evening max el	4020 Feb 18 04:40		18°45'54
min. Earth dist.	4019 Mar 24 14:15	28°) √41'30	0.63659 AU	asc. node	4020 Feb 18 15:16	18° ∺ 03′28	
morning rise	4019 Mar 28 02:24	25° ¥ 19'51		retrograde	4020 Feb 24 21:03	21° ∺ 20′34	
direct	4019 Apr 03 23:27	22° ∺ 35'35		evening set	4020 Feb 28 02:38	20° ∺ 20'49	
desc. node	4019 Apr 09 18:40	24° ₩ 14'07		inferior conj	4020 Mar 04 18:47	14°) (41′00	3°32'35
	4019 Apr 17 05:18	0 ° $\mathbf{\Upsilon}$		minimum elong	4020 Mar 04 17:41	14°) (44′22	3°32'30
morning max el	4019 Apr 17 18:49	0° Ƴ 33'27	27°40'19	min. Earth dist.	4020 Mar 06 14:26	12°) 27′10	0.65340 AU
	4019 May 09 09:54	$B_{\circ 0}$		morning rise	4020 Mar 10 08:18	8° 升 28'55	
morning set	4019 May 22 12:24	23° 8 51'43		direct	4020 Mar 16 23:24	5° ∺ 38'09	
C	4019 May 25 13:05	0°Ⅲ		desc. node	4020 Mar 26 15:41	10°) 08'32	
max. Earth dist.	4019 May 27 14:46		1.32974 AU	morning max el	4020 Mar 30 04:37	13°) €24'33	26°56'34
max. Earth dist.	101) May 27 11.10	. 1031	1.52)/1110	morning max or	4020 Apr 12 14:15	0° Υ	20 303 .
superior conj	4019 May 30 08:30	10° Ⅱ 08′25	0°03'58		4020 May 01 01:24	0°8	
minimum elong	4019 May 30 08:41	10° Д 0823	0°03'55	morning set	4020 May 01 01.24 4020 May 04 22:57	7° 8 18'11	
_	•		0 03 33	•	· · · · · · · · · · · · · · · · · · ·		1 24120 444
behind sun begin	4019 May 30 03:30	9° ∏ 41'37		max. Earth dist.	4020 May 09 08:32	15° O 5/'49	1.34128 AU
behind sun end	4019 May 30 13:53	10° Ⅲ 37′21					
asc. node	4019 May 30 17:34	10° Ⅱ 57'08		superior conj	4020 May 13 10:08	24° 8 19'06	
evening rise	4019 Jun 06 10:03	25° Ⅱ 20'04		minimum elong	4020 May 13 11:51	24° 8 28'04	0°32'18
	4019 Jun 08 15:38	0°ಲ			4020 May 16 02:58	Π $^{\circ}0$	
	4019 Jun 27 05:47	$0^{\circ}\Omega$		asc. node	4020 May 16 14:35	1° Ⅱ 01'24	
evening max el	4019 Jun 29 00:23	1° Ω 49'26	23°01'37	evening rise	4020 May 20 20:14	9° Ⅱ 57'22	
desc. node	4019 Jul 06 17:56	7° Ω 17'09			4020 May 31 09:17	0°€	
retrograde	4019 Jul 12 09:49	8° Ω 30'15		evening max el	4020 Jun 09 19:10	12° 5 22'49	21°28'10
evening set	4019 Jul 15 23:58	8° Ω 02'06		retrograde	4020 Jun 22 00:08	18°923'28	
min. Earth dist.	4019 Jul 23 09:25		0.55495 AU	desc. node	4020 Jun 22 14:57	18°922'35	
inferior conj	4019 Jul 25 00:38	3° Ω 46'31		evening set	4020 Jun 24 10:09	18°5510'08	2000110
minimum elong	4019 Jul 24 17:30	3° £ 56'54	4°33'30	inferior conj	4020 Jul 03 19:17	14°510'13	
	4019 Aug 02 04:20	30° ₹ 5		minimum elong	4020 Jul 03 11:11	14° © 21'32	
morning rise	4019 Aug 02 13:18	29° © 54'38		min. Earth dist.	4020 Jul 03 20:06	14°509'04	0.54849 AU
direct	4019 Aug 05 11:37	29° 5 34'16		morning rise	4020 Jul 12 13:05	10° © 15'37	
	4019 Aug 08 16:23	$0^{\circ}\Omega$		direct	4020 Jul 15 21:51	9° 5 51'03	
morning max el	4019 Aug 16 09:14	4° Ω 38′07	20°38'11	morning max el	4020 Jul 28 08:48	15°5643'56	22°10'42

	4020 Aug 08 09:21	$0^{\circ}\Omega$			4021 Jul 13 14:01	0∘ ©	
asc. node	4020 Aug 12 13:49	7° Ω 21'27		asc. node	4021 Jul 30 10:52	26°5947'36	
morning set	4020 Aug 18 20:07	19° Ω 50'45			4021 Aug 01 00:59	$0^{\circ}\Omega$	
-	4020 Aug 23 15:03	0° m		morning set	4021 Aug 03 07:42	4° Ω 44'44	
superior conj	4020 Aug 26 00:15	5° Mp 03′21	1°41'17	superior conj	4021 Aug 10 07:29	19° Ω 49'25	1°32'16
minimum elong	4020 Aug 25 23:04	4° ™ 57'08	1°41'14	minimum elong	4021 Aug 10 05:29	19° Ω 38'36	1°32'04
max. Earth dist.	4020 Aug 29 11:36	12° m 17'18	1.34438 AU	max. Earth dist.	4021 Aug 12 11:44		1.33227 AU
evening rise	4020 Sep 03 01:19	21°Mp25'01			4021 Aug 15 02:18	0° m	
	4020 Sep 07 14:51	0∘ 亚		evening rise	4021 Aug 17 18:12	5° mp 27'07	
desc. node	4020 Sep 18 14:17	18° £ 26'53			4021 Aug 31 06:02	0∘ ʊ	
	4020 Sep 26 14:14	0°M	27000156	desc. node	4021 Sep 05 11:19	8° ₾ 05'02	25025112
evening max el	4020 Oct 08 00:13	13°M18'48	2/~00.56	evening max el	4021 Sep 20 11:43	26° £ 35'11	27°25'12
retrograde	4020 Oct 21 05:43 4020 Oct 28 00:37	20°M35'36 17°M54'27			4021 Sep 24 12:03 4021 Oct 04 01:58	0°M 3°M52'52	
evening set min. Earth dist.	4020 Oct 28 00.37 4020 Oct 31 23:02	17 1163427 14°M03'08	0.65421 AU	retrograde evening set	4021 Oct 04 01:38 4021 Oct 11 04:56	1°M14'08	
inferior conj	4020 Oct 31 23:02 4020 Nov 02 23:09	11°M46'01		evening set	4021 Oct 11 04:36 4021 Oct 12 17:36	30°RΩ	
minimum elong	4020 Nov 03 02:19	11°ML37'01	1°51'07	min. Earth dist.	4021 Oct 12 17:30 4021 Oct 14 21:47	27° £ 56'43	0.63905 AU
asc. node	4020 Nov 08 13:01	6°M31'09	1 3107	inferior conj	4021 Oct 17 10:13	25° £ 20'41	
morning rise	4020 Nov 09 04:53	6°M09'27		minimum elong	4021 Oct 17 15:05	25° £ 08'06	
direct	4020 Nov 11 22:46	5°M28'34		morning rise	4021 Oct 24 02:33	19° Ω 59'54	2 02 00
morning max el	4020 Nov 18 10:49	8°M58'20	18°10'46	asc. node	4021 Oct 26 10:05	19° £ 29'07	
	4020 Dec 02 23:31	0° ∡ 7		direct	4021 Oct 26 14:31	19° ≏ 28'57	
morning set	4020 Dec 07 00:10	6° ₹ 35'40		morning max el	4021 Nov 02 03:25	22° ≙ 54'07	17°52'38
desc. node	4020 Dec 15 13:33	20° ∡ °28'51		•	4021 Nov 07 17:22	0°M	
				morning set	4021 Nov 18 22:02	18°M33'25	
superior conj	4020 Dec 21 18:06	0°る20'00	-0°41'33		4021 Nov 25 15:25	0° ∡ ¹	
minimum elong	4020 Dec 21 12:52	29° ₹ 59′20	0°40'50				
	4020 Dec 21 13:03	5°0		superior conj	4021 Dec 01 15:06	9° ∡ 54'43	0°05'38
max. Earth dist.	4020 Dec 24 11:47	4° る 38'46	1.45176 AU	minimum elong	4021 Dec 01 15:43	9° ∡ 757'15	0°05'33
evening rise	4021 Jan 07 01:40	25° る 50'14		behind sun begin	4021 Dec 01 06:21	9° ₰ 19'00	
	4021 Jan 09 17:58	0° ≈		behind sun end	4021 Dec 02 01:05	10° ∡ ³35′25	
greatest brilliancy	4021 Jan 19 09:57	14° ≈ 52′22	-0.7m	desc. node	4021 Dec 02 10:35	11° ∡ 14′03	
	4021 Jan 30 10:43	0° ∀		max. Earth dist.	4021 Dec 07 06:07	18° ∡ 58'24	1.44443 AU
evening max el	4021 Jan 31 12:10		19°31'18		4021 Dec 14 06:36	0°る	
asc. node	4021 Feb 04 12:18	4°) €22'35		evening rise	4021 Dec 17 12:32	5°る01'02	
retrograde	4021 Feb 07 18:04	5° ¥ 18'35			4022 Jan 03 04:48	0°≈	20021121
evening set	4021 Feb 11 06:54	4°) €05'24		evening max el	4022 Jan 14 14:30	14°≈40'12	20°31'31
inferior conj	4021 Feb 15 08:09 4021 Feb 16 18:17	30°R≈ 28°≈10'01	3°15'28	asc. node retrograde	4022 Jan 22 09:20 4022 Jan 22 16:18	19°≈25'09 19°≈25'36	
minimum elong	4021 Feb 16 16:17	28°≈16'42	3°15'07	evening set	4022 Jan 26 13:48	19 ≈23 30 17°≈58'02	
min. Earth dist.	4021 Feb 17 22:57	26°≈36'06	0.66612 AU	inferior conj	4022 Jan 31 22:42	17 ≈38 02 11°≈49'53	2°47'41
morning rise	4021 Feb 22 01:22	21°≈56'10	0.00012710	minimum elong	4022 Jan 31 20:15	11°≈58'17	2°47'03
direct	4021 Feb 28 05:26	19° ≈ 11'33		min. Earth dist.	4022 Feb 01 13:54	10°≈58'00	0.67462 AU
morning max el	4021 Mar 12 14:12	26° ≈ 33'19	25°47'43	morning rise	4022 Feb 06 02:29	5° ≈ 36'08	
desc. node	4021 Mar 13 12:44	27° ≈ 31'25		direct	4022 Feb 11 16:47	3°≈06'51	
	4021 Mar 15 18:59	0°) €		morning max el	4022 Feb 22 22:52	9° ≈ 50'15	24°23'40
	4021 Apr 06 04:40	0 ° Υ		desc. node	4022 Feb 28 09:47	15° ≈ 57'13	
morning set	4021 Apr 17 19:21	19° Ƴ 59'27			4022 Mar 10 21:52	0° ∀	
max. Earth dist.	4021 Apr 21 14:59	27° Y 08'49	1.35735 AU		4022 Mar 29 21:01	0 ° Υ	
	4021 Apr 23 02:30	9° 8		morning set	4022 Mar 30 20:16	1° Y 40′59	
		0.64.4.		max. Earth dist.	4022 Apr 03 12:20	8° Ƴ 12'13	1.37717 AU
superior conj	4021 Apr 27 03:49	8° 8 01'39			1000 1 10 15	010000=	1000:
minimum elong	4021 Apr 27 07:08	8° 8 18'18	1°01'10	superior conj	4022 Apr 10 10:19	21° Υ 07'43	
asc. node	4021 May 03 11:37	20° 8 57'52		minimum elong	4022 Apr 10 14:50	21° Y 29'31	1°28'35
evening rise	4021 May 05 02:51	24° 8 18'56		avanina riaa	4022 Apr 14 23:10	0° 8	
evening may al	4021 May 07 22:32 4021 May 23 01:13	0°Ⅲ 23°Ⅲ29'50	20°08'50	evening rise asc. node	4022 Apr 19 03:25 4022 Apr 20 08:40	8° 8 17'49 10° 8 42'15	
evening max el retrograde	4021 May 23 01:13 4021 Jun 02 14:23	23°Щ29'30 28°Щ38'31	20 00 39	asc. Hour	4022 Apr 20 08:40 4022 May 01 08:38	10° O 42′13 0° Ⅱ	
evening set	4021 Jun 04 13:26	28° I I28'37		evening max el	4022 May 05 19:22	5° Ⅱ 18'59	19°09'02
desc. node	4021 Jun 09 11:58	26° II 47'20		retrograde	4022 May 14 16:34	9° П 38'42	17 07 02
inferior conj	4021 Jun 13 15:00	24° II 29'28	-1°13'22	evening set	4022 May 16 17:31	9° П 25'58	
minimum elong	4021 Jun 13 11:33	24° I I34'35		inferior conj	4022 May 25 01:18	5° ∏ 14'34	0°40'21
min. Earth dist.	4021 Jun 15 08:27	23° Ⅲ 27'52	0.55155 AU	minimum elong	4022 May 25 02:55	5° Ⅱ 11'49	0°39'46
morning rise	4021 Jun 22 08:11	20° Ⅱ 11'49		desc. node	4022 May 27 08:59	3°∏39′54	
direct	4021 Jun 26 09:23	19° ∏ 36′12		min. Earth dist.	4022 May 27 23:41	3° Ⅱ 15'35	0.56363 AU
morning max el	4021 Jul 10 00:41	26° Ⅱ 16'56	23°53'28	morning rise	4022 Jun 02 09:10	0°Ⅱ21'45	

direct	4022 Jun 03 10:31 4022 Jun 07 09:10	30°R と 29° と 23'28		desc. node direct	4023 May 14 06:01 4023 May 19 23:24	11° 8 06'32 9° 8 41'57	
	4022 Jun 11 08:01	$\Pi^{\circ 0}$		morning max el	4023 Jun 03 08:42	17° 8 23'05	26°52'24
morning max el	4022 Jun 21 14:57	6° Ⅱ 41'32	25°32'37		4023 Jun 13 19:17	0°II	
1	4022 Jul 08 16:42	0°9		. ,	4023 Jul 01 02:10	0°95	
asc. node	4022 Jul 17 07:56 4022 Jul 18 19:18	16° © 32'48 19° © 38'09		morning set asc. node	4023 Jul 03 05:13 4023 Jul 04 04:59	4° © 24'25 6° © 30'11	
morning set	4022 Jul 18 19:18 4022 Jul 23 14:16	0°Ω		asc. node	4023 Jul 04 04.39	0 3011	
	4022 Jul 23 14.10	0 80		superior conj	4023 Jul 10 05:48	19° © 39'36	0°59'37
superior conj	4022 Jul 25 18:01	4° Ω 44'06	1°18'09	minimum elong	4023 Jul 10 03:37	19° 5 27'32	0°59'13
minimum elong	4022 Jul 25 15:41	4° Ω 31'19	1°17'48	max. Earth dist.	4023 Jul 10 06:02	19° © 40'54	1.32057 AU
max. Earth dist.	4022 Jul 26 18:58	7° Ω 00'50	1.32437 AU		4023 Jul 14 23:03	$0^{\circ}\Omega$	
evening rise	4022 Aug 01 19:32	19° £ 53′33		evening rise	4023 Jul 17 02:30	4° Ω 34'31	
	4022 Aug 06 21:08	0° m			4023 Jul 30 14:40	0° ™	
desc. node	4022 Aug 23 08:20	27° Mp 05'03		desc. node	4023 Aug 10 05:21	15° Mp 10'25	
	4022 Aug 25 12:57	0∘ ⊽		evening max el	4023 Aug 15 22:40	21°Mp22'56	26°39'22
evening max el	4022 Sep 02 20:02	9° £ 20'35	27°18'55	retrograde	4023 Aug 29 21:23	28° m 33'20	
retrograde	4022 Sep 16 15:42	16° Ω 35'17		evening set	4023 Sep 05 16:30	26° Tp 36'09	0.60050.437
evening set min. Earth dist.	4022 Sep 23 19:46	14° £ 10'49	0.62002 ATT	min. Earth dist.	4023 Sep 09 12:34	23° Mp 59'54	0.60052 AU
inferior conj	4022 Sep 27 10:22 4022 Sep 30 09:51	11° £ 20′24 8° £ 36′09	0.62083 AU	inferior conj minimum elong	4023 Sep 12 18:34 4023 Sep 12 23:52	21° m, 23'03 21° m, 12'20	
minimum elong	4022 Sep 30 09:31 4022 Sep 30 15:46		3°50'30	morning rise	4023 Sep 12 23:32 4023 Sep 20 09:17	16° Mp 42'47	4 3947
morning rise	4022 Oct 07 13:30	3° Ω 34'15	3 30 30	direct	4023 Sep 20 05:17 4023 Sep 22 18:07	16° Mp 22'01	
direct	4022 Oct 09 22:17	3° ₽ 09'50		asc. node	4023 Sep 30 04:11	19° m 56'54	
asc. node	4022 Oct 13 07:08	4° ≙ 01'00		morning max el	4023 Sep 30 06:53	20° m 03'22	18°11'35
morning max el	4022 Oct 16 19:12	6° £ 38'49	17°52'28	-	4023 Oct 07 16:48	0∘ ⊽	
	4022 Oct 31 20:41	0°M		morning set	4023 Oct 16 02:55	15° ≙ 12'03	
morning set	4022 Nov 01 16:56	1°M31'15			4023 Oct 24 01:00	0° M	
superior conj	4022 Nov 12 14:25	20°M46'47	0°45'52	superior conj	4023 Oct 25 14:50	2°M51'54	1°15'19
minimum elong	4022 Nov 12 18:11	21°M02'55	0°45'21	minimum elong	4023 Oct 25 18:49	3°M09'56	1°14'52
1 1	4022 Nov 18 02:05	0° ⊀ ⁷		max. Earth dist.	4023 Nov 02 05:47	16°M12'26	1.41250 AU
desc. node max. Earth dist.	4022 Nov 19 07:38	2°× 7 01'22	1.43079 AU	desc. node	4023 Nov 06 04:39	22°M47'25 24°M29'12	
evening rise	4022 Nov 19 20:25 4022 Nov 27 00:56	2° 尽 53'36 14° 尽 21'48	1.430/9 AU	evening rise	4023 Nov 07 05:37 4023 Nov 10 16:12	0° √	
evening rise	4022 Dec 07 07:24	0°る			4023 Dec 01 05:09	%ਰ	
evening max el	4022 Dec 28 11:20	28° る 13'27	21°43'18	evening max el	4023 Dec 11 03:33	11° る 49'30	23°01'57
Č	4022 Dec 30 07:55	0° ≈		retrograde	4023 Dec 21 08:31	17° る 52'33	
retrograde	4023 Jan 06 13:40	3° ≈ 38′00		evening set	4023 Dec 26 04:31	15° る 53'32	
asc. node	4023 Jan 09 06:24	2° ≈ 58'42		asc. node	4023 Dec 27 03:25	15° る 01'09	
evening set	4023 Jan 10 21:33	1° ≈ 55'05		min. Earth dist.	4023 Dec 31 05:38	9° る 57'42	0.67997 AU
	4023 Jan 12 20:54	30°Rる		inferior conj	4023 Dec 31 13:39	9° ප 30'02	1°27'23
inferior conj	4023 Jan 16 05:48	25° る 37'23	2°11'12	minimum elong	4023 Dec 31 11:48	9° ප 36'25	1°26'41
minimum elong	4023 Jan 16 03:25	25° る 45'40	2°10'25	morning rise	4024 Jan 05 18:59	3°る21'50	
min. Earth dist.	4023 Jan 16 08:56 4023 Jan 21 09:06	25° පි 26'33 19° පි 25'30	0.67915 AU	direct	4024 Jan 10 04:07	1°る36'12 6°る42'34	21920124
morning rise direct	4023 Jan 21 09:06 4023 Jan 26 08:42	19° 5 25'30		morning max el desc. node	4024 Jan 18 22:28 4024 Feb 02 03:52	6°042'34 24°る50'58	21°29'24
morning max el	4023 Feb 05 08:25	23°る12'16	22°54'32	desc. node	4024 Feb 02 03:32 4024 Feb 05 17:10	24 O 30 38 0° ≈	
morning max cr	4023 Feb 11 07:37	0°≈	22 3432	morning set	4024 Feb 19 13:44	21°≈09'22	
desc. node	4023 Feb 15 06:50	5°≈07'55		3	4024 Feb 25 01:31	0°) €	
	4023 Mar 04 07:08	0°)		max. Earth dist.	4024 Feb 26 07:46		1.41985 AU
morning set	4023 Mar 11 19:27	12°) €06'04					
max. Earth dist.	4023 Mar 16 07:24	19°) 41'31	1.39894 AU	superior conj	4024 Mar 04 20:01	14°) 46'19	-2°05'47
	4023 Mar 22 03:55	0 ° $\mathbf{\Upsilon}$		minimum elong	4024 Mar 04 22:14	14°) 55′56	2°05'43
					4024 Mar 13 09:29	0° Υ	
superior conj	4023 Mar 24 01:23	3° Y 26′26		evening rise	4024 Mar 15 21:31	4° Υ 33'21	
minimum elong	4023 Mar 24 05:56	3° Υ 47'17	1°51'35	asc. node	4024 Mar 24 02:45	19° Y 11'32	
evening rise	4023 Apr 02 18:53	21° Y 45'25		avani: 1	4024 Mar 31 17:53	0° 8	10000124
asc. node	4023 Apr 07 05:43 4023 Apr 07 03:48	0° と 08'48		evening max el retrograde	4024 Apr 01 08:48 4024 Apr 08 03:36	0° と 38'03 4° と 04'05	18°09'24
evening max el	4023 Apr 07 03:48 4023 Apr 18 23:03	17° 8 44'39	18°29'15	evening set	4024 Apr 10 17:39	3° 8 34'40	
retrograde	4023 Apr 26 13:04	21° 8 29'08	10 27 13	evening set	4024 Apr 16 02:29	30°RΥ	
evening set	4023 Apr 28 20:32	21° 8 09'22		inferior conj	4024 Apr 17 12:24	28° Y 43'06	3°02'45
inferior conj	4023 May 06 08:30		2°07'35	minimum elong	4024 Apr 17 15:26	28° Y '36'03	3°02'10
minimum elong	4023 May 06 12:08	16° 8 31'34		min. Earth dist.	4024 Apr 20 19:44	25° Y 41'00	0.60397 AU
min. Earth dist.	4023 May 09 18:44	13° 8 56'37	0.58230 AU	morning rise	4024 Apr 24 11:00	22° Y ′54'11	
morning rise	4023 May 14 00:36	11° 8 13'13		desc. node	4024 Apr 30 03:02	20° Ƴ 50'40	

direct	4024 May 01 01:38	20° Ƴ 48'09		morning rise	4025 Apr 06 16:25	5° Ƴ 17'28	
morning max el	4024 May 01 01:38 4024 May 15 08:39		27°40'23	direct	4025 Apr 13 13:28	2°Υ43'54	
morning max er	4024 May 16 15:28	0° 8	27 40 23	desc. node	4025 Apr 17 00:03	3°Υ18'27	
	4024 Jun 06 15:03	0°II		morning max el	4025 Apr 27 14:33	10° Υ 42'27	27051102
marning gat		18° ∏ 58'02		morning max er	•	0° 8	27 31 02
morning set	4024 Jun 16 11:40	18°Щ3802 26°Щ34'59			4025 May 12 17:21 4025 May 29 22:08	0°U	
asc. node	4024 Jun 20 02:01				,		
To all the	4024 Jun 21 15:49	0.22	1 22005 411	morning set	4025 May 31 12:37	3° Ⅱ 12'40	1 22522 444
max. Earth dist.	4024 Jun 22 17:20	2° © 19'30	1.32085 AU	max. Earth dist.	4025 Jun 06 00:58	14° ∏ 44'02	1.32523 AU
				asc. node	4025 Jun 06 23:03	16° Ⅱ 42'56	
superior conj	4024 Jun 23 17:07	4°930'09	0°37'18		4005 7 00 00 15	1001110110	0011150
minimum elong	4024 Jun 23 15:32	4° © 21'27	0°36'59	superior conj	4025 Jun 08 02:15	19° Ⅱ 10'10	0°11'52
evening rise	4024 Jun 30 12:51	19° © 22'49		minimum elong	4025 Jun 08 01:41	19° Ⅱ 07'07	0°11'44
	4024 Jul 05 17:18	0 \circ Ω		behind sun begin	4025 Jun 07 22:09	18° Ⅱ 47'56	
	4024 Jul 25 04:35	0° т р		behind sun end	4025 Jun 08 05:13	19° ∏ 26′19	
desc. node	4024 Jul 27 02:21	1° ™ 59'04			4025 Jun 13 01:40	0ა ௐ	
evening max el	4024 Jul 27 17:54	2° Mp 36'53	25°28'56	evening rise	4025 Jun 15 00:39	4° © 11'58	
retrograde	4024 Aug 10 17:07	9° ™ 42'27			4025 Jun 28 20:23	0 $^{\circ}\Omega$	
evening set	4024 Aug 16 14:24	8° m)21'51		evening max el	4025 Jul 09 07:23	13° Ω 12′00	23°57'37
min. Earth dist.	4024 Aug 21 05:48	5°Mp42'21	0.58010 AU	desc. node	4025 Jul 13 23:20	17° Ω 01'20	
inferior conj	4024 Aug 24 08:55	3°m/31'31		retrograde	4025 Jul 23 01:15	20° Ω 06'58	
minimum elong	4024 Aug 24 10:48	3°m/28'13	5°08'40	evening set	4025 Jul 27 12:45	19° Ω 22'37	
	4024 Aug 30 05:02	30° R Ω		min. Earth dist.	4025 Aug 02 17:42	16° Ω 22'16	0.56246 AU
morning rise	4024 Sep 01 09:28	29° Ω 14'13		inferior conj	4025 Aug 05 03:03	14° Ω 54'35	-5°01'08
direct	4024 Sep 03 21:42	28° Ω 54'49		minimum elong	4025 Aug 04 22:59	15° Ω 00'50	5°00'44
	4024 Sep 08 08:24	O° Mp		morning rise	4025 Aug 13 11:47	10° Ω 56'55	
morning max el	4024 Sep 12 11:08	2°₩58'29	18°51'31	direct	4025 Aug 16 05:50	10° Ω 37'27	
asc. node	4024 Sep 16 01:14	7° Mp 02′03		morning max el	4025 Aug 26 05:07	15° Ω 15′24	19°53'12
morning set	4024 Sep 28 23:24	29° m 22'57		asc. node	4025 Sep 02 22:17	25° Ω 01'45	
-	4024 Sep 29 06:58	0° ⊽			4025 Sep 05 21:28	0° m y	
				morning set	4025 Sep 13 03:05	13° m 54'48	
superior conj	4024 Oct 07 11:12	15° ≏ 55'41	1°33'51		•	-	
minimum elong	4024 Oct 07 13:54	16° ഫ 08'33	1°33'39	superior conj	4025 Sep 20 22:18	29° m 43'34	1°42'51
max. Earth dist.	4024 Oct 14 11:17	28° ≏ 49'53	1.39183 AU	minimum elong	4025 Sep 20 23:19	29° Mp 48'38	1°42'49
	4024 Oct 15 03:07	0°M			4025 Sep 21 01:36	0∘ ⊽	
evening rise	4024 Oct 18 09:15	5° ™ 39'25		max. Earth dist.	4025 Sep 26 16:30	10° £ 53'50	1.37131 AU
desc. node	4024 Oct 23 01:39	13°M28'17		evening rise	4025 Sep 30 11:18	17° ≙ 51'56	
	4024 Nov 02 18:04	0° ⊼			4025 Oct 07 11:52	0°M	
evening max el	4024 Nov 22 16:52	25° ₹ 28'58	24°21'28	desc. node	4025 Oct 09 22:41	4°M00'06	
	4024 Nov 28 02:30	0°る		***************************************	4025 Oct 28 01:09	0° ⊼ 7	
retrograde	4024 Dec 03 23:42	2° る 05'15		evening max el	4025 Nov 05 05:10	9° √ 11'13	25°34'57
evening set	4024 Dec 09 09:07	29° х 50'18		retrograde	4025 Nov 17 10:29	16° √ 11'57	
e venning see	4024 Dec 09 04:29	30°R. ✓		evening set	4025 Nov 23 09:46	13° х 42′57	
asc. node	4024 Dec 13 00:27	25° × 750'59		min. Earth dist.	4025 Nov 27 18:42	8° √ 55'32	0.67110 AU
min. Earth dist.	4024 Dec 14 01:38	24° ₹ 28'09	0.67727 AU	inferior conj	4025 Nov 29 00:30	7° ∡ 720'11	
inferior conj	4024 Dec 14 20:28	23° ₹ 24'57	0°37'18	minimum elong	4025 Nov 29 00:58	7° ∡ 18'42	
minimum elong	4024 Dec 14 19:35	23°×27'56	0°36'56	asc. node	4025 Nov 29 21:28	6° х 13′39	0 17 15
morning rise	4024 Dec 20 06:06	17° ₹ 22'30	0 30 20	morning rise	4025 Dec 04 16:32	1° ₹ 25'39	
direct	4024 Dec 24 01:50	15° × 59'04		direct	4025 Dec 08 00:29	0° ∡ 21'47	
morning max el	4024 Dec 31 19:57	20° ₹ 24'21	20°14'35	morning max el	4025 Dec 15 01:24	4° × 17'18	19°13'47
morning max or	4025 Jan 08 16:59	0°පි	20 1133	greatest brilliancy	4025 Dec 28 20:00	22° ₹ ′54′06	-0.7m
desc. node	4025 Jan 19 00:52	14° ප 57'01		greatest orimaney	4026 Jan 02 11:10	0°る	0.7111
morning set	4025 Jan 28 11:39	29° る 20'37		desc. node	4026 Jan 05 21:55	5°る20'02	
morning set	4025 Jan 28 21:50	0°≈		morning set	4026 Jan 07 12:43	7°る50'30	
max. Earth dist.	4025 Feb 07 16:09	0 ∞ 15°≈22'07	1.43703 AU	max. Earth dist.	4026 Jan 21 06:48	7 3 3030 29° る 19'37	1.44838 AU
max. Earth dist.	4023 100 07 10.09	13 ~2207	1.43703 AU	max. Earth dist.	4026 Jan 21 17:02	29 ⊙ 1937	1.44636 AU
superior conj	4025 Feb 13 13:35	24°≈56'43	2005/18		4020 Jan 21 17.02	0 ~	
minimum elong	4025 Feb 13 10:30	24°≈44'05		superior conj	4026 Jan 24 06:15	4° ≈ 02'10	1045'56
minimum ciong		0°) (2 03 13	minimum elong	4026 Jan 23 21:47	3°≈28'35	
avaning rise	4025 Feb 16 14:40 4025 Feb 26 06:57	16°) 32'11		_	4026 Jan 23 21:47 4026 Feb 07 19:07	3°≈28'35 27°≈35'14	1 +313
evening rise	4025 Feb 26 06:57 4025 Mar 06 02:43	16° π 3211		evening rise	4026 Feb 07 19:07 4026 Feb 09 06:08	2/°≈35°14 0°) {	
asc. node	4025 Mar 06 02:45 4025 Mar 10 23:45	0° γ 7° Υ 42'22		asc. node		25°) 31'39	
		13° Y 49'36	10000150		4026 Feb 25 20:46		10027110
evening max el	4025 Mar 15 21:15	13°°γ′49′36 17° Υ 12′36	18°08'59	evening max el	4026 Feb 27 09:33	27°) 12′12 0° °	10 2/18
retrograde	4025 Mar 22 08:00			ratra a J-	4026 Mar 03 00:12		
evening set	4025 Mar 25 03:56	16° Υ 32'08 11° Υ 20'25	2020115	retrograde	4026 Mar 05 21:41	0°Υ45'12	
inferior conj	4025 Mar 31 09:28		3°30'15	evening set	4026 Mar 08 23:29	29°) 52'52	
minimum elong	4025 Mar 31 10:50	11° Y 16'49	3°30'08		4026 Mar 08 18:13	30°₽ 升	
min. Earth dist.	4025 Apr 03 05:11	8° Y '22'52	0.62531 AU	inferior conj	4026 Mar 14 19:34	24°) (22'44	2026120

minimum elong	4026 Mar 14 19:16	24° ¥ 23'39	2026/20	evening max el	4027 Feb 10 19:22	10°) (41'12	10002!10
min. Earth dist.	4026 Mar 17 00:13	24 X 23 39 21° X 49'02	0.64414 AU	asc. node	4027 Feb 10 19:22 4027 Feb 12 17:47	10 X 41 12 12° X 27'40	19 03 18
morning rise	4026 Mar 20 14:21	18° H 12'30	0.04414 AU	retrograde	4027 Feb 12 17.47 4027 Feb 17 16:50	12 X 2740	
direct	4026 Mar 27 09:27	15° H 23'54		evening set	4027 Feb 17 10:30 4027 Feb 21 01:15	13°) (3317	
desc. node		18° H 07'10		inferior conj	4027 Feb 21 01:13 4027 Feb 26 15:04	7° ¥ 43'32	2026147
	4026 Apr 03 21:05	23°¥18'59	27925127	,		7° X 43'32 7° X 48'29	
morning max el	4026 Apr 09 23:53	23°π18'39 0° Υ	21-25-21	minimum elong	4027 Feb 26 13:31		
	4026 Apr 15 22:43			min. Earth dist.	4027 Feb 28 04:18	5°) (45'44	0.65927 AU
	4026 May 06 00:38	0° 8		morning rise	4027 Mar 04 01:24	1°) € 30′13	
morning set	4026 May 15 05:24	16° 8 59'39			4027 Mar 06 01:25	30°R≈	
max. Earth dist.	4026 May 20 00:45	26° 8 41'22	1.33401 AU	direct	4027 Mar 10 12:17	28°≈40'23	
	4026 May 21 14:51	Π °0			4027 Mar 15 09:32	0°) (⋅∞⋅ (
				desc. node	4027 Mar 21 18:09	4°) (42′36	
superior conj	4026 May 23 07:15	3° Ⅱ 33'14		morning max el	4027 Mar 23 09:49	6°) 18′59	26°29'48
minimum elong	4026 May 23 08:03	3° Ⅱ 37'34	0°15'48		4027 Apr 10 16:08	0° Υ	
behind sun begin	4026 May 23 07:15	3° Ⅱ 33'17		morning set	4027 Apr 28 10:33	0° 8 08'51	
behind sun end	4026 May 23 08:52	3° Ⅱ 41'51			4027 Apr 28 08:40	0°8	
asc. node	4026 May 24 20:05	6° Ⅱ 49'34		max. Earth dist.	4027 May 02 13:30	8° 8 06'05	1.34746 AU
evening rise	4026 May 30 11:58	18° Ⅱ 55'08					
	4026 Jun 04 23:02	0 \circ \odot		superior conj	4027 May 07 05:52	17° 8 33'01	
evening max el	4026 Jun 20 21:48	23° © 36'02	22°20'44	minimum elong	4027 May 07 08:17	17° 8 45'23	0°44'34
desc. node	4026 Jun 30 20:21	29° 5 641'32		asc. node	4027 May 11 17:07	26° 8 51'05	
	4026 Jul 02 18:12	$0 {\circ} \Omega$			4027 May 13 05:14	Π $^{\circ}0$	
retrograde	4026 Jul 03 21:25	0° Ω 02'57		evening rise	4027 May 14 20:55	3° Ⅱ 26′24	
	4026 Jul 05 00:51	30° ₹ 5			4027 May 30 00:19	0 \circ \odot	
evening set	4026 Jul 06 21:37	29°5642'56		evening max el	4027 Jun 02 21:05	4° © 22'12	20°52'30
min. Earth dist.	4026 Jul 15 04:22	26°907'54	0.55103 AU	retrograde	4027 Jun 14 10:13	10° © 01'18	
inferior conj	4026 Jul 16 03:40	25° © 34'56	-4°04'27	evening set	4027 Jun 16 13:15	9° © 50'34	
minimum elong	4026 Jul 15 19:18	25° 5 46'46	4°02'26	desc. node	4027 Jun 17 17:21	9° © 35'55	
morning rise	4026 Jul 24 18:57	21° 5 644'27		inferior conj	4027 Jun 25 21:01	5° © 53'15	-2°22'27
direct	4026 Jul 27 20:51	21°523'04		minimum elong	4027 Jun 25 14:28	6°∽02'34	2°20'11
morning max el	4026 Aug 08 11:16	26°547'15	21°15'38	min. Earth dist.	4027 Jun 26 16:01	5° © 26'15	0.54855 AU
	4026 Aug 11 13:09	$0^{\circ}\Omega$		morning rise	4027 Jul 04 15:26	1°950'42	
asc. node	4026 Aug 20 19:19	13° Ω 42'32		direct	4027 Jul 08 06:14	1° © 22'30	
morning set	4026 Aug 28 11:21	28° Ω 39'20		morning max el	4027 Jul 21 07:01	7° © 37'20	22°53'44
· ·	4026 Aug 29 02:53	0° mp		C	4027 Aug 06 03:25	$0^{\circ}\Omega$	
	C	•		asc. node	4027 Aug 07 16:23	2° £ 54'36	
superior conj	4026 Sep 04 19:42	14° Mp 01'26	1°43'50	morning set	4027 Aug 12 22:14	13° Ω 31'12	
minimum elong	4026 Sep 04 19:12	13° m 58'54	1°43'49	Č	Z .		
max. Earth dist.	4026 Sep 09 02:35	22° m) 44'37	1.35317 AU	superior conj	4027 Aug 20 00:07	28° Ω 39'31	1°38'09
	4026 Sep 12 19:59	0∘ <u>⊽</u>		minimum elong	4027 Aug 19 22:32	28° Ω 31'03	1°38'01
evening rise	4026 Sep 13 07:47	0° £ 55'57			4027 Aug 20 15:14	0° m)	
desc. node	4026 Sep 26 19:43	24° £ 16'43		max. Earth dist.	4027 Aug 22 21:31	4° m/46'13	1.33876 AU
dese. Hode	4026 Sep 30 13:21	0°M		evening rise	4027 Aug 27 18:23	14° m) 40'14	1.55070110
evening max el	4026 Oct 18 17:37	22°ML51'07	26°35'10	evening rise	4027 Sep 05 00:07	0∘ ⊽	
e venning man er	4026 Oct 30 09:21	0°×7	20 30 10	desc. node	4027 Sep 13 16:43	14° ≏ 11'13	
retrograde	4026 Oct 31 16:13	0° ∡ ¹05'33		dose. node	4027 Sep 25 08:22	0°M	
retrograde	4026 Nov 01 22:21	30°RML		evening max el	4027 Oct 01 06:05	6°M20'13	27°14'38
evening set	4026 Nov 07 04:29	27°M26'54		retrograde	4027 Oct 14 16:10	13°M38'18	27 1430
min. Earth dist.	4026 Nov 11 06:31	23°M15'02	0.66138 AU	evening set	4027 Oct 21 14:55	10°M57'09	
inferior conj	4026 Nov 12 23:48	21°M11'33		min. Earth dist.	4027 Oct 25 10:48		0.64818 AU
minimum elong	4026 Nov 13 01:56	21°M05'11	1°16'16	inferior conj	4027 Oct 27 16:07	4°M54'16	
asc. node	4026 Nov 16 18:30	17°ML05'05	1 10 10	minimum elong	4027 Oct 27 10:07 4027 Oct 27 20:01	4°M43'32	
morning rise	4026 Nov 19 00:04	15°M27'33		minimum clong	4027 Nov 01 23:30	30°R Ω	2 17 03
direct	4026 Nov 21 22:20	14°MJ39'30		morning rise	4027 Nov 01 23:30 4027 Nov 03 02:12	29° £ 23'47	
morning max el	4026 Nov 28 13:12	14 IIL3930 18°ML16'10	18°28'54	asc. node	4027 Nov 03 02:12 4027 Nov 03 15:35	29° £ 10'09	
morning max er		18 IIG10 10 0° ⊼ 1	16 26 34	direct		29 ≗ 10 09 28° ≗ 47'37	
marning sat	4026 Dec 07 10:27			direct	4027 Nov 05 17:10	28 = 4737 0° M	
morning set desc. node	4026 Dec 18 14:07	17° ∡ 137'14 25° ∡ 154'51		mornin1	4027 Nov 09 11:09	2°M14'44	18°00'47
uesc. noue	4026 Dec 23 18:59	25°×'54'51		morning max el morning set	4027 Nov 12 04:50 4027 Nov 29 21:02	28°M51'46	10 004/
	4026 Dec 26 08:51	v O		morning set		28°11651746	
avmoni '	4027 Ic 02 00 05	120-7200	1000110	daga	4027 Nov 30 13:24		
superior conj	4027 Jan 03 09:05	12° る 36'38		desc. node	4027 Dec 10 16:02	16° ≯ 37'13	
minimum elong	4027 Jan 03 00:54	12° る 04'32		aumari ·	4007 D 12 10 16	010.70.501	0021110
max. Earth dist.	4027 Jan 04 01:00	13° る 39'02	1.45266 AU	superior conj	4027 Dec 13 18:16	21° 🖈 35'21	
	4027 Jan 14 10:57	0°≈ 7042100		minimum elong	4027 Dec 13 15:40	21° 🖈 24'58	0°20'48
evening rise	4027 Jan 19 08:01	7°≈42'00	0.0	max. Earth dist.	4027 Dec 17 20:13	28° ₹ 04'04	1.44952 AU
greatest brilliancy	4027 Jan 28 22:08	22°≈50'11	-0.8m		4027 Dec 19 01:40	0°る	
	4027 Feb 02 14:37	0° ∀		evening rise	4027 Dec 30 01:18	17° る 05'10	

	4028 Jan 07 11:29	0° ≈		evening max el	4029 Jan 07 00:57	7° ≈ 46'14	21°00'51
greatest brilliancy	4028 Jan 13 02:41	8°≈28'02	-0.6m	retrograde	4029 Jan 15 12:30	12°≈47'27	21 0001
evening max el	4028 Jan 25 00:51	24°≈13'01	19°55'22	asc. node	4029 Jan 16 11:53	12° ≈ 42'16	
asc. node	4028 Jan 30 14:49	28°≈15'55		evening set	4029 Jan 19 14:20	11° ≈ 13'18	
retrograde	4028 Feb 01 14:31	28° ≈ 37'14		inferior conj	4029 Jan 24 22:45	5° ≈ 00'49	2°33'11
evening set	4028 Feb 05 06:51	27° ≈ 18′09		minimum elong	4029 Jan 24 20:16	5° ≈ 09'22	2°32'27
inferior conj	4028 Feb 10 16:57	21° ≈ 17'17	3°04'50	min. Earth dist.	4029 Jan 25 08:38	4° ≈ 26'46	0.67711 AU
minimum elong	4028 Feb 10 14:40	21° ≈ 24'54	3°04'22		4029 Jan 28 20:54	30°Ŗる	
min. Earth dist.	4028 Feb 11 15:46	20° ≈ 00′59	0.67028 AU	morning rise	4029 Jan 30 02:03	28° る 47'54	
morning rise	4028 Feb 15 22:16	15° ≈ 03′21		direct	4029 Feb 04 10:12	26° る 27'03	
direct	4028 Feb 21 20:50	12° ≈ 24′04			4029 Feb 12 01:37	0°≈	
morning max el	4028 Mar 04 18:41	19° ≈ 30'55	25°13'08	morning max el	4029 Feb 15 03:17	2° ≈ 49'48	23°45'44
desc. node	4028 Mar 07 15:13	22° ≈ 34'32		desc. node	4029 Feb 22 12:16	11° ≈ 21′18	
	4028 Mar 13 17:05	0°) €			4029 Mar 07 20:15	0° ∀	
	4028 Apr 02 19:02	0° Υ		morning set	4029 Mar 22 13:53	23° ¥ 35′58	
morning set	4028 Apr 09 23:19	12° Y 25′56			4029 Mar 26 06:22	0° Υ	
max. Earth dist.	4028 Apr 13 15:05	19° Ƴ 08'07	1.36539 AU	max. Earth dist.	4029 Mar 26 10:47	0° Y 19'30	1.38646 AU
	4028 Apr 19 06:53	9° 8					
				superior conj	4029 Apr 02 19:41	13° Y ′47'55	
superior conj	4028 Apr 19 19:14	1° 8 00'52		minimum elong	4029 Apr 03 00:26	14° Y 10′18	1°39'07
minimum elong	4028 Apr 19 23:08	1° 8 20'11	1°13'08		4029 Apr 11 04:55	0°8	
asc. node	4028 Apr 27 14:09	16° 8 42'35		evening rise	4029 Apr 11 22:18	1° 8 24'51	
evening rise	4028 Apr 28 01:13	17° 8 38'30		asc. node	4029 Apr 14 11:11	6° 8 19'46	
	4028 May 04 09:53	0° Π		evening max el	4029 Apr 28 06:59	27° 8 51'25	18°49'31
evening max el	4028 May 15 08:30	15° Ⅱ 46'46	19°41'05		4029 Apr 30 21:16	0°II	
retrograde	4028 May 25 03:42	20° Ⅲ 32'50		retrograde	4029 May 06 13:23	1° ∏ 54'13	
evening set	4028 May 27 02:44	20° Ⅲ 22'15		evening set	4029 May 08 17:02	1° Ⅱ 38'49	
desc. node	4028 Jun 03 14:23	17° Ⅱ 07′26	0022150		4029 May 12 15:59	30°R8	1001100
inferior conj	4028 Jun 04 21:28	16° Ⅱ 19'23		inferior conj	4029 May 16 16:12	27° 8 19'17	1°21'22
minimum elong	4028 Jun 04 20:26	16° Ⅱ 21'01	0°22'35	minimum elong	4029 May 16 19:05	27° 8 14'02	1°20'24
min. Earth dist.	4028 Jun 07 05:19	14° Ⅲ 52'25 11° Ⅲ 47'41	0.55572 AU	min. Earth dist.	4029 May 19 21:33	24° 8 59'48	0.57101 AU
morning rise direct	4028 Jun 13 11:45 4028 Jun 17 22:31	11° Д 4/'41 11° Д 03'41		desc. node	4029 May 21 11:25	23° 8 57'01 22° 8 11'52	
morning max el	4028 Jul	11 Ⅲ 0341 18° Ⅲ 01'43	24°37'01	morning rise direct	4029 May 24 17:55 4029 May 30 04:03	21° 8 00'41	
morning max er	4028 Jul 11 18:18	0°9	24 3701	morning max el	4029 Jun 13 12:14	28° 8 29'16	26°09'59
asc. node	4028 Jul 24 13:27	22° S 29'17		morning max cr	4029 Jun 15 00:21	0°Ⅱ	20 07 37
morning set	4028 Jul 27 10:02	28°\$25'06			4029 Jul 05 06:30	0° ©	
morning sec	4028 Jul 28 03:53	0°N		asc. node	4029 Jul 11 10:29	12° © 19'53	
	1020 041 20 03.03	° 00		morning set	4029 Jul 11 21:04	13° © 15'39	
superior conj	4028 Aug 03 08:59	13° Ω 29'33	1°26'51				
minimum elong	4028 Aug 03 06:47	13° Ω 17'34	1°26'36	superior conj	4029 Jul 18 20:12	28° © 24'33	1°10'46
max. Earth dist.	4028 Aug 05 01:08	17° Ω 07'24	1.32843 AU	minimum elong	4029 Jul 18 17:53	28°5511'44	1°10'24
evening rise	4028 Aug 10 15:13	28° Ω 53'40		max. Earth dist.	4029 Jul 19 10:33	29° © 43'32	1.32223 AU
-	4028 Aug 11 04:17	0° m y			4029 Jul 19 13:33	0 $^{\circ}\Omega$	
	4028 Aug 28 03:25	0∘ 亚		evening rise	4029 Jul 25 19:12	13° Ω 26′36	
desc. node	4028 Aug 30 13:43	ვ° ჲ 34'34			4029 Aug 03 06:13	0° ™	
evening max el	4028 Sep 12 16:49	19° ჲ 26'03	27°26'36	desc. node	4029 Aug 17 10:44	22° m 13'27	
retrograde	4028 Sep 26 09:36	26° ≏ 41'55			4029 Aug 24 01:02	0∘ ⊽	
evening set	4028 Oct 03 14:01	24° ഫ 08'03		evening max el	4029 Aug 25 23:01	1° ≏ 54'07	27°06'15
min. Earth dist.	4028 Oct 07 05:30	21° ഫ 03'02	0.63166 AU	retrograde	4029 Sep 08 19:47	9° ჲ 06'32	
inferior conj	4028 Oct 09 22:46	18° ≏ 22'18		evening set	4029 Sep 15 21:44	6° £ 52'01	
minimum elong	4028 Oct 10 04:12	18° ≏ 08'53	3°17'29	min. Earth dist.	4029 Sep 19 13:19	4° ≏ 09'53	0.61236 AU
morning rise	4028 Oct 16 19:50	13° ≏ 08'49		inferior conj	4029 Sep 22 16:29	1° ≏ 26'39	
direct	4028 Oct 19 06:09	12° Ω 40'55		minimum elong	4029 Sep 22 22:25		4°13'03
asc. node	4028 Oct 20 12:39	12° Ω 48'43	15050115		4029 Sep 24 09:07	30°R, MD	
morning max el	4028 Oct 25 21:26	16° Ω 06'39	17°50'13	morning rise	4029 Sep 30 00:55	26° TQ 33'46	
	4028 Nov 04 16:19	0°M		direct	4029 Oct 02 09:28	26° Th 11'06	
morning set	4028 Nov 11 04:45	11°M18'14		asc. node	4029 Oct 07 09:43	27° Mp 58'00	17050112
	4028 Nov 22 01:36	0° ∡		morning max el	4029 Oct 09 11:53	29° m 43'49	17°58'12
gunorier cor:	4029 Nov. 22 02:06	10.7/40111	0022154	morning set	4029 Oct 09 18:24	ე^• ი ვ6¦ვვ	
superior conj	4028 Nov 23 02:06	1° х 42′11 1° х 52′04	0°23'54	morning set	4029 Oct 25 06:43	24° ♀ 36'22	
minimum elong	4028 Nov 23 04:29	1°×'52'04 7°× ' 23'48	0°23'33		4029 Oct 28 05:12	0° M	
desc. node	4028 Nov 26 13:03		1 /2020 / 11	superior con-	4020 Nov. 04 12:20	13° M .07'08	0°59'43
max. Earth dist. evening rise	4028 Nov 29 13:36 4028 Dec 08 10:53	12° ҂ 17'22 26° ҂ 16'07	1.43939 AU	superior conj minimum elong	4029 Nov 04 12:39 4029 Nov 04 16:47	13°M25'15	0°59'12
evening 1150	4028 Dec 10 21:11	20 x・1007		max. Earth dist.	4029 Nov 12 02:22	26°M00'27	1.42348 AU
	4028 Dec 31 12:24	0°≈		desc. node	4029 Nov 12 02.22 4029 Nov 13 10:03	28°M10'52	1.74J40 AU
	.020 200 31 12.24	0 70.		acse. node	1027 1107 13 10.03	20 NO 10 32	

evening rise	4029 Nov 14 12:48 4029 Nov 18 04:48 4029 Dec 04 04:16	0°♂ 5°♂53'12 0°♂		evening max el retrograde	4030 Nov 28 21:39 4030 Dec 03 10:08 4030 Dec 14 02:34	0°පි 4°පි57'00 11°පි15'49	23°35'56
evening max el retrograde	4029 Dec 20 19:35 4029 Dec 30 09:00	21°ිට20'10 27°ට01'25	22°16'06	evening set asc. node	4030 Dec 19 04:07 4030 Dec 21 05:58	9°る09'50 7°る04'27	
asc. node	4030 Jan 03 08:56 4030 Jan 03 21:57	25° පි 36'30 25° පි 11'26		min. Earth dist.	4030 Dec 24 01:21	3°る28'04 2°る44'43	0.67925 AU 1°06'50
evening set inferior conj	4030 Jan 09 06:23	23 3 11 20 18° る 50'37	1°53'26	inferior conj minimum elong	4030 Dec 24 14:01 4030 Dec 24 12:32	2 044 43 2° る 49'49	1°06'15
minimum elong	4030 Jan 09 04:11	18° る 58'18	1°52'39	g	4030 Dec 26 15:36	30°R. ✓	1 00 10
min. Earth dist.	4030 Jan 09 04:35	18° る 56'51	0.68000 AU	morning rise	4030 Dec 29 20:55	26° х 38′34	
morning rise	4030 Jan 14 10:17	12°る40'14		direct	4031 Jan 03 00:03	25° ∡ ¹02'46	
direct morning max el	4030 Jan 19 03:34 4030 Jan 28 14:27	10°පි41'41 16°පි15'28	22°17'22	morning max el	4031 Jan 11 11:09 4031 Jan 11 07:32	0°る 29° ス 750'54	20°55'56
morning max er	4030 Feb 08 19:39	0°≈	22 1/22	desc. node	4031 Jan 27 06:19	29 x 30 34 20°る40'35	20 33 30
desc. node	4030 Feb 09 09:17	0° ≈ 46'53			4031 Feb 02 12:46	0° ≈	
	4030 Feb 28 21:40	0° ∀		morning set	4031 Feb 10 08:20	12° ≈ 00′38	
morning set	4030 Mar 03 00:45	3° ¥ 25'47		max. Earth dist.	4031 Feb 18 11:06	24°≈56'49	1.42774 AU
max. Earth dist.	4030 Mar 08 07:52	12° 米 11'30	1.40815 AU		4031 Feb 21 12:59	0° ∀	
superior conj	4030 Mar 16 02:39	25°\(\frac{4}{2}\)'49 26°\(\frac{1}{2}\)'00'23		superior conj	4031 Feb 25 11:00	6°) 33'39	
minimum elong	4030 Mar 16 06:34 4030 Mar 18 11:41	26°π00′23 0°Υ	1~58'59	minimum elong evening rise	4031 Feb 25 11:17 4031 Mar 09 04:40	6° ¥ 34'51 27° ¥ 05'07	2°0/39
evening rise	4030 Mar 16 11:41 4030 Mar 26 08:49	14° Υ 37'02		evening rise	4031 Mar 10 19:48	27 γ (03 07	
asc. node	4030 Apr 01 08:13	25° Y '37'16		asc. node	4031 Mar 19 05:14	14° Y 27'41	
	4030 Apr 03 21:05	9° 8		evening max el	4031 Mar 26 00:52	23° Y ′32'02	18°06'55
evening max el	4030 Apr 11 13:35	10° 8 29'49	18°18'20	retrograde	4031 Apr 01 15:07	26° Y ′55′09	
retrograde	4030 Apr 18 18:11	14° 8 04'54		evening set	4031 Apr 04 07:38	26° Y 21'19	2017124
evening set inferior conj	4030 Apr 21 04:23 4030 Apr 28 08:34	13° 8 41'22 9° 8 01'44	2024147	inferior conj minimum elong	4031 Apr 10 20:18 4031 Apr 10 22:40	21° Y 21'18 21° Y 15'28	3°17'24 3°17'03
minimum elong	4030 Apr 28 12:10	8° 8 54'02		min. Earth dist.	4031 Apr 13 23:33	18° Y 17'59	0.61321 AU
min. Earth dist.	4030 May 01 18:56	6° 8 07'53	0.59131 AU	morning rise	4031 Apr 17 11:50	15° Y 25'13	0.01321710
morning rise	4030 May 05 17:07	3° 8 24'34		direct	4031 Apr 24 06:22	13° Y 05'48	
desc. node	4030 May 08 08:27	2° 8 14'06		desc. node	4031 Apr 25 05:29	13° Y 08'30	
direct	4030 May 11 23:29	1° 8 38'22		morning max el	4031 May 08 11:30	21° Y 03'17	27°49'31
morning max el	4030 May 26 08:47	9° ႘ 26'14 0° Ⅱ	27°17'21		4031 May 16 05:31	0°¤ 8°0	
morning set	4030 Jun 11 02:41 4030 Jun 26 05:45	0°П 27°П57'46		morning set	4031 Jun 04 02:30 4031 Jun 10 10:06	0°Щ 12° Щ 24'12	
morning set	4030 Jun 27 04:59	0°95		asc. node	4031 Jun 15 04:30	22° I I27'51	
asc. node	4030 Jun 28 07:30	2° © 21'11		max. Earth dist.	4031 Jun 16 08:13	24° Ⅱ 58′06	1.32213 AU
superior conj	4030 Jul 03 08:00	13° © 18'53	0°50'35	superior conj	4031 Jun 17 18:36	28° Ⅱ 05'45	0°26'52
minimum elong	4030 Jul 03 06:01	13° © 07'56	0°50'12	minimum elong	4031 Jun 17 17:24	27° Ⅱ 59'11	0°26'36
max. Earth dist.	4030 Jul 02 22:14	12° © 24'59	1.32012 AU		4031 Jun 18 15:26	0°®	
evening rise	4030 Jul 10 03:51 4030 Jul 11 00:26	28° © 11'34 0° Ω		evening rise	4031 Jun 24 15:00	13° © 00'45 0° Ω	
	4030 Jul 27 18:10	0°Mp		evening max el	4031 Jul 03 04:08 4031 Jul 20 14:28	24° Ω 29'44	24°51'50
desc. node	4030 Aug 04 07:44	9° m) 49'38		desc. node	4031 Jul 22 04:44	25° Ω 57'02	21 3130
evening max el	4030 Aug 07 22:19	13° m 35'07	26°12'47		4031 Jul 28 04:16	0° m	
retrograde	4030 Aug 21 21:41	20° m 44'29		retrograde	4031 Aug 03 12:59	1° m 32'42	
evening set	4030 Aug 28 09:17	19° m 01'43	0.501.65.477	evening set	4031 Aug 08 20:43	0° m/28'29	
min. Earth dist. inferior conj	4030 Sep 01 11:13 4030 Sep 04 17:43	16° Mp 26'39 13° Mp 58'10	0.59165 AU	min. Earth dist.	4031 Aug 09 23:25 4031 Aug 14 01:58	30°RΩ 27°Ω41'43	0.57199 AU
minimum elong	4030 Sep 04 17.43 4030 Sep 04 21:58	13° My 50'05		inferior conj	4031 Aug 16 23:26	$25^{\circ} \Omega 47'23$	
morning rise	4030 Sep 12 12:52	9° mp 28'07	1 33 27	minimum elong	4031 Aug 16 22:57	25° Ω 48'11	
direct	4030 Sep 14 22:42	9° m)08'14		morning rise	4031 Aug 25 03:39	21° Ω 39'11	
morning max el	4030 Sep 22 20:53	12° m 57'34	18°26'03	direct	4031 Aug 27 17:53	21° Q 20'04	
asc. node	4030 Sep 24 06:45	14° m 25'21		morning max el	4031 Sep 05 21:04	25° Ω 37'17	19°15'08
morning sat	4030 Oct 04 09:23	0° ⊽		asa nada	4031 Sep 09 18:11	0°M) 1°M>55'02	
morning set	4030 Oct 08 21:38	8° £ 31'13		asc. node morning set	4031 Sep 11 03:46 4031 Sep 22 21:30	1° My 55'02 22° My 51'29	
superior conj	4030 Oct 17 22:17		1°24'25		4031 Sep 26 11:19	0∘ ত	
minimum elong	4030 Oct 18 01:50	25° Ω 56'02	1°24'05		4021.0 : 01.01.00	00.00.00105	1020145
may Earth dist	4030 Oct 20 07:13	0°M 9°M00'33	1.40382 AU	superior conj	4031 Oct 01 01:28	9° Ω 03'27	1°38'45 1°38'37
max. Earth dist. evening rise	4030 Oct 25 09:30 4030 Oct 29 18:55	16°M26'26	1.40362 AU	minimum elong max. Earth dist.	4031 Oct 01 03:28 4031 Oct 07 13:42	9° £ 13'07 21° £ 19'19	1.38290 AU
desc. node	4030 Oct 23 18:33 4030 Oct 31 07:04	18°M55'12		evening rise	4031 Oct 11 08:26	28° ♀ 04'00	1.50270710
	4030 Nov 07 06:35	0° ∡		<i>5</i> - 7	4031 Oct 12 11:09	0°M	

desc. node	4031 Oct 18 04:05	9°M32'49		superior conj	4032 Sep 13 17:20	23° Mp 04'44	1°44'10
	4031 Oct 31 17:18	0° ∡ ¹		minimum elong	4032 Sep 13 17:40	23° m 06'27	1°44'09
evening max el	4031 Nov 15 22:52	18° ∡ ³38′24	24°53'58	-	4032 Sep 17 04:27	0∘ ⊽	
retrograde	4031 Nov 27 16:06	25° х 26′42		max. Earth dist.	4032 Sep 18 20:30	3° ≙ 14'57	1.36321 AU
evening set	4031 Dec 03 07:16	23° ₹ 05'42		evening rise	4032 Sep 22 18:49	10° ჲ 39′29	
min. Earth dist.	4031 Dec 07 20:31	17° ∡ 757'54	0.67502 AU	desc. node	4032 Oct 04 01:06	29° ≏ 58'48	
asc. node	4031 Dec 08 03:00	17° ∡ ³36'38			4032 Oct 04 01:24	0° M	
inferior conj	4031 Dec 08 19:55	16° ∡ 740'45	0°14'27		4032 Oct 26 03:57	0°⊀	
minimum elong	4031 Dec 08 19:34	16° ≯ 41'56	0°14'18	evening max el	4032 Oct 28 11:24	2° ₹ 21'09	26°02'50
transit middle	4031 Dec 08 19:34	16° ∡ 741′56	0°14'18	retrograde	4032 Nov 10 00:40	9° ₹ 28'22	
transit begin	4031 Dec 08 18:16	16° ∡ 46′13		evening set	4032 Nov 16 05:38	6° ₹ 54'52	
transit end	4031 Dec 08 20:51	16° ₹ 37'39		min. Earth dist.	4032 Nov 20 11:40	2°×722'26	0.66735 AU
morning rise	4031 Dec 14 08:00	10° ₹ 41'05		inferior conj	4032 Nov 21 22:12	0° ∡ 34'53	
direct	4031 Dec 17 22:29	9°×726'19	10046140	minimum elong	4032 Nov 21 23:20	0° ∡ 31′20	0°42'11
morning max el	4031 Dec 25 08:26	13° メ 37'48 0° る	19°46'49		4032 Nov 22 09:25	30°RM	
arrantant brillianav	4032 Jan 06 20:47	0°る 1°る05'58	0.7	asc. node	4032 Nov 24 00:02	28°M04'39	
greatest brilliancy desc. node	4032 Jan 07 14:41	10°る54'56	-0.7m	morning rise direct	4032 Nov 27 17:28	24°M44'20	
	4032 Jan 14 03:21 4032 Jan 20 04:22	10 ⁻ 83436 20° 8 10'46			4032 Nov 30 21:08 4032 Dec 07 16:46	23°M47'29 27°M33'33	18°52'44
morning set	4032 Jan 26 12:02	20 01046 0°≈		morning max el	4032 Dec 07 16.46 4032 Dec 09 22:04	27 IIL33 33 0° √ 1	18 32 44
max. Earth dist.	4032 Jan 31 22:06	0 ∞ 8°≈32'50	1.44268 AU	morning set	4032 Dec 09 22:04 4032 Dec 29 14:10	29° х ¹09'32	
max. Lattii dist.	4032 Jan 31 22.00	0 ~ 3230	1.44200 AC	morning set	4032 Dec 20 14:10 4032 Dec 30 03:03	0°る	
superior conj	4032 Feb 05 17:37	16° ≈ 15'48	-1°59'33	desc. node	4032 Dec 30 05:03 4032 Dec 31 00:23	0 0 1° る 23'36	
minimum elong	4032 Feb 05 11:55	15°≈52'46		max. Earth dist.	4033 Jan 13 15:08		1.45115 AU
minimum crong	4032 Feb 14 02:00	0° ∀	1 37 13	max. Earth dist.	1033 3411 13 13.00	22 0 13 30	1.13113110
evening rise	4032 Feb 19 05:32	8°) (41'12		superior conj	4033 Jan 15 02:21	25° る 02'25	-1°31'53
	4032 Mar 03 04:08	0°Υ		minimum elong	4033 Jan 14 17:05	24° る 25'59	
asc. node	4032 Mar 05 02:16	2° Υ 42'48			4033 Jan 18 05:48	0° ≈	
evening max el	4032 Mar 08 13:42	6° Y 50′05	18°14'34	evening rise	4033 Jan 30 07:50	19° ≈ 20'10	
retrograde	4032 Mar 14 23:52	10° Y 15′29		Č	4033 Feb 05 21:47	0°) €	
evening set	4032 Mar 17 22:19	9° Y 30'02		asc. node	4033 Feb 19 23:19	20°) 11′28	
inferior conj	4032 Mar 23 23:26	4° Υ 10'32	3°35'05	evening max el	4033 Feb 20 01:18	20°) 16′31	18°40'29
minimum elong	4032 Mar 24 00:03	4° Ƴ 08'49	3°35'05	retrograde	4033 Feb 26 16:17	23°) € 56'51	
min. Earth dist.	4032 Mar 26 13:02	1° Y 21'05	0.63379 AU	evening set	4033 Mar 01 20:53	22°) 58′58	
	4032 Mar 27 20:36	30° ₹ ₩		inferior conj	4033 Mar 07 13:57	17° ∺ 21'30	3°34'02
morning rise	4032 Mar 30 00:47	28°) €04'04		minimum elong	4033 Mar 07 13:03	17°) €24'14	
direct	4032 Apr 05 22:08	25° ∺ 22'09		min. Earth dist.	4033 Mar 09 11:53	15° ∺ 02'20	0.65116 AU
desc. node	4032 Apr 11 02:31	26°) 40′49		morning rise	4033 Mar 13 04:44	11° ∺ 09'48	
	4032 Apr 16 03:21	$0^{\circ}\mathbf{\Upsilon}$		direct	4033 Mar 19 21:02	8° ₩ 19'19	
morning max el	4032 Apr 19 18:59	3° Y 20′13	27°44'09	desc. node	4033 Mar 28 23:34	12°) 19'14	
	4032 May 09 16:28	0°8		morning max el	4033 Apr 02 04:49	16° ∺ 08'07	27°04'54
morning set	4032 May 24 07:55	26° 8 28'04			4033 Apr 13 15:35	0° Υ	
P. 4. F.	4032 May 26 01:52	0°II	1 220 15 177		4033 May 02 11:37	0° 8	
max. Earth dist.	4032 May 29 12:49	7° Ц 11'37	1.32845 AU	morning set	4033 May 07 20:14	10° 8 00'17	1 22025 111
	4022 1 01 02 14	120 T 2012 5	0000110	max. Earth dist.	4033 May 12 08:20	18° O 55'48	1.33925 AU
superior conj	4032 Jun 01 02:14	12° Ⅲ 39'35 12° Ⅲ 39'29	0°00'18		4033 May 16 04:50	200 52147	0920114
minimum elong behind sun begin	4032 Jun 01 02:13 4032 May 31 20:56	12° Ⅲ 39′29 12° Ⅲ 11′04	0°00'17	superior conj minimum elong	4033 May 16 04:30 4033 May 16 06:18	26° 8 53'47 27° 8 01'31	
behind sun end	4032 Jun 01 07:29	12 Ⅱ 11 04 13° Ⅱ 07'56		minimum ciong	4033 May 17 16:11	0° I	0 27 30
asc. node	4032 Jun 01 01:33	13 H 07 50		asc. node	4033 May 17 10:11 4033 May 18 22:36	2° Ⅱ 41'10	
evening rise	4032 Jun 08 02:50	27° I I48'12		evening rise	4033 May 23 13:25	12° ∏ 27′29	
evening rise	4032 Jun 09 03:50	0°9		evening rise	4033 Jun 01 14:07	0°9	
	4032 Jun 26 16:28	$0^{\circ}\Omega$		evening max el	4033 Jun 12 20:58	15°9526'44	21°41'25
evening max el	4032 Jul 01 03:31	4° Ω 56′28	23°16'07	desc. node	4033 Jun 24 22:46	21° © 34'34	
desc. node	4032 Jul 08 01:46	10° Ω 03'05		retrograde	4033 Jun 25 07:13	21° © 34'51	
retrograde	4032 Jul 14 15:31	11° Ω 41'17		evening set	4033 Jun 27 20:24	21° © 20'10	
evening set	4032 Jul 18 11:07	11° Ω 09'27		inferior conj	4033 Jul 07 05:14	17° © 18'30	-3°25'30
min. Earth dist.	4032 Jul 25 13:01	7° Ω 55'54	0.55669 AU	minimum elong	4033 Jul 06 20:51	17° © 30'13	3°23'01
inferior conj	4032 Jul 27 09:22	6° Ω 50'54	-4°43'25	min. Earth dist.	4033 Jul 06 23:34	17° © 26'25	0.54883 AU
minimum elong	4032 Jul 27 02:54	7° Ω 00′24	4°42'22	morning rise	4033 Jul 15 22:31	13° © 25'49	
morning rise	4032 Aug 04 21:02	2° Ω 57'56		direct	4033 Jul 19 05:21	13° © 02'16	
direct	4032 Aug 07 18:17	2° Ω 37'49		morning max el	4033 Jul 31 11:09	18° 5 47'27	21°56'01
morning max el	4032 Aug 18 09:55	7° Ω 34'36	20°25'54		4033 Aug 09 12:21	0 $^{\circ}\Omega$	
asc. node	4032 Aug 28 00:48	20° Ω 13'24		asc. node	4033 Aug 14 21:51	9° Ω 09'04	
	4032 Sep 02 09:43	0° m		morning set	4033 Aug 21 13:01	22° Ω 18'13	
morning set	4032 Sep 06 03:22	7° m 29'08			4033 Aug 25 04:31	0° m p	

superior conj	4033 Aug 28 18:06	7° ™ 32'45		morning set	4034 Aug 06 00:30	7° Ω 12'00	
minimum elong	4033 Aug 28 17:05	7° ™ 27'26	1°42'07			_	
max. Earth dist.	4033 Sep 01 10:32	15° Mp 10'28	1.34653 AU	superior conj	4034 Aug 13 00:42		1°33'59
evening rise	4033 Sep 05 21:50	24° Mp 02'23		minimum elong	4034 Aug 12 22:48	22° Ω 07'00	1°33'49
	4033 Sep 09 01:37	0∘ ত		max. Earth dist.	4034 Aug 15 09:17	27° Ω 20′05	1.33379 AU
desc. node	4033 Sep 20 22:07	20° ≙ 07'31			4034 Aug 16 15:36	O° Mp	
	4033 Sep 27 15:11	0° M		evening rise	4034 Aug 20 13:11	8°Mp00'18	
evening max el	4033 Oct 11 00:00	15° M 58'11	26°54'57		4034 Sep 01 13:07	0∘ ত	
retrograde	4033 Oct 24 03:48	23°M14'38		desc. node	4034 Sep 07 19:07	9° £ 50'24	
evening set	4033 Oct 30 21:08	20°M33'47		evening max el	4034 Sep 23 11:44	29° ≏ 18'10	27°23'21
min. Earth dist.	4033 Nov 03 20:26	16°M37'17	0.65621 AU		4034 Sep 24 05:40	0° M.	
inferior conj	4033 Nov 05 18:49	14°M23'26	-1°43'04	retrograde	4034 Oct 07 01:07	6°M36'22	
minimum elong	4033 Nov 05 21:42	14°M15'06	1°41'53	evening set	4034 Oct 14 03:09	3°M56'33	
asc. node	4033 Nov 10 21:05	9°M23'39		min. Earth dist.	4034 Oct 17 20:40	0° M 34'19	0.64153 AU
morning rise	4033 Nov 11 23:05	8°M44'58			4034 Oct 18 09:58	30°₽ ₽	
direct	4033 Nov 14 18:02	8°M02'22		inferior conj	4034 Oct 20 07:19	28° ₽ 00'26	-2°44'37
morning max el	4033 Nov 21 06:34	11°MJ33'30	18°14'56	minimum elong	4034 Oct 20 11:56	27° £ 48'17	2°42'57
	4033 Dec 04 06:46	0° ∡ ¹		morning rise	4034 Oct 26 22:01	22° ₽ 37'06	
morning set	4033 Dec 10 04:20	9° ҂ ³35'00		asc. node	4034 Oct 28 18:08	22° ഫ 07'22	
desc. node	4033 Dec 17 21:26	22° ҂ 02'23		direct	4034 Oct 29 10:37	22° ≏ 04'58	
	4033 Dec 22 21:30	0°ರ		morning max el	4034 Nov 04 23:02	25° £ 30'27	17°54'09
				, and the second	4034 Nov 08 17:23	0°M	
superior conj	4033 Dec 25 05:14	3°₹39'59	-0°48'45	morning set	4034 Nov 21 22:29	21°M22'02	
minimum elong	4033 Dec 24 23:07	3° ප 15'52	0°47'57	. 8	4034 Nov 27 00:44	0° ∡ 7	
max. Earth dist.	4033 Dec 27 10:36	7° る 09'49	1.45224 AU				
evening rise	4034 Jan 10 11:34	29° පි 06'27		superior conj	4034 Dec 04 22:45	13° ∡ °04'25	-0°01'15
evening rise	4034 Jan 11 01:17	0°≈		minimum elong	4034 Dec 04 22:37	13°× 03'52	
greatest brilliancy	4034 Jan 22 03:43	17°≈12'28	-0.7m	behind sun begin	4034 Dec 04 12:34	12°× 23'04	0 0111
greatest offinaley	4034 Jan 31 02:51	0° \	0.7111	behind sun end	4034 Dec 05 08:40	13° × ⁷ 44'36	
evening max el	4034 Feb 03 09:25	3° ¥ 46'59	19°23'30	desc. node	4034 Dec 04 18:26	12° × ⁷ 46'55	
asc. node	4034 Feb 06 20:22	6°) (40'48	17 23 30	max. Earth dist.	4034 Dec 04 16:20 4034 Dec 10 05:02	21°× 30'46	1.44594 AU
retrograde	4034 Feb 10 12:58	7°) 53'00		max. Earth dist.	4034 Dec 15 14:35	0°る	1.44374 AO
evening set	4034 Feb 14 00:35	6°) 41′55		evening rise	4034 Dec 20 23:35	8° ਰ 19'12	
inferior conj	4034 Feb 19 12:31	0° X 41'33	3°18'48	evening rise	4035 Jan 04 08:28	0°≈	
minimum elong	4034 Feb 19 10:35	0°) ₹54'56	3°18'29	evening max el	4035 Jan 17 12:34	0 ∞ 17° ≈ 19'11	20°21'46
minimum ciong	4034 Feb 20 03:26	0 X 3430	3 16 29	asc. node	4035 Jan 24 17:24	21°≈56'06	20 21 40
min. Earth dist.	4034 Feb 20 03:20 4034 Feb 20 19:20	29°≈08'26	0.66449 AU	retrograde	4035 Jan 25 11:08	21°≈59'05	
	4034 Feb 24 20:20	29 ≈08 20 24°≈34'46	0.00449 AU	Č	4035 Jan 29 07:12	21 ≈3903 20°≈33'49	
morning rise				evening set	4035 Feb 03 16:21		2°52'32
direct	4034 Mar 03 02:12	21°≈48'33	25°59'11	inferior conj minimum elong		14°≈27'29	
morning max el desc. node	4034 Mar 15 14:36 4034 Mar 15 20:38	29°≈15'18 29°≈30'38	23 39 11	min. Earth dist.	4035 Feb 03 13:55 4035 Feb 04 09:30	14°≈35'44 13°≈29'11	0.67359 AU
desc. Hode	4034 Mar 16 08:01	29 ≈ 30 38			4035 Feb 04 09:30 4035 Feb 08 20:26	8°≈13'33	0.07339 AU
	4034 Mai 16 08.01 4034 Apr 07 11:45	0 Υ 0° Υ		morning rise direct	4035 Feb	5°≈41'24	
morning sat		0 γ 22° Υ 49'29					24°36'44
morning set max. Earth dist.	4034 Apr 20 19:06 4034 Apr 24 16:28	0° 8 10'18	1.35464 AU	morning max el desc. node	4035 Feb 25 23:18 4035 Mar 02 17:41	12°≈31'33 17°≈48'36	24 30 44
max. Earm dist.	-	0.8 0.91019	1.33404 AU	desc. Hode	4035 Mar 12 01:02	0°) €	
	4034 Apr 24 14:19	0.0				0 Υ 0° Υ	
superior conj	4034 Apr 29 23:55	10° 8 41'06	0.67124	morning set	4035 Mar 31 06:29 4035 Apr 02 23:20	4° Υ 41'25	
minimum elong	4034 Apr 30 02:59	10° 8 56'42		max. Earth dist.	4035 Apr 06 14:38		1.37403 AU
asc. node	4034 May 05 19:40	22° 8 39'13	0 30 30	max. Earth dist.	4033 Apr 00 14.38	11 11222	1.37403 AU
evening rise	4034 May 07 20:43	26° 8 51'56		superior conj	4035 Apr 13 08:20	23° Y 53'38	1025!16
evening rise	4034 May 09 09:39	0°II		minimum elong	4035 Apr 13 12:44	23 γ 33 38 24° Υ 14'56	
avanina may al		26° I I27'50	20010140	minimum elong		0° 8	1 24 36
evening max el	4034 May 26 01:09	20 H2730 0°9	20 1940		4035 Apr 16 11:03		
	4034 May 30 15:04			evening rise	4035 Apr 21 22:22	10° 8 54'50	
retrograde	4034 Jun 05 20:46	1°544'41		asc. node	4035 Apr 22 16:42	12° 8 25'54 0° Ⅱ	
evening set	4034 Jun 07 20:17	1°934'48			4035 May 02 08:07		1001740
desc. node	4034 Jun 11 19:48	0°©21'31		evening max el	4035 May 08 17:39	8° Ⅱ 11'05	17 10 40
inforier con:	4034 Jun 12 14:47	30°RⅡ 27°Ⅲ36'36	1021144	retrograde	4035 May 17 20:19	12° ∏ 37'06	
inferior conj	4034 Jun 16 23:51	27° ∏ 36'36		evening set	4035 May 19 20:33	12° Ⅱ 25'05	0024120
minimum elong	4034 Jun 16 19:32	27° ∏ 42'55		inferior conj	4035 May 28 07:19	8° Π 16'19	
min. Earth dist.	4034 Jun 18 11:47	26° ∏ 43'56	0.55042 AU	minimum elong	4035 May 28 08:20	8° Ⅱ 14'38	0°24'06
morning rise	4034 Jun 25 17:36	23° Ⅱ 23'18		desc. node	4035 May 29 16:50	7° Ⅱ 20′25	0.56126 411
direct	4034 Jun 29 15:44	22° I I50′02	22020101	min. Earth dist.	4035 May 31 02:33	6° Ⅱ 25'11	0.56136 AU
morning max el	4034 Jul 13 03:56	29° Ⅱ 24'33	23-38.01	morning rise	4035 Jun 05 17:04	3° Ⅱ 28'55	
1	4034 Jul 13 18:44	0ಂ ತ ಿ		direct	4035 Jun 10 13:39	2° ∏ 34'37	05010141
asc. node	4034 Aug 01 18:55	28°931'51		morning max el	4035 Jun 24 17:57	9° Ⅱ 48'10	25-18-41
	4034 Aug 02 12:39	0 ° Ω			4035 Jul 09 22:55	0ං වෙ	

asc. node	4035 Jul 19 15:58	18° © 14'22		morning set	4036 Jul 04 22:23	6° © 52'55	
morning set	4035 Jul 21 12:09	22°505'26		asc. node	4036 Jul 05 13:00	8° © 10'06	
	4035 Jul 25 04:13	$0^{\circ}\Omega$		superior conj	4036 Jul 11 22:31	22° © 06'22	1°02'41
superior conj	4035 Jul 28 10:50	7° Ω 10'47	1°20'34	minimum elong	4036 Jul 11 20:17	21°954'02	1°02'17
minimum elong	4035 Jul 28 08:31	6° Ω 58'07	1°20'16	max. Earth dist.	4036 Jul 12 02:18	22° © 27'16	1.32088 AU
max. Earth dist.	4035 Jul 29 15:33	9° Ω 47'50	1.32528 AU		4036 Jul 15 12:46	$0^{\circ}\Omega$	
evening rise	4035 Aug 04 13:25	22° Ω 23′28		evening rise	4036 Jul 18 19:41	7° Ω 02'45	
	4035 Aug 08 08:23	0° m			4036 Jul 30 20:41	0°Щ	
desc. node	4035 Aug 25 16:07	28° m 56'48		desc. node	4036 Aug 11 13:08	17° mp 11'50	
1	4035 Aug 26 10:30	0° ჲ	27922100	evening max el	4036 Aug 18 00:28	24° Mp 18'59	26°47'26
evening max el retrograde	4035 Sep 05 20:44 4035 Sep 19 15:51	12° ♀ 09'07 19° ♀ 24'15	27°22'00	retrograde	4036 Aug 25 20:54 4036 Aug 31 22:42	0° ჲ 1° ჲ 29'37	
evening set	4035 Sep 26 20:14	19 ≥ 24 13 16° ⊆ 57'02		renograde	4036 Sep 06 20:03	1 ==2937 30°RM)	
min. Earth dist.	4035 Sep 20 20:14 4035 Sep 30 10:54	14° ⊆ 03'04	0.62369 AU	evening set	4036 Sep 07 19:59	29° m) 27'42	
inferior conj	4035 Oct 03 08:50	11° ≏ 19'17		min. Earth dist.	4036 Sep 11 14:32	26° m 50'27	0.60359 AU
minimum elong	4035 Oct 03 14:40	11° ≏ 05'36	3°42'05	inferior conj	4036 Sep 14 20:01	24° m/11'29	-4°34'28
morning rise	4035 Oct 10 10:47	6° ≙ 14'14		minimum elong	4036 Sep 15 01:35	24° Mp 00'01	4°33'23
direct	4035 Oct 12 19:49	5° ≙ 49'03		morning rise	4036 Sep 22 09:08	19° m 27'46	
asc. node	4035 Oct 15 15:11	6° Ω 25'16		direct	4036 Sep 24 17:48	19°₩06'32	
morning max el	4035 Oct 19 15:05	9° £ 17'03	17°51'14	asc. node	4036 Oct 01 12:13	22° m 09'39	10005100
	4035 Nov 02 06:12	0°M		morning max el	4036 Oct 02 03:34	22° m/45'24	18°07'28
morning set	4035 Nov 04 14:38	4°M12'11		morning set	4036 Oct 07 20:21 4036 Oct 17 22:45	0° ჲ 17° ჲ 48'09	
superior conj	4035 Nov 15 17:59	23°M44'31	0°40'26	morning set	4036 Oct 24 11:59	0°M	
minimum elong	4035 Nov 15 21:29	23°M59'25	0°39'57		1030 000 21 11.37	O IIO	
	4035 Nov 19 11:27	0° ∡ 7		superior conj	4036 Oct 27 14:59	5°M40'06	1°11'34
desc. node	4035 Nov 21 15:26	3° ∡ ³34′05		minimum elong	4036 Oct 27 19:05	5°M58'24	1°11'05
max. Earth dist.	4035 Nov 22 20:02	5° ∡ ³30'34	1.43317 AU	max. Earth dist.	4036 Nov 04 06:29	18°M57'06	1.41546 AU
evening rise	4035 Nov 30 10:39	17° ∡ ³35′54		desc. node	4036 Nov 07 12:26	24°M20'40	
	4035 Dec 08 13:35	5°0		evening rise	4036 Nov 09 12:20	27°M35'24	
	4035 Dec 30 14:09	0°≈ 0°≈ -52122	2192206		4036 Nov 11 00:23	0° ₹	
evening max el	4035 Dec 31 10:12 4036 Jan 09 08:38	0°≈52'22 6°≈10'49	21°32'06	avanina may al	4036 Dec 01 06:12 4036 Dec 13 03:03	0°중 14°중28'15	22940150
retrograde asc. node	4036 Jan 11 14:26	5°≈43'34		evening max el retrograde	4036 Dec 13 03:03 4036 Dec 23 03:53	14 3 28 13 20° る 25'32	22 49 39
evening set	4036 Jan 13 14:53	4°≈30'15		evening set	4036 Dec 27 22:03	18° る 28'50	
	4036 Jan 17 16:12	30°Rる		asc. node	4036 Dec 28 11:28	17° る 59'22	
inferior conj	4036 Jan 18 23:08	28° る 13'55	2°17'15	inferior conj	4037 Jan 02 06:59	12° る 05'58	1°34'27
minimum elong	4036 Jan 18 20:43	28° る 22'18	2°16'28	minimum elong	4037 Jan 02 05:01	12° る 12'45	1°33'43
min. Earth dist.	4036 Jan 19 04:01		0.67873 AU	min. Earth dist.	4037 Jan 02 00:33		0.68013 AU
morning rise	4036 Jan 24 02:21	22° る 01'42		morning rise	4037 Jan 07 11:52	5° る 57'14	
direct	4036 Jan 29 04:12	19° る 49'48	22007144	direct	4037 Jan 11 23:07	4°る08'14	21041121
morning max el	4036 Feb 08 08:21 4036 Feb 12 02:46	25° る 52'16 0°≈	23°07'44	morning max el desc. node	4037 Jan 20 21:31 4037 Feb 03 11:43	9°る21'15 26°る32'07	21°41'31
desc. node	4036 Feb 17 14:42	0 ∞ 6°≈53'22		desc. Hode	4037 Feb 05 11:45 4037 Feb 05 21:46	20 3 32 07 0° ≈	
dese. Hode	4036 Mar 04 14:13	0° ∀		morning set	4037 Feb 22 00:58	24°≈32'54	
morning set	4036 Mar 14 02:36	15°) 18′24			4037 Feb 25 10:13	0°) €	
max. Earth dist.	4036 Mar 18 09:28	22°) €35'37	1.39572 AU	max. Earth dist.	4037 Feb 28 09:00	4°) (50′47	1.41695 AU
	4036 Mar 22 14:21	0 ° Υ					
				superior conj	4037 Mar 07 23:53	17°) 49'17	
superior conj	4036 Mar 26 01:57	6° Υ 20'10		minimum elong	4037 Mar 08 02:40	18°) €01'23	2°04'23
minimum elong	4036 Mar 26 06:37	6°Υ41'43	1°48'33	avanina riaa	4037 Mar 14 19:35	0° Υ 7° Υ 21'54	
evening rise	4036 Apr 04 15:21 4036 Apr 07 13:05	24° Y 27'33 0° と		evening rise asc. node	4037 Mar 18 20:07 4037 Mar 26 10:45	21° Υ 02'23	
asc. node	4036 Apr 08 13:43	1° 8 55'34		asc. node	4037 Apr 01 07:02	0° 8	
evening max el	4036 Apr 20 20:07	20° 8 31'52	18°33'51	evening max el	4037 Apr 04 05:08	3° 8 21'31	18°11'06
retrograde	4036 Apr 28 13:55	24° 8 20'24		retrograde	4037 Apr 11 02:04	6° 8 49'27	
evening set	4036 Apr 30 20:26	24° 8 01'49		evening set	4037 Apr 13 15:11	6° 8 21'34	
inferior conj	4036 May 08 11:14	19° 8 34'11	1°56'28	inferior conj	4037 Apr 20 12:14	1° 8 32'57	
minimum elong	4036 May 08 14:47	19° 8 27'17	1°55'24	minimum elong	4037 Apr 20 15:28	1° 8 25'37	2°55'37
min. Earth dist.	4036 May 11 20:44	16° 8 57'14	0.57930 AU		4037 Apr 22 05:01	30°RƳ	0.60060 :==
desc. node	4036 May 15 13:53	14° 8 33'32		min. Earth dist.	4037 Apr 23 20:37	28° Y 32'18	0.60069 AU
morning rise direct	4036 May 16 05:57 4036 May 22 01:45	14° 8 13'08 12° 8 47'10		morning rise desc. node	4037 Apr 27 13:23 4037 May 02 10:55	25° Υ 46'46 23° Υ 53'20	
morning max el	4036 Jun 05 10:47	20° 8 25'07	26°42'19	direct	4037 May 02 10:33 4037 May 04 02:07	23° Υ 45'51	
	4036 Jun 13 16:29	0°Ⅱ			4037 May 16 16:27	0°8	
	4036 Jul 01 14:04	0°9		morning max el	4037 May 18 09:51	1° 8 37'47	27°35'37

morning set asc. node	4037 Jun 07 22:48 4037 Jun 19 05:29 4037 Jun 22 10:01	0°Ⅱ 21°Ⅱ29'06 28°Ⅱ14'12		morning set max. Earth dist.	4038 May 31 09:39 4038 Jun 03 07:26 4038 Jun 08 22:23	0°П 5°П47'41 17°П35'37	1.32428 AU
max. Earth dist.	4037 Jun 23 05:36 4037 Jun 25 13:55	0°ഇ 5° ഇ 07'39	1.32054 AU	asc. node	4038 Jun 09 07:03	18° Ⅱ 22'23	
superior conj minimum elong evening rise	4037 Jun 26 10:01 4037 Jun 26 08:19 4037 Jul 03 05:40	6°\$58'09 6°\$48'47 21°\$50'36	0°40'56 0°40'34	superior conj minimum elong behind sun begin behind sun end	4038 Jun 10 19:37 4038 Jun 10 18:52 4038 Jun 10 18:09 4038 Jun 10 19:36	21°П40'40 21°П36'38 21°П32'41 21°П40'36	0°15'56 0°15'45
	4037 Jul 07 04:21 4037 Jul 25 15:51	0° Ω 0° m		evening rise	4038 Jun 14 15:07 4038 Jun 17 17:24	0°ତ 6°ତ40'27	
desc. node evening max el	4037 Jul 29 10:10 4037 Jul 30 20:45	4° ነው 14'03 5° ነው 39'51	25°41'04	evening max el	4038 Jun 29 23:08 4038 Jul 12 10:41	0° Ω 16° Ω 19'22	24011/56
retrograde	4037 Aug 13 19:58	12° Mp 46'23	23 41 04	desc. node	4038 Jul 16 07:12	10 8€ 1922 19° Ω 34'59	24 11 30
evening set	4037 Aug 19 21:31	11° m 19'51		retrograde	4038 Jul 26 06:09	23° Ω 17'07	
min. Earth dist.	4037 Aug 24 08:47	8° Mp 42'13	0.58303 AU	evening set	4038 Jul 30 23:06	22° Ω 27'52	
inferior conj	4037 Aug 27 13:16	6° m 26'14		min. Earth dist.	4038 Aug 05 21:19		0.56478 AU
minimum elong morning rise	4037 Aug 27 15:52 4037 Sep 04 12:28	6° Mp 21'35 2° Mp 05'46	5°06'19	inferior conj minimum elong	4038 Aug 08 10:24 4038 Aug 08 07:16	17° Ω 56'20 18° Ω 01'14	
direct	4037 Sep 07 12:28 4037 Sep 07 00:03	1°Mp46'15		morning rise	4038 Aug 16 18:02	13° Ω 56'20	3 03 01
morning max el	4037 Sep 15 09:10	5° m 45'42	18°44'17	direct	4038 Aug 19 11:00	13° Ω 37'02	
asc. node	4037 Sep 18 09:15	9° ™ 05'22		morning max el	4038 Aug 29 04:53	18° Ω 09'09	19°42'39
	4037 Sep 30 18:12 4037 Oct 01 17:57	0° ⊽		asc. node	4038 Sep 05 06:17	26° Ω 57'42	
morning set	403 / Oct 01 17:57	1° ≏ 55'30		morning set	4038 Sep 07 03:39 4038 Sep 15 20:43	0° Mp 16° Mp 24'30	
superior conj	4037 Oct 10 08:48	18° ≏ 36'38	1°31'42	morning ser	4038 Sep 22 14:06	0° ⊽	
minimum elong	4037 Oct 10 11:45	18° ≏ 50'32	1°31'26		-		
	4037 Oct 16 13:41	0°M		superior conj	4038 Sep 23 18:00	2° ≙ 18'44	1°42'01
max. Earth dist. evening rise	4037 Oct 17 12:31 4037 Oct 21 12:29	1°M41'13 8°M36'11	1.39495 AU	minimum elong max. Earth dist.	4038 Sep 23 19:17 4038 Sep 29 17:05	2° Ω 25'02 13° Ω 47'24	1°41'58 1.37426 AU
desc. node	4037 Oct 21 12:29 4037 Oct 25 09:27	15°M02'45		evening rise	4038 Sep 29 17:03 4038 Oct 03 11:24	13 = 47 24 20° £ 39'47	1.37420 AU
	4037 Nov 03 23:32	0°⊀		<i>y</i>	4038 Oct 08 20:47	0° M	
evening max el	4037 Nov 25 16:37	28° ₹ 07'09	24°09'44	desc. node	4038 Oct 12 06:29	5°M36'08	
	4037 Nov 27 16:33	0°る			4038 Oct 28 23:38	0° 🖍	25924140
retrograde evening set	4037 Dec 06 19:45 4037 Dec 12 03:08	4°る39'08 2°る26'22		evening max el retrograde	4038 Nov 08 04:54 4038 Nov 20 07:19	11° х 48'51 18° х 47'00	25°24'40
evening see	4037 Dec 14 12:17	30°R. ✓		evening set	4038 Nov 26 04:30	16° ∡ 17'55	
asc. node	4037 Dec 15 08:30	28° ₹ 58'11		min. Earth dist.	4038 Nov 30 14:30	11° ∡ 727′11	0.67222 AU
min. Earth dist.	4037 Dec 16 20:48	26° ₹ 59'11	0.67793 AU	inferior conj	4038 Dec 01 18:40	9° ∡ 56'19	
inferior conj minimum elong	4037 Dec 17 14:05 4037 Dec 17 13:01	26° ₹ 00'54 26° ₹ 04'29	0°45'14 0°44'49	minimum elong transit middle	4038 Dec 01 18:54 4038 Dec 01 18:54	9° х 55'34 9° х 55'34	0°09'11 0°09'11
morning rise	4037 Dec 17 13:01 4037 Dec 22 22:57	19° х 57'31	0 44 49	transit begin	4038 Dec 01 16:36	10° ∡ 03'00	0 09 11
direct	4037 Dec 26 20:32	18° ∡ ³31′01		transit end	4038 Dec 01 21:12	9° ∡ ¹48'08	
morning max el	4038 Jan 03 17:55		20°24'52	asc. node	4038 Dec 02 05:32	9° ∡ 121′20	
	4038 Jan 09 16:25	0°る		morning rise	4038 Dec 07 09:36	4° ∡ 100′23	
desc. node	4038 Jan 21 08:44 4038 Jan 30 05:07	16°る35'11 0°≈		direct morning max el	4038 Dec 10 19:08 4038 Dec 17 22:15	2° х 53'53 6° х 53'17	19°21'50
morning set	4038 Feb 01 00:45	0 ∞ 2° ≈ 48'26		greatest brilliancy	4038 Dec 31 07:10	24° × ⁷ 47'25	-0.7m
max. Earth dist.	4038 Feb 10 16:09	18° ≈ 00'52	1.43480 AU	· ·	4039 Jan 03 17:32	8°0	
				desc. node	4039 Jan 08 05:46	6° ප 55'56	
superior conj	4038 Feb 16 21:21	28°≈10'14 28°≈01'21		morning set	4039 Jan 10 23:42 4039 Jan 23 01:11	11°る10'50 0°≈	
minimum elong	4038 Feb 16 19:13 4038 Feb 17 23:44	28 ≈ 0121 0° ∀	2 00 28	max. Earth dist.	4039 Jan 24 05:46	0 ≈ 1°≈52'42	1.44710 AU
evening rise	4038 Mar 01 08:25	19°) €28'48		man Burth dist.	1000 0411 21 00.10	1 1 1 1 2 1 2	1,10110
-	4038 Mar 07 09:24	0 ° $\mathbf{\Upsilon}$		superior conj	4039 Jan 27 17:24	7° ≈ 24'24	-1°50'09
asc. node	4038 Mar 13 07:47	9° Y 38'53		minimum elong	4039 Jan 27 09:30	6°≈52'57	1°49'33
evening max el	4038 Mar 18 17:22	16° Υ 30'58 19° Υ 53'43	18°07'53	evening rise	4039 Feb 10 23:58	0° ∺ 40′26 0° ∺	
retrograde evening set	4038 Mar 25 04:47 4038 Mar 27 23:48	19° Y 33'43		asc. node	4039 Feb 10 14:14 4039 Feb 28 04:50	0° X 27° X 35'22	
inferior conj	4038 Apr 03 07:02	14° Υ 06'18	3°27'33	evening max el	4039 Mar 02 05:53	29° H 52'27	18°23'28
minimum elong	4038 Apr 03 08:41	14° Y ′02'03	3°27'24	-	4039 Mar 02 08:54	0° Υ	
min. Earth dist.	4038 Apr 06 04:49	11° Υ 06'34	0.62219 AU	retrograde	4039 Mar 08 17:18	3° Y 23'12	
morning rise	4038 Apr 16 12:43	8° Y 04'47 5° Y 34'34		evening set	4039 Mar 11 18:11	2° Y 32'44	
direct desc. node	4038 Apr 16 12:43 4038 Apr 19 07:57	5° γ '34'34 5° γ '57'28		inferior conj	4039 Mar 14 23:36 4039 Mar 17 15:28	30° ₹ 27° 升 05'24	3°36'39
morning max el	4038 Apr 30 15:07	13° Υ 33'23	27°51'54	minimum elong	4039 Mar 17 15:23	27° H 05'38	
-	4038 May 13 19:35	0°8		min. Earth dist.	4039 Mar 19 22:30	24°) €27'01	0.64154 AU

morning rise direct	4039 Mar 23 11:49 4039 Mar 30 07:42	20° 米 55'56 18° 米 08'30		retrograde evening set	4040 Feb 20 11:48 4040 Feb 23 19:12	17° 米 11′27 16° 米 08′13	
desc. node	4039 Apr 06 05:00	20°) (27'06	25021120	inferior conj	4040 Feb 29 09:47		3°29'05
morning max el	4039 Apr 13 00:04	26°) €05'07 0° °	27°31'20	minimum elong	4040 Feb 29 08:23	10° ¥ 28′26	3°28'56
	4039 Apr 16 15:04 4039 May 07 08:54	0°8		min. Earth dist.	4040 Mar 02 01:16 4040 Mar 05 21:10	8° ∺ 20'25 4° ∺ 11'06	0.65734 AU
morning set	4039 May 18 01:38	19° 8 39'22		morning rise direct	4040 Mar 12 09:40	1° ¥ 20'37	
max. Earth dist.	4039 May 22 23:27		1.33238 AU	desc. node	4040 Mar 23 02:02	6° ¥ 48'39	
max. Darm dist.	4039 May 23 03:52	0°II	1.55250 710	morning max el	4040 Mar 25 02:02 4040 Mar 25 09:57	9° H 02'14	26°39'35
	,			5 5	4040 Apr 10 20:20	$0^{\circ}\Upsilon$	
superior conj	4039 May 26 01:21	6° Ⅱ 06'43	-0°11'38		4040 Apr 28 19:35	$0^{\circ}S$	
minimum elong	4039 May 26 01:57	6° Ⅱ 09'51	0°11'31	morning set	4040 Apr 30 08:44	2° 8 54'37	
behind sun begin	4039 May 25 22:10	5° Ⅱ 49'42		max. Earth dist.	4040 May 04 13:51	11° 8 05'46	1.34520 AU
behind sun end	4039 May 26 05:44	6° Ⅲ 30′01					
asc. node	4039 May 27 04:06	8° Ⅱ 29'37		superior conj	4040 May 09 01:05	20° 8 10'16	
evening rise	4039 Jun 02 04:53	21° Ⅱ 24'47		minimum elong	4040 May 09 03:15	20° 8 21'26	0°40'11
	4039 Jun 06 09:11	0.20		asc. node	4040 May 13 01:09	28° 8 32'10	
evening max el	4039 Jun 24 00:30	26°5643'14	22°34'57		4040 May 13 17:52	0°II	
JJ.	4039 Jun 27 22:28	0°Ω		evening rise	4040 May 16 14:18	5° I I58′02	
desc. node	4039 Jul 03 04:14 4039 Jul 07 04:01	2°Ω38'55 3°Ω15'32		avanina may al	4040 May 29 19:25 4040 Jun 04 22:07	0°ତ 7° ତ 24'18	2190441
retrograde evening set	4039 Jul 10 08:48	2°Ω53'02		evening max el retrograde	4040 Jun 16 17:00	7 \$24 18 13°\$11'00	21 0441
evening set	4039 Jul 17 06:22	2 8€ 33 02 30° ₹ 5		evening set	4040 Jun 18 22:04	13 S 11 00	
min. Earth dist.	4039 Jul 18 08:07	29° © 23'58	0.55224 AU	desc. node	4040 Jun 19 01:15	12°958'11	
inferior conj	4039 Jul 19 13:13	28° © 42'31		inferior conj	4040 Jun 28 06:40	9° 5 01'48	-2°39'53
minimum elong	4039 Jul 19 05:10	28°954'01		minimum elong	4040 Jun 27 23:27		2°37'27
morning rise	4039 Jul 28 03:37	24° © 51'52		min. Earth dist.	4040 Jun 28 19:24	8°543'51	0.54832 AU
direct	4039 Jul 31 04:10	24° © 30'55		morning rise	4040 Jul 07 00:58	5°902'27	
morning max el	4039 Aug 11 12:48	29° 5 47'58	21°02'06	direct	4040 Jul 10 13:35	4° © 35'38	
	4039 Aug 11 17:57	$0^{\circ}\Omega$		morning max el	4040 Jul 23 09:43	10°542'55	22°38'30
asc. node	4039 Aug 23 03:21	15° Ω 33′05			4040 Aug 06 11:26	$0^{\circ}\Omega$	
	4039 Aug 30 15:20	0°Щ		asc. node	4040 Aug 09 00:23	4° Ω 40'59	
morning set	4039 Aug 31 04:25	1°₩07'28		morning set	4040 Aug 14 15:01	15° Ω 58'42	
	4039 Sep 07 14:05	1.60 m- 2.014.4	1044107		4040 Aug 21 04:47	0° m)	
superior conj							
	1	16° Mp 32'44	1°44'07	aumariar aani	4040 Aug 21 17:27	10 1 00120	1920/22
minimum elong	4039 Sep 07 13:48	16° Mp 31'16	1°44'07	superior conj	4040 Aug 21 17:37	1° Mp 08'20	1°39'22
	4039 Sep 07 13:48 4039 Sep 12 02:05	16° m 31'16 25° m 38'22		minimum elong	4040 Aug 21 16:10	1° m, 00'37	1°39'17
minimum elong max. Earth dist.	4039 Sep 07 13:48 4039 Sep 12 02:05 4039 Sep 14 07:46	16° № 31'16 25° № 38'22 0° <u>Ω</u>	1°44'07	minimum elong max. Earth dist.	4040 Aug 21 16:10 4040 Aug 24 19:49	1° m 00'37 7° m 38'27	
minimum elong	4039 Sep 07 13:48 4039 Sep 12 02:05 4039 Sep 14 07:46 4039 Sep 16 05:25	16° № 31'16 25° № 38'22 0° Ω 3° Ω 36'59	1°44'07	minimum elong	4040 Aug 21 16:10 4040 Aug 24 19:49 4040 Aug 29 14:09	1° m, 00'37	1°39'17
minimum elong max. Earth dist.	4039 Sep 07 13:48 4039 Sep 12 02:05 4039 Sep 14 07:46	16° № 31'16 25° № 38'22 0° <u>Ω</u>	1°44'07	minimum elong max. Earth dist.	4040 Aug 21 16:10 4040 Aug 24 19:49	1° m 00'37 7° m 38'27 17° m 16'06	1°39'17
minimum elong max. Earth dist.	4039 Sep 07 13:48 4039 Sep 12 02:05 4039 Sep 14 07:46 4039 Sep 16 05:25 4039 Sep 29 03:32	16° № 31'16 25° № 38'22 0° Ω 3° Ω 36'59 25° Ω 55'32	1°44'07 1.35568 AU	minimum elong max. Earth dist. evening rise	4040 Aug 21 16:10 4040 Aug 24 19:49 4040 Aug 29 14:09 4040 Sep 05 09:31	1° m 00'37 7° m 38'27 17° m 16'06 0° 으	1°39'17
minimum elong max. Earth dist. evening rise desc. node	4039 Sep 07 13:48 4039 Sep 12 02:05 4039 Sep 14 07:46 4039 Sep 16 05:25 4039 Sep 29 03:32 4039 Oct 01 18:33	16° \ 31'16 25° \ 38'22 0° Ω 3° Ω36'59 25° Ω55'32 0° \ M	1°44'07 1.35568 AU	minimum elong max. Earth dist. evening rise	4040 Aug 21 16:10 4040 Aug 24 19:49 4040 Aug 29 14:09 4040 Sep 05 09:31 4040 Sep 15 00:33	1° 1000'37 7° 1038'27 17° 1016'06 0° 102 15° 10254'13	1°39'17 1.34065 AU
minimum elong max. Earth dist. evening rise desc. node	4039 Sep 07 13:48 4039 Sep 12 02:05 4039 Sep 14 07:46 4039 Sep 16 05:25 4039 Sep 29 03:32 4039 Oct 01 18:33 4039 Oct 21 17:26	16° ነ 31'16 25° ነ 38'22 0°	1°44'07 1.35568 AU	minimum elong max. Earth dist. evening rise desc. node	4040 Aug 21 16:10 4040 Aug 24 19:49 4040 Aug 29 14:09 4040 Sep 05 09:31 4040 Sep 15 00:33 4040 Sep 25 03:14	1° ሺ 00'37 7° ሺ 38'27 17° ሺ 16'06 0° Ω 15° Ω 54'13	1°39'17 1.34065 AU
minimum elong max. Earth dist. evening rise desc. node evening max el	4039 Sep 07 13:48 4039 Sep 12 02:05 4039 Sep 14 07:46 4039 Sep 16 05:25 4039 Sep 29 03:32 4039 Oct 01 18:33 4039 Oct 21 17:26 4039 Oct 27 03:50	16° № 31'16 25° № 38'22 0° Ω 3° Ω 36'59 25° Ω 55'32 0° M 25° M 30'06 0° 🗷 2° 🗷 43'05 0° 🗷 05'41	1°44'07 1.35568 AU	minimum elong max. Earth dist. evening rise desc. node evening max el	4040 Aug 21 16:10 4040 Aug 24 19:49 4040 Aug 29 14:09 4040 Sep 05 09:31 4040 Sep 15 00:33 4040 Sep 25 03:14 4040 Oct 03 06:03	1° 100037 7° 1038'27 17° 1016'06 0° <u>ዓ</u> 15° ዓ 54'13 0° 116'05 9° 1101'59	1°39'17 1.34065 AU 27°10'25
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	4039 Sep 07 13:48 4039 Sep 12 02:05 4039 Sep 14 07:46 4039 Sep 16 05:25 4039 Sep 29 03:32 4039 Oct 01 18:33 4039 Oct 21 17:26 4039 Oct 27 03:50 4039 Nov 03 13:55	16° m 31'16 25° m 38'22 0° Ω 3° Ω 36'59 25° Ω 55'32 0° m 25° M 30'06 0° 🖈 2° 🖈 43'05 0° 🖈 05'41 30° R M	1°44'07 1.35568 AU 26°27'26	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	4040 Aug 21 16:10 4040 Aug 24 19:49 4040 Aug 29 14:09 4040 Sep 05 09:31 4040 Sep 15 00:33 4040 Sep 25 03:14 4040 Oct 03 06:03 4040 Oct 16 14:37 4040 Oct 23 12:06 4040 Oct 27 08:53	1° 100037 7° 103827 17° 101606 0° Ω 15° Ω 54'13 0° 11 9° 1101'59 16° 119'36 13° 1138'21 9° 1156'30	1°39'17 1.34065 AU 27°10'25 0.65037 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	4039 Sep 07 13:48 4039 Sep 12 02:05 4039 Sep 14 07:46 4039 Sep 16 05:25 4039 Sep 29 03:32 4039 Oct 01 18:33 4039 Oct 21 17:26 4039 Nov 12 00:16 4039 Nov 10 00:16 4039 Nov 10 03:00 4039 Nov 14 03:20	16° m 31'16 25° m 38'22 0° Ω 3° Ω 36'59 25° Ω 55'32 0° m 25° m 30'06 0° 🖈 2° 🛪 43'05 0° 🛪 05'41 30° R m 25° m 48'22	1°44'07 1.35568 AU 26°27'26 0.66301 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	4040 Aug 21 16:10 4040 Aug 24 19:49 4040 Aug 29 14:09 4040 Sep 05 09:31 4040 Sep 15 00:33 4040 Sep 25 03:14 4040 Oct 03 06:03 4040 Oct 16 14:37 4040 Oct 23 12:06 4040 Oct 27 08:53 4040 Oct 29 12:21	1° 100037 7° 1038'27 17° 1016'06 0° Ω 15° Ω 54'13 0° 11 9° 110'59 16° 119'36 13° 1138'21 9° 1156'30 7° 1133'27	1°39'17 1.34065 AU 27°10'25 0.65037 AU -2°09'12
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	4039 Sep 07 13:48 4039 Sep 12 02:05 4039 Sep 14 07:46 4039 Sep 16 05:25 4039 Sep 29 03:32 4039 Oct 01 18:33 4039 Oct 21 17:26 4039 Oct 27 03:50 4039 Nov 03 13:55 4039 Nov 10 00:16 4039 Nov 10 03:00 4039 Nov 14 03:20 4039 Nov 15 18:50	16° m 31'16 25° m 38'22 0° Ω 3° Ω 36'59 25° Ω 55'32 0° m 25° m 30'06 0° 🖈 2° 🖈 43'05 0° 🖈 05'41 30° R m 25° m 48'22 23° m 48'53	1°44'07 1.35568 AU 26°27'26 0.66301 AU -1°07'59	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	4040 Aug 21 16:10 4040 Aug 24 19:49 4040 Aug 29 14:09 4040 Sep 05 09:31 4040 Sep 15 00:33 4040 Sep 25 03:14 4040 Oct 03 06:03 4040 Oct 16 14:37 4040 Oct 23 12:06 4040 Oct 27 08:53 4040 Oct 29 12:21 4040 Oct 29 15:59	1° 100037 7° 103827 17° 10406 0° 22 15° 254'13 0° 116'06 9° 110'59 16° 119'36 13° 113'821 9° 115'30 7° 113'327 7° 113'327	1°39'17 1.34065 AU 27°10'25 0.65037 AU -2°09'12
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	4039 Sep 07 13:48 4039 Sep 12 02:05 4039 Sep 14 07:46 4039 Sep 16 05:25 4039 Sep 29 03:32 4039 Oct 01 18:33 4039 Oct 21 17:26 4039 Oct 27 03:50 4039 Nov 03 13:55 4039 Nov 10 00:16 4039 Nov 10 03:00 4039 Nov 14 03:20 4039 Nov 15 18:50 4039 Nov 15 20:41	16° m 31'16 25° m 38'22 0° a 3° a 36'59 25° a 55'32 0° m 25° m 30'06 0° x 2° x 43'05 0° x 05'41 30° R m 25° m 48'22 23° m 48'53 23° m 43'16	1°44'07 1.35568 AU 26°27'26 0.66301 AU -1°07'59	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	4040 Aug 21 16:10 4040 Aug 24 19:49 4040 Aug 29 14:09 4040 Sep 05 09:31 4040 Sep 15 00:33 4040 Sep 25 03:14 4040 Oct 03 06:03 4040 Oct 16 14:37 4040 Oct 23 12:06 4040 Oct 27 08:53 4040 Oct 29 12:21 4040 Oct 29 15:59 4040 Nov 04 20:53	1° 100037 7° 103827 17° 103827 17° 10406 0° 22 15° 254'13 0° 110936 13° 1138'21 9° 1156'30 7° 1133'27 7° 1123'17 2° 1100'40	1°39'17 1.34065 AU 27°10'25 0.65037 AU -2°09'12
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minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	4039 Sep 07 13:48 4039 Sep 12 02:05 4039 Sep 14 07:46 4039 Sep 16 05:25 4039 Sep 29 03:32 4039 Oct 01 18:33 4039 Oct 21 17:26 4039 Nov 03 13:55 4039 Nov 10 00:16 4039 Nov 10 03:00 4039 Nov 14 03:20 4039 Nov 15 18:50 4039 Nov 15 20:41 4039 Nov 19 02:35 4039 Nov 21 17:44 4039 Nov 21 17:44 4039 Nov 24 17:19 4039 Dec 01 09:14 4039 Dec 08 13:29 4039 Dec 21 20:50 4039 Dec 26 02:48 4039 Dec 27 16:53	16° M 31'16 25° M 38'22 0° A 3° A 36'59 25° A 55'32 0° M 25° M 30'06 0° X 2° X 43'05 0° X 05'41 30° R M 25° M 48'22 23° M 48'53 23° M 43'16 20° M 05'19 18° M 03'01 17° M 12'49 20° X 44'51 27° X 29'24 0° S 16° S 00'51 15° S 26'46	1°44'07 1.35568 AU 26°27'26 0.66301 AU -1°07'59 1°07'12 18°34'32	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	4040 Aug 21 16:10 4040 Aug 24 19:49 4040 Aug 29 14:09 4040 Sep 05 09:31 4040 Sep 15 00:33 4040 Sep 25 03:14 4040 Oct 03 06:03 4040 Oct 16 14:37 4040 Oct 23 12:06 4040 Oct 27 08:53 4040 Oct 29 12:21 4040 Oct 29 12:21 4040 Oct 29 15:59 4040 Nov 04 20:53 4040 Nov 04 23:38 4040 Nov 07 12:49 4040 Nov 14 00:26 4040 Nov 30 21:41 4040 Dec 01 23:31 4040 Dec 11 23:49 4040 Dec 16 04:05 4040 Dec 16 00:33	1° 10 00 37 7° 10 38 27 17° 10 16 06 0° Ω 15° Ω 54 13 0° 11 0° 11 19 36 13° 11 38 21 9° 11 56 30 7° 11 32 17 2° 11 00 40 1° 11 57 32 1° 11 22 56 4° 11 50 44 0° 🗷 1° 🗷 47 07 18° 🗷 10 49 24° 🗷 52 09 24° 🗷 38 04 0° 🛪 0° 🛪 36 49	1°39'17 1.34065 AU 27°10'25 0.65037 AU -2°09'12 2°07'47 18°03'52
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj	4039 Sep 07 13:48 4039 Sep 12 02:05 4039 Sep 14 07:46 4039 Sep 16 05:25 4039 Sep 29 03:32 4039 Oct 01 18:33 4039 Oct 21 17:26 4039 Nov 03 13:55 4039 Nov 10 00:16 4039 Nov 10 03:00 4039 Nov 15 18:50 4039 Nov 15 20:41 4039 Nov 15 20:41 4039 Nov 19 02:35 4039 Nov 24 17:19 4039 Nov 24 17:19 4039 Dec 01 09:14 4039 Dec 01 09:14 4039 Dec 01 09:14 4039 Dec 21 20:50 4039 Dec 27 16:53 4040 Jan 06 21:13 4040 Jan 06 23:44	16° M 31'16 25° M 38'22 0° A 3° A 36'59 25° A 55'32 0° M 25° M 30'06 0° X 2° X 43'05 0° X 05'41 30° R M 25° M 48'53 23° M 48'53 23° M 48'53 23° M 16'249 20° M 51'44 0° X 20° X 44'51 27° X 29'24 0° B 16° B 00'51 15° B 26'46 16° B 10'45	1°44'07 1.35568 AU 26°27'26 0.66301 AU -1°07'59 1°07'12 18°34'32	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong	4040 Aug 21 16:10 4040 Aug 24 19:49 4040 Aug 29 14:09 4040 Sep 05 09:31 4040 Sep 15 00:33 4040 Sep 25 03:14 4040 Oct 03 06:03 4040 Oct 16 14:37 4040 Oct 23 12:06 4040 Oct 29 12:21 4040 Oct 29 15:59 4040 Nov 04 20:53 4040 Nov 04 20:53 4040 Nov 04 23:38 4040 Nov 04 20:53 4040 Nov 14 00:26 4040 Nov 14 00:26 4040 Nov 30 21:41 4040 Dec 11 23:49 4040 Dec 16 04:05 4040 Dec 16 00:33 4040 Dec 19 09:50 4040 Dec 19 19:11 4041 Jan 01 11:59	1° ሺ00'37 7° ሺ38'27 17° ሺ16'06 0° Ω 15° Ω54'13 0° ሺ 9° ሺ01'59 16° ሺ19'36 13° ሺ38'21 9° ሺ56'30 7° ሺ33'27 7° ሺ23'17 2° ሺ00'40 1° ሺ57'32 1° ሺ22'56 4° ሺ50'44 0° ズ 1° ズ⁴47'07 18° ズ¹10'49 24° ズ⁵52'09 24° ズ³38'04 0° 줍36'49 20° 줍336'49 20° 줍336'49	1°39'17 1.34065 AU 27°10'25 0.65037 AU -2°09'12 2°07'47 18°03'52
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	4039 Sep 07 13:48 4039 Sep 12 02:05 4039 Sep 14 07:46 4039 Sep 16 05:25 4039 Sep 29 03:32 4039 Oct 01 18:33 4039 Oct 21 17:26 4039 Nov 10 00:16 4039 Nov 10 00:16 4039 Nov 10 03:00 4039 Nov 15 18:50 4039 Nov 15 20:41 4039 Nov 15 20:41 4039 Nov 19 02:35 4039 Nov 24 17:19 4039 Nov 24 17:19 4039 Dec 01 09:14 4039 Dec 01 09:14 4039 Dec 01 09:14 4039 Dec 21 20:50 4039 Dec 27 16:53 4040 Jan 06 21:13 4040 Jan 06 23:44 4040 Jan 06 23:44 4040 Jan 15 18:47	16° ™ 31'16 25° ™ 38'22 0° ♀ 3° ♀ 36'59 25° ♀ 55'32 0° ™ 25° ™ 30'06 0° Ґ 2° Ґ 43'05 0° Ґ 05'41 30° ℝ ™ 25° ™ 48'53 23° ™ 48'53 23° ™ 48'53 23° ™ 48'51 20° ™ 05'19 18° ™ 03'01 17° ™ 12'49 20° Ґ 34'4'51 27° Ґ 29'24 0° ♂	1°44'07 1.35568 AU 26°27'26 0.66301 AU -1°07'59 1°07'12 18°34'32	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	4040 Aug 21 16:10 4040 Aug 24 19:49 4040 Aug 29 14:09 4040 Sep 05 09:31 4040 Sep 15 00:33 4040 Sep 25 03:14 4040 Oct 03 06:03 4040 Oct 16 14:37 4040 Oct 23 12:06 4040 Oct 29 12:21 4040 Oct 29 15:59 4040 Nov 04 20:53 4040 Nov 04 23:38 4040 Nov 04 23:38 4040 Nov 14 00:26 4040 Nov 14 00:26 4040 Nov 12 23:31 4040 Dec 16 04:05 4040 Dec 16 00:33 4040 Dec 19 09:50 4040 Dec 19 19:11 4041 Jan 01 11:59 4041 Jan 07 17:33	1° № 00'37 7° № 38'27 17° № 16'06 0° ₽ 15° ₽54'13 0° № 9° № 01'59 16° № 19'36 13° № 38'21 9° № 56'30 7° № 23'17 2° № 00'40 1° № 57'32 1° № 22'56 4° № 50'44 0° ♂ 1° ¾ 47'07 18° ¾ 10'49 24° ¾ 38'04 0° ♂ 38'04 0° ♂ 38'04 0° ♂ 38'6'49 20° ♂ 23'56 0° ≈	1°39'17 1.34065 AU 27°10'25 0.65037 AU -2°09'12 2°07'47 18°03'52 -0°28'25 0°27'55 1.45047 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	4039 Sep 07 13:48 4039 Sep 12 02:05 4039 Sep 14 07:46 4039 Sep 16 05:25 4039 Sep 29 03:32 4039 Oct 01 18:33 4039 Oct 21 17:26 4039 Nov 03 13:55 4039 Nov 10 00:16 4039 Nov 10 00:16 4039 Nov 14 03:20 4039 Nov 15 18:50 4039 Nov 15 20:41 4039 Nov 19 02:35 4039 Nov 21 17:44 4039 Nov 24 17:19 4039 Dec 01 09:14 4039 Dec 01 09:14 4039 Dec 01 09:14 4039 Dec 21 20:50 4039 Dec 21 20:50 4039 Dec 27 16:53 4040 Jan 06 21:13 4040 Jan 06 23:44 4040 Jan 06 23:44 4040 Jan 15 18:47 4040 Jan 22 16:20	16° ™ 31'16 25° ™ 38'22 0° ♀ 3° ♀ 36'59 25° ♀ 55'32 0° ™ 25° ™ 30'06 0° ♐ 2° ☒ 43'05 0° ☒ 05'41 30° № № 25° ™ 48'53 23° ™ 48'53 23° ™ 48'53 23° ™ 48'51 20° ™ 05'19 18° ™ 03'01 17° ™ 12'49 20° ☒ 44'51 27° ☒ 29'24 0° ☒ 16° ☒ 00'51 15° ☒ 26'46 16° ☒ 10'45 0° ≈ 10° ≈ 55'39	1°44'07 1.35568 AU 26°27'26 0.66301 AU -1°07'59 1°07'12 18°34'32 -1°14'54 1°13'54 1.45249 AU	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	4040 Aug 21 16:10 4040 Aug 24 19:49 4040 Aug 29 14:09 4040 Sep 05 09:31 4040 Sep 15 00:33 4040 Sep 25 03:14 4040 Oct 03 06:03 4040 Oct 16 14:37 4040 Oct 23 12:06 4040 Oct 29 12:21 4040 Oct 29 12:21 4040 Oct 29 15:59 4040 Nov 04 20:53 4040 Nov 04 20:53 4040 Nov 04 23:38 4040 Nov 14 00:26 4040 Nov 12 23:31 4040 Dec 10 23:31 4040 Dec 11 23:49 4040 Dec 16 00:33 4040 Dec 19 09:50 4040 Dec 19 19:11 4041 Jan 01 11:59 4041 Jan 07 17:33 4041 Jan 15 00:30	1° 10 00 37 7° 10 38 27 17° 10 16 06 0° Ω 15° Ω 54 13 0° 11 0° 11 19 36 13° 11 38 21 9° 11 56 30 7° 11 33 27 7° 11 2° 11 00 40 1° 11 57 32 1° 11 22 56 4° 11 50 44 0° 11 18° 11 049 24° 11 38 104 0° 15 36 49 20° 15 23 56 0° 11 ≈ 03 16	1°39'17 1.34065 AU 27°10'25 0.65037 AU -2°09'12 2°07'47 18°03'52 -0°28'25 0°27'55 1.45047 AU -0.7m
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist.	4039 Sep 07 13:48 4039 Sep 12 02:05 4039 Sep 14 07:46 4039 Sep 16 05:25 4039 Sep 29 03:32 4039 Oct 01 18:33 4039 Oct 21 17:26 4039 Oct 27 03:50 4039 Nov 10 00:16 4039 Nov 10 00:16 4039 Nov 10 03:00 4039 Nov 15 18:50 4039 Nov 15 20:41 4039 Nov 15 20:41 4039 Nov 24 17:19 4039 Nov 24 17:19 4039 Dec 01 09:14 4039 Dec 01 09:14 4039 Dec 01 09:14 4039 Dec 21 20:50 4039 Dec 21 20:50 4039 Dec 26 02:48 4039 Dec 27 16:53 4040 Jan 06 21:13 4040 Jan 06 23:44 4040 Jan 06 23:44 4040 Jan 15 18:47 4040 Jan 22 16:20 4040 Jan 31 10:47	16° ™ 31'16 25° ™ 38'22 0° ♀ 3° ♀ 36'59 25° ♀ 55'32 0° ™ 25° ™ 30'06 0° ♐ 2° ☒ 43'05 0° ☒ 05'41 30° ℝ ™ 25° ™ 48'22 23° ™ 48'53 23° ™ 43'16 20° ™ 05'19 18° ™ 03'01 17° ™ 12'49 20° Ӂ 14'4 0° ☒ 20° ☒ 44'51 27° ☒ 29'24 0° ☒ 16° ☒ 00'51 15° ☒ 26'46 16° ☒ 10'45 0° ※ 10° ※ 55'39 24° ※ 51'44	1°44'07 1.35568 AU 26°27'26 0.66301 AU -1°07'59 1°07'12 18°34'32	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	4040 Aug 21 16:10 4040 Aug 24 19:49 4040 Aug 29 14:09 4040 Sep 05 09:31 4040 Sep 15 00:33 4040 Sep 25 03:14 4040 Oct 03 06:03 4040 Oct 16 14:37 4040 Oct 23 12:06 4040 Oct 29 12:21 4040 Oct 29 12:21 4040 Oct 29 15:59 4040 Nov 04 20:53 4040 Nov 04 20:53 4040 Nov 04 23:38 4040 Nov 04 12:49 4040 Nov 14 00:26 4040 Nov 15 23:31 4040 Dec 16 00:33 4040 Dec 16 00:33 4040 Dec 19 09:50 4040 Dec 19 19:11 4041 Jan 01 11:59 4041 Jan 07 17:33 4041 Jan 15 00:30 4041 Jan 26 22:30	1° №0037 7° №38'27 17° №16'06 0° ₽ 15° ₽54'13 0° № 9° №01'59 16° №19'36 13° №38'21 9° №56'30 7° №33'27 7° №23'17 2° №00'40 1° №57'32 1° №2'56 4° №50'44 0° ጾ 1° ጾ 47'07 18° ጾ 10'49 24° ጾ 38'04 0° ℧ 36'49 20° ℧ 23'56 0° ≈ 11° ≈03'16 26° ≈53'01	1°39'17 1.34065 AU 27°10'25 0.65037 AU -2°09'12 2°07'47 18°03'52 -0°28'25 0°27'55 1.45047 AU
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	4039 Sep 07 13:48 4039 Sep 12 02:05 4039 Sep 14 07:46 4039 Sep 16 05:25 4039 Sep 29 03:32 4039 Oct 01 18:33 4039 Oct 21 17:26 4039 Oct 27 03:50 4039 Nov 03 13:55 4039 Nov 10 00:16 4039 Nov 10 03:00 4039 Nov 15 18:50 4039 Nov 15 20:41 4039 Nov 15 20:41 4039 Nov 19 02:35 4039 Nov 21 17:44 4039 Nov 24 17:19 4039 Dec 01 09:14 4039 Dec 01 09:14 4039 Dec 01 09:14 4039 Dec 21 20:50 4039 Dec 21 20:50 4039 Dec 27 16:53 4040 Jan 06 21:13 4040 Jan 06 23:44 4040 Jan 06 23:44 4040 Jan 15 18:47 4040 Jan 31 10:47 4040 Feb 03 18:01	16° ™ 31'16 25° ™ 38'22 0° ♀ 3° ♀ 36'59 25° ♀ 55'32 0° ™ 25° ™ 30'06 0° ♐ 2° ☒ 43'05 0° ☒ 05'41 30° ℝ ™ 25° ™ 48'22 23° ™ 48'53 23° ™ 48'53 23° ™ 42'16 20° ™ 05'19 18° ™ 03'01 17° ™ 12'49 20° ☒ 44'51 27° ☒ 29'24 0° ☒ 16° ♂ 00'51 15° ♂ 26'46 16° ♂ 10'45 0° ≈ 10° ≈ 55'39 24° ≈ 51'44 0° ₭	1°44'07 1.35568 AU 26°27'26 0.66301 AU -1°07'59 1°07'12 18°34'32 -1°14'54 1°13'54 1.45249 AU -0.8m	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise greatest brilliancy evening max el	4040 Aug 21 16:10 4040 Aug 24 19:49 4040 Aug 29 14:09 4040 Sep 05 09:31 4040 Sep 15 00:33 4040 Sep 25 03:14 4040 Oct 03 06:03 4040 Oct 16 14:37 4040 Oct 23 12:06 4040 Oct 29 12:21 4040 Oct 29 12:21 4040 Oct 29 15:59 4040 Nov 04 20:53 4040 Nov 04 23:38 4040 Nov 04 23:38 4040 Nov 14 00:26 4040 Nov 14 00:26 4040 Nov 12 23:31 4040 Dec 11 23:49 4040 Dec 16 04:05 4040 Dec 16 00:33 4040 Dec 19 09:50 4040 Dec 19 19:11 4041 Jan 01 11:59 4041 Jan 07 17:33 4041 Jan 15 00:30 4041 Jan 26 22:30 4041 Jan 30 15:55	1° №0037 7° №38'27 17° №16'06 0° ₽ 15° ₽54'13 0° № 9° №01'59 16° №19'36 13° №38'21 9° №56'30 7° №33'27 7° №23'17 2° №00'40 1° №57'32 1° №22'56 4° №50'44 0° ₹ 1° ₹47'07 18° ₹10'49 24° ₹32'09 24° ₹38'04 0° ₹ 0° ₹36'49 20° ₹336'49 20° ₹336'49 20° ₹336'40 20° ₹36'49	1°39'17 1.34065 AU 27°10'25 0.65037 AU -2°09'12 2°07'47 18°03'52 -0°28'25 0°27'55 1.45047 AU -0.7m
minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	4039 Sep 07 13:48 4039 Sep 12 02:05 4039 Sep 14 07:46 4039 Sep 16 05:25 4039 Sep 29 03:32 4039 Oct 01 18:33 4039 Oct 21 17:26 4039 Oct 27 03:50 4039 Nov 10 00:16 4039 Nov 10 00:16 4039 Nov 10 03:00 4039 Nov 15 18:50 4039 Nov 15 20:41 4039 Nov 15 20:41 4039 Nov 24 17:19 4039 Nov 24 17:19 4039 Dec 01 09:14 4039 Dec 01 09:14 4039 Dec 01 09:14 4039 Dec 21 20:50 4039 Dec 21 20:50 4039 Dec 26 02:48 4039 Dec 27 16:53 4040 Jan 06 21:13 4040 Jan 06 23:44 4040 Jan 06 23:44 4040 Jan 15 18:47 4040 Jan 22 16:20 4040 Jan 31 10:47	16° ™ 31'16 25° ™ 38'22 0° ♀ 3° ♀ 36'59 25° ♀ 55'32 0° ™ 25° ™ 30'06 0° ♐ 2° ☒ 43'05 0° ☒ 05'41 30° ℝ ™ 25° ™ 48'22 23° ™ 48'53 23° ™ 43'16 20° ™ 05'19 18° ™ 03'01 17° ™ 12'49 20° Ӂ 14'4 0° ☒ 20° ☒ 44'51 27° ☒ 29'24 0° ☒ 16° ☒ 00'51 15° ☒ 26'46 16° ☒ 10'45 0° ※ 10° ※ 55'39 24° ※ 51'44	1°44'07 1.35568 AU 26°27'26 0.66301 AU -1°07'59 1°07'12 18°34'32 -1°14'54 1°13'54 1.45249 AU -0.8m	minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise asc. node direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	4040 Aug 21 16:10 4040 Aug 24 19:49 4040 Aug 29 14:09 4040 Sep 05 09:31 4040 Sep 15 00:33 4040 Sep 25 03:14 4040 Oct 03 06:03 4040 Oct 16 14:37 4040 Oct 23 12:06 4040 Oct 29 12:21 4040 Oct 29 12:21 4040 Oct 29 15:59 4040 Nov 04 20:53 4040 Nov 04 20:53 4040 Nov 04 23:38 4040 Nov 04 12:49 4040 Nov 14 00:26 4040 Nov 15 23:31 4040 Dec 16 00:33 4040 Dec 16 00:33 4040 Dec 19 09:50 4040 Dec 19 19:11 4041 Jan 01 11:59 4041 Jan 07 17:33 4041 Jan 15 00:30 4041 Jan 26 22:30	1° №0037 7° №38'27 17° №16'06 0° ₽ 15° ₽54'13 0° № 9° №01'59 16° №19'36 13° №38'21 9° №56'30 7° №33'27 7° №23'17 2° №00'40 1° №57'32 1° №2'56 4° №50'44 0° ጾ 1° ጾ 47'07 18° ጾ 10'49 24° ጾ 38'04 0° ℧ 36'49 20° ℧ 23'56 0° ≈ 11° ≈03'16 26° ≈53'01	1°39'17 1.34065 AU 27°10'25 0.65037 AU -2°09'12 2°07'47 18°03'52 -0°28'25 0°27'55 1.45047 AU -0.7m

	4041 Feb 06 21:32	30° R ≈		inferior conj	4042 Jan 27 16:12	7° ≈ 38'09	2°38'30
evening set	4041 Feb 07 00:22	29° ≈ 55'04		minimum elong	4042 Jan 27 13:43	7° ≈ 46'41	2°37'49
inferior conj	4041 Feb 12 10:52	23°≈56'06	3°08'49	min. Earth dist.	4042 Jan 28 03:54	6° ≈ 57'59	0.67634 AU
minimum elong	4041 Feb 12 08:40	24°≈03'25	3°08'23	morning rise	4042 Feb 01 19:37	1° ≈ 24'57	
min. Earth dist.	4041 Feb 13 11:42	22° ≈ 33'39	0.66895 AU	-	4042 Feb 03 17:42	30°Ŗ⋜	
morning rise	4041 Feb 17 16:44	17° ≈ 42'13		direct	4042 Feb 07 05:55	29° පි 01'09	
direct	4041 Feb 23 17:18	15° ≈ 00'54			4042 Feb 11 01:44	0° ≈	
morning max el	4041 Mar 07 19:00	22° ≈ 13′00	25°25'28	morning max el	4042 Feb 18 03:36	5° ≈ 31'13	23°59'02
desc. node	4041 Mar 09 23:03	24° ≈ 30′35		desc. node	4042 Feb 24 20:04	13° ≈ 10′01	
	4041 Mar 14 14:44	0°) €			4042 Mar 09 01:22	0°) €	
	4041 Apr 04 03:10	0 ° $\mathbf{\Upsilon}$		morning set	4042 Mar 25 18:35	26°) 41′42	
morning set	4041 Apr 13 00:17	15° Ƴ 20'24			4042 Mar 27 16:17	0 ° Υ	
max. Earth dist.	4041 Apr 16 17:04	22° Y 10'27	1.36252 AU	max. Earth dist.	4042 Mar 29 13:19	3° Ƴ 18'58	1.38318 AU
	4041 Apr 20 18:46	9° 8					
				superior conj	4042 Apr 05 18:40	16° Ƴ 37'19	-1°36'03
superior conj	4041 Apr 22 16:02	3° 8 43'30	-1°09'32	minimum elong	4042 Apr 05 23:22	16° Ƴ 59'40	1°35'29
minimum elong	4041 Apr 22 19:44	4° 8 01'57	1°08'54		4042 Apr 12 16:03	0°B	
asc. node	4041 Apr 29 22:12	18° 8 25'43		evening rise	4042 Apr 14 17:49	4° 8 04'35	
evening rise	4041 Apr 30 19:28	20° 8 13'39		asc. node	4042 Apr 16 19:14	8° 8 05'38	
	4041 May 05 18:19	$\Pi^{\circ}0$			4042 Apr 30 12:08	Π $^{\circ}0$	
evening max el	4041 May 18 07:38	18° Ⅱ 42'31	19°50'25	evening max el	4042 May 01 04:38	0° Ⅱ 41'42	18°55'54
retrograde	4041 May 28 09:00	23° Ⅲ 36′22		retrograde	4042 May 09 16:01	4° Ⅱ 50'14	
evening set	4041 May 30 07:51	23° Ⅲ 26′06		evening set	4042 May 11 18:38	4° Ⅲ 35'52	
desc. node	4041 Jun 05 22:15	20° Ⅱ 46'50		inferior conj	4042 May 19 20:49	0° Ⅱ 19'12	1°07'23
inferior conj	4041 Jun 08 05:08	19° Ⅱ 24'47	-0°40'41	minimum elong	4042 May 19 23:19	0° Ⅱ 14'45	1°06'31
minimum elong	4041 Jun 08 03:16	19° Ⅱ 27'39	0°39'59		4042 May 20 07:36	30° ₹ 8	
min. Earth dist.	4041 Jun 10 08:15	18° Ⅱ 06'37	0.55405 AU	min. Earth dist.	4042 May 23 00:03	28° 8 06'34	0.56827 AU
morning rise	4041 Jun 16 20:36	14° Ⅱ 58'19		desc. node	4042 May 23 19:17	27° 8 34'33	
direct	4041 Jun 21 03:58	14° Ⅱ 17'31		morning rise	4042 May 28 00:46	25° 8 16'45	
morning max el	4041 Jul 05 00:16	21° Ⅱ 09'38	24°22'02	direct	4042 Jun 02 07:21	24° 8 10'20	
	4041 Jul 12 15:43	0°ಅ			4042 Jun 14 21:20	$\Pi^{\circ}0$	
asc. node	4041 Jul 26 21:26	24°9512'57		morning max el	4042 Jun 16 15:00	1° Ⅲ 35'34	25°57'30
	4041 Jul 29 16:44	$0^{\circ}\Omega$			4042 Jul 06 15:37	0 \circ \odot	
morning set	4041 Jul 30 02:48	0° £ 53′03		asc. node	4042 Jul 13 18:28	14° © 01'35	
				morning set	4042 Jul 14 14:03	15° © 44'31	
superior conj	4041 Aug 06 01:58	15° Ω 57'22	1°28'53		4042 Jul 21 03:28	$0^{\circ}\Omega$	
minimum elong	4041 Aug 05 23:49	15° Ω 45'45	1°28'39				
max. Earth dist.	4041 Aug 07 22:19	19° Ω 57'21	1.32966 AU	superior conj	4042 Jul 21 12:57	0° Ω 52'07	1°13'31
	4041 Aug 12 16:48	0° m p		minimum elong	4042 Jul 21 10:36	0° Ω 39'15	1°13'08
evening rise	4041 Aug 13 09:40	1° ™ 26'02		max. Earth dist.	4042 Jul 22 07:01	2° Ω 31′28	1.32285 AU
	4041 Aug 29 07:31	0∘ ত		evening rise	4042 Jul 28 12:44	15° Ω 56′30	
desc. node	4041 Sep 01 21:33	5° £ 23'25			4042 Aug 04 15:38	0° m ⁄	
evening max el	4041 Sep 15 17:07	22° ≏ 12'14	27°26'45	desc. node	4042 Aug 19 18:35	24° Mp 10'06	
retrograde	4041 Sep 29 09:00	29° ≏ 28'34			4042 Aug 24 11:07	0∘ ⊽	
evening set	4041 Oct 06 13:05	26° ♀ 52'46		evening max el	4042 Aug 29 00:02	4° ≏ 46'12	27°11'23
min. Earth dist.	4041 Oct 10 04:58	23° ≏ 43'36	0.63435 AU	retrograde	4042 Sep 11 20:24	11° ≏ 59'32	
inferior conj	4041 Oct 12 20:36	21° ≏ 04'17	-3°10'16	evening set	4042 Sep 18 23:22	9° ≏ 41'10	
minimum elong	4041 Oct 13 01:51	20° ≙ 51'07	3°08'30	min. Earth dist.	4042 Sep 22 14:24	6° ≏ 56'31	0.61536 AU
morning rise	4041 Oct 19 16:01	15° ≙ 48'11		inferior conj	4042 Sep 25 16:25	4° ≙ 12'32	-4°06'48
direct	4041 Oct 22 02:53	15° ≏ 19'14		minimum elong	4042 Sep 25 22:23	3° ჲ 59'15	4°05'17
asc. node	4041 Oct 22 20:39	15° ≏ 21'56			4042 Oct 01 06:28	30°₽,₩	
morning max el	4041 Oct 28 17:07	18° ≏ 44'30	17°50'38	morning rise	4042 Oct 02 23:13	29° m 16'30	
	4041 Nov 05 22:24	0° M .		direct	4042 Oct 05 07:46	28° m 53'18	
morning set	4041 Nov 14 03:56	14°M04'13			4042 Oct 09 05:45	0∘ ⊽	
	4041 Nov 23 10:54	0° ∡ ¹		asc. node	4042 Oct 09 17:41	0° ≏ 17'56	
				morning max el	4042 Oct 12 08:06	2° ₽ 24'29	17°55'48
superior conj	4041 Nov 26 08:01	4° ∡ ¹47'34	0°17'33	morning set	4042 Oct 28 03:33	27° ≏ 15'37	
minimum elong	4041 Nov 26 09:50	4° ₹ 755'06	0°17'18		4042 Oct 29 15:33	0° M	
desc. node	4041 Nov 28 20:50	8° ₹ 57'04					
max. Earth dist.	4041 Dec 02 13:05	14° ₹ 53'14	1.44134 AU	superior conj	4042 Nov 07 14:43	16°M01'28	0°55'00
evening rise	4041 Dec 11 21:40	29° х 34′01		minimum elong	4042 Nov 07 18:47	16° ™ 19'05	0°54'27
	4041 Dec 12 04:25	0°ರ		max. Earth dist.	4042 Nov 15 02:24	28°M40'55	1.42615 AU
	4042 Jan 01 12:08	0° ≈		desc. node	4042 Nov 15 17:51	29°M44'23	
evening max el	4042 Jan 09 23:20	10° ≈ 25'34	20°50'21		4042 Nov 15 21:40	0° ∡ 7	
retrograde	4042 Jan 18 07:22	15° ≈ 21′09		evening rise	4042 Nov 21 13:23	9° ₰ 04'51	
asc. node	4042 Jan 18 19:56	15° ≈ 19'39			4042 Dec 05 08:45	ರ∘8	
evening set	4042 Jan 22 07:40	13° ≈ 49'15		evening max el	4042 Dec 23 18:40	23° る 59'16	22°04'29

	4042 I 02 04.14	200=224152		4-	4042 D 22 12.50	100=00106	
retrograde	4043 Jan 02 04:14	29° る 34'52		asc. node	4043 Dec 23 13:59	10° පි 08'06	
asc. node	4043 Jan 05 16:57	28° පි 28'11		inferior conj	4043 Dec 27 07:29	5° る 21'14	
evening set	4043 Jan 06 15:22	27° る 47'21		minimum elong	4043 Dec 27 05:51	5° る 26'50	1°13'41
inferior conj	4043 Jan 11 23:42	21° る 27'30	1°59'56	min. Earth dist.	4043 Dec 26 20:26	5°る59'08	0.67958 AU
minimum elong	4043 Jan 11 21:25	21° る 35'24	1°59'09		4043 Dec 31 16:45	30°₽ ⋌ ¹	
min. Earth dist.	4043 Jan 11 23:36	21° る 27'50	0.67978 AU	morning rise	4044 Jan 01 13:46	29° ₹ 14'16	
morning rise	4043 Jan 17 03:21	15° る 16'30		direct	4044 Jan 05 18:59	27° ∡ ³35′02	
direct	4043 Jan 21 22:47	13° る 1030		direct	4044 Jan 11 11:26	0°る	
			22020114				21007121
morning max el	4043 Jan 31 14:12	18° る 55'53	22°30'14	morning max el	4044 Jan 14 06:09	2° る 29'24	21°07'21
	4043 Feb 09 20:24	0° ≈		desc. node	4044 Jan 29 14:08	22° る 20'40	
desc. node	4043 Feb 11 17:06	2° ≈ 30'39			4044 Feb 03 18:45	0° ≈	
	4043 Mar 02 05:26	0° ∀		morning set	4044 Feb 13 20:52	15° ≈ 27'58	
morning set	4043 Mar 06 09:49	6°) 44'10		max. Earth dist.	4044 Feb 21 11:35	27° ≈ 39'24	1.42509 AU
max. Earth dist.	4043 Mar 11 09:30	15°) €02'32	1.40495 AU		4044 Feb 22 21:50	0° ∀	
superior conj	4043 Mar 19 04:33	28°) 40'51	-1°56'52	superior conj	4044 Feb 28 16:35	9°) 41′53	-2°07'20
						9°) (46'18	
minimum elong	4043 Mar 19 08:46	28°) 59'50	1-3033	minimum elong	4044 Feb 28 17:37		2-0/19
	4043 Mar 19 22:04	0° Υ		evening rise	4044 Mar 11 04:28	29° ¥ 57′26	
evening rise	4043 Mar 29 06:09	17° Y 22'30			4044 Mar 11 05:02	0 ° $\mathbf{\Upsilon}$	
asc. node	4043 Apr 03 16:16	27° Y 26'38		asc. node	4044 Mar 20 13:19	16° Ƴ 21'28	
	4043 Apr 05 02:48	9° 8		evening max el	4044 Mar 27 21:09	26° Y 15′15	18°07'25
evening max el	4043 Apr 14 10:18	13° 8 16'02	18°21'45	retrograde	4044 Apr 03 12:45	29° Ƴ 39'01	
retrograde	4043 Apr 21 18:00	16° 8 54'06	10 21 10	evening set	4044 Apr 06 04:25	29° Υ 06'44	
C	•	16° 8 31'59		-		24° Υ 09'43	2012127
evening set	4043 Apr 24 03:13		2025140	inferior conj	4044 Apr 12 19:09		3°12'37
inferior conj	4043 May 01 10:04	11° 8 55'35		minimum elong	4044 Apr 12 21:46	24° Y 03′24	3°12'12
minimum elong	4043 May 01 13:44	11° 8 47'57	2°24'42	min. Earth dist.	4044 Apr 16 00:01	21° Y 06′18	0.61001 AU
min. Earth dist.	4043 May 04 20:40	9° 8 05'15	0.58810 AU	morning rise	4044 Apr 19 13:07	18° Ƴ 16′00	
morning rise	4043 May 08 21:16	6° 8 22'10		direct	4044 Apr 26 06:31	16° Ƴ 01'01	
desc. node	4043 May 10 16:18	5° 8 32'11		desc. node	4044 Apr 26 13:21	16° Ƴ 01'15	
direct	4043 May 15 01:08	4° 8 41'08		morning max el	4044 May 10 12:19	23° Y 57'12	27°47'04
	4043 May 29 10:35	12° 8 27'00	27°09'19	morning max cr	4044 May 15 23:06	0°8	21 47 04
morning max el	•		27 09 19		•		
	4043 Jun 12 05:48	0°Щ			4044 Jun 04 12:15	0°II	
morning set	4043 Jun 28 23:10	0° © 27'55		morning set	4044 Jun 12 04:19	14° Ⅱ 56'52	
	4043 Jun 28 17:49	0		asc. node	4044 Jun 16 12:34	24° Ⅱ 07'39	
asc. node	4043 Jun 30 15:31	4° © 01'33		max. Earth dist.	4044 Jun 18 05:00	27° Ⅱ 47'06	1.32159 AU
superior conj	4043 Jul 06 00:46	15°5946'45	0°53'54	superior conj	4044 Jun 19 11:41	0°934'59	0°30'40
minimum elong	4043 Jul 05 22:42	15° © 35'22	0°53'30	minimum elong	4044 Jun 19 10:20	0°\$27'37	0°30'23
max. Earth dist.	4043 Jul 05 18:28	15°S12'00	1.32018 AU	minimum ciong	4044 Jun 19 05:18	0°95	0 30 23
			1.52016 AU				
evening rise	4043 Jul 12 20:50	0° £ 39'53		evening rise	4044 Jun 26 07:46	15°528'52	
	4043 Jul 12 13:18	$0^{\circ}\Omega$			4044 Jul 03 12:52	$0^{\circ}\Omega$	
	4043 Jul 28 19:33	0° Mp		evening max el	4044 Jul 22 17:45	27° Ω 35'33	25°05'15
desc. node	4043 Aug 06 15:36	11° m 56'53		desc. node	4044 Jul 23 12:37	28° Ω 19'40	
evening max el	4043 Aug 11 00:28	16°Mp34'11	26°22'42		4044 Jul 25 11:34	0° m	
retrograde	4043 Aug 24 23:45	23° Mp 44'07		retrograde	4044 Aug 05 16:43	4°m/39'29	
evening set	4043 Aug 31 14:14	21° m 56'08		evening set	4044 Aug 11 05:23	3° m 29'40	
•	4043 Sep 04 13:46		0.50471 ATT	-	Č		0 57472 ATT
min. Earth dist.	1	19° Mp 21'00	0.59471 AU	min. Earth dist.	4044 Aug 16 05:24		0.57472 AU
inferior conj	4043 Sep 07 20:19	16° m 49'09			4044 Aug 17 09:03	30°R Ω	
minimum elong	4043 Sep 08 01:00	16° Mp 40′02	4°50'27	inferior conj	4044 Aug 19 05:08	28° Ω 45'22	
morning rise	4043 Sep 15 13:57	12° Mp 15'34		minimum elong	4044 Aug 19 05:32	28° Ω 44'42	5°11'04
direct	4043 Sep 17 23:19	11° Mp 55'26		morning rise	4044 Aug 27 08:04	24° Ω 34'00	
morning max el	4043 Sep 25 18:05	15° Mp 41'53	18°20'35	direct	4044 Aug 29 21:33	24° Ω 14'48	
asc. node	4043 Sep 26 14:43	16° m 33'58		morning max el	4044 Sep 07 19:47	28° Ω 27'12	19°06'27
asc. node	•	0₀ ʊ 10 औ2338		morning max ci			17 0027
	4043 Oct 05 17:49				4044 Sep 09 08:11	0° m	
morning set	4043 Oct 11 16:49	11° ≏ 05'32		asc. node	4044 Sep 12 11:46	3° m 55'14	
				morning set	4044 Sep 24 15:37	25° m 22'52	
superior conj	4043 Oct 20 21:14	28° ≏ 24'29	1°21'23		4044 Sep 26 23:25	0。 ত	
minimum elong	4043 Oct 21 00:57	28° £ 41'35	1°20'59				
J	4043 Oct 21 18:08	0°M₊		superior conj	4044 Oct 02 22:10	11° ≏ 41'42	1°37'10
max. Earth dist.	4043 Oct 28 10:07	11°M46'54	1.40688 AU	minimum elong	4044 Oct 03 00:25	11° ⊆ 52'34	
		19°M28'43	1.4000 AU	max. Earth dist.		24° £ 12'25	1.38600 AU
evening rise	4043 Nov 02 00:06			max. Earui dist.	4044 Oct 09 14:48		1.30000 AU
desc. node	4043 Nov 02 14:53	20°M29'20			4044 Oct 12 21:08	0°M	
	4043 Nov 08 13:51	0° ⊼		evening rise	4044 Oct 13 10:16	0° M 57′08	
	4043 Nov 29 17:12	0°ප		desc. node	4044 Oct 19 11:55	11°M08'21	
evening max el	4043 Dec 06 09:47	7° る 35'52	23°24'04		4044 Oct 31 20:43	0° ∡ ¹	
retrograde	4043 Dec 16 22:19	13° る 49'24		evening max el	4044 Nov 17 22:48	21° х 17'05	24°42'44
		U 1/2T					_ · · - · ·
evening set	4043 Dec 21 21:51	11° る 45'55		retrograde	4044 Nov 29 12:27	28° ₹ '01'14	

evening set	4044 Dec 05 01:35	25° ∡ ¹42'22		evening max el	4045 Oct 31 11:13	4° √ 59'32	25°53'23
asc. node	4044 Dec 09 11:00	23 x 42 22 20° x 45'55		retrograde	4045 Nov 12 21:45	12° x 04'34	23 33 23
			0.67590 AU	-		9° x 32'32	
min. Earth dist.	4044 Dec 09 15:59	20° 🗷 29'31		evening set	4045 Nov 19 00:46		0.66075 ATT
inferior conj	4044 Dec 10 13:45	19° √ 17'15	0°22'46	min. Earth dist.	4045 Nov 23 07:49	4° ⋌ *54'54	0.66875 AU
minimum elong	4044 Dec 10 13:12	19° √ 19'06	0°22'32	inferior conj	4045 Nov 24 16:41	3° √ 11'32	
morning rise	4044 Dec 16 00:56	13° 🖈 16'31		minimum elong	4045 Nov 24 17:35	3° ∡ 08'44	0°33'20
direct	4044 Dec 19 17:14	11° ₹ 58'42		asc. node	4045 Nov 26 08:03	1° ∡ 10′26	
morning max el	4044 Dec 27 05:52	16° ∡ 14'42	19°56'13		4045 Nov 27 08:48	30°RM	
	4045 Jan 07 00:19	0° ろ		morning rise	4045 Nov 30 10:47	27° ™ 19'36	
desc. node	4045 Jan 15 11:11	12° る 32'18		direct	4045 Dec 03 15:56	26° ™ 20'20	
morning set	4045 Jan 22 17:05	23° る 37'10			4045 Dec 10 09:27	0° ∡	
	4045 Jan 26 19:49	0° ≈		morning max el	4045 Dec 10 13:13	0° ∡ °09′21	18°59'47
max. Earth dist.	4045 Feb 02 21:52	11° ≈ 09'57	1.44089 AU		4045 Dec 31 10:22	0° る	
				morning set	4046 Jan 01 23:29	2° る 24'52	
superior conj	4045 Feb 08 03:05	19° ≈ 34'05	-2°02'01	desc. node	4046 Jan 02 08:12	2° る 58'54	
minimum elong	4045 Feb 07 22:18	19° ≈ 14'38	2°01'48	max. Earth dist.	4046 Jan 16 14:13	25° る 17'00	1.45035 AU
	4045 Feb 14 10:50	0° ∀					
evening rise	4045 Feb 21 08:27	11°) 41′43		superior conj	4046 Jan 18 14:20	28° る 26'28	-1°37'15
	4045 Mar 04 06:15	0° Y		minimum elong	4046 Jan 18 05:12	27° る 50'27	1°36'24
asc. node	4045 Mar 07 10:21	4° Ƴ 42'14			4046 Jan 19 14:01	0° ≈	
evening max el	4045 Mar 11 09:56	9° Ƴ 31'08	18°12'12	evening rise	4046 Feb 02 14:16	22° ≈ 29'17	
retrograde	4045 Mar 17 20:03	12° Y 55′18			4046 Feb 07 04:42	0°) €	
evening set	4045 Mar 20 17:39	12° Ƴ 11'35		asc. node	4046 Feb 22 07:22	22°) 18′36	
inferior conj	4045 Mar 26 20:14	6° Ƴ 54'44	3°33'43	evening max el	4046 Feb 22 21:49	22° ¥ 56′27	18°35'28
minimum elong	4045 Mar 26 21:07	6° Y 52′20	3°33'40	retrograde	4046 Mar 01 11:39	26° ¥ 34'01	
min. Earth dist.	4045 Mar 29 12:01	4° Υ ′02'08	0.63093 AU	evening set	4046 Mar 04 15:15	25°) 38′04	
morning rise	4045 Apr 01 23:29	0° Ƴ 49'24		inferior conj	4046 Mar 10 09:18	20°) 03′02	3°35'12
	4045 Apr 03 03:23	30°R) €		minimum elong	4046 Mar 10 08:36	20° X 05'08	3°35'10
direct	4045 Apr 08 20:55	28°) 10'12		min. Earth dist.	4046 Mar 12 09:33	17° ¥ 38'37	0.64879 AU
desc. node	4045 Apr 13 10:23	29°) 11'04		morning rise	4046 Mar 16 01:25	13° ¥ 51'46	0.0.077110
dese. Hode	4045 Apr 15 02:10	0°Υ		direct	4046 Mar 22 18:46	11° X 01'45	
morning max el	4045 Apr 22 19:17	6°Υ08'25	27°47'16	desc. node	4046 Mar 31 07:25	14°) 32'44	
morning max cr	4045 May 10 21:58	0°8	2/ 4/10	morning max el	4046 Apr 05 05:03	18° X 52'58	27012143
marning ast	•	29° 8 04'27		morning max ci	•	16 γ (32 36	27 1243
morning set	4045 May 27 03:17 4045 May 27 14:19	29 O 04 27 0° I I			4046 Apr 14 15:02 4046 May 03 21:15	0°8	
may Earth dist	•	0 П 10°П04'32	1 22722 ATT	mamina aat	•	12° 8 42'24	
max. Earth dist.	4045 Jun 01 10:45		1.32723 AU	morning set	4046 May 10 17:17	_	1 22722 AII
asc. node	4045 Jun 03 09:38	14° Ⅱ 15'39		max. Earth dist.	4046 May 15 07:57	21° 8 54'10	1.33732 AU
	40.45 I 02 10 52	1.50 T 1.0150	000 4120		404634 10 22 24	200	0022140
superior conj	4045 Jun 03 19:53	15° Ⅱ 10'59	0°04'29	superior conj	4046 May 18 23:24	29° 8 28'39	
minimum elong	4045 Jun 03 19:40	15° Ⅱ 09'48	0°04'27	minimum elong	4046 May 19 00:38	29° 8 35'10	0°23'33
behind sun begin	4045 Jun 03 14:36	14° ∏ 42′25			4046 May 19 05:21	0°П	
behind sun end	4045 Jun 04 00:45	15° Ⅲ 37'14		asc. node	4046 May 21 06:41	4° Ⅱ 21'37	
evening rise	4045 Jun 10 19:38	0° © 16'57		evening rise	4046 May 26 06:33	14° Ⅱ 58'03	
	4045 Jun 10 16:26	0° ©			4046 Jun 02 20:50	0°©	
	4045 Jun 27 09:49	0 \circ Ω		evening max el	4046 Jun 15 23:00	18° © 31'52	21°54'55
evening max el	4045 Jul 04 06:48	8° Ω 04'26	23°30'41	desc. node	4046 Jun 27 06:40	24° © 43'04	
desc. node	4045 Jul 10 09:39	12° Ω 46′24		retrograde	4046 Jun 28 14:14	24° © 47'05	
retrograde	4045 Jul 17 21:03	14° Ω 53'03		evening set	4046 Jul 01 06:58	24° © 30'48	
evening set	4045 Jul 21 22:15	14° Ω 17'07		min. Earth dist.	4046 Jul 10 03:08	20° © 43'57	0.54941 AU
min. Earth dist.	4045 Jul 28 16:38	11° Ω 08′30		inferior conj	4046 Jul 10 15:09	20°527'06	-3°40'20
inferior conj	4045 Jul 30 17:50	9° Ω 55'26		minimum elong	4046 Jul 10 06:37	20° © 39'03	3°37'57
minimum elong	4045 Jul 30 12:10	10° Ω 03'54	4°50'06	morning rise	4046 Jul 19 07:49	16° © 35'44	
morning rise	4045 Aug 08 04:30	6° Ω 01'07		direct	4046 Jul 22 12:49	16° © 13'04	
direct	4045 Aug 11 00:39	5° Ω 41'14		morning max el	4046 Aug 03 13:22	21° © 50'43	21°41'34
morning max el	4045 Aug 21 10:25	10° Ω 31'07	20°14'04		4046 Aug 10 12:04	$0^{\circ}\Omega$	
asc. node	4045 Aug 30 08:50	22° Ω 07'03		asc. node	4046 Aug 17 05:54	10° Ω 57'39	
	4045 Sep 03 19:39	O° m y		morning set	4046 Aug 24 05:57	24° Ω 45'57	
morning set	4045 Sep 08 20:46	9° m ,58'27			4046 Aug 26 17:46	0° m y	
superior conj	4045 Sep 16 12:26	25°M 38'12	1°43'49	superior conj	4046 Aug 31 12:04	10° m 02'45	1°42'52
minimum elong	4045 Sep 16 13:01	25° m/41'06	1°43'49	minimum elong	4046 Aug 31 11:14	9° m 58'24	1°42'51
-	4045 Sep 18 16:51	0∘ ⊽		max. Earth dist.	4046 Sep 04 09:33	18° m 03'41	1.34877 AU
max. Earth dist.	4045 Sep 21 21:00	6° £ 10'31	1.36597 AU	evening rise	4046 Sep 08 18:35	26° m/40'38	
evening rise	4045 Sep 25 17:48	13° ≏ 24'25		-	4046 Sep 10 12:42	0∘ <u>⊽</u>	
-	4045 Oct 05 09:02	0° M.		desc. node	4046 Sep 23 05:58	21° ≏ 47'47	
desc. node	4045 Oct 06 08:57	1°M36'19			4046 Sep 28 17:33	0°M₊	
	4045 Oct 26 18:42	0° ∡ 7		evening max el	4046 Oct 13 23:42	18°M37'10	26°48'29
		•		<i>5</i>			

retrograde	4046 Oct 27 01:47	25°M53'09		desc. node	4047 Sep 10 03:00	11° ≏ 35'00	
evening set	4046 Nov 02 17:26	23°M12'50			4047 Sep 24 11:19	0°M₊	
min. Earth dist.	4046 Nov 06 17:38	19° ™ 11'03	0.65809 AU	evening max el	4047 Sep 26 11:41	2°M00'23	27°20'56
inferior conj	4046 Nov 08 14:15	17°M00'36	-1°33'47	retrograde	4047 Oct 10 00:05	9°M18'53	
minimum elong	4046 Nov 08 16:52	16°M52'57	1°32'42	evening set	4047 Oct 17 01:03	6°MJ38'21	
asc. node	4046 Nov 13 05:06	12°M18'05		min. Earth dist.	4047 Oct 20 19:21	3°ML11'06	0.64390 AU
morning rise	4046 Nov 14 17:06	11°M20'14		inferior conj	4047 Oct 23 04:08	0°M39'41	
direct	4046 Nov 17 13:09	10°M35'50		minimum elong	4047 Oct 23 08:31	0°M27'59	
			10010127	minimum ciong			2 33 40
morning max el	4046 Nov 24 02:22	14°M08'40	18°19'27		4047 Oct 23 19:04	30° RΩ	
	4046 Dec 05 13:13	0°⊀		morning rise	4047 Oct 29 17:13	25° ≙ 13'48	
morning set	4046 Dec 13 09:03	12° ∡ ³36′05		asc. node	4047 Oct 31 02:08	24° ≏ 47'37	
desc. node	4046 Dec 20 05:13	23° ∡ ³35'54		direct	4047 Nov 01 06:33	24° ≏ 40′23	
	4046 Dec 24 05:51	5°0		morning max el	4047 Nov 07 18:36	28° ≏ 06′20	17°56'05
					4047 Nov 09 12:10	0°M₊	
superior conj	4046 Dec 28 16:38	7° る 01'06	-0°55'51	morning set	4047 Nov 24 23:22	24°ML12'01	
minimum elong	4046 Dec 28 09:42	6° る 33'49			4047 Nov 28 09:54	0° ∡ 7	
max. Earth dist.	4046 Dec 30 09:14	9° る 40'32	1.45251 AU	desc. node	4047 Dec 07 02:14	14° ×7 19'44	
max. Earm dist.			1.43231 AU	desc. node	404 / Dec 0 / 02.14	14 8.1944	
	4047 Jan 12 08:47	0° ≈				_	
evening rise	4047 Jan 13 21:01	2° ≈ 21'56		superior conj	4047 Dec 08 06:57	16° ∡ 15'49	-0°08'16
greatest brilliancy	4047 Jan 24 20:33	19° ≈ 29'41	-0.8m	minimum elong	4047 Dec 08 05:59	16° ⊀ 11'53	0°08'06
	4047 Jan 31 24:00	0° ∀		behind sun begin	4047 Dec 07 21:01	15° ∡ ³35'44	
evening max el	4047 Feb 06 06:32	6° ∺ 26'11	19°16'07	behind sun end	4047 Dec 08 14:56	16° ∡ ¹47'59	
asc. node	4047 Feb 09 04:23	8° ¥ 57'37		max. Earth dist.	4047 Dec 13 03:50	24° ҂ 02'37	1.44731 AU
retrograde	4047 Feb 13 07:50	10° ¥ 27'57			4047 Dec 16 22:40	0°ප	
evening set	4047 Feb 16 18:18	9° H 18'58		evening rise	4047 Dec 24 10:33	11° る 37'22	
•			2021152	evening rise			
inferior conj	4047 Feb 22 06:50	3° ¥ 27'59	3°21'52		4048 Jan 05 13:03	0° ≈	
minimum elong	4047 Feb 22 05:01	3°) 33′49	3°21'36	greatest brilliancy	4048 Jan 08 01:39	3° ≈ 44′00	-0.6m
min. Earth dist.	4047 Feb 23 15:52	1°) (41′30	0.66273 AU	evening max el	4048 Jan 20 10:30	19° ≈ 58'12	20°12'17
	4047 Feb 25 00:38	30° Ŗ ≈		asc. node	4048 Jan 27 01:25	24° ≈ 24'54	
morning rise	4047 Feb 27 15:27	27°≈14'10		retrograde	4048 Jan 28 05:53	24° ≈ 32'33	
direct	4047 Mar 05 23:06	24° ≈ 26'29		evening set	4048 Feb 01 00:35	23° ≈ 09'31	
	4047 Mar 16 13:56	0° ∀		inferior conj	4048 Feb 06 10:01	17° ≈ 05'04	2°57'05
desc. node	4047 Mar 18 04:27	1°) 31'41		minimum elong	4048 Feb 06 07:38	17°≈13'08	2°56'32
			26010110	Č			
morning max el	4047 Mar 18 14:56	1°) € 57'56	26°10'19	min. Earth dist.	4048 Feb 07 05:09	16° ≈ 00'23	0.67251 AU
	4047 Apr 08 18:06	0° Υ		morning rise	4048 Feb 11 14:27	10° ≈ 51′04	
morning set	4047 Apr 23 18:25	25° Ƴ 38'45		direct	4048 Feb 17 09:07	8° ≈ 16′10	
	4047 Apr 26 01:51	0°B		morning max el	4048 Feb 28 23:37	15° ≈ 12'34	24°49'38
max. Earth dist.	4047 Apr 27 17:40	3° 8 11'51	1.35204 AU	desc. node	4048 Mar 04 01:27	19° ≈ 40'32	
	•				4048 Mar 12 03:05	0°)	
superior conj	4047 May 02 19:45	13° 8 20'16	-0°53'00		4048 Mar 31 15:40	0° Υ	
minimum elong	4047 May 02 17:43 4047 May 02 22:35	13° 8 34'44		morning set	4048 Apr 05 01:44	7° Υ 39'45	
•	•		0 32 28	•	•		1.27007.411
asc. node	4047 May 08 03:42	24° 8 20'47		max. Earth dist.	4048 Apr 08 16:45	14° Y 12'33	1.37096 AU
evening rise	4047 May 10 14:27	29° 8 24'46					
	4047 May 10 21:18	Π $^{\circ}0$		superior conj	4048 Apr 15 05:57	26° Ƴ 38'15	-1°21'13
evening max el	4047 May 29 01:22	29° Ⅱ 27′08	20°30'45	minimum elong	4048 Apr 15 10:11	26° Ƴ 58'57	1°20'36
	4047 May 29 15:11	0 \circ \mathfrak{S}			4048 Apr 16 23:01	$8^{\circ 0}$	
retrograde	4047 Jun 09 03:19	4° © 51'53		evening rise	4048 Apr 23 17:04	13° 8 30'54	
evening set	4047 Jun 11 03:38	4°9541'54		asc. node	4048 Apr 24 00:44	14° 8 09'12	
desc. node	4047 Jun 14 03:42	3°952'58		use. Hour	4048 May 02 11:23	0°II	
			1040150		4048 May 10 16:08		10024146
inferior conj	4047 Jun 20 08:58	0°5544'20		evening max el	,	11° I I03'51	19°24'46
minimum elong	4047 Jun 20 03:48		1°48'06	retrograde	4048 May 20 00:24	15° Ⅱ 36'31	
min. Earth dist.	4047 Jun 21 15:08	0°500'38	0.54957 AU	evening set	4048 May 22 00:05	15° Ⅱ 25'06	
	4047 Jun 21 15:35	30°R Ⅱ		inferior conj	4048 May 30 13:45	11° Ⅱ 18'39	0°08'02
morning rise	4047 Jun 29 03:05	26° Ⅲ 35′06		minimum elong	4048 May 30 14:05	11° Ⅱ 18′05	0°07'54
direct	4047 Jul 02 22:29	26° Ⅱ 03'48		transit middle	4048 May 30 14:05	11° Ⅱ 18′05	0°07'54
	4047 Jul 13 06:57	0°ಅ		transit begin	4048 May 30 10:43	11° Ⅱ 23'34	
morning max el	4047 Jul 16 07:04	2° © 31'46	23°22'28	transit end	4048 May 30 17:28	11° II 12'36	
morning max ci			23 22 20		•		
•	4047 Aug 03 23:34	0° N		desc. node	4048 May 31 00:42	11° I I00'49	0.55026 : ***
asc. node	4047 Aug 04 02:57	0°Ω16'30		min. Earth dist.	4048 Jun 02 05:24	9° Ⅱ 35'42	0.55926 AU
morning set	4047 Aug 08 17:14	9° Ω 38'56		morning rise	4048 Jun 08 01:14	6° Ⅱ 36'45	
				direct	4048 Jun 12 18:24	5° Ⅱ 46′13	
superior conj	4047 Aug 15 17:57	24° Ω 45′03	1°35'35	morning max el	4048 Jun 26 20:54	12° Ⅱ 54'39	25°04'23
minimum elong	4047 Aug 15 16:09	24° Ω 35'22		-	4048 Jul 10 03:27	0ංම	
,	4047 Aug 18 05:02	0° m)	-	asc. node	4048 Jul 20 23:59	19° 9 56'06	
max. Earth dist.	4047 Aug 18 05:52 4047 Aug 18 06:54	ريات 0° 100 09′53	1.33543 AU	morning set	4048 Jul 23 04:57	24°932'23	
	•	•	1.55575 AU	morning set			
evening rise	4047 Aug 23 08:19	10°Mp33'49			4048 Jul 25 18:02	0 $^{\circ}$ Ω	
	404 / Sep 107 21:03	()~77					

4047 Sep 02 21:03

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superior conj	4048 Jul 30 03:40	9° Ω 37'20	1°22'56	minimum elong	4049 Jul 14 12:59	24° © 20'39	1°05'17
minimum elong	4048 Jul 30 01:23	9° Ω 24'52	1°22'37	max. Earth dist.	4049 Jul 14 22:44	25° © 14'23	1.32128 AU
max. Earth dist.	4048 Jul 31 12:15	12°Ω35'03	1.32630 AU	max. Darth dist.	4049 Jul 17 02:41	0°Ω	1.52120710
evening rise	4048 Aug 06 07:26	24° £ 53'42		evening rise	4049 Jul 21 13:00	9° Ω 31'23	
<i>8</i> 21	4048 Aug 08 20:07	0° mp		<i>8</i>	4049 Aug 01 03:54	0° m/	
	4048 Aug 26 10:32	0∘ <u>⊽</u>		desc. node	4049 Aug 13 21:02	19° m 11'52	
desc. node	4048 Aug 27 00:01	0° ≏ 47'43		evening max el	4049 Aug 21 02:08	27° m 13'54	26°54'41
evening max el	4048 Sep 07 21:22	14° ≏ 56'52	27°24'20		4049 Aug 24 07:16	0° ⊽	
retrograde	4048 Sep 21 15:47	22° ≙ 12'16		retrograde	4049 Sep 03 23:48	4° £ 24'52	
evening set	4048 Sep 28 20:18	19° ≏ 42'35		evening set	4049 Sep 10 22:59	2° £ 18′21	
min. Earth dist.	4048 Oct 02 11:11	16° ≏ 44'53	0.62651 AU		4049 Sep 14 06:07	30°₽, Mp	
inferior conj	4048 Oct 05 07:31	14° ≏ 01'55	-3°35'16	min. Earth dist.	4049 Sep 14 16:18	29° m 39'43	0.60670 AU
minimum elong	4048 Oct 05 13:14	13° ≏ 48'15	3°33'30	inferior conj	4049 Sep 17 21:06	26° M 58'59	-4°27'42
morning rise	4048 Oct 12 07:45	8° ≏ 53'47		minimum elong	4049 Sep 18 02:51	26° Mp 46'54	4°26'30
direct	4048 Oct 14 17:10	8° £ 27'43		morning rise	4049 Sep 25 08:36	22° m 11'57	
asc. node	4048 Oct 16 23:11	8° ≏ 51'27		direct	4049 Sep 27 17:11	21°Mp50'14	
morning max el	4048 Oct 21 10:54		17°50'28	asc. node	4049 Oct 03 20:14	24° Tp 23'49	
	4048 Nov 02 15:06	0° M .		morning max el	4049 Oct 05 00:10	25° m 26'44	18°03'48
morning set	4048 Nov 06 12:45	6° ™ 54'19			4049 Oct 08 20:22	0∘ ⊽	
	404031 17 22 11	2.60 m 4.4102	0024145	morning set	4049 Oct 20 18:52	20° £ 24'47	
superior conj	4048 Nov 17 22:11	26°M44'03	0°34'45		4049 Oct 25 22:58	0°M.	
minimum elong	4048 Nov 18 01:21	26°M57'25	0°34'18		4040.0 + 20 15 41	99 M 2 012.4	1007122
daga mada	4048 Nov 19 20:56	0°⊀ 5°⊀06'39		superior conj	4049 Oct 30 15:41	8°M29'34 8°M47'59	1°07'33 1°07'02
desc. node max. Earth dist.	4048 Nov 22 23:15 4048 Nov 24 19:41	3 x · 00 39 8° x 07'14	1.43547 AU	minimum elong max. Earth dist.	4049 Oct 30 19:50 4049 Nov 07 07:11	21°M40'43	1.41838 AU
evening rise	4048 Dec 02 20:45	20° 🖈 51'07	1.43347 AU	desc. node	4049 Nov 09 20:19	25°M53'45	1.41636 AU
evening rise	4048 Dec 02 20:43 4048 Dec 08 20:11	20 メ ・3107		desc. node	4049 Nov 12 08:59	25 11655 45 0° x 7	
	4048 Dec 30 04:53	0°≈		evening rise	4049 Nov 12 19:37	0° х 42'44	
evening max el	4049 Jan 02 09:00	3°≈31'14	21°21'02	evening rise	4049 Dec 02 08:40	0°중	
retrograde	4049 Jan 11 03:32	8°≈43'28	21 21 02	evening max el	4049 Dec 16 02:28	17° පි 06'28	22°38'02
asc. node	4049 Jan 12 22:27	8°≈26'05		retrograde	4049 Dec 25 23:15	22° る 58'03	22 30 02
evening set	4049 Jan 15 08:13	7°≈05'11		evening set	4049 Dec 30 15:35	21° る 03'38	
inferior conj	4049 Jan 20 16:30	0° ≈ 50'12	2°23'03	asc. node	4049 Dec 30 19:28	20°る55'27	
minimum elong	4049 Jan 20 14:02	0° ≈ 58'42	2°22'19	inferior conj	4050 Jan 05 00:19	14° ⋜ 41'26	1°41'22
min. Earth dist.	4049 Jan 20 23:07	0° ≈ 27'18	0.67825 AU	minimum elong	4050 Jan 04 22:16	14° පි 48'32	1°40'37
	4049 Jan 21 07:01	30°Rる		min. Earth dist.	4050 Jan 04 19:29	14° පි 58'10	0.68020 AU
morning rise	4049 Jan 25 19:41	24° る 37'44		morning rise	4050 Jan 10 04:50	8° る 32'09	
direct	4049 Jan 30 23:46	22° る 22'36		direct	4050 Jan 14 18:11	6° る 39'48	
morning max el	4049 Feb 10 08:23	28° る 32'05	23°20'59	morning max el	4050 Jan 23 20:50	11° る 59'49	21°53'50
	4049 Feb 11 18:05	0°≈		desc. node	4050 Feb 05 19:31	28° る 12'57	
desc. node	4049 Feb 18 22:28	8° ≈ 38'50			4050 Feb 07 01:49	0° ≈	
	4049 Mar 05 20:59	0° ∀		morning set	4050 Feb 25 11:43	27° ≈ 54'30	
morning set	4049 Mar 17 09:03	18° ∺ 28'17			4050 Feb 26 18:54	0° ∀	
max. Earth dist.	4049 Mar 21 11:42	25°) € 30'44	1.39247 AU	max. Earth dist.	4050 Mar 03 10:25	7° 升 37'52	1.41393 AU
	4049 Mar 24 00:47	$0^{\circ}\Upsilon$					
				superior conj	4050 Mar 11 03:14	20°) 50′09	
superior conj	4049 Mar 29 02:04	9° Υ 12'07		minimum elong	4050 Mar 11 06:29	21°) (04'27	2°02'44
minimum elong	4049 Mar 29 06:48	9° Υ 34'10 27° Υ 08'23	1~45′21	avanina -i	4050 Mar 16 05:59	0° Υ 10° Υ 08'57	
evening rise	4049 Apr 07 11:32			evening rise	4050 Mar 21 18:23		
asc. node	4049 Apr 08 23:11 4049 Apr 10 21:46	0° と 3° と 41'39		asc. node	4050 Mar 28 18:48 4050 Apr 02 04:28	22° Y 52'13 0° と	
evening max el	4049 Apr 23 17:19	23° 8 19'21	18°38'57	evening max el	4050 Apr 07 01:33		18°13'16
retrograde	4049 May 01 15:13	27° 8 12'29	16 3637	retrograde	4050 Apr 14 00:58	9° 8 35'11	18 13 10
evening set	4049 May 03 20:46	26° 8 55'03		evening set	4050 Apr 16 13:03	9° 8 08'52	
inferior conj	4049 May 11 14:27		1°44'33	inferior conj	4050 Apr 23 12:31	4° 8 23'17	2°49'11
minimum elong	4049 May 11 17:49	22° 8 23'53	1°43'30	minimum elong	4050 Apr 23 15:54	4° 8 15'45	2°48'26
min. Earth dist.	4049 May 14 22:49	19° 8 59'05	0.57629 AU	min. Earth dist.	4050 Apr 26 21:46		0.59734 AU
desc. node	4049 May 17 21:42	18° 8 03'17			4050 Apr 28 16:26	30°RY	
morning rise	4049 May 19 11:41	17° 8 13'56		morning rise	4050 Apr 30 16:14	28° Υ 40'03	
direct	4049 May 25 04:15	15° 8 53'17		desc. node	4050 May 04 18:44	26° Y 59'30	
morning max el	4049 Jun 08 13:03	23° 8 28'01	26°31'38	direct	4050 May 07 02:51	26° Ƴ 44'18	
-	4049 Jun 14 10:08	0°Ⅲ			4050 May 16 00:47	0°8	
	4049 Jul 03 01:23	0 \circ 60		morning max el	4050 May 21 11:17	4° 8 34'56	27°30'05
morning set	4049 Jul 07 15:33	9° 5 21'27			4050 Jun 09 05:38	$\Pi^{\circ}0$	
asc. node	4049 Jul 07 21:02	9° © 50'27		morning set	4050 Jun 21 23:14	23° ∏ 59'49	
				asc. node	4050 Jun 24 18:05	29° ∏ 53'42	
superior conj	4049 Jul 14 15:16	24° © 33'13	1°05'41		4050 Jun 24 19:15	0ಂತಾ	

max. Earth dist.	4050 Jun 28 10:30	7°555'34	1.32030 AU	superior conj minimum elong	4051 Jun 13 12:53 4051 Jun 13 11:58	24°П09'53 24°П04'54	0°19'53 0°19'42
superior conj	4050 Jun 29 02:54	9° © 25'55	0°44'28	C	4051 Jun 16 04:54	0ంతె	
minimum elong	4050 Jun 29 01:05	9° © 15'55	0°44'06	evening rise	4051 Jun 20 10:06	9° 5 07'46	
evening rise	4050 Jul 05 22:33	24°518'18		•	4051 Jul 01 04:14	$0^{\circ}\Omega$	
C	4050 Jul 08 16:07	$0^{\circ}\Omega$		evening max el	4051 Jul 15 13:58	19° Ω 25'34	24°26'08
	4050 Jul 26 08:54	o° mp		desc. node	4051 Jul 18 15:03	22° Ω 04'38	
desc. node	4050 Jul 31 18:04	6° Mp 26'43		retrograde	4051 Jul 29 10:48	26° Ω 25'36	
evening max el	4050 Aug 02 23:26	8° m 41'35	25°52'41	evening set	4051 Aug 03 09:05	25° Ω 31'16	
retrograde	4050 Aug 16 22:41	15° Mp 49'10		min. Earth dist.	4051 Aug 09 00:56	22° Ω 38'29	0.56721 AU
evening set	4050 Aug 23 04:08	14° Mp 16'44		inferior conj	4051 Aug 11 17:19	20° Ω 56'17	-5°08'19
min. Earth dist.	4050 Aug 27 11:43	11° Mp 40'28	0.58604 AU	minimum elong	4051 Aug 11 15:09	20° Ω 59'46	5°08'12
inferior conj	4050 Aug 30 17:13	9° Mp 19'42	-5°03'25	morning rise	4051 Aug 19 23:49	16° Ω 53'39	
minimum elong	4050 Aug 30 20:29	9° mp 13'45	5°03'08	direct	4051 Aug 22 15:44	16° Ω 34'28	
morning rise	4050 Sep 07 15:04	4° m 55'58		morning max el	4051 Sep 01 04:23	21° Ω 01'09	19°32'33
direct	4050 Sep 10 01:59	4° Mp 36'22		asc. node	4051 Sep 07 14:21	28° Ω 54'07	
morning max el	4050 Sep 18 07:02	8° m 31'54	18°37'27		4051 Sep 08 07:35	0° m)	
asc. node	4050 Sep 20 17:17	11° m 09'39		morning set	4051 Sep 18 14:25	18° m 53'40	
	4050 Oct 02 05:03	$0 \circ \overline{\mathbf{v}}$		3	4051 Sep 24 02:44	0∘ ⊽	
morning set	4050 Oct 04 12:39	4° £ 27'52					
C				superior conj	4051 Sep 26 13:56	4° ≙ 53'48	1°41'00
superior conj	4050 Oct 13 06:46	21° ≏ 18′02	1°29'17	minimum elong	4051 Sep 26 15:27	5° ഫ 01'18	1°40'56
minimum elong	4050 Oct 13 09:56	21° ≏ 32'53	1°29'00	max. Earth dist.	4051 Oct 02 17:43	16° ≏ 39'49	1.37725 AU
S	4050 Oct 18 00:32	0°M		evening rise	4051 Oct 06 11:53	23° ≏ 28'08	
max. Earth dist.	4050 Oct 20 13:33	4°M30'21	1.39809 AU	C	4051 Oct 10 06:13	0°M	
evening rise	4050 Oct 24 16:15	11° M 33'44		desc. node	4051 Oct 14 14:24	7° M 11'39	
desc. node	4050 Oct 27 17:22	16°M36'47			4051 Oct 30 00:04	0° ∡ ¹	
	4050 Nov 05 05:48	0° ∡ 7		evening max el	4051 Nov 11 04:43	14° ∡ ¹26′10	25°14'10
	4050 Nov 27 22:41	8°0		retrograde	4051 Nov 23 04:07	21° ∡ ¹21'19	
evening max el	4050 Nov 28 16:20	0° ප 44'40	23°57'57	evening set	4051 Nov 28 23:09	18° ₹ 56'18	
retrograde	4050 Dec 09 15:47	7° る 12'21		min. Earth dist.	4051 Dec 03 10:16	13° ∡ 758'16	0.67325 AU
evening set	4050 Dec 14 21:07	5° る 01'52		inferior conj	4051 Dec 04 12:45	12° ∡ ³32′04	-0°00'41
asc. node	4050 Dec 17 16:30	2° る 04'24		minimum elong	4051 Dec 04 12:46	12° ∡ ³32′00	0°00'41
	4050 Dec 19 06:58	30°₹ ҂ 7		transit middle	4051 Dec 04 12:46	12° ∡ ³32′00	0°00'41
min. Earth dist.	4050 Dec 19 15:59	29° х 29′37	0.67847 AU	transit begin	4051 Dec 04 09:59	12° √ 41'04	
inferior conj	4050 Dec 20 07:41	28° х 36′23	0°53'08	transit end	4051 Dec 04 15:33	12° ∡ ¹22'58	
minimum elong	4050 Dec 20 06:27	28° ҂ ¹40'32	0°52'37	asc. node	4051 Dec 04 13:33	12° ∡ ¹29'29	
morning rise	4050 Dec 25 15:49	22° ҂ ³32′02		morning rise	4051 Dec 10 02:39	6° ∡ ³34'45	
direct	4050 Dec 29 15:17	21° 尽 02′23		direct	4051 Dec 13 13:51	5° ∡ ¹25'27	
morning max el	4051 Jan 06 16:06	25° ∡ ³39′01	20°35'27	morning max el	4051 Dec 20 19:14	9° ∡ ¹28'59	19°30'14
	4051 Jan 10 13:12	0°ප		greatest brilliancy	4052 Jan 02 23:01	26° ₹ 58'03	-0.7m
desc. node	4051 Jan 23 16:35	18° る 13'08			4052 Jan 04 23:27	0°ප	
	4051 Jan 31 12:18	0° ≈		desc. node	4052 Jan 10 13:38	8° る 31'45	
morning set	4051 Feb 04 13:54	6°≈16′05		morning set	4052 Jan 14 11:16	14° る 32'37	
max. Earth dist.	4051 Feb 13 16:15	20° ≈ 39'52	1.43243 AU		4052 Jan 24 09:23	0° ≈	
	4051 Feb 19 08:58	0° ∀		max. Earth dist.	4052 Jan 27 04:54	4° ≈ 26′13	1.44569 AU
	4051 7 1 20 04 25	10)/01/54	2005110		4050 7 21 04 15	100 45100	1050155
superior conj	4051 Feb 20 04:37	1°) €21'54		superior conj	4052 Jan 31 04:15	10°≈45'38	
minimum elong	4051 Feb 20 03:23	1°) €16'45	2°0/1/	minimum elong	4052 Jan 30 21:03	10°≈16'49	1°53'2/
evening rise	4051 Mar 04 09:29	22°) 23'47 0° Y			4052 Feb 11 22:45	0°) {	
1	4051 Mar 08 17:12			evening rise	4052 Feb 14 04:23	3°) (44'10	
asc. node	4051 Mar 15 15:50	11° Υ 33'56	10007100	asc. node	4052 Mar 01 12:52	29°) 37′20 0° °	
evening max el	4051 Mar 21 13:31	19°Υ12'03	18°07'09	·	4052 Mar 01 20:06	0° γ 2° Υ 32'29	10010156
retrograde	4051 Mar 28 01:47	22° Υ 34'45 21° Υ 57'50		evening max el	4052 Mar 04 02:12	6° Υ 01'04	18°19'56
evening set	4051 Mar 30 19:53	16° Y 52'07	3°24'22	retrograde	4052 Mar 10 13:00 4052 Mar 13 13:00	5° Υ 12'24	
inferior conj	4051 Apr 06 04:57	16 γ 3207 16° γ 47'16	3°24'08	evening set		29°) 47'52	2026124
minimum elong min. Earth dist.	4051 Apr 06 06:51 4051 Apr 09 04:45	13° Y 47° 16	0.61906 AU	inferior conj minimum elong	4052 Mar 19 11:34 4052 Mar 19 11:44	29° X 47'32 29° X 47'23	3°36'24
min. Earth dist.	4051 Apr 09 04:45 4051 Apr 12 16:12	13° γ 50'35 10° γ 52'14	0.01700 AU	minimum etong	4052 Mar 19 11:44 4052 Mar 19 07:18	29°π4/23 30° R ₩	J JU 24
direct	4051 Apr 19 12:13	8° Υ 25'33		min. Earth dist.	4052 Mar 21 20:58	30 KX 27° ¥ 05'11	0.63893 AU
desc. node	4051 Apr 19 12:15 4051 Apr 21 15:45	8° Υ 38'59		morning rise	4052 Mar 25 09:36	27 X 0311 23° X 39'18	0.03033 AU
morning max el	4051 May 03 15:46	16° Υ 24'17	27°51'52	direct	4052 Apr 01 06:10	20° H 53'25	
morning max or	4051 May 14 20:21	0° 8	2, 3132	desc. node	4052 Apr 07 12:47	20 X 33 23 22° X 48'44	
	4051 Jun 01 20:55	0°II		morning max el	4052 Apr 15 00:13	28° H 50'56	27°36'27
morning set	4051 Jun 06 02:05	8° ∏ 21'10			4052 Apr 16 03:05	0° Υ	_, 5021
asc. node	4051 Jun 11 15:08	20° I I01'27			4052 May 07 16:45	%8 0°B	
max. Earth dist.	4051 Jun 11 19:33	20° I I25'20	1.32341 AU	morning set	4052 May 19 21:35	22° 8 17'07	
	,,,,,,				, 1.00	O = 7 0 7	

max. Earth dist.	4052 May 23 16:56 4052 May 24 21:49	0°Щ 2°Щ30'23	1.33089 AU	desc. node morning max el	4053 Mar 25 09:50 4053 Mar 28 10:02 4053 Apr 11 23:42	8°¥55'37 11°¥44'51 0° Υ	26°48'54
superior conj	4052 May 27 19:19	8° Ⅱ 38'36	-0°07'21		4053 Apr 30 06:21	9° 8	
minimum elong	4052 May 27 19:41	8° Ⅱ 40′34	0°07'16	morning set	4053 May 03 06:34	5° 8 38'23	
behind sun begin	4052 May 27 14:52	8° Ⅱ 14'49		max. Earth dist.	4053 May 07 13:58	14° 8 04'13	1.34304 AU
behind sun end	4052 May 28 00:30	9° Ⅱ 06′20 10° Ⅱ 08′55			4052 Marr 11 20:06	220 47102	0027111
asc. node evening rise	4052 May 28 12:10 4052 Jun 03 21:44	10°Щ08'33 23°Щ53'02		superior conj minimum elong	4053 May 11 20:06 4053 May 11 22:00	22° 8 46'02 22° 8 55'59	
evening rise	4052 Jun 06 20:23	0° 9		asc. node	4053 May 11 22:00 4053 May 15 09:11	0° П 12'21	0 33 40
evening max el	4052 Jun 26 03:20	29°549'38	22°49'17		4053 May 15 06:51	0°Ⅱ	
	4052 Jun 26 07:38	$0^{\circ}\Omega$		evening rise	4053 May 19 07:35	8° Ⅱ 28'30	
desc. node	4052 Jul 04 12:02	5° Ω 31'12			4053 May 30 19:31	0 \circ 60	
retrograde	4052 Jul 09 10:18	6° Ω 26'45		evening max el	4053 Jun 07 23:22	10° © 26'15	21°17'10
evening set	4052 Jul 12 19:58	6° Ω 01'23	0.55250 ATT	retrograde desc. node	4053 Jun 19 23:46	16°520'34	
min. Earth dist. inferior conj	4052 Jul 20 11:48 4052 Jul 21 22:27	1° Ω 48'15	0.55358 AU	evening set	4053 Jun 21 09:03 4053 Jun 22 07:20	16° © 16'04 16° © 08'12	
minimum elong	4052 Jul 21 14:50	1° Ω 59'13		inferior conj	4053 Jul 01 16:22	12°909'31	-2°56'43
minimum crong	4052 Jul 25 04:40	30°R.55	1 23 30	minimum elong	4053 Jul 01 08:37	12°S20'23	2°54'13
morning rise	4052 Jul 30 11:54	27°957'06		min. Earth dist.	4053 Jul 01 22:45	12° © 00'35	0.54827 AU
direct	4052 Aug 02 11:12	27° 5 36'29		morning rise	4053 Jul 10 10:25	8° © 12'58	
	4052 Aug 10 00:52	$0^{\circ}\Omega$		direct	4053 Jul 13 20:57	7° 5 947'24	
morning max el	4052 Aug 13 13:59	2° Ω 46′29	20°49'04	morning max el	4053 Jul 26 12:14	13° © 46'59	22°23'31
asc. node	4052 Aug 24 11:24	17° Ω 23'56		1	4053 Aug 07 17:59	0° Ω	
morning sot	4052 Aug 31 03:23 4052 Sep 01 21:32	0° Тр 3° Тр 35'09		asc. node morning set	4053 Aug 11 08:27 4053 Aug 17 07:49	6° Ω 27'36 18° Ω 25'39	
morning set	4032 Sep 01 21.32	3 11/3309		morning set	4053 Aug 17 07.49 4053 Aug 22 18:25	0° m	
superior conj	4052 Sep 09 08:36	19° m 03'49	1°44'16		4033 Mug 22 10.23	V III	
minimum elong	4052 Sep 09 08:32	19° m 03'27	1°44'16	superior conj	4053 Aug 24 11:11	3° Mp 36'43	1°40'29
max. Earth dist.	4052 Sep 14 01:53	28° m 32'20	1.35823 AU	minimum elong	4053 Aug 24 09:53	3° ™ 29'50	1°40'25
	4052 Sep 14 19:51	0० ट		max. Earth dist.	4053 Aug 27 18:18	10° m 30'35	1.34260 AU
evening rise	4052 Sep 18 03:20	6° £ 18′24		evening rise	4053 Sep 01 10:07	19° m 51'53	
desc. node	4052 Sep 30 11:24	27° £ 33'40			4053 Sep 06 19:34	0∘ ⊽	
	4052 Oct 02 00:41	0°M	26°19'13	desc. node	4053 Sep 17 08:23	17° ≏ 36'03 0° ™	
evening max el	4052 Oct 23 17:15 4052 Oct 25 17:45	28°M08′28 0°⊀	20-19-13	evening max el	4053 Sep 26 01:00 4053 Oct 06 05:55	11°M42'31	27°05'33
retrograde	4052 Nov 05 11:23	5° × ⁷ 19'38		retrograde	4053 Oct 19 12:52	18°M59'40	27 03 33
evening set	4052 Nov 11 19:51	2° ∡ ⁴43'35		evening set	4053 Oct 26 08:59	16°M18'26	
C	4052 Nov 14 14:05	30°RM		min. Earth dist.	4053 Oct 30 06:39	12°M31'31	0.65251 AU
min. Earth dist.	4052 Nov 15 23:59	28° M20'52	0.66461 AU	inferior conj	4053 Nov 01 08:19	10°M11'35	-1°59'53
inferior conj	4052 Nov 17 13:42	26°M25'32		minimum elong	4053 Nov 01 11:42		1°58'31
minimum elong	4052 Nov 17 15:18	26°M20'38	0°58'11	asc. node	4053 Nov 07 07:38	4°M46'28	
asc. node	4052 Nov 20 10:35	23°M06'48		morning rise	4053 Nov 07 15:20	4°M36'43	
morning rise direct	4052 Nov 23 11:17 4052 Nov 26 12:15	20°M37'52 19°M45'25		direct morning max el	4053 Nov 10 08:18 4053 Nov 16 20:03	3°M57'18 7°M26'01	18007'21
morning max el	4052 Dec 03 05:19	23°M26'38	18°40'31	morning max cr	4053 Dec 02 05:44	0° √	10 0/21
morning max or	4052 Dec 08 14:34	0° ₹	10 1031	morning set	4053 Dec 05 02:32	4° х 43′25	
morning set	4052 Dec 24 04:12	23° ₹ 53'48		desc. node	4053 Dec 14 07:40	19° ∡ ⁴44'11	
desc. node	4052 Dec 27 10:40	29° ₰ 03'42					
	4052 Dec 28 00:56	0°ಕ		superior conj	4053 Dec 19 14:22	28° ₹ 09'39	
	4052 1 00 00 22	100 70 4127	1001114	minimum elong	4053 Dec 19 09:53	27° ₹ 51'54	0°35'03
superior conj	4053 Jan 09 09:23 4053 Jan 09 00:20	19°る24'37 18°る49'06		max. Earth dist.	4053 Dec 20 18:15	0°る 3°る08'42	1.45128 AU
minimum elong max. Earth dist.	4053 Jan 08 22:32	18° る 49'06	1.45221 AU	evening rise	4053 Dec 22 18:08 4054 Jan 04 22:22	3 30842 23° る 41'20	1.43126 AU
max. Earth dist.	4053 Jan 16 02:55	0°≈	1.43221 AU	evening rise	4054 Jan 09 00:14	25 ○ 41 20	
evening rise	4053 Jan 25 00:10	14°≈07'29		greatest brilliancy	4054 Jan 17 20:19	13° ≈ 30'41	-0.7m
greatest brilliancy	4053 Feb 01 20:26	26° ≈ 40'34	-0.9m	evening max el	4054 Jan 29 19:58	29° ≈ 32'05	19°38'16
	4053 Feb 03 22:55	0° ∀			4054 Jan 30 07:04	0° ∀	
evening max el	4053 Feb 15 13:04	16°) €00'48	18°50'45	asc. node	4054 Feb 03 06:54	3°) €02'00	
asc. node	4053 Feb 16 09:52	16°) € 51'22		retrograde	4054 Feb 06 04:02	3°) (46′25	
retrograde	4053 Feb 22 06:48	19°) 47′05		evening set	4054 Feb 09 17:55	2°) €31'23	
evening set	4053 Feb 25 13:13	18°) 45'44	3031104	infarior comi	4054 Feb 12 11:06	30°R≈ 26°≈34'21	3013133
inferior conj minimum elong	4053 Mar 03 04:37 4053 Mar 03 03:23	13° 米 03'53 13° 米 07'43	3°31'04 3°30'57	inferior conj minimum elong	4054 Feb 15 04:52 4054 Feb 15 02:45	26°≈34'21 26°≈41'20	3°12'33 3°12'11
min. Earth dist.	4053 Mar 04 22:21	10° X 54'41	0.65531 AU	min. Earth dist.	4054 Feb 16 07:45	25°≈05'42	0.66747 AU
morning rise	4053 Mar 08 17:08	6°) €51'22		morning rise	4054 Feb 20 11:21	20°≈20'30	
direct	4053 Mar 15 07:05	4°) €00'37		direct	4054 Feb 26 13:49	17° ≈ 37'21	

morning max el	4054 Mar 10 19:22	24° ≈ 54'45	25027126	morning rise	4055 Feb 04 13:19	4° ≈ 01'49	
desc. node	4054 Mar 12 06:52	24 ≈34 43 26°≈27'17	23 37 30	direct	4055 Feb 10 01:45	1°≈35'03	
desc. node	4054 Mar 15 10:03	20 ≈ 2/1/ 0° H		morning max el	4055 Feb 21 04:01	8°≈12'28	24°12'19
	4054 Apr 05 10:58	0 Υ 0° Υ		desc. node	4055 Feb 27 03:54	8 ≈12 28 14°≈59'21	24 12 19
mamina aat	4054 Apr 16 00:49	18° Υ 13'12		desc. Hode		0° \	
morning set			1.35968 AU		4055 Mar 10 05:56	0° X 29° ¥ 45'27	
max. Earth dist.	4054 Apr 19 19:02		1.33908 AU	morning set	4055 Mar 28 22:42	29° π 4527 0° Υ	
	4054 Apr 22 06:40	0° 8		max. Earth dist.	4055 Mar 29 02:03	0° γ 6° Υ 18'43	1.37992 AU
aumorior aoni	4054 Apr. 25 12:24	6° 8 24'56	1905!12	max. Earm dist.	4055 Apr 01 15:49	0 11043	1.37992 AU
superior conj	4054 Apr 25 12:34 4054 Apr 25 16:04	6° 8 42'25			4055 A 00 17.10	19° Ƴ 25'19	1922110
minimum elong asc. node	4054 May 02 06:13	20° 8 07'57	1 04 3 /	superior conj minimum elong	4055 Apr 08 17:18 4055 Apr 08 21:55	19 1 23 19 19° Y 47'26	
	•	20 8 0737		minimum elong	•	0° 8	1 31 43
evening rise	4054 May 03 13:35	0° I I		avanina riaa	4055 Apr 14 03:34	6° 8 43'18	
	4054 May 07 03:59		20000112	evening rise	4055 Apr 17 13:09	_	
evening max el	4054 May 21 07:03	21° II 38'57	20°00'13	asc. node	4055 Apr 19 03:15	9° 8 50'23	
retrograde	4054 May 31 14:45	26° Ⅱ 40'49			4055 Apr 30 23:34	0°II	10002146
evening set	4054 Jun 02 13:37	26° Ⅱ 30'47		evening max el	4055 May 04 02:32		19°02'46
desc. node	4054 Jun 08 06:04	24° Ⅱ 24'50	0050145	retrograde	4055 May 12 19:09	7° II 47'07	
inferior conj	4054 Jun 11 13:18	22° I I30'44		evening set	4055 May 14 20:48	7° Ⅱ 33'42	00.5010.0
minimum elong	4054 Jun 11 10:34	22° Ⅲ 34'52		inferior conj	4055 May 23 02:00	3° Ⅱ 19'53	
min. Earth dist.	4054 Jun 13 11:18		0.55260 AU	minimum elong	4055 May 23 04:03	3° Ⅱ 16′20	
morning rise	4054 Jun 20 05:44	18° ∏ 09'12		min. Earth dist.	4055 May 26 02:45	1° Ⅱ 14'29	0.56572 AU
direct	4054 Jun 24 09:46	17° Ⅲ 31'18		desc. node	4055 May 26 03:06	1° Ⅱ 13'54	
morning max el	4054 Jul 08 03:29	24° Ⅱ 17'19	24°06'44		4055 May 28 01:57	30° ₹ 8	
	4054 Jul 13 08:58	0ං ව		morning rise	4055 May 31 08:06	28° 8 22'34	
asc. node	4054 Jul 29 05:29	25° © 56'35		direct	4055 Jun 05 11:09	27° 8 20'36	
	4054 Jul 31 05:17	$0^{\circ}\Omega$			4055 Jun 13 19:42	$\Pi^{\circ}0$	
morning set	4054 Aug 01 19:32	3° Ω 20′08		morning max el	4055 Jun 19 17:55	4° Ⅱ 42'07	25°44'20
					4055 Jul 07 23:52	0ංම	
superior conj	4054 Aug 08 18:59	18° Ω 24'29	1°30'50	asc. node	4055 Jul 16 02:31	15°543'08	
minimum elong	4054 Aug 08 16:55	18° Ω 13'18	1°30'36	morning set	4055 Jul 17 06:59	18°912'28	
max. Earth dist.	4054 Aug 10 19:36	22° Ω 46'35	1.33102 AU		4055 Jul 22 17:32	0 $^{\circ}$ Ω	
	4054 Aug 14 05:47	0° т р					
evening rise	4054 Aug 16 04:16	3° m , 57′55		superior conj	4055 Jul 24 05:44	3° Ω 19′03	1°16'08
	4054 Aug 30 13:02	0∘ ರ		minimum elong	4055 Jul 24 03:24		1°15'47
desc. node	4054 Sep 04 05:25	7° ≏ 10'25		max. Earth dist.	4055 Jul 25 03:29	5° Ω 18′25	1.32362 AU
evening max el	4054 Sep 18 17:15	24° £ 56'19	27°26'10	evening rise	4055 Jul 31 06:25	18° Ω 26′00	
	4054 Sep 25 05:13	0°M₊			4055 Aug 06 01:58	O° Mp	
retrograde	4054 Oct 02 08:13	2°M13'17		desc. node	4055 Aug 22 02:27	26° Mp 04'31	
	4054 Oct 08 22:01	30° R <u> </u>			4055 Aug 25 02:59	0∘ ⊽	
evening set	4054 Oct 09 11:47	29° £ 35'47		evening max el	4055 Sep 01 00:54	7° ≙ 36'17	27°15'46
min. Earth dist.	4054 Oct 13 04:10		0.63695 AU	retrograde	4055 Sep 14 20:55	14° £ 50′29	
inferior conj	4054 Oct 15 18:07	23° £ 44'36		evening set	4055 Sep 22 00:35	12° ≏ 28'42	
minimum elong	4054 Oct 15 23:09	23° ≙ 31'44	2°59'29	min. Earth dist.	4055 Sep 25 15:18	9° ≙ 41'04	0.61829 AU
morning rise	4054 Oct 22 11:52	18° £ 25'57		inferior conj	4055 Sep 28 16:00	6° ≙ 56'47	
direct	4054 Oct 24 23:18	17° ≙ 55'58		minimum elong	4055 Sep 28 21:58	6° ≏ 43'16	3°57'16
asc. node	4054 Oct 25 04:41	17° £ 56'13		morning rise	4055 Oct 05 21:08	1° ≏ 57'38	
morning max el	4054 Oct 31 12:43	21° ≙ 21'02	17°51'29	direct	4055 Oct 08 05:45	1° ≏ 33'50	
	4054 Nov 07 02:58	0°M		asc. node	4055 Oct 12 01:44	2° ≙ 38'57	
morning set	4054 Nov 17 03:29	16°M50'23		morning max el	4055 Oct 15 04:11	5° ≙ 03'46	17°53'50
	4054 Nov 24 20:21	0°⊀		morning set	4055 Oct 31 00:41	29° ≏ 55'01	
					4055 Oct 31 01:47	0° M ₊	
superior conj	4054 Nov 29 14:29	7° ∡ 53'53					
minimum elong	4054 Nov 29 15:40	7° ∡ 758'45	0°10'52	superior conj	4055 Nov 10 17:19	18° M 56'40	0°50'01
behind sun begin	4054 Nov 29 08:24	7° ∡ 128'54		minimum elong	4055 Nov 10 21:14	19°M13'32	0°49'29
behind sun end	4054 Nov 29 22:57	8° ≯ 28'33			4055 Nov 17 06:50	0° ∡ ¹	
desc. node	4054 Dec 01 04:42	10° ₹ 29'57		max. Earth dist.	4055 Nov 18 02:13	1° ∡ 19'32	1.42868 AU
max. Earth dist.	4054 Dec 05 12:21	17° ₹ 27'22	1.44309 AU	desc. node	4055 Nov 18 01:45	1° ∡ 17'39	
	4054 Dec 13 12:05	0° ろ		evening rise	4055 Nov 24 22:24	12° ∡ 17'11	
evening rise	4054 Dec 15 08:32	2° る 51'30		_	4055 Dec 06 14:01	0° ろ	
	4055 Jan 02 13:44	0° ≈		evening max el	4055 Dec 26 17:43	26° පි 38'11	21°53'01
evening max el	4055 Jan 12 21:35	13°≈04'22	20°40'09		4055 Dec 30 13:22	0° ≈	
retrograde	4055 Jan 21 02:14	17° ≈ 54'29		retrograde	4056 Jan 04 23:24	2°≈07'57	
asc. node	4055 Jan 21 03:56	17°≈54'27		asc. node	4056 Jan 08 00:58	1°≈17'23	
evening set	4055 Jan 25 01:01	16°≈24'54		evening set	4056 Jan 09 08:46	0°≈22'54	
inferior conj	4055 Jan 30 09:44	10° ≈ 15'19			4056 Jan 09 19:34	30°Rる	
minimum elong	4055 Jan 30 07:15	10°≈23'47	2°43'01	inferior conj	4056 Jan 14 17:03	24°る04'09	2°06'17
min. Earth dist.	4055 Jan 30 23:16	9° ≈ 28'54	0.67545 AU	minimum elong	4056 Jan 14 14:42	24° る 12'17	2°05'30

min. Earth dist.	4056 Jan 14 18:40	23° る 58'30	0.67949 AU	direct	4057 Jan 07 13:58	0° る 07'12	
morning rise	4056 Jan 19 20:29	23 3 5830	0.07949 AU	morning max el	4057 Jan 16 04:55	5°る07'54	21°19'04
direct	4056 Jan 24 18:08	17 3 3236		desc. node	4057 Jan 30 22:00	24°₹01'14	21 1704
morning max el	4056 Feb 03 14:01	13 3 47 03 21° る 35'59	220/3113	desc. node	4057 Feb 04 00:18	24 ⊙ 01 14	
morning max er	4056 Feb 10 19:32	0°≈	22 43 13	morning set	4057 Feb 16 09:04	18°≈54'15	
desc. node	4056 Feb 14 00:57	4°≈14'51		morning set	4057 Feb 23 06:40	0° ₩	
dese. Hode	4056 Mar 02 13:03	0° ∀		max. Earth dist.	4057 Feb 23 12:22		1.42234 AU
morning set	4056 Mar 08 18:14	10°) €00'14		max. Earth dist.	4037100 23 12.22	0 7(2320	1.42254 710
max. Earth dist.	4056 Mar 13 11:15	17°) 54'07	1.40175 AU	superior conj	4057 Mar 02 21:37	12°) 48′24	-2°06'39
man. Darvir alov.	4056 Mar 20 08:33	0°Υ	1.10170110	minimum elong	4057 Mar 02 23:20	12°) 55'48	
	1000 11111 20 00.55	•		mmmum viong	4057 Mar 12 14:40	0°Υ	2 0030
superior conj	4056 Mar 21 06:00	1° Y 37'06	-1°54'17	evening rise	4057 Mar 14 03:51	2° Y 48'25	
minimum elong	4056 Mar 21 10:25	1° Y 57'14		asc. node	4057 Mar 22 21:19	18° Y 13'55	
evening rise	4056 Mar 31 03:12	20° Y ′06′28		evening max el	4057 Mar 30 17:27	28° Y 58'34	18°08'19
asc. node	4056 Apr 05 00:18	29° Y 14'35			4057 Mar 31 20:25	0°8	
	4056 Apr 05 10:17	0°8		retrograde	4057 Apr 06 10:39	2° 8 23'22	
evening max el	4056 Apr 16 07:10	16° 8 02'20	18°25'36	evening set	4057 Apr 09 01:27	1° 8 52'38	
retrograde	4056 Apr 23 18:10	19° 8 43'44		3	4057 Apr 12 06:51	30° R Υ	
evening set	4056 Apr 26 02:25	19° 8 22'55		inferior conj	4057 Apr 15 18:19	26° Y ′58′34	3°07'18
inferior conj	4056 May 03 12:00	14° 8 49'41	2°15'52	minimum elong	4057 Apr 15 21:10	26° Y 51′50	3°06'48
minimum elong	4056 May 03 15:41	14° 8 42'13	2°14'51	min. Earth dist.	4057 Apr 19 00:37	23° Y ′55'37	0.60675 AU
min. Earth dist.	4056 May 06 22:34	12° 8 03'29	0.58496 AU	morning rise	4057 Apr 22 14:46	21° Y 07'22	
morning rise	4056 May 11 01:51	9° 8 20'22		desc. node	4057 Apr 28 21:10	18° Ƴ 57'36	
desc. node	4056 May 12 00:08	8° 8 53'30		direct	4057 Apr 29 06:48	18° Ƴ 57'09	
direct	4056 May 17 03:03	7° 8 44'33		morning max el	4057 May 13 13:16	26° Ƴ 51'56	27°43'54
morning max el	4056 May 31 12:28	15° 8 28'01	27°00'32		4057 May 16 12:24	0°8	
	4056 Jun 12 07:08	0°II			4057 Jun 05 21:16	0°II	
	4056 Jun 29 06:24	0°9		morning set	4057 Jun 14 22:25	17° Ⅱ 29'23	
morning set	4056 Jun 30 16:32	2° © 57'26		asc. node	4057 Jun 18 20:38	25° II 47'33	
asc. node	4056 Jul 01 23:35	5° © 41'44			4057 Jun 20 19:07	0°95	
				max. Earth dist.	4057 Jun 21 01:45	0°936'20	1.32110 AU
superior conj	4056 Jul 07 17:34	18° © 14'15	0°57'08				
minimum elong	4056 Jul 07 15:26	18° © 02'27	0°56'44	superior conj	4057 Jun 22 04:44	3°504'16	0°34'25
max. Earth dist.	4056 Jul 07 14:44	17° © 58'38	1.32033 AU	minimum elong	4057 Jun 22 03:15	2° 9 56'07	0°34'07
	4056 Jul 13 02:35	$0^{\circ}\Omega$		evening rise	4057 Jun 29 00:35	17° © 57'21	
evening rise	4056 Jul 14 13:55	3° Ω 08'10		Ü	4057 Jul 04 22:32	$0^{\circ}\Omega$	
C	4056 Jul 28 23:04	O° Mp			4057 Jul 25 04:06	0° mp	
desc. node	4056 Aug 07 23:27	14° Mp 01'55		desc. node	4057 Jul 25 20:27	0° m 39'53	
evening max el	4056 Aug 13 02:34	19° m 32'15	26°32'00	evening max el	4057 Jul 25 20:58	0° mp 41'07	25°18'17
retrograde	4056 Aug 27 01:37	26° m/42'29		retrograde	4057 Aug 08 20:06	7° m 45'54	
evening set	4056 Sep 02 18:41	24° m/49'29		evening set	4057 Aug 14 13:34	6° m/30'15	
min. Earth dist.	4056 Sep 06 16:12	-	0.59779 AU	min. Earth dist.	4057 Aug 19 08:45	3° m 48'55	0.57758 AU
inferior conj	4056 Sep 09 22:32	19° m 39'12		inferior conj	4057 Aug 22 10:26	1° mp 42'47	
minimum elong	4056 Sep 10 03:36	19° m 29'09	4°44'53	minimum elong	4057 Aug 22 11:40	1° m/ 40'38	5°10'16
morning rise	4056 Sep 17 14:37	15° Mp 02'00			4057 Aug 25 00:18	30°R Ω	
direct	4056 Sep 19 23:38	14° Mp 41'35		morning rise	4057 Aug 30 12:06	27° Ω 28'13	
morning max el	4056 Sep 27 15:09	18° m) 25'19	18°15'35	direct	4057 Sep 02 00:52	27° Ω 08'55	
asc. node	4056 Sep 27 22:47	18° m 44'06			4057 Sep 09 07:01	0°m	
	4056 Oct 06 00:51	0∘ <u>⊽</u>		morning max el	4057 Sep 10 18:17	1° m) 16'32	18°58'10
morning set	4056 Oct 13 12:15	13° ≏ 40'24		asc. node	4057 Sep 14 19:51	5° m 57'00	
S	4056 Oct 22 05:11	0°M		morning set	4057 Sep 27 09:52	27° m 54'48	
				<i>5</i> ·	4057 Sep 28 11:14	0∘ ಹ	
superior conj	4056 Oct 22 20:37	1°M10'23	1°18'04		1		
minimum elong	4056 Oct 23 00:30	1°M28'03	1°17'39	superior conj	4057 Oct 05 19:10	14° £ 20'54	1°35'23
max. Earth dist.	4056 Oct 30 10:50	14°M32'42	1.40991 AU	minimum elong	4057 Oct 05 21:40	14° ≙ 32'53	1°35'12
desc. node	4056 Nov 03 22:47	22°M03'22		max. Earth dist.	4057 Oct 12 15:59	27° ≙ 05'07	1.38916 AU
evening rise	4056 Nov 04 05:52	22°M32'22			4057 Oct 14 07:22	0° M	
Č	4056 Nov 08 21:33	0° ∡ 7		evening rise	4057 Oct 16 12:35	3°M51'30	
	4056 Nov 29 15:21	0° ਰ		desc. node	4057 Oct 21 19:48	12°M43'45	
evening max el	4056 Dec 08 09:26	10°る14'47	23°12'08		4057 Nov 02 01:03	0° ∡ 7	
retrograde	4056 Dec 18 17:56	16° る 22'43		evening max el	4057 Nov 20 22:38	23° х 55'24	24°31'18
evening set	4056 Dec 23 15:32	14° る 21'41		<i>3</i> 4	4057 Nov 29 08:05	0°궁	*
asc. node	4056 Dec 24 22:01	13° る 09'52		retrograde	4057 Dec 02 08:37	。 0° る 35'19	
min. Earth dist.	4056 Dec 28 15:28	8° ප 30'00	0.67985 AU		4057 Dec 05 04:23	30°R. ₹	
inferior conj	4056 Dec 29 00:53		1°21'41	evening set	4057 Dec 07 19:46	28° ₹ 18'33	
minimum elong	4056 Dec 28 23:08	8° る 03'37		asc. node	4057 Dec 11 19:03	23° х 54'14	
morning rise	4057 Jan 03 06:38	1°る49'54	1 21 00	min. Earth dist.	4057 Dec 12 11:18	23°×700'42	0.67672 AU
	105, 5411 05 00.50	. 🔾 -7 5 -		mm. Lurur dist.	1007 Dec 12 11.10	25 7 00 72	3.07072 AU

	4057 D 12 07 20	210 752117	0020157		4050 N	50 745154	002427
inferior conj	4057 Dec 13 07:30	21° 🗷 53'17		minimum elong	4058 Nov 27 11:40	5° ₹ 145'54	0°24'3/
minimum elong	4057 Dec 13 06:45		0°30'38	asc. node	4058 Nov 28 16:05	4° ₹ 16'56	
morning rise	4057 Dec 18 17:49	15° 🖈 51'36		morning rise	4058 Dec 03 03:59	29°M54'41	
direct	4057 Dec 22 11:57	14° ₹ 30'45			4058 Dec 03 00:39	30°RM	
morning max el	4057 Dec 30 03:26	18° ₹ 51'32	20°05'55	direct	4058 Dec 06 10:37	28°M52'58	
	4058 Jan 08 02:40	0° ろ			4058 Dec 10 00:25	0° ∡	
desc. node	4058 Jan 17 19:02	14° る 10'04		morning max el	4058 Dec 13 09:47		19°07'10
morning set	4058 Jan 26 05:59	27° る 04'06			4059 Jan 01 17:19	8°0	
	4058 Jan 28 03:26	0° ≈		desc. node	4059 Jan 04 16:05	4° る 34'52	
max. Earth dist.	4058 Feb 05 21:40	13° ≈ 47'34	1.43891 AU	morning set	4059 Jan 05 09:21	5° る 42'02	
				max. Earth dist.	4059 Jan 19 13:14	27° る 50'16	1.44934 AU
superior conj	4058 Feb 11 11:55	22° ≈ 50'37	-2°04'02		4059 Jan 20 22:09	0° ≈	
minimum elong	4058 Feb 11 08:05	22° ≈ 34'53	2°03'54				
	4058 Feb 15 19:44	0° ∀		superior conj	4059 Jan 22 02:01	1° ≈ 50′08 -	-1°42'14
evening rise	4058 Feb 24 10:49	14°) 40′50		minimum elong	4059 Jan 21 17:11	1°≈15'11	1°41'28
	4058 Mar 05 10:35	0° Y		evening rise	4059 Feb 05 20:06	25° ≈ 37'19	
asc. node	4058 Mar 09 18:21	6° Ƴ 40'33			4059 Feb 08 12:02	0°) €	
evening max el	4058 Mar 14 06:05	12° Ƴ 12'21	18°10'17	asc. node	4059 Feb 24 15:22	24°)(24'41	
retrograde	4058 Mar 20 16:26	15° Ƴ 35'45		evening max el	4059 Feb 25 18:14	25°) 36′46	18°30'51
evening set	4058 Mar 23 13:08	14° Y 53'46		retrograde	4059 Mar 04 07:03	29°) 11'47	
inferior conj	4058 Mar 29 17:16	9° Y 39'38	3°31'53	evening set	4059 Mar 07 09:41	28°)(17'47	
minimum elong	4058 Mar 29 18:25	9° Y 36'33	3°31'49	inferior conj	4059 Mar 13 04:47	22°)(45'21	3°35'58
min. Earth dist.	4058 Apr 01 11:11	6° Ƴ 44'13	0.62793 AU	minimum elong	4059 Mar 13 04:18		3°35'58
morning rise	4058 Apr 04 22:29	3° Y 35'32		min. Earth dist.	4059 Mar 15 07:24		0.64632 AU
direct	4058 Apr 11 19:47	0° Υ 59'17		morning rise	4059 Mar 18 22:18	16°) €34'32	
desc. node	4058 Apr 15 18:12	1° Υ 44'32		direct	4059 Mar 25 16:37	13°)(45'13	
morning max el	4058 Apr 25 19:38	8° Y 57'43	27°49'41	desc. node	4059 Apr 02 15:14	16°){ 48'44	
morning max or	4058 May 12 02:17	0°8	27 15 11	morning max el	4059 Apr 08 05:15	21°) 38'40	27°19'51
	4058 May 29 02:22	0°II		morning max er	4059 Apr 15 12:12	0° Υ	27 17 31
morning set	4058 May 29 22:27	1° ∏ 40'45			4059 May 05 06:17	0° 8	
max. Earth dist.	4058 Jun 04 08:32	1 Д 4 0 4 3	1.32609 AU	morning set	4059 May 13 13:58	15° 8 23'49	
asc. node	4058 Jun 05 17:39	15° I I55'31	1.32009 AU	max. Earth dist.	4059 May 18 07:11		1.33551 AU
asc. nouc	4038 Juli 03 17.39	15 11 33 31		max. Earth dist.	4059 May 20 18:24	0° Ⅱ	1.55551 AU
superior conj	4058 Jun 06 13:25	17° ∏ 42'25	0°08'38		,,	-	
minimum elong	4058 Jun 06 13:00	17° Ⅱ 40'11	0°08'33	superior conj	4059 May 21 17:45	2° Ⅱ 03'08 -	-0°19'26
behind sun begin	4058 Jun 06 08:34	17° Ⅱ 16′08		minimum elong	4059 May 21 18:45	2° Ⅱ 08'25	0°19'13
behind sun end	4058 Jun 06 17:27	18° Ⅱ 04'15		asc. node	4059 May 23 14:40	6° Ⅱ 01'58	
	4058 Jun 12 05:20	0ಂತಿ		evening rise	4059 May 28 23:33	17° Ⅱ 28′23	
evening rise	4058 Jun 13 12:24	2°5946'02		evening rise	4059 Jun 04 05:01	0.2 2	
evening rise					1007 0011 01 00.01		
				evening max el	4059 Jun 19 01:12		22°08'40
evening max el	4058 Jun 28 07:34	$0^{\circ}\Omega$	23°45'15	evening max el	4059 Jun 19 01:12 4059 Jun 29 14:27	21° 5 37'49	22°08'40
evening max el	4058 Jun 28 07:34 4058 Jul 07 10:07	0° Ω 11° Ω 12'50	23°45'15	desc. node	4059 Jun 29 14:27	21° © 37'49 27° © 47'32	22°08'40
desc. node	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27	0°Ω 11°Ω12'50 15°Ω26'40	23°45'15	desc. node retrograde	4059 Jun 29 14:27 4059 Jul 01 21:08	21°©37'49 27°©47'32 27°©59'35	22°08'40
desc. node retrograde	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23	0° N 11° N 12'50 15° N 26'40 18° N 05'03	23°45'15	desc. node retrograde evening set	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44	21°537'49 27°547'32 27°559'35 27°541'25	
desc. node retrograde evening set	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14	0°N 11°N12'50 15°N26'40 18°N05'03 17°N24'41		desc. node retrograde evening set min. Earth dist.	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42	21°S37'49 27°S47'32 27°S59'35 27°S41'25 24°S01'05	0.55021 AU
desc. node retrograde evening set min. Earth dist.	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Jul 31 20:14	0°N 11°N12'50 15°N26'40 18°N05'03 17°N24'41 14°N20'42	0.56061 AU	desc. node retrograde evening set min. Earth dist. inferior conj	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54	21°S37'49 27°S47'32 27°S59'35 27°S41'25 24°S01'05 23°S35'28	0.55021 AU -3°54'08
desc. node retrograde evening set min. Earth dist. inferior conj	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Jul 31 20:14 4058 Aug 03 01:59	0° N 11° N 12'50 15° N 26'40 18° N 05'03 17° N 22'41 14° N 20'42 12° N 59'39	0.56061 AU -4°57'10	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23	21°S37'49 27°S47'32 27°S59'35 27°S41'25 24°S01'05 23°S35'28 23°S47'27	0.55021 AU -3°54'08
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Jul 31 20:14 4058 Aug 03 01:59 4058 Aug 02 21:10	0°A 11°A12'50 15°A26'40 18°A05'03 17°A24'41 14°A20'42 12°A59'39 13°A06'57	0.56061 AU -4°57'10	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23 4059 Jul 22 16:50	21°S37'49 27°S47'32 27°S59'35 27°S41'25 24°S01'05 23°S35'28 23°S47'27 19°S44'50	0.55021 AU -3°54'08
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Jul 31 20:14 4058 Aug 03 01:59 4058 Aug 02 21:10 4058 Aug 11 11:38	0°A 11°N12'50 15°N26'40 18°N05'03 17°N24'41 14°N20'42 12°N59'39 13°N06'57 9°N03'41	0.56061 AU -4°57'10	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23 4059 Jul 22 16:50 4059 Jul 25 20:09	21°S37'49 27°S47'32 27°S59'35 27°S41'25 24°S01'05 23°S35'28 23°S47'27 19°S44'50 19°S22'53	0.55021 AU -3°54'08 3°51'56
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Jul 31 20:14 4058 Aug 03 01:59 4058 Aug 02 21:10 4058 Aug 11 11:38 4058 Aug 14 06:39	0° N 11° N 12'50 15° N 26'40 18° N 05'03 17° N 24'41 14° N 20'42 12° N 59'39 13° N 06'57 9° N 03'41 8° N 44'02	0.56061 AU -4°57'10 4°56'36	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23 4059 Jul 22 16:50 4059 Jul 25 20:09 4059 Aug 06 15:18	21°S37'49 27°S47'32 27°S59'35 27°S41'25 24°S01'05 23°S35'28 23°S47'27 19°S44'50 19°S22'53 24°S53'15	0.55021 AU -3°54'08 3°51'56
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Jul 31 20:14 4058 Aug 03 01:59 4058 Aug 02 21:10 4058 Aug 11 11:38 4058 Aug 14 06:39 4058 Aug 24 10:41	0°A 11°N12'50 15°N26'40 18°N05'03 17°N24'41 14°N20'42 12°N59'39 13°N06'57 9°N03'41 8°N44'02 13°N27'19	0.56061 AU -4°57'10	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23 4059 Jul 22 16:50 4059 Jul 25 20:09 4059 Aug 06 15:18 4059 Aug 11 07:02	21°\$37'49 27°\$47'32 27°\$59'35 27°\$41'25 24°\$01'05 23°\$35'28 23°\$47'27 19°\$44'50 19°\$22'53 24°\$53'15 0°\$\Omega\$	0.55021 AU -3°54'08 3°51'56
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Jul 31 20:14 4058 Aug 03 01:59 4058 Aug 02 21:10 4058 Aug 11 11:38 4058 Aug 14 06:39 4058 Aug 24 10:41 4058 Sep 01 16:54	0°A 11°N12'50 15°N26'40 18°N05'03 17°N24'41 14°N20'42 12°N59'39 13°N06'57 9°N03'41 8°N44'02 13°N27'19 24°N02'04	0.56061 AU -4°57'10 4°56'36	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23 4059 Jul 22 16:50 4059 Jul 25 20:09 4059 Aug 06 15:18 4059 Aug 11 07:02 4059 Aug 19 13:56	21°\$37'49 27°\$47'32 27°\$59'35 27°\$41'25 24°\$01'05 23°\$35'28 23°\$47'27 19°\$44'50 19°\$22'53 24°\$53'15 0°\$ 12°\$\Omega\$1'13	0.55021 AU -3°54'08 3°51'56
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Jul 31 20:14 4058 Aug 03 01:59 4058 Aug 02 21:10 4058 Aug 11 11:38 4058 Aug 14 06:39 4058 Aug 24 10:41 4058 Sep 01 16:54 4058 Sep 05 04:21	0°A 11°N12'50 15°N26'40 18°N05'03 17°N24'41 14°N20'42 12°N59'39 13°N06'57 9°N03'41 8°N44'02 13°N27'19 24°N02'04 0°M	0.56061 AU -4°57'10 4°56'36	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23 4059 Jul 22 16:50 4059 Jul 25 20:09 4059 Aug 06 15:18 4059 Aug 11 07:02 4059 Aug 19 13:56 4059 Aug 26 22:54	21°\$37'49 27°\$47'32 27°\$59'35 27°\$41'25 24°\$01'05 23°\$35'28 23°\$47'27 19°\$44'50 19°\$22'53 24°\$53'15 0°\$\Omega\$ 12°\$\Omega\$47'13 27°\$\Omega\$14'04	0.55021 AU -3°54'08 3°51'56
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Jul 31 20:14 4058 Aug 03 01:59 4058 Aug 02 21:10 4058 Aug 11 11:38 4058 Aug 14 06:39 4058 Aug 24 10:41 4058 Sep 01 16:54	0°A 11°N12'50 15°N26'40 18°N05'03 17°N24'41 14°N20'42 12°N59'39 13°N06'57 9°N03'41 8°N44'02 13°N27'19 24°N02'04	0.56061 AU -4°57'10 4°56'36	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23 4059 Jul 22 16:50 4059 Jul 25 20:09 4059 Aug 06 15:18 4059 Aug 11 07:02 4059 Aug 19 13:56	21°\$37'49 27°\$47'32 27°\$59'35 27°\$41'25 24°\$01'05 23°\$35'28 23°\$47'27 19°\$44'50 19°\$22'53 24°\$53'15 0°\$ 12°\$\Omega\$1'13	0.55021 AU -3°54'08 3°51'56
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Jul 31 20:14 4058 Aug 03 01:59 4058 Aug 02 21:10 4058 Aug 11 11:38 4058 Aug 14 06:39 4058 Aug 24 10:41 4058 Sep 01 16:54 4058 Sep 05 04:21 4058 Sep 11 14:12	0°A 11°N12'50 15°N26'40 18°N05'03 17°N24'41 14°N20'42 12°N59'39 13°N06'57 9°N03'41 8°N44'02 13°N27'19 24°N02'04 0°M	0.56061 AU -4°57'10 4°56'36 20°02'35	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23 4059 Jul 22 16:50 4059 Jul 25 20:09 4059 Aug 06 15:18 4059 Aug 11 07:02 4059 Aug 19 13:56 4059 Aug 26 22:54	21°\$37'49 27°\$47'32 27°\$59'35 27°\$41'25 24°\$01'05 23°\$35'28 - 23°\$47'27 19°\$24'50 19°\$22'53 24°\$53'15 0°\$\Omega\$ 12°\$\Omega\$47'13 27°\$\Omega\$14'04 0°\$\Omega\$	0.55021 AU -3°54'08 3°51'56
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Jul 31 20:14 4058 Aug 03 01:59 4058 Aug 02 21:10 4058 Aug 11 11:38 4058 Aug 14 06:39 4058 Aug 24 10:41 4058 Sep 01 16:54 4058 Sep 11 14:12 4058 Sep 19 07:43	0° N 11° N 12'50 15° N 26'40 18° N 05'03 17° N 24'41 14° N 20'42 12° N 59'39 13° N 06'57 9° N 03'41 8° N 44'02 13° N 27'19 24° N 02'04 0° M 12° M 28'15	0.56061 AU -4°57'10 4°56'36 20°02'35	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23 4059 Jul 22 16:50 4059 Jul 25 20:09 4059 Aug 06 15:18 4059 Aug 11 07:02 4059 Aug 19 13:56 4059 Aug 26 22:54 4059 Aug 28 06:42	21°\$37'49 27°\$47'32 27°\$59'35 27°\$41'25 24°\$01'05 23°\$35'28 23°\$47'27 19°\$44'50 19°\$22'53 24°\$53'15 0°\$\Omega\$ 12°\$\Omega\$4'13 27°\$\Omega\$14'04 0°\$\Omega\$	0.55021 AU -3°54'08 3°51'56 21°27'28
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Jul 31 20:14 4058 Aug 03 01:59 4058 Aug 02 21:10 4058 Aug 11 11:38 4058 Aug 14 06:39 4058 Aug 24 10:41 4058 Sep 01 16:54 4058 Sep 11 14:12 4058 Sep 19 07:43 4058 Sep 19 08:32	0°A 11°A12'50 15°A26'40 18°A05'03 17°A24'41 14°A20'42 12°A59'39 13°A06'57 9°A03'41 8°A44'02 13°A27'19 24°A02'04 0°M 12°M28'15	0.56061 AU -4°57'10 4°56'36 20°02'35	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23 4059 Jul 22 16:50 4059 Jul 25 20:09 4059 Aug 06 15:18 4059 Aug 11 07:02 4059 Aug 19 13:56 4059 Aug 26 22:54 4059 Aug 28 06:42 4059 Sep 03 06:10 4059 Sep 03 05:31	21°\$37'49 27°\$47'32 27°\$59'35 27°\$41'25 24°\$01'05 23°\$35'28 23°\$47'27 19°\$44'50 19°\$22'53 24°\$53'15 0°\$\Omega\$ 12°\$\Omega\$47'13 27°\$\Omega\$14'04 0°\$\Omega\$ 12°\$\Omega\$3'34 12°\$\Omega\$3'13	0.55021 AU -3°54'08 3°51'56 21°27'28
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Jul 31 20:14 4058 Aug 03 01:59 4058 Aug 02 21:10 4058 Aug 11 11:38 4058 Aug 14 06:39 4058 Aug 24 10:41 4058 Sep 01 16:54 4058 Sep 11 14:12 4058 Sep 19 07:43 4058 Sep 19 08:32 4058 Sep 20 05:14	0° N 11° N 12'50 15° N 26'40 18° N 05'03 17° N 24'41 14° N 20'42 12° N 59'39 13° N 06'57 9° N 03'41 8° N 44'02 13° N 27'19 24° N 02'04 0° M 12° M 28'15 28° M 12'36 28° M 16'42	0.56061 AU -4°57'10 4°56'36 20°02'35 1°43'20 1°43'18	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23 4059 Jul 22 16:50 4059 Jul 25 20:09 4059 Aug 06 15:18 4059 Aug 11 07:02 4059 Aug 19 13:56 4059 Aug 26 22:54 4059 Aug 28 06:42 4059 Sep 03 06:10 4059 Sep 03 05:31 4059 Sep 07 08:43	21°\$37'49 27°\$47'32 27°\$59'35 27°\$41'25 24°\$01'05 23°\$35'28 23°\$47'27 19°\$44'50 19°\$22'53 24°\$53'15 0°\$\Omega\$ 12°\$\Omega\$47'13 27°\$\Omega\$14'04 0°\$\Omega\$ 12°\$\Omega\$3'34 12°\$\Omega\$3'13 20°\$\Omega\$57'23	0.55021 AU -3°54'08 3°51'56 21°27'28 1°43'27 1°43'26
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Jul 31 20:14 4058 Aug 03 01:59 4058 Aug 02 21:10 4058 Aug 11 11:38 4058 Aug 14 06:39 4058 Aug 24 10:41 4058 Sep 01 16:54 4058 Sep 05 04:21 4058 Sep 11 14:12 4058 Sep 19 07:43 4058 Sep 19 08:32 4058 Sep 20 05:14 4058 Sep 24 21:32	0°A 11°A12'50 15°A26'40 18°A05'03 17°A24'41 14°A20'42 12°A59'39 13°A06'57 9°A03'41 8°A44'02 13°A27'19 24°A02'04 0°M 12°M28'15 28°M12'36 28°M16'42 0°A 9°A05'49	0.56061 AU -4°57'10 4°56'36 20°02'35	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23 4059 Jul 22 16:50 4059 Jul 25 20:09 4059 Aug 06 15:18 4059 Aug 11 07:02 4059 Aug 19 13:56 4059 Aug 26 22:54 4059 Aug 28 06:42 4059 Sep 03 06:10 4059 Sep 03 05:31 4059 Sep 11 15:37	21°\$37'49 27°\$47'32 27°\$59'35 27°\$41'25 24°\$01'05 23°\$35'28 23°\$47'27 19°\$44'50 19°\$22'53 24°\$53'15 0°\$\Omega\$ 12°\$\Omega\$47'13 27°\$\Omega\$14'04 0°\$\Omega\$ 12°\$\Omega\$3'34 12°\$\Omega\$3'13 20°\$\Omega\$57'23 29°\$\Omega\$20'10	0.55021 AU -3°54'08 3°51'56 21°27'28 1°43'27 1°43'26
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Jul 31 20:14 4058 Aug 03 01:59 4058 Aug 02 21:10 4058 Aug 11 11:38 4058 Aug 14 06:39 4058 Aug 24 10:41 4058 Sep 01 16:54 4058 Sep 05 04:21 4058 Sep 11 14:12 4058 Sep 19 07:43 4058 Sep 19 08:32 4058 Sep 20 05:14 4058 Sep 24 21:32 4058 Sep 28 17:08	0°A 11°A12'50 15°A26'40 18°A05'03 17°A24'41 14°A20'42 12°A59'39 13°A06'57 9°A03'41 8°A44'02 13°A27'19 24°A02'04 0°M 12°M28'15 28°M12'36 28°M16'42 0°A 9°A05'49 16°A10'35	0.56061 AU -4°57'10 4°56'36 20°02'35 1°43'20 1°43'18	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23 4059 Jul 22 16:50 4059 Jul 25 20:09 4059 Aug 06 15:18 4059 Aug 11 07:02 4059 Aug 19 13:56 4059 Aug 26 22:54 4059 Aug 28 06:42 4059 Sep 03 06:10 4059 Sep 03 05:31 4059 Sep 11 15:37 4059 Sep 12 00:00	21°\$37'49 27°\$47'32 27°\$59'35 27°\$41'25 24°\$01'05 23°\$35'28 23°\$47'27 19°\$44'50 19°\$22'53 24°\$53'15 0°\$\Omega\$ 12°\$\Omega\$47'13 27°\$\Omega\$14'04 0°\$\Omega\$ 12°\$\Omega\$33'34 12°\$\Omega\$30'13 20°\$\Omega\$57'23 29°\$\Omega\$20'10 0°\$\Omega\$	0.55021 AU -3°54'08 3°51'56 21°27'28 1°43'27 1°43'26
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Aug 03 01:59 4058 Aug 02 21:10 4058 Aug 11 11:38 4058 Aug 14 06:39 4058 Aug 14 06:39 4058 Sep 01 16:54 4058 Sep 05 04:21 4058 Sep 11 14:12 4058 Sep 19 07:43 4058 Sep 19 08:32 4058 Sep 20 05:14 4058 Sep 24 21:32 4058 Sep 28 17:08 4058 Oct 06 17:09	0°A 11°A12'50 15°A26'40 18°A05'03 17°A24'41 14°A20'42 12°A59'39 13°A06'57 9°A03'41 8°A4'02 13°A27'19 24°A02'04 0°M 12°M28'15 28°M12'36 28°M16'42 0°Ω 9°Ω05'49 16°Ω10'35 0°M	0.56061 AU -4°57'10 4°56'36 20°02'35 1°43'20 1°43'18	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23 4059 Jul 22 16:50 4059 Jul 25 20:09 4059 Aug 06 15:18 4059 Aug 11 07:02 4059 Aug 19 13:56 4059 Aug 26 22:54 4059 Aug 28 06:42 4059 Sep 03 06:10 4059 Sep 03 05:31 4059 Sep 07 08:43 4059 Sep 11 15:37 4059 Sep 12 00:00 4059 Sep 25 13:48	21°\$37'49 27°\$47'32 27°\$59'35 27°\$41'25 24°\$01'05 23°\$35'28 23°\$47'27 19°\$44'50 19°\$22'53 24°\$53'15 0°\$\Omega\$ 12°\$\Omega\$47'13 27°\$\Omega\$14'04 0°\$\Omega\$ 12°\$\Omega\$3'34 12°\$\Omega\$30'13 20°\$\Omega\$57'23 29°\$\Omega\$20'10 0°\$\Omega\$ 23°\$\Omega\$27'54	0.55021 AU -3°54'08 3°51'56 21°27'28 1°43'27 1°43'26
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Aug 03 01:59 4058 Aug 02 21:10 4058 Aug 11 11:38 4058 Aug 14 06:39 4058 Aug 24 10:41 4058 Sep 01 16:54 4058 Sep 19 07:43 4058 Sep 19 07:43 4058 Sep 19 08:32 4058 Sep 20 05:14 4058 Sep 24 21:32 4058 Sep 28 17:08 4058 Oct 06 17:09 4058 Oct 08 16:49	0° R 11° R 12'50 15° R 26'40 18° R 05'03 17° R 24'41 14° R 20'42 12° R 59'39 13° R 06'57 9° R 03'41 8° R 44'02 13° R 27'19 24° R 02'04 0° M 12° M 28'15 28° M 12'36 28° M 16'42 0° Ω 9° Ω 05'49 16° Ω 10'35 0° M 3° M 13'42	0.56061 AU -4°57'10 4°56'36 20°02'35 1°43'20 1°43'18	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23 4059 Jul 22 16:50 4059 Jul 25 20:09 4059 Aug 06 15:18 4059 Aug 11 07:02 4059 Aug 19 13:56 4059 Aug 19 13:56 4059 Aug 26 22:54 4059 Aug 28 06:42 4059 Sep 03 06:10 4059 Sep 03 05:31 4059 Sep 11 15:37 4059 Sep 12 00:00 4059 Sep 25 13:48 4059 Sep 29 21:02	21°\$37'49 27°\$47'32 27°\$59'35 27°\$41'25 24°\$01'05 23°\$35'28 23°\$47'27 19°\$44'50 19°\$22'53 24°\$53'15 0°\$Ω 12°\$Ω47'13 27°\$Ω14'04 0°\$	0.55021 AU -3°54'08 3°51'56 21°27'28 1°43'27 1°43'26 1.35110 AU
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Aug 03 01:59 4058 Aug 02 21:10 4058 Aug 11 11:38 4058 Aug 14 06:39 4058 Aug 24 10:41 4058 Sep 01 16:54 4058 Sep 05 04:21 4058 Sep 19 07:43 4058 Sep 19 07:43 4058 Sep 19 08:32 4058 Sep 24 21:32 4058 Sep 28 17:08 4058 Oct 06 17:09 4058 Oct 08 16:49 4058 Oct 27 13:09	0° A 11° A12'50 15° A26'40 18° A05'03 17° A24'41 14° A20'42 12° A59'39 13° A06'57 9° A03'41 8° A44'02 13° A27'19 24° A02'04 0° m 12° m 28'15 28° m 12'36 28° m 16'42 0° Ω 9° Ω05'49 16° Ω10'35 0° m 3° M 13'42 0° ズ	0.56061 AU -4°57'10 4°56'36 20°02'35 1°43'20 1°43'18 1.36885 AU	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23 4059 Jul 22 16:50 4059 Jul 25 20:09 4059 Aug 06 15:18 4059 Aug 11 07:02 4059 Aug 19 13:56 4059 Aug 26 22:54 4059 Aug 28 06:42 4059 Sep 03 06:10 4059 Sep 03 05:31 4059 Sep 07 08:43 4059 Sep 11 15:37 4059 Sep 12 00:00 4059 Sep 25 13:48 4059 Sep 29 21:02 4059 Oct 16 23:23	21°\$37'49 27°\$47'32 27°\$59'35 27°\$41'25 24°\$01'05 23°\$35'28 23°\$47'27 19°\$44'50 19°\$22'53 24°\$53'15 0°\$Ω 12°\$Ω47'13 27°\$Ω14'04 0°\$	0.55021 AU -3°54'08 3°51'56 21°27'28 1°43'27 1°43'26
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Aug 03 01:59 4058 Aug 02 21:10 4058 Aug 11 11:38 4058 Aug 14 06:39 4058 Aug 24 10:41 4058 Sep 01 16:54 4058 Sep 05 04:21 4058 Sep 19 07:43 4058 Sep 19 07:43 4058 Sep 19 08:32 4058 Sep 20 05:14 4058 Sep 24 21:32 4058 Sep 28 17:08 4058 Oct 06 17:09 4058 Oct 07 13:09 4058 Nov 03 10:58	0° A 11° A12'50 15° A26'40 18° A05'03 17° A24'41 14° A20'42 12° A59'39 13° A06'57 9° A03'41 8° A44'02 13° A27'19 24° A02'04 0° m 12° m 28'15 28° m 12'36 28° m 16'42 0° Ω 9° Ω05'49 16° Ω10'35 0° M 3° M 13'42 0° ズ 7° ズ37'36	0.56061 AU -4°57'10 4°56'36 20°02'35 1°43'20 1°43'18 1.36885 AU	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23 4059 Jul 22 16:50 4059 Jul 25 20:09 4059 Aug 06 15:18 4059 Aug 11 07:02 4059 Aug 11 07:02 4059 Aug 19 13:56 4059 Aug 26 22:54 4059 Aug 28 06:42 4059 Sep 03 06:10 4059 Sep 03 05:31 4059 Sep 07 08:43 4059 Sep 11 15:37 4059 Sep 12 00:00 4059 Sep 25 13:48 4059 Sep 29 21:02 4059 Oct 16 23:23 4059 Oct 29 23:40	21°\$37'49 27°\$47'32 27°\$59'35 27°\$41'25 24°\$01'05 23°\$35'28 23°\$47'27 19°\$44'50 19°\$22'53 24°\$53'15 0°\$\Omega\$ 12°\$\Omega\$4'13 27°\$\Omega\$14'04 0°\$\Omega\$ 12°\$\Omega\$3'34 12°\$\Omega\$3'34 12°\$\Omega\$3'13 20°\$\Omega\$57'23 29°\$\Omega\$20'10 0°\$\Omega\$ 23°\$\Omega\$27'54 0°\$\Omega\$ 21°\$\Omega\$14'44	0.55021 AU -3°54'08 3°51'56 21°27'28 1°43'27 1°43'26 1.35110 AU
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Jul 31 20:14 4058 Aug 03 01:59 4058 Aug 02 21:10 4058 Aug 11 11:38 4058 Aug 14 06:39 4058 Aug 24 10:41 4058 Sep 01 16:54 4058 Sep 05 04:21 4058 Sep 19 07:43 4058 Sep 19 08:32 4058 Sep 19 08:32 4058 Sep 20 05:14 4058 Sep 24 21:32 4058 Sep 28 17:08 4058 Oct 06 17:09 4058 Oct 08 16:49 4058 Nov 03 10:58 4058 Nov 15 18:43	0° \(\alpha\) 11° \(\alpha\) 12'50 15° \(\alpha\) 26'40 18° \(\alpha\) 05'03 17° \(\alpha\) 24'41 14° \(\alpha\) 20'42 12° \(\alpha\) 59'39 13° \(\alpha\) 06'57 9° \(\alpha\) 03'41 8° \(\alpha\) 40'204 0° \(\mathred{m}\) 12° \(\mathred{m}\) 28'15 28° \(\mathred{m}\) 12'36 28° \(\mathred{m}\) 16'42 0° \(\alpha\) 9° \(\alpha\) 05'49 16° \(\alpha\) 10'35 0° \(\mathred{m}\) 3° \(\mathred{m}\) 13'42 0° \(\neq \neq \neq \neq \alpha\) 7° \(\neq \neq \neq \neq \neq \neq \neq \neq	0.56061 AU -4°57'10 4°56'36 20°02'35 1°43'20 1°43'18 1.36885 AU	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23 4059 Jul 22 16:50 4059 Jul 25 20:09 4059 Aug 06 15:18 4059 Aug 11 07:02 4059 Aug 19 13:56 4059 Aug 28 06:42 4059 Sep 03 06:10 4059 Sep 03 05:31 4059 Sep 07 08:43 4059 Sep 11 15:37 4059 Sep 12 00:00 4059 Sep 25 13:48 4059 Sep 29 21:02 4059 Oct 16 23:23 4059 Oct 29 23:40 4059 Nov 05 13:31	21°\$37'49 27°\$47'32 27°\$59'35 27°\$41'25 24°\$01'05 23°\$35'28 23°\$47'27 19°\$24'50 19°\$22'53 24°\$53'15 0°\$\Omega\$14'04 0°\$\Omega\$12'\$\Omega\$3'34 12°\$\Omega\$3'34 12°\$\Omega\$3'34 12°\$\Omega\$3'34 12°\$\Omega\$3'13 20°\$\Omega\$57'23 29°\$\Omega\$20'10 0°\$\Omega\$23°\$\Omega\$27'54 0°\$\Omega\$1"\L16'24 28°\$\Omega\$31'44 25°\$\Omega\$52'13	0.55021 AU -3°54'08 3°51'56 21°27'28 1°43'27 1°43'26 1.35110 AU 26°41'33
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Aug 03 01:59 4058 Aug 02 21:10 4058 Aug 11 11:38 4058 Aug 14 06:39 4058 Aug 24 10:41 4058 Sep 01 16:54 4058 Sep 05 04:21 4058 Sep 19 07:43 4058 Sep 19 08:32 4058 Sep 20 05:14 4058 Sep 20 05:14 4058 Sep 21 17:08 4058 Oct 06 17:09 4058 Oct 07 13:09 4058 Nov 03 10:58 4058 Nov 15 18:43 4058 Nov 21 19:44	0° \(\alpha\) 11° \(\alpha\) 12'50 15° \(\alpha\) 26'40 18° \(\alpha\) 05'03 17° \(\alpha\) 24'41 14° \(\alpha\) 20'42 12° \(\alpha\) 59'39 13° \(\alpha\) 06'57 9° \(\alpha\) 03'41 8° \(\alpha\) 4'02 13° \(\alpha\) 22'04 0° \(\mathred{m}\) 12° \(\mathred{m}\) 28'15 28° \(\mathred{m}\) 12'36 28° \(\mathred{m}\) 12'36 28° \(\mathred{m}\) 16'42 0° \(\mathred{m}\) 9° \(\mathred{m}\) 05'49 16° \(\mathred{m}\) 10'35 0° \(\mathred{m}\) 3° \(\mathred{m}\) 13'42 0° \(\star*\) 7° \(\star*\) 37'36 14° \(\star*\) 40'25 12° \(\star*\) 09'58	0.56061 AU -4°57'10 4°56'36 20°02'35 1°43'20 1°43'18 1.36885 AU	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23 4059 Jul 22 16:50 4059 Jul 25 20:09 4059 Aug 06 15:18 4059 Aug 11 07:02 4059 Aug 19 13:56 4059 Aug 26 22:54 4059 Aug 28 06:42 4059 Sep 03 06:10 4059 Sep 03 05:31 4059 Sep 07 08:43 4059 Sep 11 15:37 4059 Sep 12 00:00 4059 Sep 25 13:48 4059 Sep 29 21:02 4059 Oct 16 23:23 4059 Nov 05 13:31 4059 Nov 09 14:41	21°\$37'49 27°\$47'32 27°\$59'35 27°\$41'25 24°\$01'05 23°\$35'28 23°\$47'27 19°\$44'50 19°\$22'53 24°\$53'15 0°\$\Omega\$115 0°\$\Omega\$12°\$\Omega\$4'04 0°\$\Omega\$12°\$\Omega\$3'34 12°\$\Omega\$3'34 12°\$\Omega\$3'34 12°\$\Omega\$3'34 12°\$\Omega\$3'34 12°\$\Omega\$3'13 20°\$\Omega\$57'23 29°\$\Omega\$20'10 0°\$\Omega\$23°\$\Omega\$27'54 0°\$\Omega\$1.6'24 28°\$\Omega\$31'44 25°\$\Omega\$52'13 21°\$\Omega\$1.45'03	0.55021 AU -3°54'08 3°51'56 21°27'28 1°43'27 1°43'26 1.35110 AU 26°41'33
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	4058 Jun 28 07:34 4058 Jul 07 10:07 4058 Jul 12 17:27 4058 Jul 21 02:23 4058 Jul 25 09:14 4058 Jul 31 20:14 4058 Aug 03 01:59 4058 Aug 02 21:10 4058 Aug 11 11:38 4058 Aug 14 06:39 4058 Aug 24 10:41 4058 Sep 01 16:54 4058 Sep 05 04:21 4058 Sep 19 07:43 4058 Sep 19 08:32 4058 Sep 19 08:32 4058 Sep 20 05:14 4058 Sep 24 21:32 4058 Sep 28 17:08 4058 Oct 06 17:09 4058 Oct 08 16:49 4058 Nov 03 10:58 4058 Nov 15 18:43	0° \(\alpha\) 11° \(\alpha\) 12'50 15° \(\alpha\) 26'40 18° \(\alpha\) 05'03 17° \(\alpha\) 24'41 14° \(\alpha\) 20'42 12° \(\alpha\) 59'39 13° \(\alpha\) 06'57 9° \(\alpha\) 03'41 8° \(\alpha\) 4'02 13° \(\alpha\) 22'04 0° \(\mathred{m}\) 12° \(\mathred{m}\) 28'15 28° \(\mathred{m}\) 12'36 28° \(\mathred{m}\) 12'36 28° \(\mathred{m}\) 16'42 0° \(\mathred{m}\) 9° \(\mathred{m}\) 05'49 16° \(\mathred{m}\) 10'35 0° \(\mathred{m}\) 3° \(\mathred{m}\) 13'42 0° \(\star*\) 7° \(\star*\) 37'36 14° \(\star*\) 40'25 12° \(\star*\) 09'58	0.56061 AU -4°57'10 4°56'36 20°02'35 1°43'20 1°43'18 1.36885 AU 25°43'35	desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	4059 Jun 29 14:27 4059 Jul 01 21:08 4059 Jul 04 17:44 4059 Jul 13 06:42 4059 Jul 14 00:54 4059 Jul 13 16:23 4059 Jul 22 16:50 4059 Jul 25 20:09 4059 Aug 06 15:18 4059 Aug 11 07:02 4059 Aug 19 13:56 4059 Aug 28 06:42 4059 Sep 03 06:10 4059 Sep 03 05:31 4059 Sep 07 08:43 4059 Sep 11 15:37 4059 Sep 12 00:00 4059 Sep 25 13:48 4059 Sep 29 21:02 4059 Oct 16 23:23 4059 Oct 29 23:40 4059 Nov 05 13:31	21°\$37'49 27°\$47'32 27°\$59'35 27°\$41'25 24°\$01'05 23°\$35'28 23°\$47'27 19°\$24'50 19°\$22'53 24°\$53'15 0°\$\Omega\$14'04 0°\$\Omega\$12'\$\Omega\$3'34 12°\$\Omega\$3'34 12°\$\Omega\$3'34 12°\$\Omega\$3'34 12°\$\Omega\$3'13 20°\$\Omega\$57'23 29°\$\Omega\$20'10 0°\$\Omega\$23°\$\Omega\$27'54 0°\$\Omega\$1"\L16'24 28°\$\Omega\$31'44 25°\$\Omega\$52'13	0.55021 AU -3°54'08 3°51'56 21°27'28 1°43'27 1°43'26 1.35110 AU 26°41'33 0.65988 AU -1°24'34

asc. node	4059 Nov 15 13:08	15° M .14'59		min. Earth dist.	4060 Oct 22 17:51	5° M L48'31	0.64622 AU
morning rise	4059 Nov 17 10:58	13°M55'55		inferior conj	4060 Oct 25 00:46	3°M19'49	
direct	4059 Nov 20 08:10	13°M09'37		minimum elong	4060 Oct 25 04:54	3°ML08'38	2°24'30
morning max el	4059 Nov 26 22:14	16°M44'27	18°24'22	C	4060 Oct 28 08:07	30° ₹ Ω	
_	4059 Dec 06 18:32	0°⊀		morning rise	4060 Oct 31 12:15	27° £ 51′26	
morning set	4059 Dec 16 14:26	15° ∡ ³39'47		asc. node	4060 Nov 01 10:12	27° ≙ 31'16	
desc. node	4059 Dec 22 13:06	25° х 10′34		direct	4060 Nov 03 02:25	27° ≙ 16'36	
	4059 Dec 25 14:00	5°0			4060 Nov 08 20:04	0° M .	
				morning max el	4060 Nov 09 14:12	0°M43'06	17°58'25
superior conj	4060 Jan 01 04:21	10°る23'55	-1°02'49	morning set	4060 Nov 27 00:53	27° M 04'44	
minimum elong	4059 Dec 31 20:41	9° る 53'48	1°01'51		4060 Nov 28 18:40	0°⊀	
max. Earth dist.	4060 Jan 02 07:49	12° る 11'37	1.45264 AU	desc. node	4060 Dec 08 10:07	15° ₹ 53'41	
	4060 Jan 13 16:22	0°≈					
evening rise	4060 Jan 17 06:05	5° ≈ 37'11		superior conj	4060 Dec 10 15:48	19° ∡ ¹29'56	-0°15'22
greatest brilliancy	4060 Jan 27 12:12	21° ≈ 43′07	-0.8m	minimum elong	4060 Dec 10 13:57	19° ∡ 22'28	0°15'06
	4060 Feb 02 00:09	0° ∀		behind sun begin	4060 Dec 10 10:12	19° ∡ 107′25	
evening max el	4060 Feb 09 03:33	9°) €06'04	19°09'03	behind sun end	4060 Dec 10 17:42	19° ∡ ³37'31	
asc. node	4060 Feb 11 12:24	11°) 13'19		max. Earth dist.	4060 Dec 15 02:41	26° х 35′12	1.44859 AU
retrograde	4060 Feb 16 02:44	13°) €03'38			4060 Dec 17 06:41	0°ප	
evening set	4060 Feb 19 12:04	11°) ₹ 56'44		evening rise	4060 Dec 26 21:30	14° පි 56'32	
inferior conj	4060 Feb 25 01:16	6° ₩ 08'07	3°24'39		4061 Jan 05 18:13	0° ≈	
minimum elong	4060 Feb 24 23:35	6°) 1 3′27	3°24'26	greatest brilliancy	4061 Jan 10 08:03	6° ≈ 49'49	-0.6m
min. Earth dist.	4060 Feb 26 12:33	4° 升 15′27	0.66091 AU	evening max el	4061 Jan 22 08:21	22° ≈ 37'59	20°03'03
morning rise	4060 Mar 01 10:46	29° ≈ 54'29		asc. node	4061 Jan 28 09:27	26° ≈ 52′23	
	4060 Mar 01 08:19	30° ₹ ≈		retrograde	4061 Jan 30 00:36	27° ≈ 06'48	
direct	4060 Mar 07 20:12	27° ≈ 05'31		evening set	4061 Feb 02 18:01	25° ≈ 45'53	
	4060 Mar 15 06:19	0° ∀		inferior conj	4061 Feb 08 03:47	19° ≈ 43'23	3°01'28
desc. node	4060 Mar 19 12:16	3°) 34′50		minimum elong	4061 Feb 08 01:27	19° ≈ 51'13	3°00'57
morning max el	4060 Mar 20 15:11	4°) 41′06	26°20'59	min. Earth dist.	4061 Feb 09 00:55	18° ≈ 32'23	0.67137 AU
	4060 Apr 08 23:37	0 ° \mathbf{Y}		morning rise	4061 Feb 13 08:40	13° ≈ 29′23	
morning set	4060 Apr 25 17:18	28° Y 27′07		direct	4061 Feb 19 05:28	10° ≈ 52'01	
	4060 Apr 26 13:02	0°8		morning max el	4061 Mar 02 23:56	17° ≈ 54'08	25°02'20
max. Earth dist.	4060 Apr 29 18:28	6° 8 12'48	1.34956 AU	desc. node	4061 Mar 06 09:20	21° ≈ 34'25	
		4.4			4061 Mar 13 03:39	0° ∀	
superior conj	4060 May 04 15:20	15° 8 59'05			4061 Apr 02 00:26	0° Υ	
minimum elong	4060 May 04 17:56	16° 8 12'24	0°48'05	morning set	4061 Apr 08 03:37	10° Ƴ 36'58	
asc. node	4060 May 09 11:41	26° 8 02'20		max. Earth dist.	4061 Apr 11 18:49	17° Ƴ 13'48	1.36793 AU
	4060 May 11 09:20	Π $^{\circ}0$				••	
evening rise	4060 May 12 08:01	1° ∏ 57′28		superior conj	4061 Apr 18 03:17	29° Y 22'32	
	4060 May 28 18:39	0.22 0.22	2004214	minimum elong	4061 Apr 18 07:21	29° Y 42'31	1°16'29
evening max el	4060 May 31 01:52	2°527'48	20°42'14		4061 Apr 18 10:54	0°8	
retrograde	4060 Jun 11 09:56	8°9500'17		evening rise	4061 Apr 26 11:35	16° 8 06'57	
evening set	4060 Jun 13 11:28	7° © 50'00					
desc. node		E0.		asc. node	4061 Apr 26 08:44	15° 8 52'34	
inferior conj	4060 Jun 15 11:28	7° © 21'38	2000104		4061 May 03 17:05	15° 8 52'34 0°Ⅱ	10000101
•	4060 Jun 22 18:16	3° © 52'44		evening max el	4061 May 03 17:05 4061 May 13 14:53	15° 8 52'34 0°Ⅲ 13°Ⅲ58'18	19°33'21
minimum elong	4060 Jun 22 18:16 4060 Jun 22 12:18	3°©52'44 4°©01'17	2°05'57	evening max el retrograde	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57	15° 8 52'34 0°П 13°П58'18 18°П38'03	19°33'21
•	4060 Jun 22 18:16 4060 Jun 22 12:18 4060 Jun 23 18:33	3°\$52'44 4°\$01'17 3°\$17'59		evening max el retrograde evening set	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57 4061 May 25 04:13	15° ठ 52'34 0°П 13°П58'18 18°П38'03 18°П27'06	19°33'21
minimum elong min. Earth dist.	4060 Jun 22 18:16 4060 Jun 22 12:18 4060 Jun 23 18:33 4060 Jun 30 18:38	3°\$52'44 4°\$01'17 3°\$17'59 30°RII	2°05'57	evening max el retrograde evening set desc. node	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57 4061 May 25 04:13 4061 Jun 02 08:31	15°\\$52'34 0°П 13°П58'18 18°П38'03 18°П27'06 14°П42'00	
minimum elong min. Earth dist. morning rise	4060 Jun 22 18:16 4060 Jun 22 12:18 4060 Jun 23 18:33 4060 Jun 30 18:38 4060 Jul 01 12:34	3°\$52'44 4°\$01'17 3°\$17'59 30°RII 29°II47'15	2°05'57	evening max el retrograde evening set desc. node inferior conj	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57 4061 May 25 04:13 4061 Jun 02 08:31 4061 Jun 02 20:41	15° 8 52'34 0° П 13° П 58'18 18° П 38'03 18° П 27'06 14° П 42'00 14° П 42'43	-0°08'59
minimum elong min. Earth dist.	4060 Jun 22 18:16 4060 Jun 22 12:18 4060 Jun 23 18:33 4060 Jun 30 18:38 4060 Jul 01 12:34 4060 Jul 05 05:27	3°\$52'44 4°\$01'17 3°\$17'59 30°RII 29°II47'15 29°II17'40	2°05'57	evening max el retrograde evening set desc. node inferior conj minimum elong	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57 4061 May 25 04:13 4061 Jun 02 08:31 4061 Jun 02 20:41 4061 Jun 02 20:17	15°₩52'34 0°Ⅲ 13°Ⅲ58'18 18°Ⅲ38'03 18°Ⅲ27'06 14°Ⅲ42'00 14°Ⅲ22'43 14°Ⅲ23'21	-0°08'59 0°08'50
minimum elong min. Earth dist. morning rise direct	4060 Jun 22 18:16 4060 Jun 22 12:18 4060 Jun 23 18:33 4060 Jun 30 18:38 4060 Jul 01 12:34 4060 Jul 05 05:27 4060 Jul 09 13:41	3°\$52'44 4°\$01'17 3°\$17'59 30°RII 29°II47'15 29°II17'40 0°\$	2°05'57 0.54892 AU	evening max el retrograde evening set desc. node inferior conj minimum elong transit middle	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57 4061 May 25 04:13 4061 Jun 02 08:31 4061 Jun 02 20:41 4061 Jun 02 20:17 4061 Jun 02 20:17	15°₩52'34 0°Ⅲ 13°Ⅲ58'18 18°Ⅲ38'03 18°Ⅲ27'06 14°Ⅲ42'00 14°Ⅲ22'43 14°Ⅲ23'21 14°Ⅲ23'21	-0°08'59
minimum elong min. Earth dist. morning rise	4060 Jun 22 18:16 4060 Jun 22 12:18 4060 Jun 23 18:33 4060 Jun 30 18:38 4060 Jul 01 12:34 4060 Jul 05 05:27 4060 Jul 09 13:41 4060 Jul 18 10:01	3°\$52'44 4°\$01'17 3°\$17'59 30°RII 29°II47'15 29°II17'40 0°\$6 5°\$38'46	2°05'57 0.54892 AU	evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57 4061 May 25 04:13 4061 Jun 02 08:31 4061 Jun 02 20:41 4061 Jun 02 20:17 4061 Jun 02 17:01	15°\\$52'34 0°\П 13°\П58'18 18°\П38'03 18°\П27'06 14°\П42'00 14°\П22'43 14°\П23'21 14°\П23'21 14°\П23'32	-0°08'59 0°08'50
minimum elong min. Earth dist. morning rise direct morning max el	4060 Jun 22 18:16 4060 Jun 22 12:18 4060 Jun 23 18:33 4060 Jun 30 18:38 4060 Jul 01 12:34 4060 Jul 05 05:27 4060 Jul 09 13:41 4060 Jul 18 10:01 4060 Aug 04 09:27	3°\$52'44 4°\$01'17 3°\$17'59 30°RII 29°II47'15 29°II17'40 0°\$ 5°\$38'46 0°\$€	2°05'57 0.54892 AU	evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57 4061 May 25 04:13 4061 Jun 02 08:31 4061 Jun 02 20:17 4061 Jun 02 20:17 4061 Jun 02 17:01 4061 Jun 02 23:32	15°\\$52'34 0°\П 13°\П58'18 18°\П27'06 14°\П42'00 14°\П22'43 14°\П23'21 14°\П23'21 14°\П28'32 14°\П18'10	-0°08'59 0°08'50 0°08'50
minimum elong min. Earth dist. morning rise direct morning max el asc. node	4060 Jun 22 18:16 4060 Jun 22 12:18 4060 Jun 23 18:33 4060 Jun 30 18:38 4060 Jul 01 12:34 4060 Jul 05 05:27 4060 Jul 09 13:41 4060 Jul 18 10:01 4060 Aug 04 09:27 4060 Aug 05 10:59	3°\$52'44 4°\$01'17 3°\$17'59 30°RII 29°II47'15 29°II17'40 0°\$ 5°\$38'46 0°Ω 2°Ω02'16	2°05'57 0.54892 AU	evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist.	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57 4061 May 25 04:13 4061 Jun 02 08:31 4061 Jun 02 20:17 4061 Jun 02 20:17 4061 Jun 02 17:01 4061 Jun 02 23:32 4061 Jun 05 08:19	15° 852'34 0° П 13° П58'18 18° П38'03 18° П27'06 14° П42'00 14° П22'43 14° П23'21 14° П23'21 14° П28'32 14° П18'10 12° П48'16	-0°08'59 0°08'50
minimum elong min. Earth dist. morning rise direct morning max el	4060 Jun 22 18:16 4060 Jun 22 12:18 4060 Jun 23 18:33 4060 Jun 30 18:38 4060 Jul 01 12:34 4060 Jul 05 05:27 4060 Jul 09 13:41 4060 Jul 18 10:01 4060 Aug 04 09:27	3°\$52'44 4°\$01'17 3°\$17'59 30°RII 29°II47'15 29°II17'40 0°\$ 5°\$38'46 0°\$€	2°05'57 0.54892 AU	evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57 4061 May 25 04:13 4061 Jun 02 08:31 4061 Jun 02 20:41 4061 Jun 02 20:17 4061 Jun 02 17:01 4061 Jun 02 23:32 4061 Jun 05 08:19 4061 Jun 11 09:43	15°\\$52'34 0°П 13°П58'18 18°П38'03 18°П27'06 14°П42'00 14°П22'43 14°П23'21 14°П23'21 14°П28'32 14°П18'10 12°П48'16 9°П46'22	-0°08'59 0°08'50 0°08'50
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	4060 Jun 22 18:16 4060 Jun 22 12:18 4060 Jun 23 18:33 4060 Jun 30 18:38 4060 Jul 01 12:34 4060 Jul 05 05:27 4060 Jul 09 13:41 4060 Jul 18 10:01 4060 Aug 04 09:27 4060 Aug 05 10:59 4060 Aug 10 10:00	3°\$52'44 4°\$01'17 3°\$17'59 30°RII 29°II47'15 29°II17'40 0°\$ 5°\$38'46 0°\$ 2°\$\O2'16 12°\$\O6'38	2°05'57 0.54892 AU 23°07'04	evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57 4061 May 25 04:13 4061 Jun 02 08:31 4061 Jun 02 20:41 4061 Jun 02 20:17 4061 Jun 02 17:01 4061 Jun 02 23:32 4061 Jun 05 08:19 4061 Jun 11 09:43 4061 Jun 15 23:28	15°₩52'34 0°Ⅲ 13°Ⅲ58'18 18°Ⅲ38'03 18°Ⅲ27'06 14°Ⅲ42'00 14°Ⅲ22'43 14°Ⅲ23'21 14°Ⅲ23'21 14°Ⅲ28'32 14°Ⅲ18'10 12°Ⅲ48'16 9°Ⅲ46'22 8°Ⅲ59'25	-0°08'59 0°08'50 0°08'50 0.55727 AU
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj	4060 Jun 22 18:16 4060 Jun 22 12:18 4060 Jun 23 18:33 4060 Jun 30 18:38 4060 Jul 01 12:34 4060 Jul 05 05:27 4060 Jul 09 13:41 4060 Jul 18 10:01 4060 Aug 04 09:27 4060 Aug 05 10:59 4060 Aug 10 10:00	3°\$52'44 4°\$01'17 3°\$17'59 30°RII 29°II47'15 29°II17'40 0°\$5 5°\$38'46 0°\$0 2°\$02'16 12°\$06'38 27°\$013'51	2°05'57 0.54892 AU 23°07'04	evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57 4061 May 25 04:13 4061 Jun 02 08:31 4061 Jun 02 20:41 4061 Jun 02 20:17 4061 Jun 02 20:17 4061 Jun 02 17:01 4061 Jun 02 23:32 4061 Jun 05 08:19 4061 Jun 11 09:43 4061 Jun 15 23:28 4061 Jun 29 23:57	15°₩52'34 0°Ⅲ 13°Ⅲ58'18 18°Ⅲ38'03 18°Ⅲ27'06 14°Ⅲ42'00 14°Ⅲ22'43 14°Ⅲ23'21 14°Ⅲ28'32 14°Ⅲ18'10 12°Ⅲ48'16 9°Ⅲ46'22 8°Ⅲ59'25 16°Ⅲ02'21	-0°08'59 0°08'50 0°08'50
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	4060 Jun 22 18:16 4060 Jun 22 12:18 4060 Jun 23 18:33 4060 Jun 30 18:38 4060 Jul 01 12:34 4060 Jul 05 05:27 4060 Jul 09 13:41 4060 Jul 18 10:01 4060 Aug 04 09:27 4060 Aug 05 10:59 4060 Aug 10 10:00 4060 Aug 17 11:18 4060 Aug 17 09:37	3°\$52'44 4°\$01'17 3°\$17'59 30°RII 29°II47'15 29°II17'40 0°\$5 5°\$38'46 0°\$A 2°\$\O2'16 12°\$\O6'38 27°\$\O13'51 27°\$\O4'50	2°05'57 0.54892 AU 23°07'04	evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57 4061 May 25 04:13 4061 Jun 02 08:31 4061 Jun 02 20:41 4061 Jun 02 20:17 4061 Jun 02 17:01 4061 Jun 02 23:32 4061 Jun 05 08:19 4061 Jun 11 09:43 4061 Jun 15 23:28 4061 Jun 29 23:57 4061 Jul 11 05:39	15°♥52'34 0°Ⅲ 13°Ⅲ58'18 18°Ⅲ38'03 18°Ⅲ27'06 14°Ⅲ42'00 14°Ⅲ22'43 14°Ⅲ23'21 14°Ⅲ28'32 14°Ⅲ28'32 14°Ⅲ18'10 12°Ⅲ48'16 9°Ⅲ46'22 8°Ⅲ59'25 16°Ⅲ02'21 0°☞	-0°08'59 0°08'50 0°08'50 0.55727 AU
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	4060 Jun 22 18:16 4060 Jun 22 12:18 4060 Jun 23 18:33 4060 Jun 30 18:38 4060 Jul 01 12:34 4060 Jul 05 05:27 4060 Jul 09 13:41 4060 Jul 18 10:01 4060 Aug 04 09:27 4060 Aug 05 10:59 4060 Aug 17 11:18 4060 Aug 17 09:37 4060 Aug 18 18:27	3°\$52'44 4°\$01'17 3°\$17'59 30°RII 29°II47'15 29°II17'40 0°\$ 5°\$38'46 0°\$\Omega\$2°\$\Omega\$02'16 12°\$\Omega\$06'38 27°\$\Omega\$13'51 27°\$\Omega\$04'50 0°\$\Omega\$	2°05'57 0.54892 AU 23°07'04 1°37'03 1°36'55	evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57 4061 May 25 04:13 4061 Jun 02 08:31 4061 Jun 02 20:41 4061 Jun 02 20:17 4061 Jun 02 17:01 4061 Jun 02 23:32 4061 Jun 05 08:19 4061 Jun 11 09:43 4061 Jun 15 23:28 4061 Jun 29 23:57 4061 Jul 11 05:39 4061 Jul 23 08:01	15°♥52'34 0°Ⅲ 13°Ⅲ58'18 18°Ⅲ38'03 18°Ⅲ27'06 14°Ⅲ42'00 14°Ⅲ22'43 14°Ⅲ23'21 14°Ⅲ23'21 14°Ⅲ28'32 14°Ⅲ18'10 12°Ⅲ48'16 9°Ⅲ46'22 8°Ⅲ59'25 16°Ⅲ02'21 0°☞ 21°☞39'09	-0°08'59 0°08'50 0°08'50 0.55727 AU
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	4060 Jun 22 18:16 4060 Jun 22 12:18 4060 Jun 23 18:33 4060 Jun 30 18:38 4060 Jul 01 12:34 4060 Jul 05 05:27 4060 Jul 09 13:41 4060 Jul 18 10:01 4060 Aug 04 09:27 4060 Aug 05 10:59 4060 Aug 17 11:18 4060 Aug 17 09:37 4060 Aug 18 18:27 4060 Aug 20 04:45	3°\$52'44 4°\$01'17 3°\$17'59 30°RII 29°II47'15 29°II17'40 0°\$ 5°\$38'46 0°\$\Omega\$2°\$\Omega\$02'16 12°\$\Omega\$06'38 27°\$\Omega\$13'51 27°\$\Omega\$04'50 0°\$\Omega\$3°\$\Omega\$01'04	2°05'57 0.54892 AU 23°07'04	evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57 4061 May 25 04:13 4061 Jun 02 08:31 4061 Jun 02 20:41 4061 Jun 02 20:17 4061 Jun 02 17:01 4061 Jun 02 23:32 4061 Jun 05 08:19 4061 Jun 11 09:43 4061 Jun 15 23:28 4061 Jun 29 23:57 4061 Jul 11 05:39 4061 Jul 23 08:01 4061 Jul 25 21:46	15° 852'34 0° II 13° II 58'18 18° II 38'03 18° II 27'06 14° II 42'00 14° II 22'43 14° II 23'21 14° II 28'32 14° II 18'10 12° II 48'16 9° II 46'22 8° II 59'25 16° II 02'21 0° S 21° S 39'09 27° S 00'23	-0°08'59 0°08'50 0°08'50 0.55727 AU
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	4060 Jun 22 18:16 4060 Jun 22 12:18 4060 Jun 23 18:33 4060 Jun 30 18:38 4060 Jul 01 12:34 4060 Jul 05 05:27 4060 Jul 09 13:41 4060 Jul 18 10:01 4060 Aug 04 09:27 4060 Aug 05 10:59 4060 Aug 17 11:18 4060 Aug 17 09:37 4060 Aug 18 18:27 4060 Aug 20 04:45 4060 Aug 25 03:42	3°\$52'44 4°\$01'17 3°\$17'59 30°RII 29°II47'15 29°II17'40 0°\$ 5°\$38'46 0°\$\Omega\$2°\$\Omega\$02'16 12°\$\Omega\$06'38 27°\$\Omega\$13'51 27°\$\Omega\$04'50 0°\$\mathrm{m}\$3°\$\mathrm{m}\$01'04 13°\$\mathrm{m}\$08'54	2°05'57 0.54892 AU 23°07'04 1°37'03 1°36'55	evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57 4061 May 25 04:13 4061 Jun 02 08:31 4061 Jun 02 20:41 4061 Jun 02 20:17 4061 Jun 02 17:01 4061 Jun 02 23:32 4061 Jun 05 08:19 4061 Jun 11 09:43 4061 Jun 15 23:28 4061 Jun 29 23:57 4061 Jul 11 05:39 4061 Jul 23 08:01	15°♥52'34 0°Ⅲ 13°Ⅲ58'18 18°Ⅲ38'03 18°Ⅲ27'06 14°Ⅲ42'00 14°Ⅲ22'43 14°Ⅲ23'21 14°Ⅲ23'21 14°Ⅲ28'32 14°Ⅲ18'10 12°Ⅲ48'16 9°Ⅲ46'22 8°Ⅲ59'25 16°Ⅲ02'21 0°☞ 21°☞39'09	-0°08'59 0°08'50 0°08'50 0.55727 AU
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	4060 Jun 22 18:16 4060 Jun 22 12:18 4060 Jun 23 18:33 4060 Jun 30 18:38 4060 Jul 01 12:34 4060 Jul 05 05:27 4060 Jul 09 13:41 4060 Jul 18 10:01 4060 Aug 04 09:27 4060 Aug 05 10:59 4060 Aug 17 11:18 4060 Aug 17 09:37 4060 Aug 18 18:27 4060 Aug 20 04:45 4060 Aug 25 03:42 4060 Sep 03 05:28	3°\$52'44 4°\$01'17 3°\$17'59 30°RII 29°II47'15 29°II17'40 0°\$ 5°\$38'46 0°\$\Omega\$2°\$\Omega\$02'16 12°\$\Omega\$06'38 27°\$\Omega\$13'51 27°\$\Omega\$04'50 0°\$\Omega\$3°\$\Omega\$01'04 13°\$\Omega\$08'54 0°\$\Omega\$	2°05'57 0.54892 AU 23°07'04 1°37'03 1°36'55	evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el asc. node morning set	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57 4061 May 25 04:13 4061 Jun 02 08:31 4061 Jun 02 20:17 4061 Jun 02 20:17 4061 Jun 02 17:01 4061 Jun 02 23:32 4061 Jun 05 08:19 4061 Jun 11 09:43 4061 Jun 15 23:28 4061 Jun 19 23:57 4061 Jul 11 05:39 4061 Jul 23 08:01 4061 Jul 25 21:46 4061 Jul 27 07:26	15° 852'34 0° II 13° II 58'18 18° II 38'03 18° II 27'06 14° II 42'00 14° II 22'43 14° II 23'21 14° II 28'32 14° II 18'10 12° II 48'16 9° II 46'22 8° II 59'25 16° II 02'21 0° S 21° S39'09 27° S00'23 0° Ω	-0°08'59 0°08'50 0°08'50 0.55727 AU 24°49'49
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	4060 Jun 22 18:16 4060 Jun 22 12:18 4060 Jun 23 18:33 4060 Jun 30 18:38 4060 Jul 01 12:34 4060 Jul 05 05:27 4060 Jul 09 13:41 4060 Jul 18 10:01 4060 Aug 04 09:27 4060 Aug 05 10:59 4060 Aug 17 11:18 4060 Aug 17 09:37 4060 Aug 18 18:27 4060 Aug 20 04:45 4060 Aug 25 03:42 4060 Sep 03 05:28 4060 Sep 11 10:48	3°\$52'44 4°\$01'17 3°\$17'59 30°RII 29°II47'15 29°II17'40 0°\$ 5°\$38'46 0°\$\Omega\$2°\$\Omega\$02'16 12°\$\Omega\$06'38 27°\$\Omega\$13'51 27°\$\Omega\$04'50 0°\$\Omega\$3°\$\Omega\$01'04 13°\$\Omega\$08'54 0°\$\Omega\$19'29	2°05'57 0.54892 AU 23°07'04 1°37'03 1°36'55	evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el asc. node morning set	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57 4061 May 25 04:13 4061 Jun 02 08:31 4061 Jun 02 20:41 4061 Jun 02 20:17 4061 Jun 02 17:01 4061 Jun 02 23:32 4061 Jun 05 08:19 4061 Jun 11 09:43 4061 Jun 15 23:28 4061 Jun 19 23:57 4061 Jul 11 05:39 4061 Jul 23 08:01 4061 Jul 25 21:46 4061 Jul 27 07:26	15° 852'34 0°	-0°08'59 0°08'50 0°08'50 0.55727 AU 24°49'49
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	4060 Jun 22 18:16 4060 Jun 22 12:18 4060 Jun 23 18:33 4060 Jun 30 18:38 4060 Jul 01 12:34 4060 Jul 05 05:27 4060 Jul 09 13:41 4060 Jul 18 10:01 4060 Aug 04 09:27 4060 Aug 05 10:59 4060 Aug 10 10:00 4060 Aug 17 11:18 4060 Aug 17 09:37 4060 Aug 18 18:27 4060 Aug 20 04:45 4060 Aug 25 03:42 4060 Sep 03 05:28 4060 Sep 11 10:48 4060 Sep 23 23:23	3°\$52'44 4°\$01'17 3°\$17'59 30°RII 29°II47'15 29°II17'40 0°\$ 5°\$38'46 0°\$\Omega\$2°\$\Omega\$02'16 12°\$\Omega\$06'38 27°\$\Omega\$13'51 27°\$\Omega\$04'50 0°\$\Omega\$3°\$\Omega\$01'04 13°\$\Omega\$08'54 0°\$\Omega\$	2°05'57 0.54892 AU 23°07'04 1°37'03 1°36'55 1.33713 AU	evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el asc. node morning set	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57 4061 May 25 04:13 4061 Jun 02 08:31 4061 Jun 02 20:41 4061 Jun 02 20:17 4061 Jun 02 17:01 4061 Jun 02 17:01 4061 Jun 05 08:19 4061 Jun 11 09:43 4061 Jun 15 23:28 4061 Jun 17 09:43 4061 Jun 18 23 28:40 4061 Jun 19 23:57 4061 Jul 11 05:39 4061 Jul 23 08:01 4061 Jul 25 21:46 4061 Jul 27 07:26 4061 Aug 01 20:35 4061 Aug 01 18:21	15° 852'34 0° II 13° II 58'18 18° II 38'03 18° II 27'06 14° II 42'00 14° II 22'43 14° II 23'21 14° II 28'32 14° II 18'10 12° II 48'16 9° II 46'22 8° II 59'25 16° II 02'21 0° S 21° S39'09 27° S00'23 0° Ω	-0°08'59 0°08'50 0°08'50 0.55727 AU 24°49'49
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	4060 Jun 22 18:16 4060 Jun 22 12:18 4060 Jun 23 18:33 4060 Jun 30 18:38 4060 Jul 01 12:34 4060 Jul 05 05:27 4060 Jul 09 13:41 4060 Jul 18 10:01 4060 Aug 04 09:27 4060 Aug 05 10:59 4060 Aug 10 10:00 4060 Aug 17 11:18 4060 Aug 17 09:37 4060 Aug 18 18:27 4060 Aug 20 04:45 4060 Sep 03 05:28 4060 Sep 11 10:48 4060 Sep 23 23:23 4060 Sep 28 11:39	3°\$52'44 4°\$01'17 3°\$17'59 30°RII 29°I17'40 0°\$5 5°\$38'46 0°\$\Omega\$2°\$\Omega\$02'16 12°\$\Omega\$04'50 0°\$\Omega\$3°\$\Omega\$01'04 13°\$\Omega\$08'54 0°\$\Omega\$29 0°\$\Omega\$4"19'29	2°05'57 0.54892 AU 23°07'04 1°37'03 1°36'55 1.33713 AU	evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57 4061 May 25 04:13 4061 Jun 02 08:31 4061 Jun 02 20:41 4061 Jun 02 20:17 4061 Jun 02 20:17 4061 Jun 02 17:01 4061 Jun 02 23:32 4061 Jun 05 08:19 4061 Jun 11 09:43 4061 Jun 15 23:28 4061 Jun 15 23:28 4061 Jun 17 05:39 4061 Jul 18:21 4061 Aug 01 20:35 4061 Aug 01 20:35 4061 Aug 01 18:21 4061 Aug 03 09:11	15° 852'34 0° Π 13° Π58'18 18° Π38'03 18° Π27'06 14° Π42'00 14° Π22'43 14° Π23'21 14° Π28'32 14° Π18'10 12° Π48'16 9° Π46'22 8° Π59'25 16° Π02'21 0° © 21° © 39'09 27° © 00'23 0° Ω 12° Ω05'02 11° Ω52'48 15° Ω24'10	-0°08'59 0°08'50 0°08'50 0.55727 AU 24°49'49 1°25'10 1°24'53
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	4060 Jun 22 18:16 4060 Jun 22 12:18 4060 Jun 23 18:33 4060 Jun 30 18:38 4060 Jul 01 12:34 4060 Jul 05 05:27 4060 Jul 09 13:41 4060 Jul 18 10:01 4060 Aug 04 09:27 4060 Aug 05 10:59 4060 Aug 10 10:00 4060 Aug 17 11:18 4060 Aug 17 09:37 4060 Aug 18 18:27 4060 Aug 20 04:45 4060 Aug 25 03:42 4060 Sep 03 05:28 4060 Sep 11 10:48 4060 Sep 23 23:23	3°\$52'44 4°\$01'17 3°\$17'59 30°RII 29°II47'15 29°II17'40 0°\$ 5°\$38'46 0°\$\Omega\$2°\$\Omega\$02'16 12°\$\Omega\$06'38 27°\$\Omega\$13'51 27°\$\Omega\$04'50 0°\$\Omega\$3°\$\Omega\$01'04 13°\$\Omega\$08'54 0°\$\Omega\$19'29 0°\$\Omega\$1	2°05'57 0.54892 AU 23°07'04 1°37'03 1°36'55 1.33713 AU	evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el asc. node morning set	4061 May 03 17:05 4061 May 13 14:53 4061 May 23 04:57 4061 May 25 04:13 4061 Jun 02 08:31 4061 Jun 02 20:41 4061 Jun 02 20:17 4061 Jun 02 17:01 4061 Jun 02 17:01 4061 Jun 05 08:19 4061 Jun 11 09:43 4061 Jun 15 23:28 4061 Jun 17 09:43 4061 Jun 18 23 28:40 4061 Jun 19 23:57 4061 Jul 11 05:39 4061 Jul 23 08:01 4061 Jul 25 21:46 4061 Jul 27 07:26 4061 Aug 01 20:35 4061 Aug 01 18:21	15° 852'34 0° II 13° II 58'18 18° II 38'03 18° II 27'06 14° II 42'00 14° II 22'43 14° II 23'21 14° II 28'32 14° II 18'10 12° II 48'16 9° II 46'22 8° II 59'25 16° II 02'21 0° © 21° © 39'09 27° © 00'23 0° Ω 12° Ω05'02 11° Ω52'48	-0°08'59 0°08'50 0°08'50 0.55727 AU 24°49'49 1°25'10 1°24'53

	4061 Aug 27 12:14	0∘ ⊽		evening rise	4062 Jul 24 06:24	12° Ω 00'57	
desc. node	4061 Aug 29 07:50	o — 2° Ω 38'14		evening rise	4062 Aug 02 11:59	0° m)	
evening max el	4061 Sep 10 21:59	2 — 36 14 17° Ω 45'06	27°25'54	desc. node	4062 Aug 16 04:51	21° m) 10'40	
retrograde	4061 Sep 24 15:34	25° ⊆ 00'41	27 23 34	evening max el	4062 Aug 24 03:34	0° ೭ 08'03	27°01'10
evening set	4061 Oct 01 20:05	22° £ 28'42		evening max er	4062 Aug 24 00:10	0₀ ಹ	27 01 10
min. Earth dist.	4061 Oct 05 11:15	19° £ 27'08	0.62930 AU	retrograde	4062 Sep 07 00:39	ა — 7° ჲ 19'37	
inferior conj	4061 Oct 08 05:57	16° Ω 45'16		evening set	4062 Sep 14 01:29	5° ≏ 08'41	
minimum elong	4061 Oct 08 11:31	16° ⊆ 31'42		min. Earth dist.	4062 Sep 17 17:49	2° £ 28'16	0.60979 AU
morning rise	4061 Oct 15 04:29	11° ⊆ 34'10	3 2 1 12	inferior conj	4062 Sep 20 21:46	29° m 46'06	
direct	4061 Oct 17 14:21	11° ⊆ 07'09		minimum elong	4062 Sep 21 03:39	29° m ₂ 33'29	4°19'15
asc. node	4061 Oct 19 07:16	11° ⊆ 07'07		minimum ciong	4062 Sep 20 15:19	30°R, M)	4 17 13
morning max el	4061 Oct 24 06:42	14° £ 33'29	17°50'09	morning rise	4062 Sep 28 07:39	24° m 55'51	
morning max cr	4061 Nov 03 23:00	0°M	17 3007	direct	4062 Sep 30 16:11	24° m/33'39	
morning set	4061 Nov 09 11:17	9°M38'44		asc. node	4062 Oct 06 04:18	26° m) 40'21	
morning set	40011107 07 11.17) IIC30 11		morning max el	4062 Oct 07 20:36	28° Mp 07'58	18°00'35
superior conj	4061 Nov 21 03:03	29°M46'35	0°28'48	morning max ci	4062 Oct 09 14:15	ე∘ ი	10 00 33
minimum elong	4061 Nov 21 05:49	29°M58'08	0°28'25	morning set	4062 Oct 23 15:12	ა _ 23° ჲ 02'28	
minimum ciong		29 11€36 06 0° √ 1	0 2823	morning set		0°M	
desc. node	4061 Nov 21 06:15				4062 Oct 27 09:42	U IIL	
	4061 Nov 25 07:09	6° √ 40'21	1 42760 ATT		40(2 N 02 16 51	110 M 2015	1002117
max. Earth dist.	4061 Nov 27 19:28	10° 🖈 44'55	1.43768 AU	superior conj	4062 Nov 02 16:51	11°M20'56	1°03'17
evening rise	4061 Dec 06 07:15	24° ₹ 08'24		minimum elong	4062 Nov 02 21:00	11°MJ39'15	1°02'46
	4061 Dec 10 02:54	5°0		max. Earth dist.	4062 Nov 10 07:40	24°M23'34	1.42119 AU
	4061 Dec 31 00:06	0° ≈		desc. node	4062 Nov 12 04:11	27°M27'16	
evening max el	4062 Jan 05 07:43	6° ≈ 10'59	21°10'05		4062 Nov 13 17:40	0° ∡ ¹	
retrograde	4062 Jan 13 22:26	11° ≈ 17'09		evening rise	4062 Nov 16 03:22	3° ∡ 151′50	
asc. node	4062 Jan 15 06:30	11° ≈ 07'26			4062 Dec 03 11:54	0°ಕ	
evening set	4062 Jan 18 01:35	9° ≈ 41′05		evening max el	4062 Dec 19 01:47	19° る 45'25	22°26'11
inferior conj	4062 Jan 23 09:56	3° ≈ 27′26	2°28'46	retrograde	4062 Dec 28 18:35	25° る 31'28	
minimum elong	4062 Jan 23 07:27	3° ≈ 35'58	2°28'01	evening set	4063 Jan 02 09:06	23° る 39'23	
min. Earth dist.	4062 Jan 23 18:17	2° ≈ 58'33	0.67771 AU	asc. node	4063 Jan 02 03:33	23°る50'32	
	4062 Jan 25 23:59	30°Ŗ₹		inferior conj	4063 Jan 07 17:40	17° る 17'53	1°48'10
morning rise	4062 Jan 28 13:09	27° る 14'45		minimum elong	4063 Jan 07 15:31	17° る 25'19	1°47'23
direct	4062 Feb 02 19:26	24° る 56'29		min. Earth dist.	4063 Jan 07 14:27	17° る 29'03	0.68015 AU
	4062 Feb 12 02:36	0° ≈		morning rise	4063 Jan 12 21:49	11° る 08'02	
morning max el	4062 Feb 13 08:35	1°≈13′06	23°34'16	direct	4063 Jan 17 13:17	9° ට 12'21	
desc. node	4062 Feb 21 06:23	10° ≈ 26′14		morning max el	4063 Jan 26 20:19	14° る 39'40	22°06'23
	4062 Mar 07 03:03	0° ∀		desc. node	4063 Feb 08 03:26	29° る 55'37	
morning set	4062 Mar 20 14:55	21°) 37'14			4063 Feb 08 04:41	0° ≈	
max. Earth dist.	4062 Mar 24 14:09	28° ¥ 28'15	1.38919 AU		4063 Feb 28 03:08	0° ∀	
	4062 Mar 25 10:58	$_0$ ° γ		morning set	4063 Feb 28 21:57	1° ¥ 15'45	
				max. Earth dist.	4063 Mar 06 11:57	10° ¥ 26'54	1.41085 AU
superior conj	4062 Apr 01 01:48	12° Y 03'45	-1°42'30				
minimum elong	4062 Apr 01 06:34	12° Υ 26'05		superior conj	4063 Mar 14 06:07	23° ¥ 50'32	-2°01'00
evening rise	4062 Apr 10 07:31	29° Υ 49'29	1 1130	minimum elong	4063 Mar 14 09:46	24° H 06'46	
e vennig rise	4062 Apr 10 09:41	0°8		g	4063 Mar 17 16:20	0°Υ	2 00 .0
asc. node	4062 Apr 13 05:47	5° 8 27'55		evening rise	4063 Mar 24 16:22	12° Υ 56'01	
evening max el	4062 Apr 26 14:43	26° 8 08'29	18°44'31	asc. node	4063 Mar 31 02:49	24° Υ '42'06	
evening max er	4062 May 03 08:05	0°II	10 4431	asc. node	4063 Apr 03 06:10	0°8	
retrograde	4062 May 04 17:05	0° П 06'44		evening max el	4063 Apr 09 22:04	8° 8 49'39	18°15'49
retrograde	4062 May 06 02:37	30°R 8		retrograde	4063 Apr 17 00:11	12° 8 22'24	10 13 47
ovening set	4062 May 06 02:37	29° 8 50'25		evening set	4063 Apr 19 11:14	11° 8 57'38	
evening set	•	25° 6 28'29	1°31'55	•	-	7° 8 15'13	2°41'24
inferior conj	4062 May 14 18:14			inferior conj	4063 Apr 26 13:12		2°40'34
minimum elong	4062 May 14 21:22	25° 8 22'40	1°30'54	minimum elong	4063 Apr 26 16:43	7° 8 07'33	
min. Earth dist.	4062 May 18 01:05	23° 8 03'30	0.57336 AU	min. Earth dist.	4063 Apr 29 23:08	4° 8 18'55	0.59405 AU
desc. node	4062 May 20 05:33	21° 8 36'53		morning rise	4063 May 03 19:31	1° 8 35'08	
morning rise	4062 May 22 17:55	20° 8 16'56		desc. node	4063 May 07 02:36	0°810'08	
direct	4062 May 28 07:04	19° 8 01'29	2602011.5	1.	4063 May 07 18:50	30° ₹ Υ	
morning max el	4062 Jun 11 15:34	26° 8 32'55	26~20'15	direct	4063 May 10 03:53	29° Y 44'31	
	4062 Jun 14 22:27	0°II			4063 May 12 13:58	0°8	
	4062 Jul 04 11:51	0°50		morning max el	4063 May 24 12:51	7° 8 33'47	27°23'38
morning set	4062 Jul 10 08:39	11° © 50'38			4063 Jun 10 11:11	Π $^{\circ}0$	
asc. node	4062 Jul 10 05:03	11° 5 31'40		morning set	4063 Jun 24 16:52	26° Ⅲ 30'38	
					4063 Jun 26 08:35	0 \circ	
superior conj	4062 Jul 17 08:01	27° © 00'46	1°08'34	asc. node	4063 Jun 27 02:05	1° © 33'35	
minimum elong	4062 Jul 17 05:43	26°5548'02	1°08'12				
max. Earth dist.	4062 Jul 17 19:13	28° © 02'28	1.32177 AU	superior conj	4063 Jul 01 19:44	11° © 53'56	0°47'55
	4062 Jul 18 16:34	$0^{\circ}\Omega$		minimum elong	4063 Jul 01 17:50	11°5643'24	0°47'33

max. Earth dist.	4063 Jul 01 06:56	10° © 43'21	1.32015 AU		4064 Jun 16 18:44	0°95	
evening rise	4063 Jul 01 06:36 4063 Jul 08 15:27	26°\$46'22	1.32013 AU	evening rise	4064 Jun 22 02:47	11° © 35'15	
evening rise	4063 Jul 10 04:20	20 3 40 22		evening rise	4064 Jul 01 10:57	0°Ω	
	4063 Jul 10 04.20 4063 Jul 27 05:47	0°Mp		avanina may al	4064 Jul 17 17:14	22° Ω 31'46	24940!00
1 1				evening max el			24 40 09
desc. node	4063 Aug 03 01:51	8° Mp 37'16	26002142	desc. node	4064 Jul 19 22:52	24° Ω 31'41	
evening max el	4063 Aug 06 01:53	11° Mp 42'26	26°03'43	retrograde	4064 Jul 31 15:08	29° £ 33'35	
retrograde	4063 Aug 20 01:11	18° Mp 51'00		evening set	4064 Aug 05 18:34	28° Ω 33'58	0.56071 ATT
evening set	4063 Aug 26 10:08	17° Mp 12'54	0.50000 4.77	min. Earth dist.	4064 Aug 11 04:29	25° Ω 44'36	0.56971 AU
min. Earth dist.	4063 Aug 30 14:28	14° m 37'28	0.58906 AU	inferior conj	4064 Aug 13 23:47	23° Ω 55'43	
inferior conj	4063 Sep 02 20:39	12°Mp 12'21		minimum elong	4064 Aug 13 22:33	23° Ω 57'43	5°10'17
minimum elong	4063 Sep 03 00:29	12° Mp 05'11	4°59'17	morning rise	4064 Aug 22 05:04	19° Ω 50'09	
morning rise	4063 Sep 10 17:05	7° Mp 45'15		direct	4064 Aug 24 20:01	19° Ω 31'03	
direct	4063 Sep 13 03:23	7° TD 25'32		morning max el	4064 Sep 03 03:33	23° Ω 52'36	19°22'58
morning max el	4063 Sep 21 04:38	11° Mp 17'36	18°31'06		4064 Sep 08 07:51	0° m	
asc. node	4063 Sep 23 01:19	13° m 15'46		asc. node	4064 Sep 08 22:22	0° Mp 52′09	
	4063 Oct 03 15:06	0∘ ⊽		morning set	4064 Sep 20 08:14	21° m 23'49	
morning set	4063 Oct 07 07:27	7° ჲ 00'59			4064 Sep 24 15:09	0∘ ⊽	
aumorior comi	4063 Oct 16 05:01	249 0 00144	1926140	aumariar aani	4064 Can 20 10:04	79 0 20109	1920149
superior conj		24° Ω 00'44	1°26'40	superior conj	4064 Sep 28 10:04	7° Ω 30'08	1°39'48
minimum elong	4063 Oct 16 08:24	24° £ 16'29	1°26'20	minimum elong	4064 Sep 28 11:51	7° Ω 38'52	1°39'42
F 4 F 4	4063 Oct 19 11:22	0°M	1 40117 411	max. Earth dist.	4064 Oct 04 18:30	19° £ 32'52	1.38027 AU
max. Earth dist.	4063 Oct 23 14:21	7°M18'30	1.40117 AU	evening rise	4064 Oct 08 12:47	26° ⊆ 18'22	
evening rise	4063 Oct 27 20:26	14°M33'01		1 1	4064 Oct 10 15:47	0°M	
desc. node	4063 Oct 30 01:11	18°M10'54		desc. node	4064 Oct 15 22:10	8°M47'06	
	4063 Nov 06 12:26	0° ⊼			4064 Oct 30 01:45	0° ⊀ ⁷	25002125
	4063 Nov 28 11:54	0°る	22246100	evening max el	4064 Nov 13 04:31	17° × 704'07	25°03'25
evening max el	4063 Dec 01 15:59	3° る 22'57	23°46'08	retrograde	4064 Nov 25 00:42	23° 🖈 55'46	
retrograde	4063 Dec 12 11:43	9° る 46'03		evening set	4064 Nov 30 17:37	21° x 32'54	0.67404.433
evening set	4063 Dec 17 15:00	7° る 37'58		min. Earth dist.	4064 Dec 05 05:53	16° ₹ 29'34	0.67424 AU
asc. node	4063 Dec 20 00:34	5° そ 09'59	0.65001.477	asc. node	4064 Dec 05 21:36	15° ₹ 38'04	0005145
min. Earth dist.	4063 Dec 22 11:06	2°る00'36	0.67891 AU	inferior conj	4064 Dec 06 06:42	15° ₹ 08'11	0°07'47
inferior conj	4063 Dec 23 01:11	1°る12'36	1°00'50	minimum elong	4064 Dec 06 06:30	15° ₹ 08'50	0°07'43
minimum elong	4063 Dec 22 23:49	1°る17'17	1°00'17	transit middle	4064 Dec 06 06:30	15° ₹ 08'50	0°07'43
	4063 Dec 23 22:38	30°₹ ₰		transit begin	4064 Dec 06 04:04	15° ₹ 16'50	
morning rise	4063 Dec 28 08:38	25° 🗷 07'16		transit end	4064 Dec 06 08:57	15° √ 00'50	
direct	4064 Jan 01 10:03	23° x 34'21	20046124	morning rise	4064 Dec 11 19:35	9°×709'34	
morning max el	4064 Jan 09 14:25	28° ₹ 17'05	20°46'21	direct	4064 Dec 15 08:32	7° ∡ 757'20	
	4064 Jan 11 05:25	0°る		morning max el	4064 Dec 22 16:19	12° ₹ 05'05	19°38'58
desc. node	4064 Jan 26 00:28	19° る 52'21		greatest brilliancy	4065 Jan 04 18:57	29° ₹ 24'24	-0.7m
	4064 Feb 01 18:59	0°≈			4065 Jan 05 04:32	0°る	
morning set	4064 Feb 08 02:56	9° ≈ 44'17		desc. node	4065 Jan 11 21:27	10°る08'15	
max. Earth dist.	4064 Feb 16 16:27	23°≈20'22	1.42998 AU	morning set	4065 Jan 16 23:15	17° පි 56'10	
	4064 Feb 20 17:59	0° ∀		To all the	4065 Jan 24 17:24	0°≈ 70××0014€	1 44416 ATT
superior conj	4064 Feb 23 11:18	4°) 32'46	-2°07'41	max. Earth dist.	4065 Jan 29 04:09	7° ≈ 00'46	1.44416 AU
minimum elong	4064 Feb 23 10:55	4° X 32'40		superior conj	4065 Feb 02 14:36	14° ≈ 05'56	-1°57'14
evening rise	4064 Mar 06 10:06	25°) 18'10	2 0/41	minimum elong	4065 Feb 02 08:11	13°≈40'10	
evening rise	4064 Mar 09 01:36	25 χ 18 10 0° Υ		minimum clong	4065 Feb 12 07:22	0°) €	1 3031
asc. node	4064 Mar 16 23:51	13° Υ 28'42		evening rise	4065 Feb 16 08:12	6°) 46'42	
evening max el	4064 Mar 23 09:40	21° Υ 53'57	18°06'47	evening rise	4065 Mar 02 15:47	0°Υ	
retrograde	4064 Mar 29 22:54	25° Y 16'43	18 0047	asc. node	4065 Mar 03 20:53	1° Υ 38'34	
evening set	4064 Apr 01 16:08	23 γ 1043 24° Υ 41'30		evening max el	4065 Mar 06 22:27	5°Υ13'00	18°16'51
inferior conj	4064 Apr 08 03:06	19° Υ 38'52	3°20'36	retrograde	4065 Mar 13 08:49	8° Υ 39'41	16 10 51
minimum elong	4064 Apr 08 05:17	19° Υ 33'26	3°20'19	evening set	4065 Mar 16 07:59	7° Υ 52'46	
min. Earth dist.	4064 Apr 11 04:51	19 γ 33 20 16° Υ 36'04	0.61595 AU	inferior conj	4065 Mar 22 07:53	2° Υ 30'56	3°35'44
morning rise	4064 Apr 14 16:39	13° Υ 40'52	0.01393 AU	minimum elong	4065 Mar 22 07:33 4065 Mar 22 08:18		3°35'44
direct	-	13 γ 40 32 11° Υ 17'59		minimum clong		2 1 29 40 30° ₹	3 33 44
desc. node	4064 Apr 21 11:56	11° γ 1/39 11° γ 24'25		min. Earth dist.	4065 Mar 24 13:50 4065 Mar 24 19:34	30°₹ ⊼ 29°){ 44'25	0.63623 AU
morning max el	4064 Apr 22 23:38 4064 May 05 16:25		27°50'58	min. Earth dist.	4065 Mar 28 07:40	29° X 44°25 26° X 23'25	0.03023 AU
morning max er		0° 8	41 30 30	direct		20° X 23°23 23° X 39'31	
	4064 May 14 18:53 4064 Jun 02 07:39	0°O		desc. node	4065 Apr 04 04:46	25° H 13'30	
morning sat		0°Щ 10°Щ54'21		desc. Hode	4065 Apr 16 07:55	25°π13'30 0°Υ	
morning set	4064 Jun 07 20:32	10°Щ54'21 21°Щ40'27		morning me1	4065 Apr 18 00:21	1° Υ 37'28	27040154
asc. node	4064 Jun 12 23:07		1 20065 411	morning max el	4065 Apr 18 00:21		27°40'54
max. Earth dist.	4064 Jun 13 16:29	23° Ⅱ 14'23	1.32265 AU	morning set	4065 May 08 23:44	0° 8	
aumori	4064 I 15 06 02	260T20105	0022140	morning set	4065 May 22 17:18	24° 8 54'30	
superior conj	4064 Jun 15 06:03	26°∏39'05		may Faul 11 4	4065 May 25 05:44	0°Ⅱ 5°Ⅲ22!40	1 22040 411
minimum elong	4064 Jun 15 04:58	26° ∏ 33'12	0 23 34	max. Earth dist.	4065 May 27 19:58	э щ23°40	1.32949 AU

superior conj	4065 May 30 13:09	11° II 10'35	-0°03'04	max. Earth dist.	4066 May 10 14:00	17° 8 03'16	1.34095 AU
minimum elong	4065 May 30 13:18	11° Ⅱ 11′23	0°03'03				
behind sun begin	4065 May 30 08:04	10° Ⅱ 43'14		superior conj	4066 May 14 14:56	25° 8 21'40	-0°31'45
behind sun end	4065 May 30 18:33	11° Ⅱ 39'34		minimum elong	4066 May 14 16:37	25° 8 30'23	0°31'25
asc. node	4065 May 30 20:11	11° Ⅱ 48′19			4066 May 16 19:54	Π °0	
evening rise	4065 Jun 06 14:32	26° Ⅱ 21'43		asc. node	4066 May 17 17:12	1° Ⅱ 52'37	
	4065 Jun 08 08:10	0 \circ		evening rise	4066 May 22 00:49	10° Ⅱ 59'16	
	4065 Jun 26 11:30	$0^{\circ}\Omega$			4066 May 31 22:45	0	
evening max el	4065 Jun 29 06:24	2° Ω 57'09	23°03'47	evening max el	4066 Jun 11 00:57	13° © 29'43	21°30'04
desc. node	4065 Jul 06 19:52	8° Ω 20′39		retrograde	4066 Jun 23 06:43	19° © 31'35	
retrograde	4065 Jul 12 16:15	9° Ω 38'38		desc. node	4066 Jun 23 16:55	19° © 31'10	
evening set	4065 Jul 16 07:13	9° Ω 09'56		evening set	4066 Jun 25 17:11	19° 5 018'04	
min. Earth dist.	4065 Jul 23 15:30	5° Ω 52'03	0.55513 AU	inferior conj	4066 Jul 05 02:15	15° © 17'57	-3°13'00
inferior conj	4065 Jul 25 07:28	4° Ω 54'02	-4°36'47	minimum elong	4066 Jul 04 18:05	15° © 29'22	3°10'29
minimum elong	4065 Jul 25 00:27	5° Ω 04'16	4°35'31	min. Earth dist.	4066 Jul 05 02:08	15° © 18'07	0.54847 AU
morning rise	4065 Aug 02 19:58	1° Ω 02'04		morning rise	4066 Jul 13 19:55	11° © 23'45	
direct	4065 Aug 05 18:08	0° Ω 41'44		direct	4066 Jul 17 04:28	10° © 59'18	
morning max el	4065 Aug 16 14:55	5° Ω 44'36	20°36'25	morning max el	4066 Jul 29 14:42	16° © 51'07	22°08'39
asc. node	4065 Aug 26 19:24	19° Ω 15'51			4066 Aug 08 22:29	$\mathfrak{O}^{\circ}\mathfrak{O}$	
	4065 Sep 01 14:43	0° m)		asc. node	4066 Aug 13 16:27	8° Ω 14'41	
morning set	4065 Sep 04 14:44	6° ™ 03'39		morning set	4066 Aug 20 00:42	20° Ω 53'04	
					4066 Aug 24 07:59	o°mp	
superior conj	4065 Sep 12 03:18	21° mp 35'53	1°44'15		•		
minimum elong	4065 Sep 12 03:28	21° m/36'40	1°44'15	superior conj	4066 Aug 27 04:56	6° Mp 05′50	1°41'28
	4065 Sep 16 08:04	0∘ ত		minimum elong	4066 Aug 27 03:48	5° m 59'49	1°41'25
max. Earth dist.	4065 Sep 17 01:56	1° ≏ 27'13	1.36089 AU	max. Earth dist.	4066 Aug 30 17:05	13° m) 23'30	1.34468 AU
evening rise	4065 Sep 21 01:37	9° ₽ 01'13		evening rise	4066 Sep 04 06:24	22° m) 28'41	
desc. node	4065 Oct 02 19:11	29° £ 11'30		8	4066 Sep 08 06:05	0∘ <u>v</u>	
	4065 Oct 03 07:24	0° M .		desc. node	4066 Sep 19 16:13	19° Ω 17'12	
	4065 Oct 25 22:03	0° ∡ ¹			4066 Sep 27 00:53	0°M₊	
evening max el	4065 Oct 26 17:05	0° ∡ ¹46'55	26°10'30	evening max el	4066 Oct 09 05:46	14°M22'30	27°00'03
retrograde	4065 Nov 08 08:38	7° × 755'57	20 1030	retrograde	4066 Oct 22 11:01	21°M39'12	2, 00 05
evening set	4065 Nov 14 15:14	5° ×7 21'17		evening set	4066 Oct 29 05:40	18°M58'07	
min. Earth dist.	4065 Nov 18 20:24	0°×7'53'17	0.66618 AU	min. Earth dist.	4066 Nov 02 04:13	15°M06'04	0.65456 AU
mm. zarm dist.	4065 Nov 19 13:43	30°RML	0.00010110	inferior conj	4066 Nov 04 04:07	12°M49'20	
inferior conj	4065 Nov 20 08:24	29°ML02'05	-0°49'49	minimum elong	4066 Nov 04 07:14	12°M40'28	1°49'15
minimum elong	4065 Nov 20 09:44	28°M57'57		asc. node	4066 Nov 09 15:40	7°M37'30	1 17 13
asc. node	4065 Nov 22 18:38	26°M09'48	0 47 14	morning rise	4066 Nov 10 09:39	7°M12'31	
morning rise	4065 Nov 26 04:43	23°M12'49		direct	4066 Nov 13 03:41	6°M31'24	
direct	4065 Nov 29 07:07	22°M18'01		morning max el	4066 Nov 19 15:45	10°ML01'16	18°11'14
morning max el	4065 Dec 06 01:28	26°ML01'37	18°46'50	morning max er	4066 Dec 03 13:19	0° ₹	10 11 14
morning max cr	4065 Dec 09 12:27	0° ₹	10 40 50	morning set	4066 Dec 08 06:11	7° ∡ 741'27	
morning set	4065 Dec 27 12:11	27° × ⁷ 04'38		desc. node	4066 Dec 16 15:31	21° x 17'39	
morning set	4065 Dec 29 08:46	0°ਰ 0°ਰ		dese. Hode	4066 Dec 22 02:42	0°る	
desc. node	4065 Dec 29 18:29	್ರಂಕ್ರ 0°ಕ್ರ38'11			4000 DCC 22 02.42	٥ ٠	
max. Earth dist.	4066 Jan 11 21:22		1.45174 AU	superior conj	4066 Dec 23 01:08	1° 云 28'41	-0°42'55
max. Earth dist.	4000 Juli 11 21.22	21 01330	1.43174710	minimum elong	4066 Dec 22 19:44	1°る07'22	
superior conj	4066 Jan 12 21:26	22° る 48'09	-1°27'15	max. Earth dist.	4066 Dec 25 17:05	5°る40'33	1.45187 AU
minimum elong	4066 Jan 12 12:12	22° ට 11'51		evening rise	4067 Jan 08 08:32	26°පි58'20	1.43107 110
Ciong	4066 Jan 17 11:06	0°≈	. 2010		4067 Jan 10 07:16	20°≈	
evening rise	4066 Jan 28 07:24	17°≈17'55		greatest brilliancy	4067 Jan 20 14:49		-0.7m
greatest brilliancy	4066 Feb 03 21:50	27°≈56'07	-0.9m	greatest orimaney	4067 Jan 30 17:55	0° ∀	0.7111
greatest offinaley	4066 Feb 05 04:47	0° \	0.7111	evening max el	4067 Feb 01 17:19	2°) 11'14	19°30'12
evening max el	4066 Feb 18 09:44	18°) 40′14	18°45'05	asc. node	4067 Feb 05 14:57	5° ¥ 21'57	19 30 12
asc. node	4066 Feb 18 17:56	19°) €00'42	10 43 03	retrograde	4067 Feb 08 22:52	6° ∺ 20'59	
retrograde	4066 Feb 25 01:53	22° H 23'10		evening set	4067 Feb 12 11:33	5° ¥ 08'03	
evening set	4066 Feb 28 07:21	21° H 23'39		evening sec	4067 Feb 17 08:34	30°R≈	
inferior conj	4066 Mar 05 23:36	15°) 44'09	3°32'47	inferior conj	4067 Feb 17 22:59	29°≈13'00	3°16'07
minimum elong	4066 Mar 05 22:33	15° X 44'09	3°32'42	minimum elong	4067 Feb 17 20:58	29°≈19'36	3°15'46
min. Earth dist.	4066 Mar 07 19:35	13° X 4723	0.65312 AU	min. Earth dist.	4067 Feb 19 03:58	27°≈38'07	0.66589 AU
morning rise	4066 Mar 11 13:19	9° H 32'04	5.05512 AU	morning rise	4067 Feb 23 06:10	27 ≈58 07 22°≈59'06	5.00307 AU
direct	4066 Mar 18 04:34	6° ∺ 41′21		direct	4067 Mar 01 10:29	22 ≈3900 20°≈14'17	
desc. node	4066 Mar 27 17:42	11° X 04'50		morning max el	4067 Mar 13 19:47	20 ≈1417 27°≈36'52	25°49'24
morning max el	4066 Mar 31 10:09	14° H 28'05	26°57'45	desc. node	4067 Mar 14 14:45	27 ≈36 32 28°≈25'35	43 43 44
morning max ci	4066 Apr 13 01:46	0° Υ	20 31 73	dese. Houe	4067 Mar 14 14:43 4067 Mar 16 01:53	20 ≈ 23 33	
	4066 May 01 16:42	0°8			4067 Apr 06 18:17	0°Υ	
morning set	4066 May 06 04:06	8° 8 21'40		morning set	4067 Apr 19 00:54	21° Υ '04'26	
morning set	1000 May 00 04.00	5 02140		morning set	100/11pt 17 00.34	21 I V+ 20	

						00	
max. Earth dist.	4067 Apr 22 20:47		1.35695 AU		4068 Mar 29 11:42	0° Υ	
	4067 Apr 23 18:31	9° 8		morning set	4068 Mar 31 02:13	2° Y 46'57	
				max. Earth dist.	4068 Apr 03 18:09	9° Ƴ 18'04	1.37675 AU
superior conj	4067 Apr 28 08:52	9° 8 05'13	-1°00'53				
minimum elong	4067 Apr 28 12:08	9° 8 21'41	1°00'18	superior conj	4068 Apr 10 15:34	22° Y 11'40	
asc. node	4067 May 04 14:16	21° 8 49'42		minimum elong	4068 Apr 10 20:04	22° Y 33'24	1°27'50
evening rise	4067 May 06 07:34	25° 8 21'36			4068 Apr 14 15:23	9° 8	
	4067 May 08 14:38	Π $^{\circ}0$		evening rise	4068 Apr 19 08:15	9° 8 20'34	
evening max el	4067 May 24 06:45	24° Ⅲ 35'56	20°10'27	asc. node	4068 Apr 20 11:18	11° 8 34'15	
retrograde	4067 Jun 03 20:51	29° Ⅱ 45'51			4068 Apr 30 19:50	$\Pi^{\circ}0$	
evening set	4067 Jun 05 19:56	29° Ⅱ 35'58		evening max el	4068 May 06 00:36	6° Ⅱ 23'38	19°10'02
desc. node	4067 Jun 10 13:56	28° Ⅱ 00′26		retrograde	4068 May 14 22:35	10° Ⅱ 44'14	
inferior conj	4067 Jun 14 21:48	25° Ⅱ 36'57	-1°16'59	evening set	4068 May 16 23:23	10° Ⅲ 31'38	
minimum elong	4067 Jun 14 18:11	25° Ⅱ 42'19	1°15'38	inferior conj	4068 May 25 07:37	6° Ⅱ 20'34	0°37'17
min. Earth dist.	4067 Jun 16 14:27	24° Ⅲ 36'40	0.55137 AU	minimum elong	4068 May 25 09:07	6° Ⅱ 18′01	0°36'44
morning rise	4067 Jun 23 15:00	21° Ⅲ 20′00		desc. node	4068 May 27 10:59	4° Ⅱ 53'26	
direct	4067 Jun 27 15:51	20° Ⅱ 44'40		min. Earth dist.	4068 May 28 05:34	4° Ⅲ 22'41	0.56331 AU
morning max el	4067 Jul 11 06:42	27° Ⅲ 24'31	23°51'22	morning rise	4068 Jun 02 15:43	1° Ⅲ 28'32	
C	4067 Jul 13 19:54	0ಂಣ		direct	4068 Jun 07 15:18	0° Д 30'45	
asc. node	4067 Jul 31 13:30	27° © 39'59		morning max el	4068 Jun 21 20:51	7° Ⅱ 48'10	25°30'47
	4067 Aug 01 17:24	$0^{\circ}\Omega$		C	4068 Jul 08 07:02	0°ಅ	
morning set	4067 Aug 04 12:18	5° Ω 46'49		asc. node	4068 Jul 17 10:34	17° 5 24'14	
				morning set	4068 Jul 18 23:52	20° © 39'38	
superior conj	4067 Aug 11 12:07	20° Ω 51'31	1°32'37	. 8	4068 Jul 23 07:36	$0^{\circ}\Omega$	
minimum elong	4067 Aug 11 10:08	20° Ω 40'49					
max. Earth dist.	4067 Aug 13 17:00	25° Ω 35'30	1.33247 AU	superior conj	4068 Jul 25 22:33	5° Ω 45'29	1°18'39
man. Barur dige.	4067 Aug 15 19:05	0° m	1.552.7.110	minimum elong	4068 Jul 25 20:13	5°Ω32'43	1°18'20
evening rise	4067 Aug 18 23:04	6° Mp 29'58		max. Earth dist.	4068 Jul 26 24:00	8°Ω04'53	1.32443 AU
evening rise	4067 Aug 31 19:42	0° ⊡		evening rise	4068 Aug 02 00:12	20° Ω 55'21	1.52115710
desc. node	4067 Sep 06 13:14	ა — 8° ჲ 56'07		evening rise	4068 Aug 06 12:59	0°m	
evening max el	4067 Sep 21 17:17	27° ≏ 39'21	27°24'58	desc. node	4068 Aug 23 10:16	27° Mp 57'16	
evening max er	4067 Sep 24 08:47	0°M	27 24 36	dese. Hode	4068 Aug 24 22:42	27 الله 37 TO 0° Ω	
retrograde	4067 Oct 05 07:25	4°M57'06		evening max el	4068 Sep 03 01:43	10° ≏ 25'29	27°19'31
evening set	4067 Oct 12 10:15	2°M18'13		retrograde	4068 Sep 16 21:20	10 — 23 2 3 17° — 40′21	27 1731
evening set	4067 Oct 12 10:13 4067 Oct 15 02:50	2 IIC1613 30°RΩ		evening set	4068 Sep 24 01:27	17 = 4021 15° £ 15'31	
min. Earth dist.	4067 Oct 15 02:30 4067 Oct 16 03:13	29° £ 00'06	0.63942 AU	min. Earth dist.	4068 Sep 27 16:02	13° ⊆ 13'31 12° ⊆ 24'37	0.62117 AU
inferior conj	4067 Oct 18 15:24	26° £ 24'21		inferior conj	4068 Sep 30 15:18	9° £ 40′25	
minimum elong	4067 Oct 18 13:24 4067 Oct 18 20:13	26° £ 11'52		minimum elong	4068 Sep 30 13.18 4068 Sep 30 21:13	9° £ 26'46	
2			2 30 22	υ			3 49 01
morning rise	4067 Oct 25 07:31	21° £ 03'13		morning rise	4068 Oct 07 18:44	4° Ω 38'06	
direct asc. node	4067 Oct 27 19:32 4067 Oct 27 12:44	20° £ 32'08 20° £ 32'32		direct asc. node	4068 Oct 10 03:31	4° £ 13'36 5° £ 01'41	
			17050146		4068 Oct 13 09:47		17052117
morning max el	4067 Nov 03 08:21	23° £ 57'18	17°52'46	morning max el	4068 Oct 17 00:13	7° Ω 42'30	17°52'17
. ,	4067 Nov 08 05:07	0°M			4068 Oct 31 11:39	0°M√ 2°M√25114	
morning set	4067 Nov 20 03:35	19° M .37'54 0° ∡ 7		morning set	4068 Nov 01 22:10	2°M35'14	
	4067 Nov 26 05:46	0. ×.			40(0 N) 12 20 20	210M 52112	0044146
	40.67 D 02 21 40	110 702110	0004110	superior conj	4068 Nov 12 20:29	21°M53'13	0°44'46
superior conj	4067 Dec 02 21:40	11° × 702'10	0°04'19	minimum elong	4068 Nov 13 00:12	22°M09'05	0°44'16
minimum elong	4067 Dec 02 22:09	11° × 704'09	0°04'15	JJ.	4068 Nov 17 16:12	0° 🗷 2° -₹50114	
behind sun begin	4067 Dec 02 12:31	10° ₹ 24'51		desc. node	4068 Nov 19 09:34	2° 🗷 50'14	1 42114 411
behind sun end	4067 Dec 03 07:47	11° 🖈 43'22		max. Earth dist.	4068 Nov 20 01:58	3° ∡ 757'12	1.43114 AU
desc. node	4067 Dec 03 12:32	12° ₹ 02'42	1 44460 ATT	evening rise	4068 Nov 27 07:53	15° ∡ 730′32	
max. Earth dist.	4067 Dec 08 11:28	20° ₹ 00'38	1.44468 AU		4068 Dec 06 19:57	0°る	21041120
	4067 Dec 14 19:59	0°る		evening max el	4068 Dec 28 16:43	29° る 16'58	21-4138
evening rise	4067 Dec 18 19:34	6° る 09'33			4068 Dec 29 10:01	0° ≈	
	4068 Jan 03 16:43	0°≈	20020100	retrograde	4069 Jan 06 18:29	4°≈40'37	
evening max el	4068 Jan 15 19:44	15°≈43'13	20°30'08	asc. node	4069 Jan 09 09:02	4°≈03'55	
retrograde	4068 Jan 23 21:05	20°≈27'52		evening set	4069 Jan 11 02:09	2°≈58'01	
asc. node	4068 Jan 23 12:00	20°≈27'05			4069 Jan 13 22:45	30°Rる	2012/27
evening set	4068 Jan 27 18:25	19° ≈ 00'35		inferior conj	4069 Jan 16 10:24	26°₹40'31	2°12'27
inferior conj	4068 Feb 02 03:19	12°≈52'42		minimum elong	4069 Jan 16 08:01	26°₹48'49	2°11'41
minimum elong	4068 Feb 02 00:52	13°≈01'03	2°48'02	min. Earth dist.	4069 Jan 16 13:47	26°₹28'48	0.67917 AU
min. Earth dist.	4068 Feb 02 18:48	11°≈59'53	0.67451 AU	morning rise	4069 Jan 21 13:41	20°る28'34	
morning rise	4068 Feb 07 07:09	6°≈38'54		direct	4069 Jan 26 13:37	18°る19'33	2205
direct	4068 Feb 12 21:45	4°≈09'11		morning max el	4069 Feb 05 13:56	24°る15'44	22°56'17
morning max el	4068 Feb 24 04:27	10° ≈ 53'36	24°25'28		4069 Feb 10 16:33	0° ≈	
desc. node	4068 Feb 29 11:47	16° ≈ 49'41		desc. node	4069 Feb 15 08:49	5°≈59'24	
	4068 Mar 10 09:45	0° ∀			4069 Mar 03 20:28	0°) €	

morning set max. Earth dist.	4069 Mar 12 01:56 4069 Mar 16 13:08	13°) 13'43 20°) 46'24	1.39854 AU	superior conj minimum elong	4070 Mar 06 02:03 4070 Mar 06 04:23	15° ¥ 52'45 16° ¥ 02'53	
	4069 Mar 21 19:06	0° Y			4070 Mar 14 00:40	0°Υ 5° W 37140	
	40(0 M 24 0(.57	4° Υ 31'23	1051127	evening rise	4070 Mar 17 02:50	5° Υ 37'49 20° Υ 05'11	
superior conj	4069 Mar 24 06:57 4069 Mar 24 11:32	4° Υ 52'25		asc. node	4070 Mar 25 05:21 4070 Mar 31 23:59	0° 8	
minimum elong evening rise	4069 Mai 24 11.32 4069 Apr 02 23:54	4 γ 32 23 22° Υ 48'47	1 31 03	avaning may al	4070 Mai 31 23.39 4070 Apr 02 13:46	1° 8 41'41	18°09'37
evening rise	4069 Apr 06 19:05	0° 8		evening max el retrograde	4070 Apr 09 08:51	5° 8 07'58	18 09 37
asc. node	4069 Apr 07 08:20	1° 8 01'24		evening set	4070 Apr 11 22:45	4° 8 38'47	
evening max el	4069 Apr 19 04:06	18° 8 48'32	18°29'51	inferior conj	4070 Apr 18 17:50	29° Y 47'39	3°01'21
retrograde	4069 Apr 26 18:38	22° 8 33'35	10 2) 31	minimum elong	4070 Apr 18 20:54	29° Υ 40'33	3°00'46
evening set	4069 Apr 29 01:57	22° 8 14'01		g	4070 Apr 18 12:28	30°RY	2 00 .0
inferior conj	4069 May 06 14:20	17° 8 43'51	2°05'22	min. Earth dist.	4070 Apr 22 01:20	26° Ƴ 45'43	0.60346 AU
minimum elong	4069 May 06 17:57	17° 8 36'40	2°04'18	morning rise	4070 Apr 25 16:48	23° Y 59'06	
min. Earth dist.	4069 May 10 00:29	15° 8 02'22	0.58186 AU	desc. node	4070 May 01 05:02	21° Y 57'12	
morning rise	4069 May 14 06:48	12° 8 18'53		direct	4070 May 02 07:10	21° Y 53'51	
desc. node	4069 May 14 08:01	12° 8 17'23		morning max el	4070 May 16 14:18	29° Ƴ 47'06	27°39'52
direct	4069 May 20 05:11	10° 8 48'22			4070 May 16 19:30	0°8	
morning max el	4069 Jun 03 14:27	18° 8 29'02	26°51'06		4070 Jun 07 05:36	Π $^{\circ}0$	
	4069 Jun 13 06:14	Π $^{\circ}0$		morning set	4070 Jun 17 16:20	20° Ⅱ 00'33	
	4069 Jun 30 18:38	0°ಅ		asc. node	4070 Jun 21 04:37	27° Ⅱ 26′29	
morning set	4069 Jul 03 09:47	5° 5 26'03			4070 Jun 22 08:58	0 \circ \odot	
asc. node	4069 Jul 04 07:35	7° 5 21'22		max. Earth dist.	4070 Jun 23 22:24	3°524'30	1.32075 AU
superior conj	4069 Jul 10 10:18	20°5941'00	1°00'17	superior conj	4070 Jun 24 21:40	5° © 32'18	0°38'06
minimum elong	4069 Jul 10 08:06	20°528'53	0°59'53	minimum elong	4070 Jun 24 20:03	5° © 23'27	0°37'45
max. Earth dist.	4069 Jul 10 11:01	20° © 44'57	1.32056 AU	evening rise	4070 Jul 01 17:22	20° © 24'54	
	4069 Jul 14 16:12	$0^{\circ}\Omega$			4070 Jul 06 09:12	$0^{\circ}\Omega$	
evening rise	4069 Jul 17 07:03	5° Ω 36′07			4070 Jul 25 10:22	0°Щ	
	4069 Jul 30 04:17	0°Щ		desc. node	4070 Jul 28 04:18	2° My 56'29	
desc. node	4069 Aug 10 07:17	16° Mp 04'41		evening max el	4070 Jul 28 23:55	3° m/44'23	25°30'46
evening max el	4069 Aug 16 04:32	22° m 29'02	26°40'40	retrograde	4070 Aug 11 23:05	10° Mp 50'01	
retrograde	4069 Aug 30 03:10	29° m 39'27		evening set	4070 Aug 17 21:05	9° m 28'29	0.50052 444
evening set	4069 Sep 05 22:37	27° m 41'34	0.0000 ATT	min. Earth dist.	4070 Aug 22 11:50	6° Mp 49'19	0.58053 AU
min. Earth dist.	4069 Sep 09 18:26	25° m 05'14 22° m 28'06	0.60090 AU	inferior conj	4070 Aug 25 15:09	4° m/ 37'45 4° m/ 34'12	
inferior conj minimum elong	4069 Sep 13 00:22 4069 Sep 13 05:44	22° mp 17'12		minimum elong	4070 Aug 25 17:10 4070 Sep 02 15:31	4 البارة 12 0° البارة 19' 59	3 08 32
morning rise	4069 Sep 20 14:52	17° Mp 47'20	4 36 49	morning rise direct	4070 Sep 02 13:31 4070 Sep 05 03:39	0° my 00'35	
direct	4069 Sep 22 23:38	17° Mp 26'31		morning max el	4070 Sep 13 16:27	4° Mp 03'39	18°50'26
asc. node	4069 Sep 30 06:49	20° m 55'13		asc. node	4070 Sep 17 10:27	7° m) 58'35	10 30 20
morning max el	4069 Sep 30 12:00	21° mp 07'35	18°11'00	use. Houe	4070 Sep 29 22:54	0₀ ʊ	
	4069 Oct 07 06:02	0∘ ʊ	10 11 00	morning set	4070 Sep 30 04:11	0° £ 25'55	
morning set	4069 Oct 16 07:53	16° ≏ 15'26		morning sev	1070 Sep 30 0 1.11	0 —2000	
	4069 Oct 23 16:19	0°M		superior conj	4070 Oct 08 16:24	16° ≏ 59'47	1°33'24
				minimum elong	4070 Oct 08 19:09	17° £ 12'51	1°33'11
superior conj	4069 Oct 25 20:24	3°M57'00	1°14'32	max. Earth dist.	4070 Oct 15 17:04	29° ≏ 55'39	1.39231 AU
minimum elong	4069 Oct 26 00:25	4° ™ 15'05	1°14'04		4070 Oct 15 18:03	0°M	
max. Earth dist.	4069 Nov 02 11:33	17°M17'26	1.41294 AU	evening rise	4070 Oct 19 15:17	6°M45'50	
desc. node	4069 Nov 06 06:34	23°M36'20		desc. node	4070 Oct 24 03:35	14°M17'27	
evening rise	4069 Nov 07 12:09	25°M36'57			4070 Nov 03 06:22	0° ∡ ¹	
	4069 Nov 10 05:42	0° ⊼		evening max el	4070 Nov 23 22:23	26° ₹ 32'32	24°19'46
	4069 Nov 30 15:37	0°ಕ			4070 Nov 27 20:08	0°る	
evening max el	4069 Dec 11 09:02		23°00'10	retrograde	4070 Dec 05 04:41	3° る 08'15	
retrograde	4069 Dec 21 13:24	18° ろ 55'18		evening set	4070 Dec 10 13:49	0° る 53'36	
evening set	4069 Dec 26 09:08	16° る 56'36			4070 Dec 11 13:01	30°R.✓	
asc. node	4069 Dec 27 06:04	16°る09'07	1020152	asc. node	4070 Dec 14 03:05	27°×700'49	0.67741.444
inferior conj	4069 Dec 31 18:16	10°る33'09	1°28'52	min. Earth dist.	4070 Dec 15 06:29	25° ₹ 30'46	0.67741 AU
minimum elong	4069 Dec 31 16:23	10°る39'37 11°る00'06	1°28'09	inferior conj	4070 Dec 16 01:07	24° 🗷 28'13	0°38'57
min. Earth dist.	4069 Dec 31 10:27 4070 Jan 05 23:31	4°る24'53	0.68007 AU	minimum elong	4070 Dec 16 00:12 4070 Dec 21 10:38	24° 尽 31'19 18° 尽 25'38	0°38'35
morning rise direct	4070 Jan 05 23:31 4070 Jan 10 08:58	4°624'53 2° る 38'45		morning rise direct	4070 Dec 21 10:38 4070 Dec 25 06:38	18°×'25'38 17°× 7 01'45	
morning max el	4070 Jan 10 08:58 4070 Jan 19 03:51		21°31'00	morning max el	4070 Dec 25 06:38 4071 Jan 02 01:11	21° × '01'43	20°15'58
desc. node	4070 Feb 02 05:50	7 343 38 25° る 41'34	21 3100	morning max ci	4071 Jan 02 01:11 4071 Jan 09 03:38	21 x·2/43	20 13 30
acse. Houc	4070 Feb 02 03:30 4070 Feb 05 05:25	23 ⊙ 41 34		desc. node	4071 Jan 20 02:51	0 ප 15° ප් 47'08	
morning set	4070 Feb 19 20:49	0 ∞ 22°≈18'48		acse. Houc	4071 Jan 29 11:00	0°≈	
	4070 Feb 24 15:31	0° ∀		morning set	4071 Jan 29 19:02	0°≈31'02	
max. Earth dist.	4070 Feb 26 13:24		1.41949 AU	max. Earth dist.	4071 Feb 08 21:39	16°≈25'24	1.43675 AU

superior conj	4071 Feb 14 20:13	26°≈05'03	-2°05'37	morning set	4072 Jan 08 19:50	9° ට 00'18	
minimum elong	4071 Feb 14 17:19	25° ≈ 53'05	2°05'32	Č	4072 Jan 22 06:27	0° ≈	
	4071 Feb 17 04:52	0°) €		max. Earth dist.	4072 Jan 22 12:16	0° ≈ 22'58	1.44819 AU
evening rise	4071 Feb 27 12:43	17°) 38′11					
	4071 Mar 06 16:37	$0^{\circ}\mathbf{\Upsilon}$		superior conj	4072 Jan 25 13:26	5° ≈ 12'27	-1°46'48
asc. node	4071 Mar 12 02:23	8° Y 37'26		minimum elong	4072 Jan 25 05:03	4° ≈ 39'11	1°46'08
evening max el	4071 Mar 17 02:13	14° Y 53'09	18°08'46	evening rise	4072 Feb 09 01:25	28° ≈ 43'11	
retrograde	4071 Mar 23 13:02	18° Ƴ 16′06			4072 Feb 09 20:00	0° ℋ	
evening set	4071 Mar 26 08:49	17° Y 35'55		asc. node	4072 Feb 26 23:26	26° ∺ 28'53	
inferior conj	4071 Apr 01 14:35	12° Y 24'37	3°29'36	evening max el	4072 Feb 28 14:37	28° ¥ 16′25	18°26'40
minimum elong	4071 Apr 01 16:00	12° Y 20′52	3°29'28		4072 Mar 01 13:07	0 ° Υ	
min. Earth dist.	4071 Apr 04 10:37	9° Ƴ 26'40	0.62487 AU	retrograde	4072 Mar 06 02:36	1° Y '49'01	
morning rise	4071 Apr 07 21:51	6° Ƴ 21'48		evening set	4072 Mar 09 04:16	0° Ƴ 56'56	
direct	4071 Apr 14 18:49	3° Y 48'44			4072 Mar 10 14:05	30°Ŗ ℋ	
desc. node	4071 Apr 18 02:04	4° Y 20′36		inferior conj	4072 Mar 15 00:31	25°) €27'15	3°36'26
morning max el	4071 Apr 28 20:07	11° Y 47'24	27°51'15	minimum elong	4072 Mar 15 00:16	25° ∺ 28′01	3°36'25
	4071 May 13 05:32	$0^{\circ}S$		min. Earth dist.	4072 Mar 17 05:31	22°) 52′48	0.64380 AU
	4071 May 30 14:12	$\Pi^{\circ}0$		morning rise	4072 Mar 20 19:32	19° 升 17′02	
morning set	4071 Jun 01 17:24	4° Ⅱ 15'35		direct	4072 Mar 27 14:44	16°) €28'39	
max. Earth dist.	4071 Jun 07 06:07	15° Ⅱ 49'17	1.32507 AU	desc. node	4072 Apr 03 23:06	19°) €06'13	
asc. node	4071 Jun 08 01:39	17° Ⅱ 34'25		morning max el	4072 Apr 10 05:29		27°26'17
					4072 Apr 15 06:54	0 ° Υ	
superior conj	4071 Jun 09 06:50	20° Ⅱ 12'29			4072 May 05 15:01	0°8	
minimum elong	4071 Jun 09 06:14	20° Ⅱ 09'14	0°12'35	morning set	4072 May 15 10:24	18° 8 03'30	
behind sun begin	4071 Jun 09 03:02	19° Ⅱ 51'50		max. Earth dist.	4072 May 20 06:06	27° 8 47'23	1.33381 AU
behind sun end	4071 Jun 09 09:26	20° Ⅱ 26'38			4072 May 21 07:35	Π $^{\circ}0$	
	4071 Jun 13 18:43	0 \circ \odot					
evening rise	4071 Jun 16 05:07	5° © 13'57		superior conj	4072 May 23 11:58	4° Ⅱ 36'14	
	4071 Jun 29 08:52	$0^{\circ}\Omega$		minimum elong	4072 May 23 12:44	4° Ⅱ 40'19	0°14'55
evening max el	4071 Jul 10 13:21	14° Ω 19'36	23°59'39	behind sun begin	4072 May 23 10:46	4° Ⅱ 29'50	
desc. node	4071 Jul 15 01:19	18° Ω 02'13		behind sun end	4072 May 23 14:42	4° Ⅱ 50'48	
retrograde	4071 Jul 24 07:27	21° Ω 14'57		asc. node	4072 May 24 22:42	7° Ⅱ 41′26	
evening set	4071 Jul 28 19:49	20° Ω 29'53		evening rise	4072 May 30 16:30	19° Ⅱ 57'29	
min. Earth dist.	4071 Aug 03 23:44	17° Ω 30′06	0.56280 AU		4072 Jun 04 14:41	0	
inferior conj	4071 Aug 06 09:37	16° Ω 01′22		evening max el	4072 Jun 21 03:40	24° © 43'33	22°22'41
minimum elong	4071 Aug 06 05:43	16° Ω 07'23	5°01'51		4072 Jun 28 14:50	$0 {\circ} \Omega$	
morning rise	4071 Aug 14 18:12	12° Ω 03'24		desc. node	4072 Jun 30 22:21	0° Ω 47'09	
direct	4071 Aug 17 12:07	11° Ω 43'57		retrograde	4072 Jul 04 03:53	1° Ω 11'15	
morning max el	4071 Aug 27 10:38	16° Ω 21'05	19°51'41	evening set	4072 Jul 07 04:43	0° Ω 50'53	
asc. node	4071 Sep 04 00:53	25° Ω 56'31			4072 Jul 09 23:00	30° ₹ 5	
	4071 Sep 06 11:47	O° m		min. Earth dist.	4072 Jul 15 10:24	27° © 16'43	0.55120 AU
morning set	4071 Sep 14 07:43	14° m 57'01		inferior conj	4072 Jul 16 10:32	26° © 42'34	-4°06'57
	4071 Sep 21 17:52	0∘ ⊽		minimum elong	4072 Jul 16 02:12	26° © 54'23	4°04'57
				morning rise	4072 Jul 25 01:38	22° © 52'06	
superior conj	4071 Sep 22 03:11	0° ≏ 46′28	1°42'39	direct	4072 Jul 28 03:23	22° © 30'45	
minimum elong	4071 Sep 22 04:16	0° ჲ 51'48	1°42'37	morning max el	4072 Aug 08 17:00	27° © 53'58	21°13'44
max. Earth dist.	4071 Sep 27 22:04	11° ≏ 59'18	1.37173 AU		4072 Aug 10 19:06	$0 {\circ} \Omega$	
evening rise	4071 Oct 01 16:49	18° ≏ 56'39		asc. node	4072 Aug 20 21:56	14° Ω 36′23	
	4071 Oct 08 01:58	0° M ₊		morning set	4072 Aug 28 15:54	29° Ω 41'33	
desc. node	4071 Oct 11 00:36	4°M49'26			4072 Aug 28 19:28	0° m	
_	4071 Oct 28 10:31	0° ∡					
evening max el	4071 Nov 06 10:41	10° ⊀ 14'41	25°33'35	superior conj	4072 Sep 05 00:25	15° Mp 04'01	1°43'52
retrograde	4071 Nov 18 15:37	17° ∡ 15'10		minimum elong	4072 Sep 04 23:58	15° m 01'43	1°43'52
evening set	4071 Nov 24 14:35	14° ≯ 46'28		max. Earth dist.	4072 Sep 09 08:02	23° m 50'31	1.35350 AU
min. Earth dist.	4071 Nov 28 23:39	9° ≯ 58'20			4072 Sep 12 11:44	0∘ ⊽	
inferior conj	4071 Nov 30 05:15	8° ≮ 23'32		evening rise	4072 Sep 13 12:57	1° ≏ 59'57	
minimum elong	4071 Nov 30 05:40	8° ≯ 22'12		desc. node	4072 Sep 26 21:38	25° Ω 06'50	
transit middle	4071 Nov 30 05:40	8° ≯ 22'12	0°15'59		4072 Sep 30 01:46	0° ™	
transit begin	4071 Nov 30 05:15	8° ∡ 23'34		evening max el	4072 Oct 18 23:08	23°M54'57	26°34'10
transit end	4071 Nov 30 06:06	8° ≯ 20'50			4072 Oct 27 04:23	0° ∡	
asc. node	4071 Dec 01 00:08	7° ∡ ¹23'28		retrograde	4072 Oct 31 21:28	1° ₹ 09'16	
morning rise	4071 Dec 05 21:06	2° ∡ ¹28'52			4072 Nov 05 05:28	30°RM	
direct	4071 Dec 09 05:17	1° ∡ 124'37		evening set	4072 Nov 07 09:27	28°M30'50	
morning max el	4071 Dec 16 06:30	5° ∡ 120'39		min. Earth dist.	4072 Nov 11 11:38		0.66159 AU
greatest brilliancy	4071 Dec 29 22:20	23° ∡ ⁴46′12	-0.7m	inferior conj	4072 Nov 13 04:41	22°M15'13	
	4072 Jan 03 00:07	0° ろ		minimum elong	4072 Nov 13 06:45		1°14'26
desc. node	4072 Jan 06 23:52	6° る 09'50		asc. node	4072 Nov 16 21:11	18°M13'21	

morning rise	4072 Nov 19 04:45	16°M30'58		morning rise	4073 Nov 03 07:04	0°M28'05	
direct	4072 Nov 22 03:11	15°M42'38		asc. node	4073 Nov 03 18:12	0°M16'29	
morning max el	4072 Nov 28 18:11	19°M19'35	18°29'38		4073 Nov 04 16:11	30° ŖΩ	
	4072 Dec 06 22:44	0°⊀		direct	4073 Nov 05 22:10	29° ჲ 51'43	
morning set	4072 Dec 18 20:33	18° ≯ 44'54			4073 Nov 07 04:13	0° M	
desc. node	4072 Dec 23 20:53	26° ₹ 44'14		morning max el	4073 Nov 12 09:48	3°M18'51	18°01'09
	4072 Dec 25 22:16	0°ರ		morning set	4073 Nov 30 02:54	29°M58'11	
					4073 Nov 30 03:20	0° ∡ ¹	
superior conj	4073 Jan 03 16:19	13° る 46'48		desc. node	4073 Dec 10 17:57	17° ∡ ¹26'44	
minimum elong	4073 Jan 03 08:01		1°08'36				
max. Earth dist.	4073 Jan 04 06:22	14° る 41'57	1.45264 AU	superior conj	4073 Dec 14 01:11	22° ∡ ⁴44'47	
	4073 Jan 14 00:18	0° ≈		minimum elong	4073 Dec 13 22:24	22° ∡ ³33'42	
evening rise	4073 Jan 19 14:44	8° ≈ 50'45		max. Earth dist.	4073 Dec 18 01:35	29° ∡ 07'12	1.44972 AU
greatest brilliancy	4073 Jan 29 02:21	23° ≈ 49'53	-0.8m		4073 Dec 18 14:59	0° ろ	
	4073 Feb 02 02:42	0° ∀		evening rise	4073 Dec 30 08:19	18° る 14'43	
evening max el	4073 Feb 11 00:30		19°02'22		4074 Jan 07 00:10	0° ≈	
asc. node	4073 Feb 12 20:30	13°) €26'47		greatest brilliancy	4074 Jan 13 08:12	9° ≈ 32'29	-0.6m
retrograde	4073 Feb 17 21:41	15°) € 38'46		evening max el	4074 Jan 25 06:05	25°≈17'06	19°54'06
evening set	4073 Feb 21 05:58	14°) €33'51	2025110	asc. node	4074 Jan 30 17:31	29°≈17'20	
inferior conj	4073 Feb 26 19:52	8°) (47'37		retrograde	4074 Feb 01 19:18	29° ≈ 40'33	
minimum elong	4073 Feb 26 18:21	8°) €52'27		evening set	4074 Feb 05 11:29	28°≈21'42	
min. Earth dist.	4073 Feb 28 09:25	6°) (48'57	0.65904 AU	inferior conj	4074 Feb 10 21:38	22°≈21'07	3°05'36
morning rise	4073 Mar 04 06:22	2°) (34'19		minimum elong	4074 Feb 10 19:22	22°≈28'41	3°05'08
1	4073 Mar 08 17:15	30°R≈ 20°a - 44/24		min. Earth dist.	4074 Feb 11 20:45	21°≈03'54	0.67012 AU
direct	4073 Mar 10 17:28	29°≈44'24		morning rise	4074 Feb 16 03:01	16°≈07'10	
	4073 Mar 12 19:45	0°) {		direct	4074 Feb 22 01:52	13°≈27'36	2501.452
desc. node	4073 Mar 21 20:07	5°) (38'44	26021110	morning max el	4074 Mar 06 00:16	20°≈35'13	25°14'52
morning max el	4073 Mar 23 15:22	7°) 23′28 0° Υ	26°31'10	desc. node	4074 Mar 08 17:09	23° ≈ 28'37 0° 升	
	4073 Apr 10 04:33	0° 8			4074 Mar 14 02:46	0° Υ	
marning sat	4073 Apr 28 00:10	1° 8 13'36		marning sat	4074 Apr 03 08:57	13° Υ 32'13	
morning set max. Earth dist.	4073 Apr 28 15:50 4073 May 02 19:02	9° 8 12'30	1.34715 AU	morning set max. Earth dist.	4074 Apr 11 05:01 4074 Apr 14 20:54	13 γ 32 13 20° Υ 15'23	1.36495 AU
max. Earm dist.	4073 May 02 19.02	9 012 30	1.54/15 AU	max. Earth dist.	4074 Apr 19 22:52	0° 8	1.30493 AU
superior conj	4073 May 07 10:46	18° 8 36'38	-0°44'09		40/4 Apr 19 22.32	00	
minimum elong	4073 May 07 10:40	18° 8 48'46	0°43'41	superior conj	4074 Apr 21 00:21	2° 8 05'35	-1°12'56
asc. node	4073 May 11 19:47	27° 8 43'23	0 45 41	minimum elong	4074 Apr 21 04:14	2° 8 24'46	1°12'18
use. Houe	4073 May 12 21:52	0°Ⅱ		asc. node	4074 Apr 28 16:50	17° 8 35'40	1 12 10
evening rise	4073 May 15 01:32	4° ∏ 29'11		evening rise	4074 Apr 29 05:59	18° 8 42'11	
e vennig 1150	4073 May 29 09:31	0.2 . 2 . 1		evening rise	4074 May 05 00:43	0°II	
evening max el	4073 Jun 03 02:44	5° © 29'12	20°54'10	evening max el	4074 May 16 13:54		19°42'23
retrograde	4073 Jun 14 16:42	11° © 09'26		retrograde	4074 May 26 09:59	21° Ⅱ 40′38	
evening set	4073 Jun 16 19:58	10° © 58'37		evening set	4074 May 28 08:58	21° II 30'06	
desc. node	4073 Jun 17 19:22	10°5546'49		desc. node	4074 Jun 04 16:24	18° Ⅲ 22'23	
inferior conj	4073 Jun 26 03:53	7° 5 01'19	-2°25'53			10 112223	
minimum elong	4072 I 25 21.12			inferior conj	4074 Jun 06 04:06	17° П 27'29	-0°26'26
min. Earth dist.	4073 Jun 25 21:12	7° © 10'48		inferior conj minimum elong	4074 Jun 06 04:06 4074 Jun 06 02:54		-0°26'26 0°25'59
min. Darth dist.	4073 Jun 25 21:12 4073 Jun 26 22:02	7° © 10'48 6° © 35'35	2°23'34	-		17° Ⅱ 27'29	
morning rise			2°23'34	minimum elong	4074 Jun 06 02:54	17° Ⅲ 27'29 17° Ⅲ 29'21	0°25'59
	4073 Jun 26 22:02	6° © 35'35	2°23'34	minimum elong min. Earth dist.	4074 Jun 06 02:54 4074 Jun 08 11:15	17° Д 27'29 17° Д 29'21 16° Д 01'49	0°25'59
morning rise	4073 Jun 26 22:02 4073 Jul 04 22:13	6°\$35'35 2°\$59'18	2°23'34 0.54848 AU	minimum elong min. Earth dist. morning rise	4074 Jun 06 02:54 4074 Jun 08 11:15 4074 Jun 14 18:30	17°Щ27'29 17°Щ29'21 16°Щ01'49 12°Щ56'37	0°25'59 0.55544 AU
morning rise direct	4073 Jun 26 22:02 4073 Jul 04 22:13 4073 Jul 08 12:46	6°©35'35 2°©59'18 2°©31'15	2°23'34 0.54848 AU	minimum elong min. Earth dist. morning rise direct	4074 Jun 06 02:54 4074 Jun 08 11:15 4074 Jun 14 18:30 4074 Jun 19 04:50	17°Д27'29 17°Д29'21 16°Д01'49 12°Д56'37 12°Д13'04	0°25'59 0.55544 AU
morning rise direct	4073 Jun 26 22:02 4073 Jul 04 22:13 4073 Jul 08 12:46 4073 Jul 21 12:55	6°935'35 2°959'18 2°931'15 8°945'03	2°23'34 0.54848 AU	minimum elong min. Earth dist. morning rise direct	4074 Jun 06 02:54 4074 Jun 08 11:15 4074 Jun 14 18:30 4074 Jun 19 04:50 4074 Jul 03 03:07	17° Щ27'29 17° Щ29'21 16° Щ01'49 12° Щ56'37 12° Щ13'04 19° Щ10'13	0°25'59 0.55544 AU
morning rise direct morning max el	4073 Jun 26 22:02 4073 Jul 04 22:13 4073 Jul 08 12:46 4073 Jul 21 12:55 4073 Aug 05 18:19	6°\$35'35 2°\$59'18 2°\$31'15 8°\$45'03 0°\$	2°23'34 0.54848 AU	minimum elong min. Earth dist. morning rise direct morning max el	4074 Jun 06 02:54 4074 Jun 08 11:15 4074 Jun 14 18:30 4074 Jun 19 04:50 4074 Jul 03 03:07 4074 Jul 12 05:12	17°П27'29 17°П29'21 16°П01'49 12°П56'37 12°П13'04 19°П10'13 0°© 23°©22'20 29°©28'08	0°25'59 0.55544 AU
morning rise direct morning max el asc. node	4073 Jun 26 22:02 4073 Jul 04 22:13 4073 Jul 08 12:46 4073 Jul 21 12:55 4073 Aug 05 18:19 4073 Aug 07 18:59	6°\$35'35 2°\$59'18 2°\$31'15 8°\$45'03 0°\$\Omega\$ 3°\$\Omega\$47'58	2°23'34 0.54848 AU	minimum elong min. Earth dist. morning rise direct morning max el asc. node	4074 Jun 06 02:54 4074 Jun 08 11:15 4074 Jun 14 18:30 4074 Jun 19 04:50 4074 Jul 03 03:07 4074 Jul 12 05:12 4074 Jul 25 16:02	17°П27'29 17°П29'21 16°П01'49 12°П56'37 12°П13'04 19°П10'13 0°© 23°©22'20	0°25'59 0.55544 AU
morning rise direct morning max el asc. node	4073 Jun 26 22:02 4073 Jul 04 22:13 4073 Jul 08 12:46 4073 Jul 21 12:55 4073 Aug 05 18:19 4073 Aug 07 18:59	6°\$35'35 2°\$59'18 2°\$31'15 8°\$45'03 0°\$\Omega\$ 3°\$\Omega\$47'58	2°23'34 0.54848 AU	minimum elong min. Earth dist. morning rise direct morning max el asc. node	4074 Jun 06 02:54 4074 Jun 08 11:15 4074 Jun 14 18:30 4074 Jun 19 04:50 4074 Jul 03 03:07 4074 Jul 12 05:12 4074 Jul 25 16:02 4074 Jul 28 14:35	17°П27'29 17°П29'21 16°П01'49 12°П56'37 12°П13'04 19°П10'13 0°© 23°©22'20 29°©28'08	0°25'59 0.55544 AU
morning rise direct morning max el asc. node morning set	4073 Jun 26 22:02 4073 Jul 04 22:13 4073 Jul 08 12:46 4073 Jul 21 12:55 4073 Aug 05 18:19 4073 Aug 07 18:59 4073 Aug 13 02:48	6°\$35'35 2°\$59'18 2°\$31'15 8°\$45'03 0°\$\Omega\$3'\Omega\$47'58 14°\Omega\$33'58	2°23'34 0.54848 AU 22°51'40	minimum elong min. Earth dist. morning rise direct morning max el asc. node	4074 Jun 06 02:54 4074 Jun 08 11:15 4074 Jun 14 18:30 4074 Jun 19 04:50 4074 Jul 03 03:07 4074 Jul 12 05:12 4074 Jul 25 16:02 4074 Jul 28 14:35	17° II 27'29 17° II 29'21 16° II 01'49 12° II 56'37 12° II 13'04 19° II 10'13 0° © 23° © 22'20 29° © 28'08 0° Ω 14° Q 32'31	0°25'59 0.55544 AU 24°34'57 1°27'18
morning rise direct morning max el asc. node morning set superior conj minimum elong	4073 Jun 26 22:02 4073 Jul 04 22:13 4073 Jul 08 12:46 4073 Jul 21 12:55 4073 Aug 05 18:19 4073 Aug 07 18:59 4073 Aug 13 02:48 4073 Aug 20 04:45 4073 Aug 20 03:12 4073 Aug 20 08:03	6°\$35'35 2°\$59'18 2°\$31'15 8°\$45'03 0°\$A 3°\$A47'58 14°\$A33'58 29°\$A42'25 29°\$A34'07 0°\$	2°23'34 0.54848 AU 22°51'40 1°38'24 1°38'17	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	4074 Jun 06 02:54 4074 Jun 08 11:15 4074 Jun 14 18:30 4074 Jun 19 04:50 4074 Jul 03 03:07 4074 Jul 12 05:12 4074 Jul 28 14:35 4074 Jul 28 20:35 4074 Aug 04 13:33 4074 Aug 04 11:22	17° II 27'29 17° II 29'21 16° II 01'49 12° II 56'37 12° II 13'04 19° II 10'13 0° © 23° © 22'20 29° © 28'08 0° Ω 14° Ω 32'31 14° Ω 20'37	0°25'59 0.55544 AU 24°34'57 1°27'18 1°27'02
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morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	4073 Jun 26 22:02 4073 Jul 04 22:13 4073 Jul 08 12:46 4073 Jul 21 12:55 4073 Aug 05 18:19 4073 Aug 07 18:59 4073 Aug 13 02:48 4073 Aug 20 04:45 4073 Aug 20 08:03 4073 Aug 20 08:03 4073 Aug 23 02:52 4073 Aug 27 23:20 4073 Sep 04 14:38 4073 Sep 13 18:41	6°\$35'35 2°\$59'18 2°\$31'15 8°\$45'03 0°\$\Omega\$33'58 14°\$\Omega\$33'58 29°\$\Omega\$42'25 29°\$\Omega\$34'07 0°\$\Omega\$52'36 15°\$\Omega\$44'12 0°\$\Omega\$15°\$\Omega\$252	2°23'34 0.54848 AU 22°51'40 1°38'24 1°38'17	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	4074 Jun 06 02:54 4074 Jun 08 11:15 4074 Jun 14 18:30 4074 Jun 19 04:50 4074 Jul 03 03:07 4074 Jul 12 05:12 4074 Jul 25 16:02 4074 Jul 28 14:35 4074 Jul 28 20:35 4074 Aug 04 13:33 4074 Aug 04 11:22 4074 Aug 04 11:22 4074 Aug 11 19:59 4074 Aug 11 20:31 4074 Aug 28 15:39	17° Π27'29 17° Π29'21 16° Π01'49 12° Π56'37 12° Π13'04 19° Π10'13 0° © 23° © 22'20 29° © 28'08 0° Ω 14° Ω32'31 14° Ω20'37 18° Ω13'41 29° Ω57'17 0° M 0° Ω	0°25'59 0.55544 AU 24°34'57 1°27'18 1°27'02
morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	4073 Jun 26 22:02 4073 Jul 04 22:13 4073 Jul 08 12:46 4073 Jul 21 12:55 4073 Aug 05 18:19 4073 Aug 07 18:59 4073 Aug 13 02:48 4073 Aug 20 04:45 4073 Aug 20 03:12 4073 Aug 20 03:03 4073 Aug 20 03:03 4073 Aug 27 23:20 4073 Sep 04 14:38 4073 Sep 13 18:41 4073 Sep 24 16:14	6°\$35'35 2°\$59'18 2°\$31'15 8°\$45'03 0°\$\Omega\$33'58 14°\$\Omega\$33'58 29°\$\Omega\$4'07 0°\$\Omega\$52'36 15°\$\Omega\$44'12 0°\$\Omega\$15°\$\Omega\$02'52 0°\$\Omega\$	2°23'34 0.54848 AU 22°51'40 1°38'24 1°38'17 1.33897 AU	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	4074 Jun 06 02:54 4074 Jun 08 11:15 4074 Jun 14 18:30 4074 Jun 19 04:50 4074 Jul 03 03:07 4074 Jul 12 05:12 4074 Jul 25 16:02 4074 Jul 28 14:35 4074 Jul 28 20:35 4074 Aug 04 13:33 4074 Aug 04 11:22 4074 Aug 04 11:22 4074 Aug 11 19:59 4074 Aug 11 20:31 4074 Aug 28 15:39 4074 Aug 31 15:43	17° \$\Pi27'29\$ 17° \$\Pi29'21\$ 16° \$\Pi01'49\$ 12° \$\Pi56'37\$ 12° \$\Pi10'13\$ 0° \$\Pi 23° \$\Pi22'20\$ 29° \$\Pi28'08\$ 0° \$\Omega\$ 14° \$\Omega\$23'31 14° \$\Omega\$23'31 14° \$\Omega\$23'71 0° \$\Pi\$ 0° \$\Pi 4° \$\Pi27'28\$	0°25'59 0.55544 AU 24°34'57 1°27'18 1°27'02 1.32859 AU
morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	4073 Jun 26 22:02 4073 Jul 04 22:13 4073 Jul 08 12:46 4073 Jul 21 12:55 4073 Aug 05 18:19 4073 Aug 07 18:59 4073 Aug 13 02:48 4073 Aug 20 04:45 4073 Aug 20 03:12 4073 Aug 20 08:03 4073 Aug 23 02:52 4073 Aug 27 23:20 4073 Sep 04 14:38 4073 Sep 13 18:41 4073 Sep 24 16:14 4073 Oct 01 11:40	6°\$35'35 2°\$59'18 2°\$31'15 8°\$45'03 0°\$\Omega\$47'58 14°\$\Omega\$33'58 29°\$\Omega\$42'25 29°\$\Omega\$4'07 0°\$\Omega\$52'36 15°\$\Omega\$44'12 0°\$\Omega\$15°\$\Omega\$02'52 0°\$\Omega\$7"\$\Column{1}{C}\$13'	2°23'34 0.54848 AU 22°51'40 1°38'24 1°38'17 1.33897 AU	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	4074 Jun 06 02:54 4074 Jun 08 11:15 4074 Jun 14 18:30 4074 Jun 19 04:50 4074 Jul 03 03:07 4074 Jul 12 05:12 4074 Jul 25 16:02 4074 Jul 28 14:35 4074 Jul 28 20:35 4074 Aug 04 11:22 4074 Aug 04 06:19 4074 Aug 11 19:59 4074 Aug 11 19:59 4074 Aug 28 15:39 4074 Aug 31 15:43 4074 Sep 13 22:26	17° M27'29 17° M29'21 16° M01'49 12° M56'37 12° M13'04 19° M10'13 0° © 23° © 22'20 29° © 28'08 0° N 14° N32'31 14° N20'37 18° N57'17 0° M 0° Ω 4° Ω27'28 20° Ω31'36	0°25'59 0.55544 AU 24°34'57 1°27'18 1°27'02 1.32859 AU
morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	4073 Jun 26 22:02 4073 Jul 04 22:13 4073 Jul 08 12:46 4073 Jul 21 12:55 4073 Aug 05 18:19 4073 Aug 07 18:59 4073 Aug 13 02:48 4073 Aug 20 04:45 4073 Aug 20 03:12 4073 Aug 20 08:03 4073 Aug 23 02:52 4073 Aug 27 23:20 4073 Sep 04 14:38 4073 Sep 13 18:41 4073 Oct 01 11:40 4073 Oct 14 21:33	6°\$35'35 2°\$59'18 2°\$31'15 8°\$45'03 0°\$\Omega\$33'58 14°\$\Omega\$33'58 29°\$\Omega\$42'25 29°\$\Omega\$4'07 0°\$\Omega\$5'36 15°\$\Omega\$44'12 0°\$\Omega\$15°\$\Omega\$02'52 0°\$\Omega\$13 14°\$\Omega\$43'14	2°23'34 0.54848 AU 22°51'40 1°38'24 1°38'17 1.33897 AU	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	4074 Jun 06 02:54 4074 Jun 08 11:15 4074 Jun 14 18:30 4074 Jun 19 04:50 4074 Jul 03 03:07 4074 Jul 12 05:12 4074 Jul 25 16:02 4074 Jul 28 14:35 4074 Jul 28 20:35 4074 Aug 04 11:22 4074 Aug 06 06:19 4074 Aug 11 19:59 4074 Aug 11 19:59 4074 Aug 11 120:31 4074 Aug 31 15:43 4074 Sep 13 22:26 4074 Sep 27 15:04	17° \$\mathbb{T}27'29\\ 17° \$\mathbb{T}29'21\\ 16° \$\mathbb{T}01'49\\ 12° \$\mathbb{T}36'37\\ 12° \$\mathbb{T}10'13\\ 0° \$\mathbb{O}\\ 23° \$\mathbb{O}22'20\\ 29° \$\mathbb{O}28'08\\ 0° \$\mathbb{A}\\ 14° \$\mathbb{A}32'31\\ 14° \$\mathbb{A}20'37\\ 18° \$\mathbb{A}13'41\\ 29° \$\mathbb{A}57'17\\ 0° \$\mathbb{O}\\ 4° \$\mathbb{D}27'28\\ 20° \$\mathbb{A}31'36\\ 27° \$\mathbb{A}47'27\\ \end{array}	0°25'59 0.55544 AU 24°34'57 1°27'18 1°27'02 1.32859 AU
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morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	4073 Jun 26 22:02 4073 Jul 04 22:13 4073 Jul 08 12:46 4073 Jul 21 12:55 4073 Aug 05 18:19 4073 Aug 07 18:59 4073 Aug 13 02:48 4073 Aug 20 04:45 4073 Aug 20 03:12 4073 Aug 20 08:03 4073 Aug 20 08:03 4073 Aug 27 23:20 4073 Sep 04 14:38 4073 Sep 13 18:41 4073 Sep 24 16:14 4073 Oct 01 11:40 4073 Oct 11 21:33 4073 Oct 21 20:06	6°\$35'35 2°\$59'18 2°\$31'15 8°\$45'03 0°\$\Omega\$33'58 14°\$\Omega\$33'58 29°\$\Omega\$42'25 29°\$\Omega\$34'07 0°\$\Omega\$5'36 15°\$\Omega\$44'12 0°\$\Omega\$15°\$\Omega\$02'52 0°\$\Omega\$13 14°\$\Omega\$43'14 12°\$\Omega\$02'08	2°23'34 0.54848 AU 22°51'40 1°38'24 1°38'17 1.33897 AU 27°14'05 0.64851 AU -2°16'41	minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	4074 Jun 06 02:54 4074 Jun 08 11:15 4074 Jun 14 18:30 4074 Jun 19 04:50 4074 Jul 03 03:07 4074 Jul 12 05:12 4074 Jul 25 16:02 4074 Jul 28 14:35 4074 Jul 28 20:35 4074 Aug 04 13:33 4074 Aug 04 11:22 4074 Aug 11 19:59 4074 Aug 11 19:59 4074 Aug 11 20:31 4074 Aug 31 15:43 4074 Sep 13 22:26 4074 Sep 27 15:04 4074 Oct 04 19:26	17° \$\Pi27'29\$ 17° \$\Pi29'21\$ 16° \$\Pi01'49\$ 12° \$\Pi56'37\$ 12° \$\Pi13'04\$ 19° \$\Pi10'13\$ 0° \$\pi\$ 23° \$\pi22'20\$ 29° \$\pi28'08\$ 0° \$\Omega\$ 14° \$\Omega\$32'31\$ 14° \$\Omega\$20'37\$ 18° \$\Omega\$13'41\$ 29° \$\Omega\$57'17\$ 0° \$\pi\$ 0° \$\Disp\text{0}\$ 20° \$\Disp\text{3}1'36\$ 27° \$\Disp\text{4}7'27\$ 25° \$\Disp\text{3}13'20\$	0°25'59 0.55544 AU 24°34'57 1°27'18 1°27'02 1.32859 AU 27°26'37 0.63207 AU -3°17'35

morning rise	4074 Oct 18 00:53	14° £ 13'19		inferior conj	4075 Sep 23 22:01	2° ჲ 32'01	4°13'10
direct	4074 Oct 18 00:33 4074 Oct 20 11:15	14 = 13 19 13° ⊆ 45'18		minimum elong	4075 Sep 23 22:01 4075 Sep 24 03:58	2° ⊆ 3201 2° ⊆ 18'59	
asc. node	4074 Oct 20 11:13 4074 Oct 21 15:13	13° £ 43 18		minimum clong	4075 Sep 26 23:41	30°R Mb	4 1143
morning max el	4074 Oct 27 13:13 4074 Oct 27 02:23	17° ⊆ 10'57	17°50'14	morning rise	4075 Oct 01 06:16	27° mp 38'40	
morning max er	4074 Nov 05 06:00	0°M	17 30 14	direct	4075 Oct 03 14:47	27° mg 15'57	
morning set	4074 Nov 12 10:08	12°M23'21		asc. node	4075 Oct 08 12:16	28° m 58'19	
morning set	4074 Nov 22 15:43	0° √		ase. node	4075 Oct 09 19:52	೨೦ ಗ್ರ ೨೦ 1೨	
	40741107 22 13.43	0 x		morning max el	4075 Oct 10 16:53	o _ 0° _ 48'27	17°57'48
superior conj	4074 Nov 24 08:27	2° × ⁷ 50'03	0°22'39	morning set	4075 Oct 26 11:45	25° Ω 40'30	17 37 10
minimum elong	4074 Nov 24 10:43	2° x 50'05	0°22'19	morning sec	4075 Oct 28 20:17	0°M	
desc. node	4074 Nov 27 15:00	8°×13'22	0 22 17		1073 000 20 20:17	0 110	
max. Earth dist.	4074 Nov 30 19:04	13°×721'07	1.43972 AU	superior conj	4075 Nov 05 18:25	14°ML13'25	0°58'47
evening rise	4074 Dec 09 17:54	27° 🖈 25'36	1.13772110	minimum elong	4075 Nov 05 10:25	14°M31'25	0°58'15
e vennig rise	4074 Dec 11 10:03	0°る		max. Earth dist.	4075 Nov 13 07:51	27°M04'44	1.42388 AU
	4074 Dec 31 22:29	0° ≈		desc. node	4075 Nov 14 12:00	29°M00'34	1.42300710
evening max el	4075 Jan 08 06:14	8°≈50'16	20°59'22	dese. Hode	4075 Nov 15 02:32	0° x 7	
retrograde	4075 Jan 16 17:18	13°≈50'41	20 37 22	evening rise	4075 Nov 19 11:30	7° ∡ ⁷ 01'53	
asc. node	4075 Jan 17 14:31	13°≈46'25		evening rise	4075 Dec 04 15:59	0°る	
evening set	4075 Jan 20 18:55	13 ≈40 23 12°≈16'49		evening max el	4075 Dec 04 13:39 4075 Dec 22 00:57	0 3 22° る 24'19	22014120
inferior conj	4075 Jan 26 03:21	6°≈04'31	2°34'15	retrograde	4075 Dec 31 13:51	22 3 24 19 28° る 04'49	22 14 20
	4075 Jan 26 00:52	6°≈13'03	2°33'33	asc. node	4076 Jan 04 11:31	26°る43'46	
minimum elong					4076 Jan 04 11.31 4076 Jan 05 02:32	26°る15'10	
min. Earth dist.	4075 Jan 26 13:29	5°≈29'36	0.67702 AU	evening set			1054147
morning rise	4075 Jan 31 06:39	29° る 51'35		inferior conj	4076 Jan 10 10:57	19°る54'29	1°54'47
T' 4	4075 Jan 31 02:56	30°Rる		minimum elong	4076 Jan 10 08:44	20°る02'12	1°54'00
direct	4075 Feb 05 15:07	27° る 30'17		min. Earth dist.	4076 Jan 10 09:24	19°る59'54	0.67999 AU
	4075 Feb 11 22:00	0° ≈	220 45125	morning rise	4076 Jan 15 14:49	13°る44'00	
morning max el	4075 Feb 16 08:52	3°≈54'09	23°47'37	direct	4076 Jan 20 08:24	11° る 44'56	22210100
desc. node	4075 Feb 23 14:12	12°≈14'00		morning max el	4076 Jan 29 19:55	17° る 19'46	22°19'08
	4075 Mar 08 08:37	0° ∀			4076 Feb 09 06:21	0° ≈	
morning set	4075 Mar 23 20:09	24°) 44'08		desc. node	4076 Feb 10 11:13	1°≈38'40	
	4075 Mar 26 21:03	0° Υ			4076 Feb 29 11:05	0° ∀	
max. Earth dist.	4075 Mar 27 16:41	1° Y 26'36	1.38595 AU	morning set	4076 Mar 03 07:33	4°) 35′27	
	4075 4 04 04 07	1.4000.50140	1020100	max. Earth dist.	4076 Mar 08 13:34	13° 升 17′05	1.40772 AU
superior conj	4075 Apr 04 01:07	14°Υ53'48			407634 16 00 26	2601/40120	1050150
minimum elong	4075 Apr 04 05:52	15° Y 16'14	1°38′26	superior conj	4076 Mar 16 08:26	26°) (49'30	
	4075 Apr 11 20:40	0° 8		minimum elong	4076 Mar 16 12:25	27°) €07'23	1°58'36
evening rise	4075 Apr 13 03:15	2° 8 29'27			4076 Mar 18 02:43	0° Υ	
asc. node	4075 Apr 15 13:52	7° 8 13'43		evening rise	4076 Mar 26 13:58	15° Y 42'02	
evening max el	4075 Apr 29 12:12	28° 8 57'35	18°50'27	asc. node	4076 Apr 01 10:52	26° Y 31'36	
	4075 Apr 30 15:39	0° Π			4076 Apr 03 10:40	0°8	
retrograde	4075 May 07 19:21	3° Ⅱ 01'17		evening max el	4076 Apr 11 18:37		18°18'47
evening set	4075 May 09 22:48	2° ∏ 46′04		retrograde	4076 Apr 18 23:40	15° 8 10'16	
	4075 May 15 17:22	30° ₹8		evening set	4076 Apr 21 09:42	14° 8 46'58	
inferior conj	4075 May 17 22:25		1°18'32	inferior conj	4076 Apr 28 14:15	10° 8 07'46	
minimum elong	4075 May 18 01:14	28° 8 21'51	1°17'36	minimum elong	4076 Apr 28 17:52	10° 8 00'05	2°31'59
min. Earth dist.	4075 May 21 03:27	26° 8 08'31	0.57057 AU	min. Earth dist.	4076 May 02 00:41	7° 8 14'24	0.59083 AU
desc. node	4075 May 22 13:24	25° 8 12'05		morning rise	4076 May 05 23:12	4° 8 31'07	
morning rise	4075 May 26 00:27	23° 8 20'18		desc. node	4076 May 08 10:26	3° 8 24'26	
direct	4075 May 31 10:04	22° 8 09'49		direct	4076 May 12 05:11	2° 8 45'39	
morning max el	4075 Jun 14 18:11	29° 8 37'55	26°08'16	morning max el	4076 May 26 14:32	10° 8 33'17	27°16'20
	4075 Jun 15 03:14	Π °0			4076 Jun 10 15:25	$\Pi^{\circ}0$	
	4075 Jul 05 21:36	0 \circ \odot		morning set	4076 Jun 26 10:22	29° Ⅱ 00'49	
asc. node	4075 Jul 12 13:06	13° © 12'56			4076 Jun 26 21:39	0 \circ \odot	
morning set	4075 Jul 13 01:39	14° © 19'02		asc. node	4076 Jun 28 10:09	3° © 13'48	
				max. Earth dist.	4076 Jul 03 03:13	13° © 30'21	1.32007 AU
superior conj	4075 Jul 20 00:44	29° © 27'40	1°11'23				
minimum elong	4075 Jul 19 22:25	29° © 14'51	1°11'00	superior conj	4076 Jul 03 12:31	14° © 21'36	0°51'18
	4075 Jul 20 06:37	0 ° Ω		minimum elong	4076 Jul 03 10:31	14° © 10'34	0°50'55
max. Earth dist.	4075 Jul 20 15:38	0° Ω 49'42	1.32232 AU	evening rise	4076 Jul 10 08:22	29° © 14'17	
evening rise	4075 Jul 26 23:50	14° Ω 30′00			4076 Jul 10 17:01	0 $^{\circ}$ Ω	
	4075 Aug 03 21:03	0° m/			4076 Jul 27 05:38	0° т р	
desc. node	4075 Aug 18 12:43	23°Mp07'52		desc. node	4076 Aug 04 09:43	10°M/46'08	
	4075 Aug 24 05:42	0० ⊽		evening max el	4076 Aug 08 04:12	14° Mp 42'36	26°14'18
evening max el	4075 Aug 27 04:43	3° ჲ 00′28	27°06'57	retrograde	4076 Aug 22 03:34	21° m 52'02	
retrograde	4075 Sep 10 01:23	10° ≏ 12'55		evening set	4076 Aug 28 15:37	20° m 08'29	
evening set	4075 Sep 17 03:31	7° £ 57'51		min. Earth dist.	4076 Sep 01 17:09	17° m 33'28	0.59207 AU
min. Earth dist.	4075 Sep 20 19:02	5° ≏ 15'19	0.61282 AU	inferior conj	4076 Sep 04 23:40	15°Mp04'30	-4°55'20

minimum elong	4076 Sep 05 04:01	14° m 56'12	1051116	inferior conj	4077 Aug 17 05:52	26° Ω 54'53	5°11'17
morning rise	4076 Sep 12 18:38	14 m/3012 10° m/33'56	4 34 40	minimum elong	4077 Aug 17 05:33	26° Ω 55'24	
direct	4076 Sep 15 04:21	10° my 14'03		morning rise	4077 Aug 17 03:33 4077 Aug 25 09:54	20 δ <i>t</i> 33 24 22° Ω 46'14	3 11 17
	-		18°25'13	direct		$22^{\circ} \Omega 27'08$	
morning max el	4076 Sep 23 02:04	14° Mp 03'02	18 23 13		4077 Aug 27 24:00		10012151
asc. node	4076 Sep 24 09:20	15° m 23'41		morning max el	4077 Sep 06 02:30	26° Ω 43'43	19°13'51
	4076 Oct 04 00:10	0∘ ʊ		•	4077 Sep 09 02:38	0° m)	
morning set	4076 Oct 09 02:28	9° £ 35′05		asc. node	4077 Sep 11 06:24	2° m 51'53	
	10560 . 10 02 20	260 2 4 4150	1000145	morning set	4077 Sep 23 02:14	23° m 55'12	
superior conj	4076 Oct 18 03:38	26° £ 44'59	1°23'47		4077 Sep 26 03:20	0∘ ⊽	
minimum elong	4076 Oct 18 07:14	27° Ω 01'31	1°23'26			_	
	4076 Oct 19 22:13	0°M		superior conj	4077 Oct 01 06:33	10° Ω 08'04	1°38'23
max. Earth dist.	4076 Oct 25 15:08	10°M06'18	1.40427 AU	minimum elong	4077 Oct 01 08:35		1°38'16
evening rise	4076 Oct 30 01:11	17° M 34'19		max. Earth dist.	4077 Oct 07 19:29	22° ≏ 26'28	1.38337 AU
desc. node	4076 Oct 31 09:00	19° M 45'17		evening rise	4077 Oct 11 14:15	29° £ 10'49	
	4076 Nov 06 19:27	0°⊀			4077 Oct 12 01:34	0°M	
	4076 Nov 28 05:30	0° ප		desc. node	4077 Oct 18 06:02	10° ™ 23'09	
evening max el	4076 Dec 03 15:38	6° る 01'35	23°34'14		4077 Oct 31 04:30	0° ∡ ¹	
retrograde	4076 Dec 14 07:32	12° る 19'41		evening max el	4077 Nov 16 04:24	19° ∡ ⁴42'49	24°52'20
evening set	4076 Dec 19 08:46	10°る14'05		retrograde	4077 Nov 27 21:08	26° ₮ 30'32	
asc. node	4076 Dec 21 08:33	8° る 14'39		evening set	4077 Dec 03 12:00	24° ₹ 09'51	
inferior conj	4076 Dec 24 18:39	3° る 48'59	1°08'26	min. Earth dist.	4077 Dec 08 01:26	19° ∡ '01'20	0.67521 AU
minimum elong	4076 Dec 24 17:07	3° る 54'12	1°07'49	asc. node	4077 Dec 08 05:36	18° ∡ ¹47'37	
min. Earth dist.	4076 Dec 24 06:11	4°る31'37	0.67934 AU	inferior conj	4077 Dec 09 00:36	17° ∡ ¹44'50	0°16'12
	4076 Dec 27 17:25	30°Ŗ ⋌ ¹		minimum elong	4077 Dec 09 00:12	17° ∡ ¹46'09	0°16'02
morning rise	4076 Dec 30 01:26	27° ∡ ¹42'44		transit middle	4077 Dec 09 00:12	17° ∡ ¹46'09	0°16'02
direct	4077 Jan 03 04:53	26° х 06′25		transit begin	4077 Dec 08 23:48	17° ∡ 47'29	
	4077 Jan 10 13:58	0°る		transit end	4077 Dec 09 00:36	17° ∡ ¹44'50	
morning max el	4077 Jan 11 12:52	0° る 55'23	20°57'29	morning rise	4077 Dec 14 12:33	11° ∡ ¹45'01	
desc. node	4077 Jan 27 08:15	21° る 31'55		direct	4077 Dec 18 03:17	10° х 29'47	
***************************************	4077 Feb 02 01:15	0° ≈		morning max el	4077 Dec 25 13:35	14° × 741'49	19°48'01
morning set	4077 Feb 10 15:39	13°≈11'57		morning max or	4078 Jan 06 08:40	0°ਰ	19 10 01
max. Earth dist.	4077 Feb 18 16:43	26°≈01'43	1.42742 AU	greatest brilliancy	4078 Jan 07 21:32	2°る15'24	-0.6m
max. Earth dist.	4077 Feb 21 02:51	0° ∀	1.42/42/10	desc. node	4078 Jan 14 05:16	11° る 45'24	0.0111
	4077100 21 02.31	0 /		morning set	4078 Jan 20 11:37	21°る21'25	
superior conj	4077 Feb 25 17:20	7° ¥ 42'05	2°07'40	morning set	4078 Jan 26 01:13	21 O 21 23	
minimum elong	4077 Feb 25 17:45	7° H 43'55		max. Earth dist.	4078 Feb 01 03:32	0 ∞ 9°≈36'25	1.44247 AU
evening rise	4077 Mar 09 10:13	28° H 11'19	2 07 40	max. Earth dist.	40/8160 01 03.32	9 ~30 23	1.44247 AU
evening rise	4077 Mar 10 10:30	26 χ1119 0° Υ		superior conj	4070 E-L 07 00.27	17° ≈ 25'21	2000105
1-		0 γ 15° Υ 22'55		1 3	4078 Feb 06 00:27	17 ≈23 21 17°≈02'57	
asc. node	4077 Mar 19 07:53		1000/155	minimum elong	4078 Feb 05 18:55		1-3948
evening max el	4077 Mar 26 05:51	24° Y 36'35 27° Y 59'42	18°06'55		4078 Feb 13 16:01	0° ∺ 9° ∺ 48'20	
retrograde	4077 Apr 01 20:15			evening rise	4078 Feb 19 11:29		
evening set	4077 Apr 04 12:38	27°Υ26'05	201 (120	•	4078 Mar 03 15:54	0° Υ	
inferior conj	4077 Apr 11 01:36	22°Υ26'30	3°16'20	asc. node	4078 Mar 06 04:55	3° Υ 39'11	1001.411.2
minimum elong	4077 Apr 11 04:02	22°Υ20'34	3°15'57	evening max el	4078 Mar 09 18:42	7° Υ 54'22	18°14'12
min. Earth dist.	4077 Apr 14 05:07	19° Y 23′05	0.61278 AU	retrograde	4078 Mar 16 04:50	11° Υ 19'33	
morning rise	4077 Apr 17 17:31	16° Ƴ 30'40		evening set	4078 Mar 19 03:10	10° Y ′34′20	
direct	4077 Apr 24 11:53	14° Y 11'54		inferior conj	4078 Mar 25 04:27	5° Y 15'12	
desc. node	4077 Apr 25 07:27	14° Y 13'49		minimum elong	4078 Mar 25 05:08	5°Υ13'21	
morning max el	4077 May 08 17:07	22° Y ′09'15	27°49'16	min. Earth dist.	4078 Mar 27 18:23	2° Y 25'14	0.63338 AU
	4077 May 15 14:35	0°8			4078 Mar 30 05:33	30° ₹	
	4077 Jun 03 17:44	$\Pi^{\circ}0$		morning rise	4078 Mar 31 06:05	29°) €08'51	
morning set	4077 Jun 10 14:50	13° Ⅱ 27'27		direct	4078 Apr 07 03:26	26° ∺ 27'21	
asc. node	4077 Jun 15 07:11	23° Ⅱ 20'19		desc. node	4078 Apr 12 04:29	27°) 41′54	
max. Earth dist.	1000 Y 10 10 10	26° Ⅲ 03'29	1.32199 AU		4078 Apr 15 23:18	0° Y	
	4077 Jun 16 13:17	20 2002)			407071pr 13 23.10		
superior conj	40// Jun 16 13:1/	20 200 29		morning max el	4078 Apr 21 00:32	4° Y 25'30	27°44'43
	4077 Jun 17 23:10	29° Ⅱ 08'35	0°27'40		4078 Apr 21 00:32 4078 May 10 05:40	0°B	27°44'43
minimum elong		29°∏08'35 29°∏01'51		morning max el morning set	4078 Apr 21 00:32	0° と 27° と 32'09	27°44'43
minimum elong	4077 Jun 17 23:10	29° Ⅱ 08'35			4078 Apr 21 00:32 4078 May 10 05:40	0°8 27°832'09 0°Ⅲ	27°44'43
minimum elong evening rise	4077 Jun 17 23:10 4077 Jun 17 21:56	29°II08'35 29°II01'51 0°© 14°©03'21			4078 Apr 21 00:32 4078 May 10 05:40 4078 May 25 12:51	0° と 27° と 32'09	27°44'43 1.32822 AU
	4077 Jun 17 23:10 4077 Jun 17 21:56 4077 Jun 18 08:33	29°¶08'35 29°¶01'51 0°©		morning set	4078 Apr 21 00:32 4078 May 10 05:40 4078 May 25 12:51 4078 May 26 18:11	0°8 27°832'09 0°Ⅲ	
	4077 Jun 17 23:10 4077 Jun 17 21:56 4077 Jun 18 08:33 4077 Jun 24 19:30	29°II08'35 29°II01'51 0°© 14°©03'21	0°27'24	morning set	4078 Apr 21 00:32 4078 May 10 05:40 4078 May 25 12:51 4078 May 26 18:11	0°8 27°832'09 0°Ⅲ	
evening rise	4077 Jun 17 23:10 4077 Jun 17 21:56 4077 Jun 18 08:33 4077 Jun 24 19:30 4077 Jul 02 18:56	29° \$\mathbb{\pi}08'35 29° \$\mathbb{\pi}01'51 0° \$\mathbb{\pi} 14° \$\mathbb{\pi}03'21 0° \$\mathbb{\Omega}\$	0°27'24	morning set max. Earth dist.	4078 Apr 21 00:32 4078 May 10 05:40 4078 May 25 12:51 4078 May 26 18:11 4078 May 30 18:04	0° 8 27° 8 32'09 0°П 8°П17'51	1.32822 AU
evening rise evening max el	4077 Jun 17 23:10 4077 Jun 17 21:56 4077 Jun 18 08:33 4077 Jun 24 19:30 4077 Jul 02 18:56 4077 Jul 20 20:32	29° \$\mathbb{\pi}08'35\$ 29° \$\mathbb{\pi}01'51\$ 0° \$\mathbb{\sigma}\$ 14° \$\mathbb{\sigma}03'21\$ 0° \$\mathbb{\text{\Omega}}\$ 25° \$\mathbb{\Omega}38'16\$	0°27'24	morning set max. Earth dist. superior conj	4078 Apr 21 00:32 4078 May 10 05:40 4078 May 25 12:51 4078 May 26 18:11 4078 May 30 18:04 4078 Jun 02 06:55 4078 Jun 02 06:52 4078 Jun 02 01:35	0° 8 27° 8 32'09 0° 1 8° 1 17'51 13° 1 43'03	1.32822 AU 0°01'11
evening rise evening max el	4077 Jun 17 23:10 4077 Jun 17 21:56 4077 Jun 18 08:33 4077 Jun 24 19:30 4077 Jul 02 18:56 4077 Jul 20 20:32 4077 Jul 22 06:44	29°N08'35 29°N01'51 0°S 14°S03'21 0°N 25°N38'16 26°N56'42	0°27'24	morning set max. Earth dist. superior conj minimum elong	4078 Apr 21 00:32 4078 May 10 05:40 4078 May 25 12:51 4078 May 26 18:11 4078 May 30 18:04 4078 Jun 02 06:55 4078 Jun 02 06:52	0° 8 27° 8 32'09 0° П 8° П 17'51 13° П 43'03 13° П 42'44	1.32822 AU 0°01'11
evening rise evening max el desc. node	4077 Jun 17 23:10 4077 Jun 17 21:56 4077 Jun 18 08:33 4077 Jun 24 19:30 4077 Jul 02 18:56 4077 Jul 20 20:32 4077 Jul 22 06:44 4077 Jul 26 08:27	29° \$\mathbb{\pi}08'35 29° \$\mathbb{\pi}01'51 0° \$\mathbb{\pi}\$ 14° \$\mathbb{\pi}03'21 0° \$\mathbb{\pi}\$ 25° \$\mathbb{\pi}38'16 26° \$\mathbb{\pi}56'42 0° \$\mathbb{\pi}\$	0°27'24	morning set max. Earth dist. superior conj minimum elong behind sun begin	4078 Apr 21 00:32 4078 May 10 05:40 4078 May 25 12:51 4078 May 26 18:11 4078 May 30 18:04 4078 Jun 02 06:55 4078 Jun 02 06:52 4078 Jun 02 01:35	0° 8 27° 8 32'09 0° П 8° П 17'51 13° П 43'03 13° П 42'44 13° П 14'20	1.32822 AU 0°01'11
evening rise evening max el desc. node retrograde	4077 Jun 17 23:10 4077 Jun 17 21:56 4077 Jun 18 08:33 4077 Jun 24 19:30 4077 Jul 02 18:56 4077 Jul 20 20:32 4077 Jul 22 06:44 4077 Jul 26 08:27 4077 Aug 03 19:08	29° N 08'35 29° N 01'51 0° 9 14° 903'21 0° N 25° N 38'16 26° N 56'42 0° M 2° M 41'24	0°27'24	morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end	4078 Apr 21 00:32 4078 May 10 05:40 4078 May 25 12:51 4078 May 26 18:11 4078 May 30 18:04 4078 Jun 02 06:55 4078 Jun 02 06:52 4078 Jun 02 01:35 4078 Jun 02 12:08	0° 8 27° 8 32'09 0° П 8° П 17'51 13° П 43'03 13° П 42'44 13° П 14'20 14° П 11'10	1.32822 AU 0°01'11
evening rise evening max el desc. node retrograde	4077 Jun 17 23:10 4077 Jun 17 21:56 4077 Jun 18 08:33 4077 Jun 24 19:30 4077 Jul 02 18:56 4077 Jul 20 20:32 4077 Jul 22 06:44 4077 Jul 26 08:27 4077 Aug 03 19:08 4077 Aug 09 03:39	29° \$\mathbb{\pi}08'35 29° \$\mathbb{\pi}01'51 0° \$\mathbb{\pi} 14° \$\mathbb{\pi}03'21 0° \$\mathbb{\pi} 25° \$\mathbb{\pi}38'16 26° \$\mathbb{\pi}56'42 0° \$\mathbb{\pi} 2° \$\mathbb{\pi}41'24 1° \$\mathbb{\pi}36'19 30° \$\mathbb{\pi}\$	0°27'24	morning set max. Earth dist. superior conj minimum elong behind sun begin behind sun end asc. node	4078 Apr 21 00:32 4078 May 10 05:40 4078 May 25 12:51 4078 May 26 18:11 4078 May 30 18:04 4078 Jun 02 06:55 4078 Jun 02 06:52 4078 Jun 02 01:35 4078 Jun 02 12:08 4078 Jun 02 04:14	0°8 27°832'09 0°Ш 8°Ш17'51 13°Ш43'03 13°Ш42'44 13°Ш14'20 14°Ш11'10 13°Ш28'32	1.32822 AU 0°01'11

evening max el	4078 Jun 27 00:45 4078 Jul 02 09:36	0° Ω 6° Ω 05'29	23°18'16	evening max el desc. node	4079 Jun 14 02:47 4079 Jun 26 00:48	16°534'36 22°543'05	21°43'17
desc. node	4078 Jul 09 03:46	11°Ω07'11		retrograde	4079 Jun 26 13:44	22°543'46	
retrograde	4078 Jul 15 21:55	12°Ω50'55 12°Ω18'28		evening set	4079 Jun 29 03:26	22°©28'51 18°©36'06	0.54001.411
evening set min. Earth dist.	4078 Jul 19 18:25 4078 Jul 26 19:08	9°Ω05'43	0.55691 AU	min. Earth dist. inferior conj	4079 Jul 08 05:35 4079 Jul 08 12:10	18°936'06	0.54891 AU
inferior conj	4078 Jul 28 16:12	9 δ l 03 43 7° Ω 59'33		minimum elong	4079 Jul 08 12:10 4079 Jul 08 03:44	18°938'42	
minimum elong	4078 Jul 28 10:12 4078 Jul 28 09:53	8° Ω 08'53	4°44'12	morning rise	4079 Jul 17 05:19	16 \$336 42 14°\$34'28	3 2001
morning rise	4078 Aug 06 03:43	4°Ω06'28	4 44 12	direct	4079 Jul 20 11:57	14°9511'00	
direct	4078 Aug 09 00:50	3°Ω46'21		morning max el	4079 Aug 01 17:02	19°955'06	21°54'01
morning max el	4078 Aug 19 15:37	8°Ω42'10	20°24'11	morning max ci	4079 Aug 10 00:13	0°Ω	21 3401
asc. node	4078 Aug 29 03:28	21° Ω 09'06	20 2411	asc. node	4079 Aug 16 00:31	10° Ω 03'08	
asc. node	4078 Sep 03 01:12	0° m		morning set	4079 Aug 22 17:37	23° Ω 21'01	
morning set	4078 Sep 07 08:03	8° Mp 32'51		morning set	4079 Aug 25 21:18	0° m)	
morning set	4070 Sep 07 00.03	0 11/02/01			407) Rug 23 21.10	V IIV	
superior conj	4078 Sep 14 22:14	24° Mp 08'55	1°44'03	superior conj	4079 Aug 29 22:48	8° m 35'45	1°42'18
minimum elong	4078 Sep 14 22:37	24° Mp 10'53	1°44'03	minimum elong	4079 Aug 29 21:50	8° m 30'39	1°42'15
	4078 Sep 17 20:23	0∘ ত		max. Earth dist.	4079 Sep 02 15:59	16°Mp 16'53	1.34682 AU
max. Earth dist.	4078 Sep 20 02:14	4° £ 22'35	1.36363 AU	evening rise	4079 Sep 07 02:56	25° Mp 06'34	
evening rise	4078 Sep 24 00:17	11° ≏ 45'22			4079 Sep 09 16:55	0∘ ত	
	4078 Oct 04 14:41	0°M		desc. node	4079 Sep 22 00:07	20° ≏ 58'35	
desc. node	4078 Oct 05 03:04	0° ™ 49'36			4079 Sep 28 02:16	0° M	
	4078 Oct 26 09:40	0° ∡		evening max el	4079 Oct 12 05:32	17°ML02'31	26°54'06
evening max el	4078 Oct 29 16:57	3° ∡ ¹25'39	26°01'25	retrograde	4079 Oct 25 09:06	24°M18'57	
retrograde	4078 Nov 11 05:49	10° ∡ ³32'29		evening set	4079 Nov 01 02:11	21°M38'12	
evening set	4078 Nov 17 10:30	7° ₹ 59'14		min. Earth dist.	4079 Nov 05 01:36	17° M 40'58	0.65647 AU
min. Earth dist.	4078 Nov 21 16:41	3° ≯ 26′03	0.66763 AU	inferior conj	4079 Nov 06 23:46	15°M27'32	
inferior conj	4078 Nov 23 03:00	1° ∡ 39'01	-0°40'49	minimum elong	4079 Nov 07 02:35	15° M ₁9'20	1°40'02
minimum elong	4078 Nov 23 04:05	1° ∡ ³35'38	0°40'21	asc. node	4079 Nov 11 23:42	10°M31'18	
	4078 Nov 24 11:15	30°RM		morning rise	4079 Nov 13 03:50	9° IL 48'49	
asc. node	4078 Nov 25 02:40	29°M14'49		direct	4079 Nov 15 22:55	9° ™ 05'59	
morning rise	4078 Nov 28 22:07	25° ™ 48'17		morning max el	4079 Nov 22 11:32	12° M ₃37'19	18°15'31
direct	4078 Dec 02 01:59	24°M51'06			4079 Dec 04 20:06	0° ∡ ¹	
morning max el	4078 Dec 08 21:48	28°M37'26	18°53'36	morning set	4079 Dec 11 10:28	10° ₹ 42'05	
	4078 Dec 10 04:58	0° ⊀ ⁷		desc. node	4079 Dec 18 23:21	22° ₹ '52'00	
morning set	4078 Dec 30 20:55	0°る18'25			4079 Dec 23 10:54	0°₹	
	4078 Dec 30 16:13	0°る			4070 D 26 12 21	40740150	0050100
desc. node	4079 Jan 01 02:18	2° る 13'33	1 45100 ATT	superior conj	4079 Dec 26 12:21	4° る 49'58	
max. Earth dist.	4079 Jan 14 20:28	23°046'33	1.45108 AU	minimum elong	4079 Dec 26 06:04	4°る25'14	
aumariar aami	4070 Ion 16 00:20	26° る 12'33	1020155	max. Earth dist.	4079 Dec 28 15:58	8°る12'52	1.45230 AU
superior conj minimum elong	4079 Jan 16 09:30 4079 Jan 16 00:15	26 3 12 33 25° 3 36'07		evening rise	4080 Jan 11 18:24 4080 Jan 11 14:25	0°≈15'36 0°≈	
minimum clong	4079 Jan 18 19:11	23 3 3007 0° ≈	1 32 01				
evening rise	40/9 Jan 10 19.11			grantest brilliancy			0.7m
evening rise	4079 Ian 31 14:14			greatest brilliancy	4080 Jan 23 08:21	18° ≈ 13'55	-0.7m
	4079 Jan 31 14:14 4079 Feb 06 11:12	20° ≈ 28'16			4080 Jan 23 08:21 4080 Jan 31 12:07	18°≈13'55 0°) €	
asc node	4079 Feb 06 11:12	20° ≈ 28'16 0° 米		evening max el	4080 Jan 23 08:21 4080 Jan 31 12:07 4080 Feb 04 14:33	18°≈13'55 0°¥ 4°¥51'04	-0.7m 19°22'26
asc. node	4079 Feb 06 11:12 4079 Feb 21 01:57	20°≈28'16 0°¥ 21°¥09'20	18°39'46	evening max el asc. node	4080 Jan 23 08:21 4080 Jan 31 12:07 4080 Feb 04 14:33 4080 Feb 07 22:59	18°≈13'55 0° X 4° X 51'04 7° X 40'47	
evening max el	4079 Feb 06 11:12 4079 Feb 21 01:57 4079 Feb 21 06:20	20°≈28'16 0° X 21° X 09'20 21° X 20'34	18°39'46	evening max el asc. node retrograde	4080 Jan 23 08:21 4080 Jan 31 12:07 4080 Feb 04 14:33 4080 Feb 07 22:59 4080 Feb 11 17:46	18°≈13'55 0°¥ 4°¥51'04 7°¥40'47 8°¥56'27	
evening max el retrograde	4079 Feb 06 11:12 4079 Feb 21 01:57 4079 Feb 21 06:20 4079 Feb 27 21:08	20°≈28'16 0° X 21° X 09'20 21° X 20'34 25° X 00'29	18°39'46	evening max el asc. node retrograde evening set	4080 Jan 23 08:21 4080 Jan 31 12:07 4080 Feb 04 14:33 4080 Feb 07 22:59	18°≈13'55 0° ℋ 4° ℋ51'04 7° ℋ40'47 8° ℋ56'27 7° ℋ45'39	19°22'26
evening max el retrograde evening set	4079 Feb 06 11:12 4079 Feb 21 01:57 4079 Feb 21 06:20 4079 Feb 27 21:08 4079 Mar 03 01:37	20°≈28'16 0° X 21° X 09'20 21° X 20'34		evening max el asc. node retrograde evening set inferior conj	4080 Jan 23 08:21 4080 Jan 31 12:07 4080 Feb 04 14:33 4080 Feb 07 22:59 4080 Feb 11 17:46 4080 Feb 15 05:14	18°≈13'55 0°¥ 4°¥51'04 7°¥40'47 8°¥56'27	19°22'26
evening max el retrograde evening set inferior conj	4079 Feb 06 11:12 4079 Feb 21 01:57 4079 Feb 21 06:20 4079 Feb 27 21:08 4079 Mar 03 01:37 4079 Mar 08 18:48	20°≈28'16 0° ★ 21° ₩09'20 21° ₩20'34 25° ₩00'29 24° ₩02'51 18° ₩25'44	3°34'11	evening max el asc. node retrograde evening set	4080 Jan 23 08:21 4080 Jan 31 12:07 4080 Feb 04 14:33 4080 Feb 07 22:59 4080 Feb 11 17:46 4080 Feb 15 05:14 4080 Feb 20 17:14 4080 Feb 20 15:20	18°≈13'55 0° ₩ 4° ₩51'04 7° ₩40'47 8° ₩56'27 7° ₩45'39 1° ₩52'42 1° ₩58'53	19°22'26 3°19'20
evening max el retrograde evening set	4079 Feb 06 11:12 4079 Feb 21 01:57 4079 Feb 21 06:20 4079 Feb 27 21:08 4079 Mar 03 01:37	20°≈28'16 0° ★ 21° ₩09'20 21° ₩20'34 25° ₩00'29 24° ₩02'51 18° ₩25'44 18° ₩28'21		evening max el asc. node retrograde evening set inferior conj minimum elong	4080 Jan 23 08:21 4080 Jan 31 12:07 4080 Feb 04 14:33 4080 Feb 07 22:59 4080 Feb 11 17:46 4080 Feb 15 05:14 4080 Feb 20 17:14	18°≈13'55 0° ₩ 4° ₩ 51'04 7° ₩ 40'47 8° ₩ 56'27 7° ₩ 45'39 1° ₩ 52'42	19°22'26 3°19'20 3°19'03
evening max el retrograde evening set inferior conj minimum elong	4079 Feb 06 11:12 4079 Feb 21 01:57 4079 Feb 21 06:20 4079 Feb 27 21:08 4079 Mar 03 01:37 4079 Mar 08 18:48 4079 Mar 08 17:56	20°≈28'16 0° ★ 21° ₩09'20 21° ₩20'34 25° ₩00'29 24° ₩02'51 18° ₩25'44	3°34'11 3°34'08	evening max el asc. node retrograde evening set inferior conj minimum elong	4080 Jan 23 08:21 4080 Jan 31 12:07 4080 Feb 04 14:33 4080 Feb 07 22:59 4080 Feb 11 17:46 4080 Feb 15 05:14 4080 Feb 20 17:14 4080 Feb 20 15:20 4080 Feb 22 00:22	18°≈13'55 0° ₩ 4° ₩ 51'04 7° ₩ 40'47 8° ₩ 56'27 7° ₩ 45'39 1° ₩ 52'42 1° ₩ 58'53 0° ₩ 11'34	19°22'26 3°19'20 3°19'03
evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	4079 Feb 06 11:12 4079 Feb 21 01:57 4079 Feb 21 06:20 4079 Feb 27 21:08 4079 Mar 03 01:37 4079 Mar 08 18:48 4079 Mar 08 17:56 4079 Mar 10 17:04	20°≈28'16 0° ₩ 21° ₩ 09'20 21° ₩ 20'34 25° ₩ 00'29 24° ₩ 02'51 18° ₩ 25'44 18° ₩ 28'21 16° ₩ 05'46	3°34'11 3°34'08	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	4080 Jan 23 08:21 4080 Jan 31 12:07 4080 Feb 04 14:33 4080 Feb 07 22:59 4080 Feb 11 17:46 4080 Feb 15 05:14 4080 Feb 20 17:14 4080 Feb 20 15:20 4080 Feb 22 00:22 4080 Feb 22 03:59	18°≈13'55 0° ₩ 4° ₩ 51'04 7° ₩ 40'47 8° ₩ 56'27 7° ₩ 45'39 1° ₩ 52'42 1° ₩ 58'53 0° ₩ 11'34 30° R≈	19°22'26 3°19'20 3°19'03
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	4079 Feb 06 11:12 4079 Feb 21 01:57 4079 Feb 21 06:20 4079 Feb 27 21:08 4079 Mar 03 01:37 4079 Mar 08 18:48 4079 Mar 08 17:56 4079 Mar 10 17:04 4079 Mar 14 09:46	20°≈28'16 0° ₩ 21° ₩ 09'20 21° ₩ 20'34 25° ₩ 00'29 24° ₩ 02'51 18° ₩ 28'21 16° ₩ 05'46 12° ₩ 14'04	3°34'11 3°34'08	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	4080 Jan 23 08:21 4080 Jan 31 12:07 4080 Feb 04 14:33 4080 Feb 07 22:59 4080 Feb 11 17:46 4080 Feb 15 05:14 4080 Feb 20 17:14 4080 Feb 20 15:20 4080 Feb 22 00:22 4080 Feb 22 03:59 4080 Feb 26 01:10	18°≈13'55 0° ★ 4° ₭51'04 7° ₭40'47 8° ₭56'27 7° ₭45'39 1° ₭52'42 1° ₭58'53 0° ₭11'34 30° ₹≈ 25°≈38'48	19°22'26 3°19'20 3°19'03
evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	4079 Feb 06 11:12 4079 Feb 21 01:57 4079 Feb 21 06:20 4079 Feb 27 21:08 4079 Mar 03 01:37 4079 Mar 08 18:48 4079 Mar 08 17:56 4079 Mar 10 17:04 4079 Mar 14 09:46 4079 Mar 21 02:11	20°≈28'16 0° ₩ 21° ₩ 09'20 21° ₩ 20'34 25° ₩ 00'29 24° ₩ 02'51 18° ₩ 25'44 18° ₩ 28'21 16° ₩ 05'46 12° ₩ 14'04 9° ₩ 23'40	3°34'11 3°34'08 0.65082 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	4080 Jan 23 08:21 4080 Jan 31 12:07 4080 Feb 04 14:33 4080 Feb 07 22:59 4080 Feb 11 17:46 4080 Feb 15 05:14 4080 Feb 20 17:14 4080 Feb 20 15:20 4080 Feb 22 00:22 4080 Feb 22 03:59 4080 Feb 26 01:10 4080 Mar 03 07:17	18°≈13'55 0° ★ 4° ₭51'04 7° ₭40'47 8° ₭56'27 7° ₭45'39 1° ₭52'42 1° ₭58'53 0° ₭11'34 30° ₨≈ 25°≈38'48 22°≈52'22	19°22'26 3°19'20 3°19'03
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evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	4079 Feb 06 11:12 4079 Feb 21 01:57 4079 Feb 21 06:20 4079 Feb 27 21:08 4079 Mar 03 01:37 4079 Mar 08 18:48 4079 Mar 08 17:56 4079 Mar 10 17:04 4079 Mar 14 09:46 4079 Mar 21 02:11 4079 Mar 30 01:31 4079 Apr 03 10:21	20°≈28'16 0° ★ 21° ★ 09'20 21° ★ 20'34 25° ★ 00'29 24° ★ 02'51 18° ★ 28'21 16° ★ 05'46 12° ★ 14'04 9° ★ 23'40 13° ★ 16'58 17° ★ 12'54	3°34'11 3°34'08 0.65082 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	4080 Jan 23 08:21 4080 Jan 31 12:07 4080 Feb 04 14:33 4080 Feb 07 22:59 4080 Feb 11 17:46 4080 Feb 15 05:14 4080 Feb 20 17:14 4080 Feb 20 15:20 4080 Feb 22 00:22 4080 Feb 22 03:59 4080 Feb 26 01:10 4080 Mar 03 07:17 4080 Mar 15 22:33 4080 Mar 15 12:15	18°≈13'55 0°	19°22'26 3°19'20 3°19'03 0.66426 AU
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evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	4079 Feb 06 11:12 4079 Feb 21 01:57 4079 Feb 21 06:20 4079 Feb 27 21:08 4079 Mar 03 01:37 4079 Mar 08 18:48 4079 Mar 08 17:56 4079 Mar 10 17:04 4079 Mar 10 09:46 4079 Mar 21 02:11 4079 Mar 30 01:31 4079 Apr 03 10:21 4079 Apr 14 02:10 4079 May 03 02:28 4079 May 09 01:22 4079 May 17 09:38 4079 May 17 09:38 4079 May 18 08:55	20°≈28'16 0° ₩ 21° ₩ 09'20 21° ₩ 20'34 25° ₩ 00'29 24° ₩ 02'51 18° ₩ 28'21 16° ₩ 05'46 12° ₩ 14'04 9° ₩ 23'40 13° ₩ 16'58 17° ₩ 12'54 0° Ψ 0° ₩ 11° ₩ 04'54 20° ₩ 02'48 27° ₩ 57'28 28° ₩ 04'58 0° Щ	3°34'11 3°34'08 0.65082 AU 27°06'05 1.33897 AU -0°27'19	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	4080 Jan 23 08:21 4080 Jan 31 12:07 4080 Feb 04 14:33 4080 Feb 07 22:59 4080 Feb 11 17:46 4080 Feb 15 05:14 4080 Feb 20 17:14 4080 Feb 20 15:20 4080 Feb 22 00:22 4080 Feb 22 03:59 4080 Feb 26 01:10 4080 Mar 03 07:17 4080 Mar 15 22:33 4080 Mar 15 12:15 4080 Mar 15 20:11 4080 Apr 07 00:54 4080 Apr 21 00:32 4080 Apr 24 06:03 4080 Apr 24 22:10 4080 Apr 30 04:52 4080 Apr 30 07:54	18°≈13'55 0°	19°22'26 3°19'20 3°19'03 0.66426 AU 26°00'46
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evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	4079 Feb 06 11:12 4079 Feb 21 01:57 4079 Feb 21 06:20 4079 Feb 27 21:08 4079 Mar 03 01:37 4079 Mar 08 18:48 4079 Mar 08 17:56 4079 Mar 10 17:04 4079 Mar 10 09:46 4079 Mar 21 02:11 4079 Mar 30 01:31 4079 Apr 03 10:21 4079 Apr 14 02:10 4079 May 03 02:28 4079 May 09 01:22 4079 May 17 09:38 4079 May 17 09:38 4079 May 18 08:55	20°≈28'16 0° ₩ 21° ₩ 09'20 21° ₩ 20'34 25° ₩ 00'29 24° ₩ 02'51 18° ₩ 28'21 16° ₩ 05'46 12° ₩ 14'04 9° ₩ 23'40 13° ₩ 16'58 17° ₩ 12'54 0° Ψ 0° ₩ 11° ₩ 04'54 20° ₩ 02'48 27° ₩ 57'28 28° ₩ 04'58 0° Щ	3°34'11 3°34'08 0.65082 AU 27°06'05 1.33897 AU -0°27'19	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	4080 Jan 23 08:21 4080 Jan 31 12:07 4080 Feb 04 14:33 4080 Feb 07 22:59 4080 Feb 11 17:46 4080 Feb 15 05:14 4080 Feb 20 17:14 4080 Feb 20 15:20 4080 Feb 22 00:22 4080 Feb 22 03:59 4080 Feb 26 01:10 4080 Mar 03 07:17 4080 Mar 15 22:33 4080 Mar 15 12:15 4080 Mar 15 20:11 4080 Apr 07 00:54 4080 Apr 21 00:32 4080 Apr 24 06:03 4080 Apr 24 22:10 4080 Apr 30 04:52 4080 Apr 30 07:54	18°≈13'55 0°	19°22'26 3°19'20 3°19'03 0.66426 AU 26°00'46 1.35429 AU -0°56'31

evening max el	4080 May 26 06:40	27° Ⅱ 34'30	20°21'10		4081 Apr 16 03:11	0° ႘	
evening max er	4080 May 29 03:06	0°95	20 21 10	evening rise	4081 Apr 22 03:07	11° 8 57'46	
retrograde	4080 Jun 06 03:11	2° © 52'28		asc. node	4081 Apr 22 19:20	13° 8 18'25	
evening set	4080 Jun 08 02:46	2°942'36		use. Houe	4081 May 01 20:49	0°II	
desc. node	4080 Jun 11 21:48	1°934'16		evening max el	4081 May 08 22:53	9° Ⅱ 16'19	19°17'47
dese. Hode	4080 Jun 15 01:57	30°R I		retrograde	4081 May 18 02:21	13° ∏ 43'21	17 17 47
inferior conj	4080 Jun 17 06:37	28° ∏ 44'27	-1°35'13	evening set	4081 May 20 02:28	13° II 31'26	
minimum elong	4080 Jun 17 02:08	28° I 51'00		inferior conj	4081 May 28 13:40	9° П 23'01	0°21'16
min. Earth dist.	4080 Jun 18 17:44	27° I 53'04	0.55031 AU	minimum elong	4081 May 28 14:33	9° Ⅱ 23'01	0°20'57
morning rise	4080 Jun 26 00:21	24° II 31'45	0.55051710	desc. node	4081 May 29 18:47	8° П 34'38	0 2037
direct	4080 Jun 29 22:11	23° I I58'42		min. Earth dist.	4081 May 31 08:25	7° П 33'02	0.56101 AU
direct	4080 Jul 12 19:52	0°95		morning rise	4081 Jun 05 23:37	4° П 36'27	0.50101 AC
morning max el	4080 Jul 13 09:52	0°932'14	23°35'5/	direct	4081 Jun 10 19:45	3° ∏ 42'39	
asc. node	4080 Aug 01 21:33	29° © 24'48	23 33 34	morning max el	4081 Jun 24 23:49	10° ∏ 55'31	25°16'40
asc. node	4080 Aug 01 21:33 4080 Aug 02 04:40	29 3 24 48		morning max er	4081 Jul	0° ©	23 1049
morning set	4080 Aug 06 05:01	8° Ω 14'15		asc. node	4081 Jul 19 18:35	19° 5 06'48	
morning set	4000 Aug 00 05.01	0 061413		morning set	4081 Jul 21 16:42	23°907'45	
	4000 A 12 05.17	229 (110)25	1924120	morning set			
superior conj	4080 Aug 13 05:17	23° Ω 19'35	1°34'20		4081 Jul 24 21:19	0 ° Ω	
minimum elong	4080 Aug 13 03:24	23° Ω 09'27	1°34'09		4001 7 1 20 15 21	00.013103	1001107
max. Earth dist.	4080 Aug 15 14:28	28° Ω 25'26	1.33398 AU	superior conj	4081 Jul 28 15:21	8° Ω 13'03	
	4080 Aug 16 08:22	0°Щ		minimum elong	4081 Jul 28 13:03	8° Ω 00′25	1°20'47
evening rise	4080 Aug 20 18:01	9° Mp 03′26		max. Earth dist.	4081 Jul 29 20:37		1.32536 AU
	4080 Sep 01 03:01	0∘ ⊽		evening rise	4081 Aug 04 18:06	23° Ω 26′15	
desc. node	4080 Sep 07 21:09	10° ≙ 42'10			4081 Aug 08 00:16	0°Щ	
	4080 Sep 23 07:48	0°M₊		desc. node	4081 Aug 25 18:09	29° m 49'59	
evening max el	4080 Sep 23 17:17	0°M22'44	27°23'07		4081 Aug 25 21:01	0∘ ত	
retrograde	4080 Oct 07 06:33	7° M 41'05		evening max el	4081 Sep 06 02:26	13° ≏ 14'50	27°22'28
evening set	4080 Oct 14 08:25	5° ™ 01'12		retrograde	4081 Sep 19 21:28	20° ჲ 30'00	
min. Earth dist.	4080 Oct 18 02:03	1°M38'16	0.64183 AU	evening set	4081 Sep 27 01:51	18° ≏ 02'26	
	4080 Oct 19 15:35	30° ₹ Ω		min. Earth dist.	4081 Sep 30 16:33	15° ≙ 07'57	0.62407 AU
inferior conj	4080 Oct 20 12:27	29° ≙ 04'41	-2°42'53	inferior conj	4081 Oct 03 14:15	12° ≙ 24'17	-3°42'16
minimum elong	4080 Oct 20 17:02	28° ჲ 52'36	2°41'12	minimum elong	4081 Oct 03 20:05	12° ₽ 10'34	3°40'32
morning rise	4080 Oct 27 02:56	23° ₽ 41'00		morning rise	4081 Oct 10 15:58	7° ≙ 18'45	
asc. node	4080 Oct 28 20:45	23° £ 11'53		direct	4081 Oct 13 01:02	6° £ 53′28	
direct	4080 Oct 29 15:37	23° ഫ 08'43		asc. node	4081 Oct 15 17:47	7° £ 27'01	
morning max el	4080 Nov 05 03:58	26° ≏ 34'16	17°54'24	morning max el	4081 Oct 19 20:05	10° £ 21′23	17°51'07
	4080 Nov 08 03:09	o° m ₊			4081 Nov 01 20:50	0° M.	
morning set	4080 Nov 22 04:07	22°M27'36		morning set	4081 Nov 04 19:56	5° ™ 16'59	
	4080 Nov 26 14:53	0° ∡ 7					
desc. node	4080 Dec 04 20:23	13° ∡ ³36′22		superior conj	4081 Nov 16 00:10	24°M51'51	0°39'18
				minimum elong	4081 Nov 16 03:36	25°M06'26	0°38'48
superior conj	4080 Dec 05 05:27	14° ∡ °13′07	-0°02'38		4081 Nov 19 01:31	0° ∡ ¹	
minimum elong	4080 Dec 05 05:08	14° √ 11'53	0°02'35	desc. node	4081 Nov 21 17:26	4° ∡ ¹23'39	
behind sun begin	4080 Dec 04 19:08	13° ⋌ ³31'18		max. Earth dist.	4081 Nov 23 01:37	6° ∡ ³34'45	1.43355 AU
behind sun end	4080 Dec 05 15:09	14° ₹ 52'24		evening rise	4081 Nov 30 17:41	18° ∡ ¹45'24	
max. Earth dist.	4080 Dec 10 10:25	22° ∡ ³33'54	1.44617 AU		4081 Dec 08 02:10	8°0	
	4080 Dec 15 03:49	8°0			4081 Dec 29 20:12	0° ≈	
evening rise	4080 Dec 21 06:39	9° ට 28'41		evening max el	4081 Dec 31 15:35	1°≈56'18	21°30'26
Ü	4081 Jan 03 20:32	0° ≈		retrograde	4082 Jan 09 13:27	7°≈13'45	
evening max el	4081 Jan 17 17:47	18° ≈ 22'56	20°20'21	asc. node	4082 Jan 11 17:02	6°≈48'42	
asc. node	4081 Jan 24 20:01	22° ≈ 58'15		evening set	4082 Jan 13 19:29	5°≈33'29	
retrograde	4081 Jan 25 15:53	23° ≈ 01'59		<i>5</i>	4082 Jan 18 15:24	30°Rる	
evening set	4081 Jan 29 11:47	21° ≈ 37'01		inferior conj	4082 Jan 19 03:44	29° る 17'19	2°18'26
inferior conj	4081 Feb 03 20:58	15°≈30'56	2°53'23	minimum elong	4082 Jan 19 01:18	29° る 25'44	2°17'40
minimum elong	4081 Feb 03 18:33	15°≈39'09	2°52'49	min. Earth dist.	4082 Jan 19 08:51	28° る 59'35	0.67875 AU
min. Earth dist.	4081 Feb 04 14:24	13 ≈ 3707 14° ≈ 31'42	0.67352 AU	morning rise	4082 Jan 24 06:56	28° පි05'04	5.5,575710
morning rise	4081 Feb 09 01:05	9°≈16'57	3.07332 AU	direct	4082 Jan 29 09:08	23° ප්ර3'04 20° ප් 52'40	
direct	4081 Feb 14 17:53	6°≈44'23		morning max el	4082 Jan 29 09:08 4082 Feb 08 13:53	20 3 5240 26° る 56'02	23°00'30
morning max el	4081 Feb 26 04:50	13°≈35'23	24°38'26	morning max ci	4082 Feb 11 10:14	20 ⊘ 30 02 0° ≈	25 0750
desc. node	4081 Mar 02 19:34	13 ≈33 23 18°≈41'30	4T 30 40	desc. node	4082 Feb 17 16:37	0 ≈ 7°≈45'00	
uese. Hout	4081 Mar 12 19:34 4081 Mar 11 12:22	18°≈41'30 0° ∺		uese. Hour	4082 Feb 17 16:37 4082 Mar 05 03:19	0° ∺	
		0° π 0° γ		morning		16° ¥ 26'04	
morning act	4081 Mar 30 20:54	5° Υ 47'22		morning set	4082 Mar 15 09:00	16° ↑ 26'04 23°) €40'54	1 20520 411
morning set	4081 Apr 03 05:07		1 27261 ATT	max. Earth dist.	4082 Mar 19 15:12	23°π40′54 0° Υ	1.39529 AU
max. Earth dist.	4081 Apr 06 20:19	12° Y 18′15	1.37361 AU		4082 Mar 23 05:25	UT	
·	4001 A 12 12 22	2400057142	1024220		4002 N4 27 07 20	70000 511 5	1040107
superior conj	4081 Apr 13 13:28	24°Y57'42		superior conj	4082 Mar 27 07:28	7°Υ25'16	
minimum elong	4081 Apr 13 17:51	25° Y 18′56	1~25'55	minimum elong	4082 Mar 27 12:10	7° Ƴ 46'58	1~4/'59

	4002 4 05 20.20	25° Ƴ 31'08			4002 Mar. 20, 01-20	8° Y 26'49	
evening rise	4082 Apr 05 20:20			evening rise	4083 Mar 20 01:28		
	4082 Apr 08 04:35	0° 8		asc. node	4083 Mar 27 13:23	21°Υ56'15	
asc. node	4082 Apr 09 16:21	2° 8 48'29			4083 Apr 01 16:57	0°8	
evening max el	4082 Apr 22 01:11	21° 8 36'15	18°34'33	evening max el	4083 Apr 05 10:09	4° 8 25'39	18°11'21
retrograde	4082 Apr 29 19:34	25° 8 25'26		retrograde	4083 Apr 12 07:26	7° 8 53'54	
evening set	4082 May 02 01:54	25° 8 07'03		evening set	4083 Apr 14 20:22	7° 8 26'16	
inferior conj	4082 May 09 17:08	20° 8 39'50	1°54'04	inferior conj	4083 Apr 21 17:46	2° 8 38'03	2°54'46
minimum elong	4082 May 09 20:38	20° 8 33'02	1°53'01	minimum elong	4083 Apr 21 21:02	2° 8 30'41	2°54'05
min. Earth dist.	4082 May 13 02:29	18° 8 03'41	0.57881 AU	Č	4083 Apr 24 15:57	30° Ŗ ♈	
desc. node	4082 May 16 15:48	15° 8 45'32	0.57001110	min. Earth dist.	4083 Apr 25 02:18	29° Y 37'40	0.60019 AU
	4082 May 17 12:11	15° 8 19'29			4083 Apr 28 19:19	26°Υ52'16	0.00017 AC
morning rise	-			morning rise	=		
direct	4082 May 23 07:33	13° 8 54'17		desc. node	4083 May 03 12:50	25° Y 01'05	
morning max el	4082 Jun 06 16:34	21° 8 31'50	26°40'59	direct	4083 May 05 07:43	24° Y 52'07	
	4082 Jun 14 02:04	Π $\circ 0$			4083 May 16 15:40	9° 8	
	4082 Jul 02 06:10	0 \circ \odot		morning max el	4083 May 19 15:34	2° 8 43'53	27°34'56
morning set	4082 Jul 06 02:58	7° © 55'19			4083 Jun 08 12:57	$\Pi^{\circ}0$	
asc. node	4082 Jul 06 15:37	9° © 02'12		morning set	4083 Jun 20 10:09	22° Ⅱ 31'40	
				asc. node	4083 Jun 23 12:40	29° Ⅱ 06'07	
superior conj	4082 Jul 13 03:01	23° © 08'31	1°03'20	use. Houe	4083 Jun 23 22:40	0°95	
				F 41 F 4			1 22040 ATT
minimum elong	4082 Jul 13 00:46	22°956'07	1°02'56	max. Earth dist.	4083 Jun 26 18:59	6° © 12'39	1.32048 AU
max. Earth dist.	4082 Jul 13 07:21	23° © 32'25	1.32089 AU				
	4082 Jul 16 05:52	$0 {\circ} \Omega$		superior conj	4083 Jun 27 14:33	8° © 00'18	0°41'41
evening rise	4082 Jul 20 00:14	8° Ω 05'07		minimum elong	4083 Jun 27 12:50	7° © 50'47	0°41'20
	4082 Jul 31 10:39	0° mp		evening rise	4083 Jul 04 10:11	22°\$52'40	
desc. node	4082 Aug 12 15:08	18° Mp 06'30		•	4083 Jul 07 20:32	$0^{\circ}\Omega$	
evening max el	4082 Aug 19 06:17	25° m 25'19	26°48'33		4083 Jul 26 00:05	0° m/	
evening max er	4082 Aug 25 02:03	0° Ω	20 40 33	desc. node	4083 Jul 30 12:08	5°Mp 10'51	
	-						25942145
retrograde	4082 Sep 02 04:24	2° Ω 35'55		evening max el	4083 Aug 01 02:41	6° Mp 46'52	25-42-45
evening set	4082 Sep 09 02:00	0° ჲ 33'19		retrograde	4083 Aug 15 01:53	13° m 53'29	
	4082 Sep 09 23:48	30°R, Mp		evening set	4083 Aug 21 04:05	12° Mp 26'02	
min. Earth dist.	4082 Sep 12 20:23	27° m 55'51	0.60405 AU	min. Earth dist.	4083 Aug 25 14:46	9° ™ 48'39	0.58348 AU
inferior conj	4082 Sep 16 01:45	25° Mp 16'40	-4°33'22	inferior conj	4083 Aug 28 19:24	7° ™ 31'59	-5°06'12
minimum elong	4082 Sep 16 07:21	25° m 05'04	4°32'15	minimum elong	4083 Aug 28 22:08	7° m 27′04	5°06'00
morning rise	4082 Sep 23 14:39	20° m/32'26		morning rise	4083 Sep 05 18:27	3° m 11'02	
direct	4082 Sep 25 23:18	20° mp 11'10		direct	4083 Sep 08 05:55	2° m 51'31	
asc. node	4082 Oct 02 14:50	23° Mp 08'26		morning max el	4083 Sep 16 14:26	6° Mp 50'24	18°43'14
		-	1000/15/	=	*		10 43 14
morning max el	4082 Oct 03 08:39	23° m 49'41	18°06'54	asc. node	4083 Sep 19 11:53	10° m 01'58	
	4082 Oct 08 08:16	0∘ ⊽			4083 Oct 01 10:01	0₀ ಹ	
morning set	4082 Oct 19 03:43	18° ≏ 51'34		morning set	4083 Oct 02 22:41	2° £ 57'58	
	4082 Oct 25 03:18	0° M					
				superior conj	4083 Oct 11 14:00	19° ≏ 40'17	1°31'10
superior conj	4082 Oct 28 20:37	6°M45'19	1°10'44	minimum elong	4083 Oct 11 16:59	19° £ 54'22	1°30'56
minimum elong	4082 Oct 29 00:43	7° ጤ 03'38	1°10'15	Č	4083 Oct 17 04:46	0°M₊	
max. Earth dist.	4082 Nov 05 12:08	20°M01'30	1.41590 AU	max. Earth dist.	4083 Oct 18 18:09		1.39541 AU
desc. node	4082 Nov 08 14:27	25°M09'59	1.41370 AC	evening rise	4083 Oct 22 18:31	9°M42'07	1.57541 AO
				=			
evening rise	4082 Nov 10 18:54	28°M43'09		desc. node	4083 Oct 26 11:28	15° M 51'55	
	4082 Nov 11 14:02	0°⊀			4083 Nov 04 12:11	0°⊀	
	4082 Dec 01 17:11	0°ප		evening max el	4083 Nov 26 22:07	29° √ 10′22	24°08'08
evening max el	4082 Dec 14 08:31	15° る 31'51	22°48'17		4083 Nov 27 18:32	0°ප	
retrograde	4082 Dec 24 08:47	21° る 28'23		retrograde	4083 Dec 08 00:45	5° ರ 41'51	
evening set	4082 Dec 29 02:42	19° る 31'58		evening set	4083 Dec 13 07:51	3° る 29'23	
asc. node	4082 Dec 29 14:03	19° る 07'14		asc. node	4083 Dec 16 11:07	0° る 07'45	
inferior conj	4083 Jan 03 11:36	13° る 09'13	1°35'56	use. Houe	4083 Dec 16 13:34	30°R. ✓	
3				min Earth diat			0.67700 AII
minimum elong	4083 Jan 03 09:37	13° る 16'03	1°35'11	min. Earth dist.	4083 Dec 18 01:40	28°×701'32	0.67799 AU
min. Earth dist.	4083 Jan 03 05:23	13° る 30'41	0.68016 AU	inferior conj	4083 Dec 18 18:45	27° ₹ 03'52	0°46'56
morning rise	4083 Jan 08 16:25	7° る 00'24		minimum elong	4083 Dec 18 17:39	27° ҂ 07'35	0°46'28
direct	4083 Jan 13 03:58	5° る 10'54		morning rise	4083 Dec 24 03:29	21° ₰ 00'24	
morning max el	4083 Jan 22 02:58	10° る 24'52	21°43'14	direct	4083 Dec 28 01:21	19° х 33′26	
desc. node	4083 Feb 04 13:40	27° る 22'54		morning max el	4084 Jan 04 23:12	24° ₹ 05'00	20°26'20
	4083 Feb 06 09:43	0° ≈		Č	4084 Jan 10 02:09	0°ಕ	
morning set	4083 Feb 23 08:06	25° ≈ 42'47		desc. node	4084 Jan 22 10:42	17° ට 25'12	
	4083 Feb 26 00:04	0°)			4084 Jan 30 18:14	0°≈	
mov E4l- U /			1 41652 411				
max. Earth dist.	4083 Mar 01 14:45	5~大55'32	1.41653 AU	morning set	4084 Feb 02 08:12	3°≈59'00	1 40 447 135
				max. Earth dist.	4084 Feb 11 21:46	19° ≈ 04'39	1.43447 AU
superior conj	4083 Mar 09 05:57	18° ¥ 56′07					
minimum elong	4083 Mar 09 08:49	19° ∺ 08'41	2°04'09	superior conj	4084 Feb 18 03:58	29° ≈ 18′30	-2°06'45
	4083 Mar 15 10:45	0 ° Υ		minimum elong	4084 Feb 18 02:00	29° ≈ 10′20	2°06'43

	4084 Feb 18 13:57	0° ∀		superior conj	4085 Jan 28 00:32	8°≈34'06	1050/56
evening rise	4084 Mar 01 14:11	0 X 20° ¥ 34'48		minimum elong	4085 Jan 27 16:45	8°≈03'04	
evening rise	4084 Mar 06 23:42	20 π3448 0°γ		minimum elong	4085 Feb 10 04:19	0°)	1 30 22
asc. node	4084 Mar 13 10:26	10° Υ 33'42		evening rise	4085 Feb 11 06:13	1°) (47'43	
evening max el	4084 Mar 18 22:23	10 γ 33 42 17° γ 34'40	18°07'41	asc. node	4085 Feb 28 07:28	28°) (31'39	
•	4084 Mar 25 09:53	$17 \cdot 73440$ $20^{\circ} \Upsilon 57'21$	18 0/41	asc. node	4085 Mar 01 13:43	28 π 3139	
retrograde	4084 Mar 28 04:46	20° Υ 3721 20° Υ $18'57$		avanina may al	4085 Mar 02 10:57	0° Υ 56'09	18°22'54
evening set inferior conj	4084 Mai 28 04.46 4084 Apr 03 12:15		3°26'48	evening max el retrograde	4085 Mar 08 22:15	0 1 36 09 4° Υ 26'31	18 22 34
minimum elong	4084 Apr 03 12:13 4084 Apr 03 13:57	15° Υ 06'14	3°26'36	evening set	4085 Mar 11 23:00	3° Υ 36'17	
•	•	13° 100° 14° 12° 10° 13°	0.62178 AU	evening set			
min. Earth dist.	4084 Apr 06 10:21 4084 Apr 09 21:40	9° Υ 09'14	0.02178 AU	inferior conj	4085 Mar 16 05:05 4085 Mar 17 20:27	30° ₹ ₩ 28° ₩ 09'21	3°36'28
morning rise		6° Υ 39'33		,		28° X 09'21	
direct	4084 Apr 16 18:10	7° Υ 00'07		minimum elong	4085 Mar 17 20:26	28° X 09'26 25° X 30'19	3°36'28
desc. node	4084 Apr 19 09:52		27051154	min. Earth dist.	4085 Mar 20 03:50		0.64120 AU
morning max el	4084 Apr 30 20:45		27°51'54	morning rise	4085 Mar 23 17:04	21°) 59'56	
	4084 May 13 07:16	0° B		direct	4085 Mar 30 13:03	19°) 12'44	
	4084 May 31 01:39	0°II		desc. node	4085 Apr 06 06:55	21°\(\)25'53	27022104
morning set	4084 Jun 03 12:13	6° Ⅱ 50'00	1 22 41 5 4 7 7	morning max el	4085 Apr 13 05:39	27°) €09'30	2/°32'04
max. Earth dist.	4084 Jun 09 03:29	18° ∏ 40′02	1.32415 AU		4085 Apr 15 21:55	0° Υ	
asc. node	4084 Jun 09 09:44	19° Ⅱ 13'44			4085 May 06 23:12	0°8	
		🗕		morning set	4085 May 18 06:37	20° 8 42'26	
superior conj	4084 Jun 11 00:12	22° ∐ 42′25	0°16'45		4085 May 22 20:40	$\Pi^{\circ 0}$	
minimum elong	4084 Jun 10 23:26	22° Ⅱ 38'11	0°16'35	max. Earth dist.	4085 May 23 04:44	0°Ⅱ42′00	1.33218 AU
	4084 Jun 14 08:21	0 \circ \odot					
evening rise	4084 Jun 17 21:53	7° © 41'50		superior conj	4085 May 26 06:05	7° Ⅱ 09'00	
	4084 Jun 29 12:38	$0^{\circ}\Omega$		minimum elong	4085 May 26 06:37	7° Ⅱ 11'53	0°10'37
evening max el	4084 Jul 12 16:40	17° Ω 26′25	24°13'58	behind sun begin	4085 May 26 02:33	6° Ⅱ 50'12	
desc. node	4084 Jul 16 09:09	20° Ω 34'39		behind sun end	4085 May 26 10:41	7° Ⅱ 33'36	
retrograde	4084 Jul 26 12:22	24° Ω 24'31		asc. node	4085 May 27 06:46	9° Ⅱ 20'58	
evening set	4084 Jul 31 06:07	23° Ω 34'31		evening rise	4085 Jun 02 09:26	22° Ⅱ 26′27	
min. Earth dist.	4084 Aug 06 03:21	20° Ω 38'41	0.56508 AU		4085 Jun 06 01:20	0 \circ ∞	
inferior conj	4084 Aug 08 16:54	19° Ω 02'36	-5°06'12	evening max el	4085 Jun 24 06:24	27° © 50'11	22°36'55
minimum elong	4084 Aug 08 13:57	19° Ω 07'14	5°05'59		4085 Jun 26 16:47	$0 {\circ} \Omega$	
morning rise	4084 Aug 17 00:23	15° Ω 02'16		desc. node	4085 Jul 03 06:10	3° Ω 43'05	
direct	4084 Aug 19 17:11	14° Ω 43'00		retrograde	4085 Jul 07 10:26	4° Ω 23'11	
morning max el	4084 Aug 29 10:22	19° Ω 14'26	19°41'14	evening set	4085 Jul 10 15:55	4° Ω 00'17	
asc. node	4084 Sep 05 08:58	27° Ω 52'40		min. Earth dist.	4085 Jul 18 14:10	0° Ω 32'02	0.55239 AU
	4084 Sep 06 17:10	O° Mp		inferior conj	4085 Jul 19 20:02	29° © 49'28	-4°18'41
morning set	4084 Sep 16 01:22	17° m 26'39		minimum elong	4085 Jul 19 12:01	0° Ω 00'54	4°16'55
	4084 Sep 22 06:26	0∘ ⊽			4085 Jul 19 12:39	30° ₹	
				morning rise	4085 Jul 28 10:14	25° © 58'47	
superior conj	4084 Sep 23 22:57	3° £ 21'41	1°41'47	direct	4085 Jul 31 10:39	25° © 37'52	
minimum elong	4084 Sep 24 00:17	3° £ 28'14	1°41'44		4085 Aug 10 18:09	$\mathfrak{O}^{\circ} \mathfrak{O}$	
max. Earth dist.	4084 Sep 29 22:46	14° ≙ 53'09	1.37466 AU	morning max el	4085 Aug 11 18:30	0° Ω 53'59	21°00'19
evening rise	4084 Oct 03 17:00	21° ≏ 44'40		asc. node	4085 Aug 23 06:00	16° Ω 26'52	
	4084 Oct 08 11:06	0°M			4085 Aug 30 07:49	O° Mp	
desc. node	4084 Oct 12 08:30	6°M25'39		morning set	4085 Aug 31 09:01	2°₩09'27	
	4084 Oct 28 09:47	0° ∡ ¹					
evening max el	4084 Nov 08 10:26	12° 渘 52'17	25°23'13	superior conj	4085 Sep 07 18:51	17° m 35'07	1°44'09
retrograde	4084 Nov 20 12:28	19° х 50′06		minimum elong	4085 Sep 07 18:37	17° m 33'53	1°44'08
evening set	4084 Nov 26 09:19	17° ∡ ¹23'20		max. Earth dist.	4085 Sep 12 07:38	26° Mp 44'14	1.35601 AU
min. Earth dist.	4084 Nov 30 19:29	12° ∡ ¹29'51	0.67237 AU		4085 Sep 13 23:42	0∘ ত	
inferior conj	4084 Dec 01 23:25	10° ∡ 759'35	-0°07'29	evening rise	4085 Sep 16 10:39	4° £ 40'55	
minimum elong	4084 Dec 01 23:36	10° ∡ 758'58	0°07'24	desc. node	4085 Sep 29 05:31	26° ≏ 45'28	
transit middle	4084 Dec 01 23:36	10° ∡ 758'58	0°07'24		4085 Oct 01 07:24	0°M	
transit begin	4084 Dec 01 21:07	11° ₹ 07'01		evening max el	4085 Oct 21 22:56	26°M33'31	26°26'17
transit end	4084 Dec 02 02:05	10° ∡ ¹50'57			4085 Oct 25 21:57	0° ∡ ¹	
asc. node	4084 Dec 02 08:10	10° ∡ ³31′23		retrograde	4085 Nov 03 19:07	3° ∡ ¹46'17	
morning rise	4084 Dec 07 14:12	5° ₹ 03'28		evening set	4085 Nov 10 05:11	1° ₹ 09'08	
direct	4084 Dec 10 23:58	3° х 56'33		-	4085 Nov 11 11:48	30°RM	
morning max el	4084 Dec 18 03:23	7° ∡ 756'31	19°22'59	min. Earth dist.	4085 Nov 14 08:25		0.66328 AU
greatest brilliancy	4084 Dec 31 11:08	25° ₹ '45'23	-0.7m	inferior conj	4085 Nov 15 23:40	24°M52'05	
-	4085 Jan 03 06:23	0°ರ		minimum elong	4085 Nov 16 01:29	24°M46'36	1°05'22
desc. node	4085 Jan 08 07:45	7°₹45'36		asc. node	4085 Nov 19 05:12	21°M13'34	
morning set	4085 Jan 11 06:54	12° る 20'31		morning rise	4085 Nov 21 22:24	19° M 05'57	
-	4085 Jan 22 14:40	0° ≈		direct	4085 Nov 24 22:10	18°ML15'27	
max. Earth dist.	4085 Jan 24 11:14	2° ≈ 55'38	1.44692 AU	morning max el	4085 Dec 01 14:12	21°M54'34	18°35'17
				Č	4085 Dec 08 01:12	0° ∡ 7	

morning set	4085 Dec 22 03:19	21° ₹ 51'58		desc. node	4086 Dec 13 01:49	18° √ 59'46	
desc. node	4085 Dec 26 04:47	28° ∡ 18′27					
	4085 Dec 27 06:28	8°0		superior conj	4086 Dec 17 11:00	26° х 00′37	-0°29'48
				minimum elong	4086 Dec 17 07:18	25° х 45′51	0°29'17
superior conj	4086 Jan 07 04:24	17° ろ 10'04			4086 Dec 19 23:27	0°ಕ	
minimum elong	4086 Jan 06 19:37	16° そ 35'39		max. Earth dist.	4086 Dec 21 00:32	1°る38'54	1.45064 AU
max. Earth dist.	4086 Jan 07 04:59	17°る12'22	1.45250 AU	evening rise	4087 Jan 02 18:54	21° る 32'13	
evening rise	4086 Jan 15 08:22 4086 Jan 22 22:55	0° ≈ 12° ≈ 03'06		greatest brilliancy	4087 Jan 08 06:38 4087 Jan 16 05:28	0° ≈ 12° ≈ 04'48	-0.7m
greatest brilliancy	4086 Jan 31 14:38	25°≈49'08	-0.8m	evening max el	4087 Jan 28 03:39	27°≈55'59	19°45'27
greatest offinancy	4086 Feb 03 06:51	0° ∀	0.0111	evening max er	4087 Jan 30 09:38	0° ∺	17 43 27
evening max el	4086 Feb 13 21:21	14°) €24'30	18°56'01	asc. node	4087 Feb 02 01:29	1°) 40′13	
asc. node	4086 Feb 15 04:29	15°) 38′25		retrograde	4087 Feb 04 14:00	2° 升 14′22	
retrograde	4086 Feb 20 16:37	18°) 13′59		evening set	4087 Feb 08 04:58	0°) 57′33	
evening set	4086 Feb 23 23:54	17° ∺ 10′58			4087 Feb 09 09:16	30°R ≈	
inferior conj	4086 Mar 01 14:34	11° ∺ 27'09	3°29'24	inferior conj	4087 Feb 13 15:31	24° ≈ 58'52	3°09'32
minimum elong	4086 Mar 01 13:12	11° ∺ 31′26	3°29'16	minimum elong	4087 Feb 13 13:20	25°≈06'06	3°09'07
min. Earth dist.	4086 Mar 03 06:24	9°) (22'40	0.65703 AU	min. Earth dist.	4087 Feb 14 16:39	23°≈35'29	0.66874 AU
morning rise	4086 Mar 07 02:07	5° 		morning rise direct	4087 Feb 18 21:28	18°≈44'58	
direct desc. node	4086 Mar 13 14:48 4086 Mar 24 03:58	7°) (44'13		morning max el	4087 Feb 24 22:18 4087 Mar 09 00:35	16°≈03'24 23°≈16'21	25°27'14
morning max el	4086 Mar 26 15:30	10°\(\frac{44}{15}\)	26°41'00	desc. node	4087 Mar 11 01:00	25°≈24'01	23 27 14
morning max cr	4086 Apr 11 08:33	0°Υ	20 41 00	dese. Hode	4087 Mar 14 23:50	0° ∀	
	4086 Apr 29 11:03	0°8			4087 Apr 04 17:06	0° Υ	
morning set	4086 May 01 14:02	3° 8 58'54		morning set	4087 Apr 14 05:54	16° Y 25'42	
max. Earth dist.	4086 May 05 19:27	12° 8 12'07	1.34483 AU	max. Earth dist.	4087 Apr 17 22:54	23° Y 17'11	1.36206 AU
					4087 Apr 21 10:50	9° 8	
superior conj	4086 May 10 05:59	21° 8 13'32					
minimum elong	4086 May 10 08:05	21° 8 24'27	0°39'17	superior conj	4087 Apr 23 21:06	4° 8 47'18	
asc. node	4086 May 14 03:48	29° 8 23'55		minimum elong	4087 Apr 24 00:46	5° 8 05'35	1°08'04
evening rise	4086 May 14 10:39 4086 May 17 18:56	0°П 7°П00'29		asc. node evening rise	4087 May 01 00:48 4087 May 02 00:11	19° 8 17'39 21° 8 16'27	
evening rise	4086 May 17 18.36 4086 May 30 06:46	7 п 00 29		evening rise	4087 May 06 09:48	0°II	
evening max el	4086 Jun 06 03:52	8° 9 31'23	21°06'28	evening max el	4087 May 19 13:06	19° ∏ 48'38	19°51'50
retrograde	4086 Jun 17 23:32	14° © 19'15	21 0020	retrograde	4087 May 29 15:24	24° I I43'43	1, 0100
evening set	4086 Jun 20 04:59	14° © 07'41		evening set	4087 May 31 14:14	24° Ⅱ 33'30	
desc. node	4086 Jun 20 03:11	14° © 08'26		desc. node	4087 Jun 07 00:12	22° I 101'02	
inferior conj	4086 Jun 29 13:39	10° 5 09'49	-2°43'15	inferior conj	4087 Jun 09 11:53	20° ∏ 32′21	-0°44'16
minimum elong	4086 Jun 29 06:20		2°40'49	minimum elong	4087 Jun 09 09:51	20° ∏ 35′28	0°43'30
min. Earth dist.	4086 Jun 30 01:27	9° © 53'13	0.54829 AU	min. Earth dist.	4087 Jun 11 14:12	19° Ⅱ 15'35	0.55382 AU
morning rise	4086 Jul 08 07:52	6°910'56		morning rise	4087 Jun 18 03:27	16° Ⅱ 06'41	
direct	4086 Jul 11 20:15 4086 Jul 24 15:40	5°944'16	22026121	direct	4087 Jun 22 10:22 4087 Jul 06 06:17	15° Ⅲ 26'16 22° Ⅲ 17'24	2491050
morning max el	4086 Jul 24 13.40 4086 Aug 07 01:50	11° © 50′24 0° Ω	22 30 21	morning max el	4087 Jul 13 01:26	0°95	24 19 30
asc. node	4086 Aug 10 03:03	5° Ω 34'14		asc. node	4087 Jul 28 00:05	25° © 05'23	
morning set	4086 Aug 15 19:35	17° Ω 00'52			4087 Jul 30 09:28	$0^{\circ}\Omega$	
C	4086 Aug 21 21:45	0° m p		morning set	4087 Jul 31 07:19	1° Ω 54'58	
superior conj	4086 Aug 22 22:16	2°Mp10′37	1°39'37	superior conj	4087 Aug 07 06:31	16° Ω 59'10	1°29'18
minimum elong	4086 Aug 22 20:51	2° m 03'05	1°39'31	minimum elong	4087 Aug 07 04:24	16° Ω 47'39	1°29'04
max. Earth dist.	4086 Aug 26 01:11	8° Mp 44'16	1.34094 AU	max. Earth dist.	4087 Aug 09 03:30		1.32988 AU
evening rise	4086 Aug 30 19:09 4086 Sep 06 00:27	18° m)19'28 0° ≏		evening rise	4087 Aug 13 09:24 4087 Aug 14 14:26	0° Т р 2° Тр 28'31	
desc. node	4086 Sep 16 02:31	0 == 16° £ 44'51		evening rise	4087 Aug 14 14.20 4087 Aug 29 20:34	0∘ ʊ	
dese. Hode	4086 Sep 25 12:34	0°M		desc. node	4087 Sep 02 23:32	o – 6° ≏ 14'47	
evening max el	4086 Oct 04 11:36	10°M05'50	27°09'42	evening max el	4087 Sep 16 22:41	23° ≙ 16'14	27°26'40
retrograde	4086 Oct 17 19:55	17°M23'18		Č	4087 Sep 27 03:53	0°M	
evening set	4086 Oct 24 17:11	14° M 42'07		retrograde	4087 Sep 30 14:25	0°M32'38	
min. Earth dist.	4086 Oct 28 14:07	10°M59'31	0.65072 AU		4087 Oct 03 21:37	30° ŖΩ	
inferior conj	4086 Oct 30 17:20	8°M36'53		evening set	4087 Oct 07 18:26	27° £ 56'37	
minimum elong	4086 Oct 30 20:56	8°M26'51	2°05'57	min. Earth dist.	4087 Oct 11 10:25	24° Ω 46'49	
morning rise	4086 Nov 06 01:40	3°M03'48		inferior conj	4087 Oct 14 01:47	22° Ω 07'45	
asc. node direct	4086 Nov 06 02:14 4086 Nov 08 17:44	3°M03'08 2°M25'50		minimum elong morning rise	4087 Oct 14 07:00 4087 Oct 20 20:59	21° £ 54'38 16° £ 51'18	3°06'49
morning max el	4086 Nov 08 17:44 4086 Nov 15 05:21	5°M53'43	18°04'17	direct	4087 Oct 20 20:59 4087 Oct 23 07:54	16° £ 31'18	
morning max ci	4086 Dec 01 11:44	0° ⊼	10 071/	asc. node	4087 Oct 23 07:34 4087 Oct 23 23:17	16° £ 22'15	
morning set	4086 Dec 03 05:24	2° ≯ 52'38		morning max el	4087 Oct 29 22:00	19° £ 47'27	17°50'43
-				<u> </u>			

morning set	4087 Nov 06 11:44 4087 Nov 15 09:20 4087 Nov 24 01:15	0°M 15°M08′20 0°⊀		direct asc. node	4088 Oct 05 13:02 4088 Oct 06 08:52 4088 Oct 09 20:21	29° M 57'03 0° Ω 1° Ω 17'48	17055127
superior conj minimum elong	4087 Nov 27 14:24 4087 Nov 27 16:07	5° 尽 54'39 6° 尽 01'40	0°16'18 0°16'03	morning max el morning set	4088 Oct 12 13:06 4088 Oct 28 08:37 4088 Oct 29 06:47	3° £ 28'04 28° £ 18'57 0° M	17°55'27
behind sun begin behind sun end desc. node	4087 Nov 27 15:13 4087 Nov 27 17:00 4087 Nov 29 22:50	5° ₹ 57'58 6° ₹ 05'21 9° ₹ 45'59		superior conj minimum elong	4088 Nov 07 20:34 4088 Nov 08 00:36	17° M 07'03 17° M 24'31	0°53'59 0°53'28
max. Earth dist.	4087 Dec 03 18:29 4087 Dec 12 17:37	15° メ 55'52 0° る	1.44159 AU	max. Earth dist.	4088 Nov 15 11:43 4088 Nov 15 07:54	0° ₹ 29° ™ 44'16	1.42652 AU
evening rise	4087 Dec 13 04:41 4088 Jan 01 23:09 4088 Jan 11 04:36	0°る42'40 0°≈ 11°≈28'52	20°48'52	desc. node evening rise	4088 Nov 15 19:51 4088 Nov 21 20:09 4088 Dec 04 20:59	0°♂33'20 10°♂12'49 0°♂	
evening max el retrograde asc. node	4088 Jan 19 12:09 4088 Jan 19 22:31	16°≈23'42 16°≈22'40	20 46 32	evening max el	4088 Dec 24 00:03 4088 Dec 30 13:07		22°02'50
evening set inferior conj	4088 Jan 23 12:15 4088 Jan 28 20:48	14°≈52'06 8°≈41'12	2°39'34	retrograde	4089 Jan 02 09:04 4089 Jan 05 00:48	0°≈37'22 30°Rる	
minimum elong min. Earth dist. morning rise	4088 Jan 28 18:19 4088 Jan 29 08:45 4088 Feb 03 00:13	8°≈49'43 8°≈00'08 2°≈27'57	2°38'53 0.67625 AU	asc. node evening set inferior conj	4089 Jan 05 19:35 4089 Jan 06 19:57 4089 Jan 12 04:17	29°る34'05 28°る50'11 22°る30'28	2°01'15
direct morning max el desc. node	4088 Feb 08 10:50 4088 Feb 19 09:11	0°≈03'42 6°≈34'50 14°≈02'16	24°00'54	minimum elong min. Earth dist.	4089 Jan 12 01:59 4089 Jan 12 04:25	22°る38'26 22°る30'00 16°る19'24	2°00'28 0.67979 AU
morning set	4088 Feb 25 22:02 4088 Mar 08 13:42 4088 Mar 26 00:42	0° ℋ 27° ℋ 48'29		morning rise direct morning max el	4089 Jan 17 07:53 4089 Jan 22 03:38 4089 Jan 31 19:40	16° ට 19'24 14° ට 16'51 19° ට 59'18	22°31'59
max. Earth dist.	4088 Mar 27 07:03 4088 Mar 29 19:10	0° Υ 4° Υ 25'02	1.38273 AU	desc. node	4089 Feb 09 06:45 4089 Feb 11 19:04	0° ≈ 3° ≈ 21'50 0° 米	
superior conj minimum elong	4088 Apr 05 24:00 4088 Apr 06 04:42	17° Ƴ 41'51 18° Ƴ 04'12		morning set max. Earth dist.	4089 Mar 01 18:58 4089 Mar 06 16:30 4089 Mar 11 15:13	7° ¥ 52'30 16° ¥ 07'13	1.40454 AU
evening rise	4088 Apr 12 08:07 4088 Apr 14 22:42	0°8 5°807'52		superior conj	4089 Mar 19 10:15	29°) 46′17 0° ° 05′32	
asc. node evening max el	4088 Apr 16 21:49 4088 Apr 29 17:43 4088 May 01 09:50	8° В 57'58 0° П 1° П 46'35	18°56'51	minimum elong evening rise	4089 Mar 19 14:31 4089 Mar 19 13:18 4089 Mar 29 11:15	0° Υ 0° Υ 18° Υ 26'16	1-36.08
retrograde evening set	4088 May 09 22:00 4088 May 12 00:25	5°П56'01 5°П41'49		asc. node	4089 Apr 03 18:52 4089 Apr 04 17:19	28°Y19'29 0°B	
inferior conj minimum elong	4088 May 20 03:03 4088 May 20 05:28 4088 May 22 03:16	1°П25'33 1°П21'16 30°R		evening max el retrograde evening set	4089 Apr 14 15:20 4089 Apr 21 23:29 4089 Apr 24 08:32	14° 8 19'54 17° 8 58'26 17° 8 36'31	18°22'15
min. Earth dist. desc. node	4088 May 23 05:56 4088 May 23 21:13	29° 8 13'57 28° 8 48'29	0.56789 AU	inferior conj minimum elong	4089 May 01 15:46 4089 May 01 19:26	13° 8 00'35 12° 8 52'59	2°23'42 2°22'44
morning rise direct	4088 May 28 07:18 4088 Jun 02 13:22 4088 Jun 13 18:55	26° ႘ 23'51 25° ႘ 18'03 0° 川		min. Earth dist. morning rise desc. node	4089 May 05 02:25 4089 May 09 03:21 4089 May 10 18:14	10° 8 10'46 7° 8 27'44 6° 8 42'06	0.58762 AU
morning max el	4088 Jun 16 20:55 4088 Jul 06 06:37	2° Ⅱ 42'45 0°໑	25°55'44	direct morning max el	4089 May 15 06:50 4089 May 29 16:20	5° 8 47'26 13° 8 33'08	27°08'18
asc. node morning set	4088 Jul 13 21:07 4088 Jul 14 18:36 4088 Jul 20 20:47	14°©53'33 16°©46'29 0°Ω		morning set asc. node	4089 Jun 11 18:05 4089 Jun 28 10:30 4089 Jun 29 03:49 4089 Jun 30 18:10	0°II 0°© 1°©30'22 4°©53'23	
superior conj minimum elong	4088 Jul 21 17:29 4088 Jul 21 15:08	1° N 53'54 1° N 41'03		superior conj	4089 Jul 06 05:20	16°5948'56	0°54'36
max. Earth dist. evening rise	4088 Jul 22 12:04 4088 Jul 28 17:22	3°N36'04 16°N58'36	1.32293 AU	minimum elong max. Earth dist.	4089 Jul 06 03:15 4089 Jul 05 23:31	16°537'27 16°516'51	0°54'13 1.32010 AU
desc. node	4088 Aug 04 07:02 4088 Aug 19 20:32 4088 Aug 23 18:31	0° M) 25° M) 02'58 0° <u>Ω</u>		evening rise	4089 Jul 12 06:11 4089 Jul 13 01:24 4089 Jul 28 08:00	0° ብ 1° ብ 42'08 0° 顺	
evening max el retrograde	4088 Aug 29 05:43 4088 Sep 12 02:03	5° £ 51'18 13° £ 04'44	27°12'04	desc. node evening max el	4089 Aug 06 17:32 4089 Aug 11 06:25	12° m/52'27 17° m/41'21	26°24'13
evening set min. Earth dist. inferior conj	4088 Sep 19 05:07 4088 Sep 22 20:05 4088 Sep 25 21:56	10° ♀ 45'52 8° ♀ 00'48 5° ♀ 16'46	0.61578 AU -4°05'25	retrograde evening set min. Earth dist.	4089 Aug 25 05:40 4089 Aug 31 20:35 4089 Sep 04 19:46	24° m 51'21 23° m 02'34 20° m 27'27	0.59513 AU
minimum elong morning rise	4088 Sep 26 03:55 4088 Oct 03 04:31 4088 Oct 04 17:04	5° ₽ 03'25 0° ₽ 20'18 30°R M	4°03'53	inferior conj minimum elong morning rise	4089 Sep 08 02:17 4089 Sep 08 07:05 4089 Sep 15 19:44	17° m/55'11 17° m/45'51 13° m/21'03	

direct	4089 Sep 18 05:00	13° m 00'55		minimum elong	4090 Aug 20 12:05	29° Ω 51'25	5°11'15
morning max el	4089 Sep 25 23:19	16° Mp 47'00	18°19'48	minimum ciong	4090 Aug 20 07:02	30°RΩ	3 11 13
asc. node	4089 Sep 26 17:24	17° mp 32'27	10 17 10	morning rise	4090 Aug 28 14:18	25° Ω 40'34	
use. Houe	4089 Oct 05 08:12	0∘ ʊ		direct	4090 Aug 31 03:40	25° Ω 21'22	
morning set	4089 Oct 11 21:45	12° ჲ 09'09		morning max el	4090 Sep 09 01:13	29° Ω 33'06	19°05'12
. 8					4090 Sep 09 12:20	0° m	
superior conj	4089 Oct 21 02:43	29° ഫ 29'39	1°20'40	asc. node	4090 Sep 13 14:27	4° m) 51'57	
minimum elong	4089 Oct 21 06:29	29° ≏ 46'50	1°20'17	morning set	4090 Sep 25 20:23	26° m 26'07	
	4089 Oct 21 09:21	0° M			4090 Sep 27 15:30	0∘ ⊽	
max. Earth dist.	4089 Oct 28 15:52	12°M52'16	1.40737 AU				
evening rise	4089 Nov 02 06:32	20°M36'23		superior conj	4090 Oct 04 03:18	12° ≏ 45'52	1°36'47
desc. node	4089 Nov 02 16:53	21°M18'50		minimum elong	4090 Oct 04 05:36	12° ≏ 56'57	1°36'37
	4089 Nov 08 03:05	0°⊀		max. Earth dist.	4090 Oct 10 20:34	25° ≙ 18'37	1.38650 AU
	4089 Nov 29 02:26	8°0			4090 Oct 13 11:50	0° M	
evening max el	4089 Dec 06 15:17	8° る 39'34	23°22'18	evening rise	4090 Oct 14 16:11	2°M03'28	
retrograde	4089 Dec 17 03:15	14° る 52'17		desc. node	4090 Oct 20 13:55	11° M 58'05	
evening set	4089 Dec 22 02:31	12° る 49'09			4090 Nov 01 08:30	0° ∡	
asc. node	4089 Dec 23 16:38	11° る 16'50		evening max el	4090 Nov 19 04:19	22° х 20′45	24°41'06
min. Earth dist.	4089 Dec 27 01:17	7° る 01'40	0.67970 AU	retrograde	4090 Nov 30 17:27	29° ∡ 04'18	
inferior conj	4089 Dec 27 12:06	6° る 24'31	1°15'53	evening set	4090 Dec 06 06:19	26° ₹ 45'45	
minimum elong	4089 Dec 27 10:27	6° る 30'12	1°15'14	asc. node	4090 Dec 10 13:40	21° ₹ 55'56	
morning rise	4090 Jan 01 18:18	0° る 17'27		min. Earth dist.	4090 Dec 10 20:53	21° ≯ 32'13	0.67607 AU
	4090 Jan 02 03:31	30°Ŗ ⋌ 7		inferior conj	4090 Dec 11 18:27	20° ≯ 20′33	0°24'29
direct	4090 Jan 05 23:50	28° ∡ ³37'41		minimum elong	4090 Dec 11 17:51	20° ∡ *22'33	0°24'14
	4090 Jan 10 04:24	0°る		morning rise	4090 Dec 17 05:29	14° ₹ 19'43	
morning max el	4090 Jan 14 11:30	3° る 32'53	21°08'53	direct	4090 Dec 20 22:04	13° ∡ *01′28	
desc. node	4090 Jan 29 16:07	23° る 11'19		morning max el	4090 Dec 28 11:02	17° ∡ 18′01	19°57'27
	4090 Feb 03 07:20	0° ≈			4091 Jan 07 11:58	0°る	
morning set	4090 Feb 14 04:06	16°≈37'57		desc. node	4091 Jan 16 13:10	13°る22'30	
max. Earth dist.	4090 Feb 21 17:09	28°≈43'12	1.42474 AU	morning set	4091 Jan 24 00:22	24°₹47'16	
	4090 Feb 22 11:53	0°) €		P. d. F.	4091 Jan 27 09:05	0° ≈	1 440/2 444
	4000 E-L 20 22.40	1001/40102	2007117	max. Earth dist.	4091 Feb 04 03:17	12°≈13'03	1.44062 AU
superior conj	4090 Feb 28 22:48 4090 Feb 28 23:59	10°) 49'02 10°) 54'03		gymarian agni	4001 Eab 00 00:40	20% 04250	202120
minimum elong	4090 Feb 28 23.39 4090 Mar 11 20:03	10 χ3403 0°Υ	2 0/10	superior conj minimum elong	4091 Feb 09 09:49 4091 Feb 09 05:12	20°≈42'50 20°≈24'01	
evening rise	4090 Mar 12 09:55	1°Υ02'30		minimum clong	4091 Feb 15 00:58	20 ≈ 2401 0°) (2 02 17
asc. node	4090 Mar 21 15:55	17° Υ 15'30		evening rise	4091 Feb 22 14:19	12°) 48'11	
evening max el	4090 Mar 29 02:08	27° Υ 19'02	18°07'30	evening rise	4091 Mar 04 19:06	0°Υ	
evening max er	4090 Apr 01 17:32	0°8	10 07 50	asc. node	4091 Mar 08 12:57	5° Υ 37'55	
retrograde	4090 Apr 04 17:56	0° 8 42'54		evening max el	4091 Mar 12 14:56	10° Y 35′07	18°11'55
evening set	4090 Apr 07 09:28	0° 8 10'52		retrograde	4091 Mar 19 01:03	13° Y 59'10	10 1100
<i>8</i>	4090 Apr 07 19:41	30°RƳ		evening set	4091 Mar 21 22:32	13° Y 15'41	
inferior conj	4090 Apr 14 00:29	25°Υ14'16	3°11'28	inferior conj	4091 Mar 28 01:18	7° Y 59'15	3°33'13
minimum elong	4090 Apr 14 03:09	25° Y 07'51	3°11'01	minimum elong	4091 Mar 28 02:15	7° Y ′56′42	3°33'10
min. Earth dist.	4090 Apr 17 05:35	22° Y 10'50	0.60953 AU	min. Earth dist.	4091 Mar 30 17:25	5° Y 06'11	0.63048 AU
morning rise	4090 Apr 20 18:49	19° Ƴ 20'51		morning rise	4091 Apr 03 04:51	1° Y 54'03	
direct	4090 Apr 27 12:02	17° Y 06'33		-	4091 Apr 06 09:49	30° ₹	
desc. node	4090 Apr 27 15:17	17° Y 06'37		direct	4091 Apr 10 02:14	29°) (15′18	
morning max el	4090 May 11 17:56	25° Y ′02'38	27°46'47		4091 Apr 13 23:33	0 ° Υ	
	4090 May 16 06:56	0°8		desc. node	4091 Apr 14 12:20	0° Υ 12'32	
	4090 Jun 05 03:18	$\Pi^{\circ}0$		morning max el	4091 Apr 24 00:50	7° Y 13'37	27°47'43
morning set	4090 Jun 13 09:03	15° Ⅱ 59'45			4091 May 11 10:48	9° 8	
asc. node	4090 Jun 17 15:12	24° ∏ 59'24		morning set	4091 May 28 08:09	0°Ⅱ08'06	
max. Earth dist.	4090 Jun 19 10:04	28° ∏ 52'13	1.32145 AU		4091 May 28 06:33	Π °0	
	4090 Jun 19 22:28	0 \circ \odot		max. Earth dist.	4091 Jun 02 16:00	11° Ⅱ 10′37	1.32705 AU
				asc. node	4091 Jun 04 12:14	15° Ⅱ 07'38	
superior conj	4090 Jun 20 16:16	1° © 37'29	0°31'29				
minimum elong	4090 Jun 20 14:53	1°529'56	0°31'11	superior conj	4091 Jun 05 00:32	16° Ⅱ 14'01	0°05'23
evening rise	4090 Jun 27 12:17	16° © 31'10		minimum elong	4091 Jun 05 00:17	16° Ⅱ 12'36	0°05'19
	4090 Jul 04 04:11	0° N	2500511.4	behind sun begin	4091 Jun 04 19:18	15° ∏ 45'42	
evening max el	4090 Jul 23 23:49	28° Ω 43'41	25°07'14	behind sun end	4091 Jun 05 05:15	16° ∏ 39'32	
desc. node	4090 Jul 24 14:34	29° Ω 18'20		:·	4091 Jun 11 09:12	0°95	
notno a J-	4090 Jul 25 09:06	0°Mp 5°Mn 47!45		evening rise	4091 Jun 12 00:09	1°©19'35	
retrograde	4090 Aug 06 22:49	5° Mp 47'45		ovening mag1	4091 Jun 27 20:09	0°Ω 0°Ω12'48	22022146
evening set	4090 Aug 12 12:15	4° Mp 37'02	0.57511 ATT	evening max el	4091 Jul 05 12:50	9° Ω 12'48	25 32 40
min. Earth dist. inferior conj	4090 Aug 17 11:30 4090 Aug 20 11:31	1° 10/53′35 29° Ω 52′23	0.57511 AU -5°11'16	desc. node retrograde	4091 Jul 11 11:34 4091 Jul 19 03:22	13° Ω 49'05 16° Ω 01'56	
	TUJU MUK ZU II.JI	41 063443	J 11 10	renograde	7071 Jul 17 U3.44	10 0001 30	

avanina aat	4091 Jul 23 05:27	15° Ω 25'20		inferior conj	4092 Jul 10 21:59	21° © 34'54	29.42106
evening set			0 55004 ATT	,			
min. Earth dist.	4091 Jul 29 22:41		0.55884 AU	minimum elong	4092 Jul 10 13:26	21°546'53	3°40'45
inferior conj	4091 Aug 01 00:34	11°Ω03'13		min. Earth dist.	4092 Jul 10 09:06	21°952'57	0.54949 AU
minimum elong	4091 Jul 31 19:02		4°51'38	morning rise	4092 Jul 19 14:29	17° © 43'41	
morning rise	4091 Aug 09 11:04	7° Ω 08'43		direct	4092 Jul 22 19:17	17° © 21'05	
direct	4091 Aug 12 07:06	6° Ω 48'50		morning max el	4092 Aug 03 19:08	22° © 57'46	21°39'41
morning max el	4091 Aug 22 16:02	11° Ω 37'48	20°12'25		4092 Aug 09 22:24	0 $^{\circ}$ Ω	
asc. node	4091 Aug 31 11:29	23° Ω 02'17		asc. node	4092 Aug 17 08:31	11° Ω 51'37	
	4091 Sep 04 10:49	0° m)		morning set	4092 Aug 24 10:30	25° Ω 48'37	
morning set	4091 Sep 10 01:25	11° m 01'24			4092 Aug 26 10:28	0° m ∕	
superior conj	4091 Sep 17 17:19	26° Mp 41'44	1°43'43	superior conj	4092 Aug 31 16:46	11°Mp05'46	1°42'59
minimum elong	4091 Sep 17 17:57	26° Mp 44'53	1°43'41	minimum elong	4092 Aug 31 15:58	11° m)01'38	1°42'58
	4091 Sep 19 08:57	0∘ ⊽		max. Earth dist.	4092 Sep 04 15:00	19° m 10'07	1.34904 AU
max. Earth dist.	4091 Sep 23 02:40	7° ≏ 17'12	1.36639 AU	evening rise	4092 Sep 08 23:42	27° m 44'57	
evening rise	4091 Sep 26 23:16	14° ≏ 29'39			4092 Sep 10 04:08	0∘ ত	
	4091 Oct 05 22:42	0°M		desc. node	4092 Sep 23 07:55	22° ₽ 38'44	
desc. node	4091 Oct 07 10:56	2°M26'33			4092 Sep 28 05:07	0° M ₊	
	4091 Oct 27 02:14	0° ∡ ¹		evening max el	4092 Oct 14 05:13	19° M 41'46	26°47'34
evening max el	4091 Nov 01 16:45	6° ∡ '03'29	25°52'00	retrograde	4092 Oct 27 07:04	26°M57'48	
retrograde	4091 Nov 14 02:53	13° ∡ '08'12		evening set	4092 Nov 02 22:27	24°M17'38	
evening set	4091 Nov 20 05:37	10° ∡ 36′25		min. Earth dist.	4092 Nov 06 22:47	20°M15'06	0.65833 AU
min. Earth dist.	4091 Nov 24 12:48	5° √ 58'04	0.66897 AU	inferior conj	4092 Nov 08 19:11	18°M05'06	
inferior conj	4091 Nov 25 21:28	4° × 715'13		minimum elong	4092 Nov 08 21:44	17°ML57'36	
minimum elong	4091 Nov 25 22:18	4°×12'34		asc. node	4092 Nov 13 07:44	13°M26'32	1 30 30
asc. node	4091 Nov 27 10:43	2° × ⁷ 20'16	0 3132	morning rise	4092 Nov 14 21:50	12°M24'29	
asc. Houc	4091 Nov 27 10:43 4091 Nov 29 14:23	30°RM		direct	4092 Nov 17 18:01	11°M39'50	
morning rise		28°M23'07				15°M12'55	18°20'08
morning rise direct	4091 Dec 01 15:24 4091 Dec 04 20:45	28 IL23 07 27°M23'30		morning max el	4092 Nov 24 07:21 4092 Dec 05 02:09	13 IIC1233 0° √	18 20 08
direct		27 11623 30 0° √ 1					
	4091 Dec 10 11:00		10000144	morning set	4092 Dec 13 15:21	13° x ⁷ 44'05	
morning max el	4091 Dec 11 18:16	1° ⋌ 12'54	19°00'44	desc. node	4092 Dec 20 07:14	24° ₹ 26'14	
	4091 Dec 31 23:30	0°る			4092 Dec 23 19:11	0°₹	
morning set	4092 Jan 03 06:20	3° る 33'49			1000 D 00 00 50	00711150	0055110
desc. node	4092 Jan 03 10:12	3° る 48'57		superior conj	4092 Dec 28 23:53	8° 궁 11'53	
max. Earth dist.	4092 Jan 17 19:37	26° る 20'03	1.45024 AU	minimum elong	4092 Dec 28 16:48	7°る44'02	
				max. Earth dist.	4092 Dec 30 14:38	10° る 43'57	1.45258 AU
superior conj	4092 Jan 19 21:27	29° る 36'23			4093 Jan 11 21:56	0° ≈	
minimum elong	4092 Jan 19 12:21		1°37'24	evening rise	4093 Jan 14 03:53	3° ≈ 31'29	
	4092 Jan 20 03:26	0° ≈		greatest brilliancy	4093 Jan 25 00:56	20° ≈ 30′23	-0.8m
evening rise	4092 Feb 03 20:36	23° ≈ 37′04			4093 Jan 31 10:39	0° ∀	
	4092 Feb 07 18:21	0° ℋ		evening max el	4093 Feb 06 11:38	7° ∺ 30'20	19°15'01
asc. node	4092 Feb 23 09:59	23°) (15′57		asc. node	4093 Feb 09 07:00	9° ∺ 57'16	
evening max el	4092 Feb 24 02:51	24° ∺ 00′16	18°34'46	retrograde	4093 Feb 13 12:37	11° ∺ 31'25	
retrograde	4092 Mar 01 16:30	27°) € 37′25		evening set	4093 Feb 16 22:56	10°) 22′43	
evening set	4092 Mar 04 19:58	26°) 41′44		inferior conj	4093 Feb 22 11:33	4°) €32'04	3°22'21
inferior conj	4092 Mar 10 14:09	21°) €07'05	3°35'13	minimum elong	4093 Feb 22 09:46	4°){ 37'47	3°22'06
minimum elong	4092 Mar 10 13:30	21° ∺ 09′02	3°35'12	min. Earth dist.	4093 Feb 23 20:55	2°) 44'38	0.66255 AU
min. Earth dist.	4092 Mar 12 14:44	18°) 41′53	0.64847 AU		4093 Feb 26 03:45	30° R ≈	
morning rise	4092 Mar 16 06:28	14° ¥ 55'48		morning rise	4093 Feb 27 20:18	28° ≈ 18'13	
direct	4092 Mar 22 23:56	12°) €05'56		direct	4093 Mar 06 04:12	25° ≈ 30′20	
desc. node	4092 Mar 31 09:22	15°) (30′39			4093 Mar 15 14:09	0°) €	
morning max el	4092 Apr 05 10:34	19°) 57′32	27°13'43	desc. node	4093 Mar 18 06:26	2°) 27'20	
	4092 Apr 14 00:56	0 ° Υ		morning max el	4093 Mar 18 20:29	3°) €02'22	26°11'45
	4092 May 03 11:57	0°8			4093 Apr 08 07:00	$0^{\circ}\mathbf{Y}$	
morning set	4092 May 10 22:18	13° 8 46'18		morning set	4093 Apr 23 23:45	26° Ƴ 43'40	
max. Earth dist.	4092 May 15 13:19		1.33707 AU	Ü	4093 Apr 25 17:29	0° ႘	
	4092 May 18 22:06	0°Щ		max. Earth dist.	4093 Apr 27 23:12	_	1.35169 AU
		-				- -0.7	
superior conj	4092 May 19 04:07	0°∏31'40	-0°22'55	superior conj	4093 May 03 00:38	14° 8 23'55	-0°52'08
minimum elong	4092 May 19 05:18	0° П 37'56		minimum elong	4093 May 03 00:36 4093 May 03 03:26	14° 8 38'11	0°51'36
asc. node	4092 May 21 09:16	5° П 13'29	V 22 TO	asc. node	4093 May 03 05:20 4093 May 08 06:17	25° 8 12'59	3 31 30
	4092 May 26 11:04	16° Д 00'26			•	23 О 12 39 0° П 27'33	
evening rise	4092 May 26 11:04 4092 Jun 02 11:39	16°Щ00′26		evening rise	4093 May 10 19:02	0°Щ2/33 0°П	
avaning may al			21056140		4093 May 10 13:41	0₀ © 0∘П	
evening max el desc. node	4092 Jun 16 04:46	19° © 39'13	21°56'48	ovening mass -1	4093 May 28 17:22		20022120
	4092 Jun 27 08:34	25°\$50'09		evening max el	4093 May 29 06:53	0°533'49	20°32'20
retrograde	4092 Jun 28 20:42	25°955'25		retrograde	4093 Jun 09 09:43	5°959'45	
evening set	4092 Jul 01 13:58	25° © 38'52		evening set	4093 Jun 11 10:10	5° © 49'44	

desc. node	4093 Jun 14 05:36	5° © 05'06			4094 May 03 01:01	0° I I	
inferior conj	4093 Jun 20 15:44	1°952'15	1052120	evening max el	4094 May 11 21:28	12° I I10'13	19°25'59
3	4093 Jun 20 10:25	1°959'56	1°51'34	•	•	12 H 10 13	19 23 39
minimum elong				retrograde	4094 May 21 06:34		
min. Earth dist.	4093 Jun 21 21:06	1°509'48	0.54943 AU	evening set	4094 May 23 06:09	16° Ⅱ 32'39	000 4140
	4093 Jun 23 23:05	30°RII		inferior conj	4094 May 31 20:15	12° II 26'33	0°04'42
morning rise	4093 Jun 29 09:48	27° Ⅱ 43'36		minimum elong	4094 May 31 20:27	12° II 26'13	0°04'37
direct	4093 Jul 03 04:54	27° Ⅱ 12'31		transit middle	4094 May 31 20:27	12° Ⅱ 26'13	0°04'37
	4093 Jul 11 21:25	0°©		transit begin	4094 May 31 16:44	12° Ⅲ 32'14	
morning max el	4093 Jul 16 12:57	3° © 39'33	23°20'25	transit end	4094 Jun 01 00:10	12° Ⅱ 20'11	
_	4093 Aug 03 15:09	0 $^{\circ}$ Ω		desc. node	4094 Jun 01 02:38	12° Ⅱ 16'11	
asc. node	4093 Aug 04 05:33	1° Ω 09'52		min. Earth dist.	4094 Jun 03 11:20	10° Ⅱ 44'51	0.55891 AU
morning set	4093 Aug 08 21:44	10° Ω 41'38		morning rise	4094 Jun 09 07:55	7° Ⅱ 45'32	
				direct	4094 Jun 14 00:38	6° ∏ 55'30	
superior conj	4093 Aug 15 22:31	25° Ω 47'52	1°35'53	morning max el	4094 Jun 28 02:52	14° Ⅱ 03'12	25°02'25
minimum elong	4093 Aug 15 20:45	25° Ω 38′20	1°35'45		4094 Jul 10 15:59	0_{\circ} වෙ	
	4093 Aug 17 21:45	0° m y		asc. node	4094 Jul 22 02:36	20°5649'21	
max. Earth dist.	4093 Aug 18 12:07	1° m)15'57	1.33561 AU	morning set	4094 Jul 24 09:30	25° © 35'36	
evening rise	4093 Aug 23 13:10	11° m 37'33			4094 Jul 26 10:54	$0 ^{\circ} \Omega$	
	4093 Sep 02 11:07	0∘ ত					
desc. node	4093 Sep 10 04:54	12° ≏ 26'49		superior conj	4094 Jul 31 08:13	10° Ω 40′28	1°23'24
	4093 Sep 23 16:15	0° M		minimum elong	4094 Jul 31 05:56	10° Ω 28′02	1°23'07
evening max el	4093 Sep 26 17:14	3°M05'35	27°20'35	max. Earth dist.	4094 Aug 01 17:24	13° Ω 41'27	1.32642 AU
retrograde	4093 Oct 10 05:32	10°M24'08		evening rise	4094 Aug 07 12:09	25° Ω 57'23	
evening set	4093 Oct 17 06:17	7°M43'36			4094 Aug 09 12:03	O° m	
min. Earth dist.	4093 Oct 21 00:42	4°M15'39	0.64422 AU		4094 Aug 26 21:42	0∘ ত	
inferior conj	4093 Oct 23 09:14	1° M .44'34	-2°33'34	desc. node	4094 Aug 28 01:55	1° ≙ 40'51	
minimum elong	4093 Oct 23 13:34	1°ML32'58	2°31'57	evening max el	4094 Sep 09 03:03	16° ≏ 03'01	27°24'36
	4093 Oct 25 01:15	30° ₹ Ω		retrograde	4094 Sep 22 21:19	23° ≏ 18'22	
morning rise	4093 Oct 29 22:06	26° ≏ 18'19		evening set	4094 Sep 30 01:51	20° ≏ 48'21	
asc. node	4093 Oct 31 04:47	25° £ 53'13		min. Earth dist.	4094 Oct 03 16:48	17° £ 50'04	0.62694 AU
direct	4093 Nov 01 11:32	25° - 44'43		inferior conj	4094 Oct 06 12:53	15° ≏ 07'18	-3°33'38
morning max el	4093 Nov 07 23:32	29° £ 10'46	17°56'23	minimum elong	4094 Oct 06 18:35	14° £ 53'37	
5 5	4093 Nov 08 18:26	0°M		morning rise	4094 Oct 13 12:54	9° ≏ 58'42	
morning set	4093 Nov 25 05:07	25°M18'28		direct	4094 Oct 15 22:20	9° ₽ 32'32	
	4093 Nov 27 23:54	0° ∡ ¹		asc. node	4094 Oct 18 01:50	9° £ 54'09	
desc. node	4093 Dec 07 04:14	15° х 109′53		morning max el	4094 Oct 22 15:52	12° £ 59'31	17°50'22
acco. noac	10,5 200 0, 01.11	10 7. 09 00		morning man vi	4094 Nov 03 05:22	0°M	1, 0022
superior conj	4093 Dec 08 13:46	17° ∡ ¹25'22	-0°09'39	morning set	4094 Nov 07 18:02	7° M 59'30	
minimum elong	4093 Dec 08 12:38	17° × 20'46		morning set	40741107 07 10.02	7 1103730	
behind sun begin	4093 Dec 08 04:13	16° × 46'51	0 0)2)	superior conj	4094 Nov 19 04:23	27° M 51'51	0°33'34
behind sun end	4093 Dec 08 21:02	17° × 754'38		minimum elong	4094 Nov 19 07:29	28°M04'52	0°33'08
max. Earth dist.	4093 Dec 13 09:14	25° ₹ 06'14	1.44755 AU	minimum ciong	4094 Nov 20 10:56	0° √	0 33 00
max. Lattii dist.	4093 Dec 16 11:51	23 × 00 14	1.44/33 AO	desc. node	4094 Nov 24 01:14	5° ∡ 756'37	
evening rise	4093 Dec 10 11:31 4093 Dec 24 17:39	12°る47'28		max. Earth dist.	4094 Nov 26 01:12	9° × ⁷ 11'33	1.43583 AU
evening rise	4094 Jan 05 01:17	0°≈		evening rise	4094 Dec 04 03:46	22° × ⁷ 00'57	1.43363 AU
greatest brilliancy	4094 Jan 08 08:40	0 ∞ 4°≈54'06	-0.6m	evening rise	4094 Dec 09 08:47	22 x 00 37 0°る	
evening max el	4094 Jan 20 15:44	4 ≈34 00 21°≈02'29	20°10'55		4094 Dec 30 12:54	0°≈	
asc. node			20 10 33	avanina may al	4095 Jan 03 14:22	0 ≈ 4°≈35'45	21910/27
	4094 Jan 27 04:02 4094 Jan 28 10:39	25°≈27'08		evening max el retrograde	4095 Jan 12 08:21	4 ≈33 43 9°≈47'07	21 1927
retrograde		25°≈35'58		Č			
evening set	4094 Feb 01 05:11	24°≈13'13	2057150	asc. node	4095 Jan 14 01:06 4095 Jan 16 12:50	9°≈31'27	
inferior conj	4094 Feb 06 14:39	18°≈09'03	2°57'58	evening set		8°≈09'06	2924117
minimum elong	4094 Feb 06 12:17	18°≈17'03	2°57'25	inferior conj	4095 Jan 21 21:07	1°≈54'19	2°24'16
min. Earth dist.	4094 Feb 07 10:05	17°≈03'25	0.67241 AU	minimum elong	4095 Jan 21 18:39	2°≈02'49	2°23'31
morning rise	4094 Feb 11 19:10	11°≈55'01		min. Earth dist.	4095 Jan 22 03:59	1°≈30'35	0.67822 AU
direct	4094 Feb 17 14:08	9°≈19'46	24051122		4095 Jan 23 06:27	30°Rる	
morning max el	4094 Mar 01 05:12	16°≈16'59	24°51'23	morning rise	4095 Jan 27 00:18	25° る 41'50	
desc. node	4094 Mar 05 03:28	20°≈34'34		direct	4095 Feb 01 04:42	23° る 26'13	22022176
	4094 Mar 12 13:47	0° ∀		morning max el	4095 Feb 11 13:58	29° る 36'42	23°22'50
	4094 Apr 01 05:50	0° Υ			4095 Feb 11 23:07	0° ≈	
morning set	4094 Apr 06 07:32	8° Υ 46'20	1.00051	desc. node	4095 Feb 20 00:30	9° ≈ 31'48	
max. Earth dist.	4094 Apr 09 22:31	15° Y 19′25	1.37051 AU	_	4095 Mar 06 09:40	0° ∀	
	1001	0.000	1000:	morning set	4095 Mar 18 15:27	19°) ₹36′52	1.00000
superior conj	4094 Apr 16 11:07	27° Y 43'04		max. Earth dist.	4095 Mar 22 17:34	26°) ₹37'29	1.39202 AU
minimum elong	4094 Apr 16 15:19	28° Y 03'40	1°19'48		4095 Mar 24 15:35	0 ° $\mathbf{\Upsilon}$	
	4094 Apr 17 15:01	0° 8					
evening rise	4094 Apr 24 21:49	14° 8 34'33		superior conj	4095 Mar 30 07:35	10° Y 18'14	
asc. node	4094 Apr 25 03:20	15° 8 02'05		minimum elong	4095 Mar 30 12:21	10° Y 40′23	1°44'44

evening rise	4095 Apr 08 16:33	28° Ƴ 13'04		evening rise	4096 Mar 21 23:45	11° Ƴ 14'57	
evening rise	4095 Apr 09 14:43	0° 8		asc. node	4096 Mar 28 21:27	23°\cdot\46'57	
asc. node	4095 Apr 12 00:23	4° 8 35'16		asc. Houc	4096 Apr 01 16:11	0° 8	
evening max el	4095 Apr 24 22:28		18°39'40	evening max el	4096 Apr 07 06:37	7° 8 10'10	10013131
retrograde	4095 May 02 21:00	28° 8 18'47	10 37 40	retrograde	4096 Apr 14 06:23	10° 8 40'42	10 1331
evening set	4095 May 05 02:21	28° 8 01'32		evening set	4096 Apr 16 18:18	10° 8 14'37	
inferior conj	4095 May 12 20:29	23° 8 37'09	1°42'04	inferior conj	4096 Apr 23 18:07	5° 8 29'27	2017131
minimum elong	4095 May 12 20:29 4095 May 12 23:48	23° 8 30'51	1°41'00	minimum elong	4096 Apr 23 21:32	5° 6 2927	2°46'45
min. Earth dist.	•	23 8 3031	0.57587 AU	min. Earth dist.	•	2° 8 31'03	0.59691 AU
	4095 May 16 04:38		0.37387 AU		4096 Apr 27 03:29	_	0.39091 AU
desc. node	4095 May 18 23:41	19° 8 16'53		morning rise	4096 Apr 30 22:14	29° Y 46'36	
morning rise	4095 May 20 18:04	18° 8 21'30			4096 Apr 30 13:21	30°RΥ	
direct	4095 May 26 10:09	17° 8 01'36	26020107	desc. node	4096 May 04 20:44	28°Υ08'48	
morning max el	4095 Jun 09 18:54	24° 8 35'48	26°30'07	direct	4096 May 07 08:31	27° Y 51'35	
	4095 Jun 14 17:50	0° I			4096 May 14 11:53	0°8	
	4095 Jul 03 17:05	0.2		morning max el	4096 May 21 17:02	5° 8 42'00	27°29'13
morning set	4095 Jul 08 20:07	10°524'26			4096 Jun 08 19:13	0°II	
asc. node	4095 Jul 08 23:38	10° © 43'00		morning set	4096 Jun 22 03:54	25° Ⅱ 02'53	
		_		asc. node	4096 Jun 24 20:42	0°9545'52	
superior conj	4095 Jul 15 19:47	25° © 35'56	1°06'18		4096 Jun 24 12:08	0 \circ \odot	
minimum elong	4095 Jul 15 17:30	25°\$23'20	1°05'55	max. Earth dist.	4096 Jun 28 15:32	9° © 00'50	1.32026 AU
max. Earth dist.	4095 Jul 16 03:46	26°©20'00	1.32133 AU				
	4095 Jul 17 19:45	$0^{\circ}\Omega$		superior conj	4096 Jun 29 07:27	10° © 28'33	0°45'13
evening rise	4095 Jul 22 17:35	10° Ω 34'20		minimum elong	4096 Jun 29 05:37	10° © 18'26	0°44'50
	4095 Aug 01 18:11	0° m		evening rise	4096 Jul 06 03:05	25° © 20'52	
desc. node	4095 Aug 14 22:57	20° Mp 06'23			4096 Jul 08 08:27	$0 ^{\circ} \Omega$	
evening max el	4095 Aug 22 07:53	28° Mp 20'24	26°55'39		4096 Jul 25 18:36	O° Mp	
	4095 Aug 24 04:14	0∘ ত		desc. node	4096 Jul 31 19:59	7° m 23′27	
retrograde	4095 Sep 05 05:27	5° £ 31'24		evening max el	4096 Aug 03 05:20	9° ™ 48'55	25°54'17
evening set	4095 Sep 12 04:54	3° £ 24'14		retrograde	4096 Aug 17 04:35	16° M 56'36	
min. Earth dist.	4095 Sep 15 22:05	0° £ 45'22	0.60714 AU	evening set	4096 Aug 23 10:34	15° m 23'19	
	4095 Sep 16 20:10	30°₽, Т р		min. Earth dist.	4096 Aug 27 17:38	12° m 47'14	0.58643 AU
inferior conj	4095 Sep 19 02:45	28° Mp 04'27	-4°26'34	inferior conj	4096 Aug 30 23:15	10° m 25'53	-5°03'03
minimum elong	4095 Sep 19 08:32	27° m 52'14		minimum elong	4096 Aug 31 02:38	10° m 19'40	5°02'43
morning rise	4095 Sep 26 14:03	23° Mp 16'57		morning rise	4096 Sep 07 20:55	6° Mp 01'40	
direct	4095 Sep 28 22:36	22° m 55'11		direct	4096 Sep 10 07:42	5° m 42'05	
asc. node	4095 Oct 04 22:53	25° m 23'33		morning max el	4096 Sep 18 12:15	9° m 37'11	18°36'32
morning max el	4095 Oct 06 05:12	26° m 31'23	18°03'18	asc. node	4096 Sep 20 19:56	12° m 07'17	
<i>S</i>	4095 Oct 09 06:07	0∘ ⊽			4096 Oct 01 20:28	0∘ ⊽	
morning set	4095 Oct 21 23:50	21° ≏ 28'44		morning set	4096 Oct 04 17:25	5° £ 31'18	
morning sec	4095 Oct 26 14:08	0°M		morning sec	10,0000 01 17.20	0 -5110	
	10,5 000 20 11.00	0 110		superior conj	4096 Oct 13 12:00	22° ჲ 22'45	1°28'44
superior conj	4095 Oct 31 21:20	9°M35'27	1°06'41	minimum elong	4096 Oct 13 15:13	22° ⊆ 37'47	1°28'26
minimum elong	4095 Nov 01 01:29	9°M53'50	1°06'11	minimum ciong	4096 Oct 17 15:30	0°M	1 20 20
max. Earth dist.	4095 Nov 08 12:45	22°M45'29	1.41877 AU	max. Earth dist.	4096 Oct 20 19:13	5°M236'08	1.39851 AU
desc. node	4095 Nov 10 22:15	26°M43'26	1.416// AU	evening rise	4096 Oct 24 22:19	12°M40'47	1.39631 AU
desc. Hode	4095 Nov 10 22:13 4095 Nov 12 22:34	20 11 0 43 20		desc. node	4096 Oct 27 19:16	17°M26'27	
avanina riaa	4095 Nov 14 02:12	0 x . 1° x 751′08		desc. node	4096 Oct 27 19:16 4096 Nov 04 18:25	0° ₹	
evening rise		0°중				0°궁	
avanina may al	4095 Dec 02 19:49	0 3 18° 3 10'59	22026122	avanina may al	4096 Nov 27 03:45 4096 Nov 28 21:48	0 3 1° る 48'49	22956110
evening max el	4095 Dec 17 07:55		22 30 23	evening max el			23 30 19
retrograde	4095 Dec 27 04:09	24°る01'52 22°る07'46		retrograde	4096 Dec 09 20:45 4096 Dec 15 01:48	8°る15'56 6°る05'46	
evening set	4095 Dec 31 20:14			evening set			
asc. node	4095 Dec 31 22:09	22°る03'47	1040140	asc. node	4096 Dec 17 19:12	3°る14'19	0.67055.411
inferior conj	4096 Jan 06 04:57	15°₹45'38	1°42'48	min. Earth dist.	4096 Dec 19 20:49	0°る32'49	0.67855 AU
minimum elong	4096 Jan 06 02:52	15° る 52'50	1°42'03		4096 Dec 20 06:30	30°R.✓	
min. Earth dist.	4096 Jan 06 00:19	16° る 01'39	0.68019 AU	inferior conj	4096 Dec 20 12:18	29° х 40'16	0°54'42
morning rise	4096 Jan 11 09:23	9° ට 36'19		minimum elong	4096 Dec 20 11:03	29° ∡ ⁴44'31	0°54'13
direct	4096 Jan 15 23:02	7° る 43'29		morning rise	4096 Dec 25 20:20	23° х 35'47	
morning max el	4096 Jan 25 02:18	13° る 04'31	21°55'38	direct	4096 Dec 29 20:05	22° ₹ 05'40	
desc. node	4096 Feb 06 21:32	29° る 05'06		morning max el	4097 Jan 06 21:23	26° ∡ 43′07	20°36'56
	4096 Feb 07 13:08	0° ≈			4097 Jan 09 21:10	0°₹	
morning set	4096 Feb 26 18:49	29° ≈ 05′27		desc. node	4097 Jan 23 18:32	19° る 04'06	
	4096 Feb 27 08:24	0° ∀			4097 Jan 31 01:04	0°≈	
max. Earth dist.	4096 Mar 03 16:16	8°) 44'11	1.41351 AU	morning set	4097 Feb 04 21:16	7° ≈ 27'15	
				max. Earth dist.	4097 Feb 13 21:49	21° ≈ 44′21	1.43211 AU
superior conj	4096 Mar 11 09:16	21° ¥ 57'59			4097 Feb 18 22:56	0° ∀	
minimum elong	4096 Mar 11 12:37	22°) 12'43	2°02'26				
	4096 Mar 15 20:57	0 ° $\mathbf{\Upsilon}$		superior conj	4097 Feb 20 11:05	2°) € 30'34	-2°07'28

	4007 E-k 20 10:01	201/20105	2907127	:	4000 I 21 11.10	1100055110	1054127
minimum elong	4097 Feb 20 10:01	2°\(\frac{1}{2}26'05\) 23°\(\frac{1}{2}30'15\)	2-07-27	superior conj	4098 Jan 31 11:10 4098 Jan 31 04:06	11°≈55'12 11°≈26'53	1°54'09
evening rise	4097 Mar 04 15:08 4097 Mar 08 07:35	23 χ3013 0° γ		minimum elong	4098 Feb 11 12:44	0° \	1 34 09
asc. node	4097 Mar 15 18:29	12° Υ 29'28		evening rise	4098 Feb 11 12:44 4098 Feb 14 10:24	4°) € 51'16	
evening max el	4097 Mar 21 18:31	20°Υ16'34	18°07'04	evening rise	4098 Mar 02 04:58	4 γ (3110	
retrograde	4097 Mar 28 06:53	20 γ 10 34 23° γ 39'13	18 07 04	asc. node	4098 Mar 02 04:38 4098 Mar 02 15:30	0° Υ 33'59	
evening set	4097 Mar 31 00:52	23° Υ '02'34		evening max el	4098 Mar 05 07:11		18°19'31
inferior conj	4097 Apr 06 10:11	17° Y 57'17	3°23'27	retrograde	4098 Mar 11 17:55	7° Υ 04'50	16 1931
minimum elong	4097 Apr 06 12:09	17° Y 52'19	3°23'14	evening set	4098 Mar 14 17:49	6°Υ16'24	
min. Earth dist.	4097 Apr 09 10:17	14° Υ 55'31	0.61862 AU	inferior conj	4098 Mar 20 16:32	0°Υ52'15	3°36'09
morning rise	4097 Apr 12 21:47	11° Y 57'36	0.01602 AC	minimum elong	4098 Mar 20 16:45	0° Υ 51'38	3°36'09
direct	4097 Apr 19 17:41	9° Υ 31'29		minimum clong	4098 Mar 21 10:52	30°R) €	3 30 07
desc. node	4097 Apr 21 17:46	9° Υ 43'10		min. Earth dist.	4098 Mar 23 02:17	28° ₩ 08'58	0.63852 AU
morning max el	4097 May 03 21:23	17° Υ 30'14	27°51'50	morning rise	4098 Mar 26 14:50	24°) (43'48	0.03032 AC
morning max cr	4097 May 14 07:02	0°8	27 31 30	direct	4098 Apr 02 11:27	21°) 58'13	
	4097 Jun 01 12:30	0°II		desc. node	4098 Apr 08 14:47	23°) (48'42	
morning set	4097 Jun 06 06:53	9° ∏ 24'40		morning max el	4098 Apr 16 05:44	29°) 55'53	27°37'11
asc. node	4097 Jun 11 17:45	20° I I53'31		morning max er	4098 Apr 16 07:23	0°Υ	27 37 11
max. Earth dist.	4097 Jun 11 17:43 4097 Jun 12 00:39	20 H 3331 21° H 30'51	1.32326 AU		4098 May 08 06:31	0°8	
max. Earth dist.	409/Juli 12 00.39	21 113031	1.32320 AU	morning set	4098 May 21 02:32	23° 8 21'11	
superior conj	4097 Jun 13 17:30	25° Ⅱ 12'52	0°20'45	morning set	4098 May 24 09:25	0° I I	
minimum elong	4097 Jun 13 16:33	25° I 12'32	0°20'31	max. Earth dist.	4098 May 26 03:06	3° П 36'41	1.33064 AU
minimum ciong	4097 Jun 15 10:33 4097 Jun 15 22:00	0°9	0 2031	max. Earth dist.	4098 Way 20 03.00	3 113041	1.33004 AO
evening rise	4097 Jun 13 22:00 4097 Jun 20 14:37	10°9510'24		superior conj	4098 May 29 00:01	9° ∏ 42'01	0°06'26
evening rise	4097 Jun 30 18:10	0°Ω		minimum elong	4098 May 29 00:20	9° ∏ 43'44	
evening max el	4097 Jul 15 20:01	20° Ω 34'02	24°28'12	behind sun begin	4098 May 28 19:23	9° Ⅱ 17'15	0 0023
desc. node	4097 Jul 18 17:01	$23^{\circ}\Omega 05'05$	24 20 12	behind sun end	4098 May 29 05:17	10° Ⅱ 17'15	
retrograde	4097 Jul 29 17:01	27° Ω 34'21		asc. node	4098 May 29 14:45	11° I I01'03	
evening set	4097 Aug 03 16:06	26° Ω 39'13		evening rise	4098 Jun 05 02:16	24° I 55'56	
min. Earth dist.	4097 Aug 09 07:02	$23^{\circ}\Omega47'00$	0.56751 AU	evening rise	4098 Jun 07 12:35	0° 9	
inferior conj	4097 Aug 11 23:50	22°Ω03'53			4098 Jun 26 10:06	0°N	
minimum elong	4097 Aug 11 23:50 4097 Aug 11 21:50		5°08'57	evening max el	4098 Jun 27 09:21		22°51'24
morning rise	4097 Aug 11 21:30 4097 Aug 20 06:09	18° Ω 00′51	3 0037	desc. node	4098 Jul 05 14:02	6° Ω 36'18	22 3124
direct	4097 Aug 22 21:55	17° Ω 41'42		retrograde	4098 Jul 10 16:43	7° Ω 36'02	
morning max el	4097 Aug 22 21:33 4097 Sep 01 09:52	22°Ω07'44	19°31'11	evening set	4098 Jul 14 03:13	7° Ω 10'10	
asc. node	4097 Sep 07 05:58	29° Ω 50′24	17 31 11	min. Earth dist.	4098 Jul 21 17:54	3°Ω47'39	0.55380 AU
asc. node	4097 Sep 07 10:38 4097 Sep 07 19:31	0° m)		inferior conj	4098 Jul 23 05:20	2° Ω 56'41	
morning set	4097 Sep 18 19:08	עוי ס 19° m 57'17		minimum elong	4098 Jul 22 21:48	3°Ω07'32	4°27'47
morning set	4097 Sep 23 18:50	0° ت		minimum clong	4098 Jul 28 22:23	30°R95	7 2/7/
	4077 Sep 23 16.30	o —		morning rise	4098 Jul 31 18:37	29° © 05'26	
superior conj	4097 Sep 26 18:56	5° Ω 58'13	1°40'44	direct	4098 Aug 03 17:49	28° © 44'50	
minimum elong	4097 Sep 26 20:31	6° £ 05'59	1°40'39	direct	4098 Aug 09 05:22	0°Ω	
max. Earth dist.	4097 Oct 02 23:28	17° Ω 46'59	1.37767 AU	morning max el	4098 Aug 14 19:42	3° £ 53'48	20°47'14
evening rise	4097 Oct 02 23:28 4097 Oct 06 17:36	24° £ 34'37	1.57707 AC	asc. node	4098 Aug 25 13:59	18° Ω 18'37	20 4/ 14
evening rise	4097 Oct 09 20:24	0°M		asc. node	4098 Aug 31 19:27	0° m)	
desc. node	4097 Oct 14 16:18	8°M01'54		morning set	4098 Sep 03 02:08	الاتا 0 4° ™ 38'09	
dese. node	4097 Oct 29 10:30	0°×7		morning set	4070 Sep 03 02.00	לים פכללוו די	
evening max el	4097 Nov 11 10:13		25°12'35	superior conj	4098 Sep 10 13:24	20° mp 07'13	1°44'15
retrograde	4097 Nov 23 09:10	22° × ⁷ 25'12	23 12 33	minimum elong	4098 Sep 10 13:24 4098 Sep 10 13:23	20° m 07'13	1°44'15
evening set	4097 Nov 29 03:54	20°×200'31		minimum crong	4098 Sep 15 11:44	ე∘ Ω	1 1113
min. Earth dist.	4097 Dec 03 15:11	15° ₹ '01'42	0.67346 AU	max. Earth dist.	4098 Sep 15 07:27		1.35863 AU
inferior conj	4097 Dec 04 17:28	13° ∡ 36'07	0°01'05	evening rise	4098 Sep 19 08:39	7° £ 23'23	1.55005 110
minimum elong	4097 Dec 04 17:26	13° ∡ 36'13	0°01'05	desc. node	4098 Oct 01 13:20	28° £ 24'06	
transit middle	4097 Dec 04 17:26	13° х 36′13	0°01'05	dese. node	4098 Oct 02 13:39	0°M	
transit begin	4097 Dec 04 14:39	13° × ⁷ 45'16	0 01 05	evening max el	4098 Oct 24 22:46	29°M12'35	26°17'58
transit end	4097 Dec 04 14:35 4097 Dec 04 20:12	13° х 43 10		evening max er	4098 Oct 25 18:47	0° √	20 17 30
asc. node	4097 Dec 04 26:12	13°×740'14		retrograde	4098 Nov 06 16:32	6° х 23′25	
morning rise	4097 Dec 10 07:12	7° ∡ °38'37		evening set	4098 Nov 13 00:43	3° х 47′36	
direct	4097 Dec 13 18:39	6° ∡ 28'53		c.c.ing set	4098 Nov 16 17:02	30°RM	
morning max el	4097 Dec 13 18:39 4097 Dec 21 00:21	10° ₹ 32'54	19°31'20	min. Earth dist.	4098 Nov 17 05:00	29°M24'09	0.66487 AU
greatest brilliancy	4097 Dec 21 00:21 4098 Jan 03 04:02	28° ₹ 00'43	-0.7m	inferior conj	4098 Nov 18 18:30	27°M29'20	
Siculosi offinancy	4098 Jan 04 11:52	28 x 00 43	V./III	minimum elong	4098 Nov 18 20:02	27°M24'36	0°56'21
desc. node	4098 Jan 10 15:34	0 3 9° る 22'02		asc. node	4098 Nov 21 13:12	24°M16'00	0 3021
morning set	4098 Jan 10 15:34 4098 Jan 14 18:23	9° 8 22'02		morning rise	4098 Nov 24 15:54	24°11616'00 21°11641'27	
morning set	4098 Jan 23 22:40	15° ⊙ 42′41 0° ≈		direct	4098 Nov 24 15:54 4098 Nov 27 17:04	21°11641'27 20°11648'40	
max. Earth dist.	4098 Jan 23 22:40 4098 Jan 27 10:12	0°≈ 5°≈29'08	1.44552 AU		4098 Nov 27 17:04 4098 Dec 04 10:16	24°M30'08	18°41'19
max. Earm aist.	+070 Jan 2/ 10:12	J ≈ 29'08	1. 44 334 AU	morning max el	4098 Dec 04 10:16 4098 Dec 09 00:58	24°11⊾30′08 0° √ 7	10 41 19
					7070 DCC 07 00.38	· ,	

morning set	4098 Dec 25 10:46	25° ∡ '01'58		desc. node	4099 Dec 15 09:37	20° ∡ ³33'34	
desc. node	4098 Dec 28 12:36	29° ₹ 53′26					
	4098 Dec 28 14:16	5°0		superior conj	4099 Dec 20 21:23	29° х 19′04	-0°37'04
max. Earth dist.	4099 Jan 10 03:50	19° る 44'42	1.45217 AU	minimum elong	4099 Dec 20 16:44	29° ∡ ′00′38	0°36'26
					4099 Dec 21 07:44	ರ°ರ	
superior conj	4099 Jan 10 16:33	20° පි 34'36 -	1°22'24	max. Earth dist.	4099 Dec 23 23:32	4° ප 11'36	1.45137 AU
minimum elong	4099 Jan 10 07:27	19° る 58'53	1°21'25	evening rise	4100 Jan 06 05:19	24° る 50'27	
	4099 Jan 16 16:18	0° ≈			4100 Jan 09 13:15	0° ≈	
evening rise	4099 Jan 26 06:40	15° ≈ 15'35		greatest brilliancy	4100 Jan 19 01:08	14° ≈ 32′28	-0.7m
greatest brilliancy	4099 Feb 02 23:44	27° ≈ 36'36	-0.9m		4100 Jan 30 11:29	0° ∀	
	4099 Feb 04 11:55	0° ∀		evening max el	4100 Jan 31 01:06	0°) 35′48	19°37'04
evening max el	4099 Feb 16 18:06	17° ∺ 04'39	18°49'57	asc. node	4100 Feb 04 09:33	4°) €02'18	
asc. node	4099 Feb 17 12:31	17°) 49′37		retrograde	4100 Feb 07 08:47	4°) 49′26	
retrograde	4099 Feb 23 11:35	20°) 50′24		evening set	4100 Feb 10 22:32	3°) 34′40	
evening set	4099 Feb 26 17:54	19° ∺ 49'16			4100 Feb 14 13:14	30°R ≈	
inferior conj	4099 Mar 04 09:23		3°31'21	inferior conj	4100 Feb 16 09:31	27° ≈ 37'53	3°13'15
minimum elong	4099 Mar 04 08:12		3°31'14	minimum elong	4100 Feb 16 07:26	27° ≈ 44'47	3°12'51
min. Earth dist.	4099 Mar 06 03:27		0.65498 AU	min. Earth dist.	4100 Feb 17 12:42	26° ≈ 08′20	0.66729 AU
morning rise	4099 Mar 09 22:05	7° ¥ 55'19		morning rise	4100 Feb 21 16:07	21° ≈ 24′00	
direct	4099 Mar 16 12:12	5° ₩ 04'35		direct	4100 Feb 27 18:50	18° ≈ 40′36	
desc. node	4099 Mar 26 11:49	9° ¥ 52'27		morning max el	4100 Mar 12 00:56	25° ≈ 58'44	25°39'14
morning max el	4099 Mar 29 15:34	,	26°50'15	desc. node	4100 Mar 13 08:51	27° ≈ 21'42	
	4099 Apr 12 11:13	0° Ƴ			4100 Mar 15 17:45	0° ∀	
	4099 Apr 30 21:29	0° 8			4100 Apr 06 00:35	0° Υ	
morning set	4099 May 04 11:46	6° 8 43'13		morning set	4100 Apr 17 06:19	19° Y 18′18	
max. Earth dist.	4099 May 08 19:33	15° 8 11'24	1.34270 AU	max. Earth dist.	4100 Apr 21 00:45	26° Y 19'42	1.35931 AU
					4100 Apr 22 22:38	0°B	
superior conj	4099 May 13 00:55	23° 8 49'54 -					
minimum elong	4099 May 13 02:47	23° 8 59'36	0°34'53	superior conj	4100 Apr 26 17:33	7° 8 28'32	
	4099 May 15 23:31	0°II		minimum elong	4100 Apr 26 21:00	7° 8 45'51	1°03'47
asc. node	4099 May 16 11:48	1° Ⅱ 04'48		asc. node	4100 May 03 08:50	21° 8 00'07	
evening rise	4099 May 20 12:10	9° Ⅱ 31'38		evening rise	4100 May 04 18:14	23° 8 50'41	
. ,	4099 May 31 08:04	0°95	21010102		4100 May 07 19:49	0°Ⅱ 220Ⅲ4447	20001120
evening max el	4099 Jun 09 05:10	11°934'14	21°19'02	evening max el	4100 May 22 12:28 4100 Jun 01 21:06	22° Ⅱ 44'47 27° Ⅱ 47'52	20°01′38
retrograde	4099 Jun 21 06:20 4099 Jun 22 11:02	17°529'41		retrograde	4100 Jun 01 21:06 4100 Jun 03 19:56	27° П 47'52 27° П 37'53	
desc. node	4099 Jun 23 14:20	17° © 26'21 17° © 17'09		evening set desc. node	4100 Jun 09 08:03	27 П 3733 25° П 38'00	
evening set inferior conj	4099 Jul 02 23:23	17 5 17 09 13°5 18'15 -:	2000'02	inferior conj	4100 Jun 12 19:57	23° I I37'59	1902/16
minimum elong	4099 Jul 02 23:23 4099 Jul 02 15:32	13°9529'14		minimum elong	4100 Jun 12 17:03		1°01'11
min. Earth dist.	4099 Jul 03 04:46		0.54831 AU	min. Earth dist.	4100 Jun 14 17:13		0.55239 AU
morning rise	4099 Jul 11 17:19	9°\$22'06	0.54651 AU	morning rise	4100 Jun 21 12:27	19° Ⅱ 17'10	0.33239 AU
direct	4099 Jul 15 03:38	8°956'39		direct	4100 Jun 25 16:03	18° Ⅱ 39'37	
morning max el	4099 Jul 27 18:09	14°955'00	22°21'21	morning max el	4100 Jul 09 09:25	25° ∏ 24'46	24°04'42
morning max or	4099 Aug 08 07:31	0°Ω	22 21 21	morning max or	4100 Jul 13 16:38	0°95	21 01 12
asc. node	4099 Aug 12 11:02	7° Ω 21'12		asc. node	4100 Jul 30 08:06	26°5549'07	
morning set	4099 Aug 18 12:23	19° Ω 28'18			4100 Jul 31 21:46	$0^{\circ}\Omega$	
	4099 Aug 23 11:17	0° mp		morning set	4100 Aug 03 00:05	4° Ω 22'19	
superior conj	4099 Aug 25 15:51	4° m 39'32	1°40'41	superior conj	4100 Aug 09 23:34	19° Ω 26'39	1°31'12
minimum elong	4099 Aug 25 14:35	4° m/32'50	1°40'37	minimum elong	4100 Aug 09 21:31	19° Ω 15'34	1°31'00
max. Earth dist.	4099 Aug 28 23:43	11° m) 36'55	1.34292 AU	max. Earth dist.	4100 Aug 12 00:47	23° Ω 51'55	1.33118 AU
evening rise	4099 Sep 02 15:09	20° m 55'49			4100 Aug 14 22:26	0° m/y	
	4099 Sep 07 10:37	0∘ ⊽		evening rise	4100 Aug 17 09:04	5° m 00'48	
desc. node	4099 Sep 18 10:20	18° ≙ 26'54			4100 Aug 31 02:24	0∘ ⊽	
	4099 Sep 26 11:07	0° M		desc. node	4100 Sep 05 07:21	8° ჲ 02'04	
evening max el	4099 Oct 07 11:27	12°M46'38	27°04'46	evening max el	4100 Sep 19 22:50	26° ≏ 00'59	27°26'05
retrograde	4099 Oct 20 18:08	20°M03'40			4100 Sep 24 18:23	0° M	
evening set	4099 Oct 27 14:03	17° M L22'30		retrograde	4100 Oct 03 13:42	3°ML18'07	
min. Earth dist.	4099 Oct 31 11:52	13°M34'49	0.65280 AU	evening set	4100 Oct 10 17:10	0° ™ 40′26	
inferior conj	4099 Nov 02 13:17	11°M15'20 -			4100 Oct 11 14:07	30° ₽ Ω	
minimum elong	4099 Nov 02 16:36	11° M 05'56	1°56'41	min. Earth dist.	4100 Oct 14 09:37	27° ≏ 26'17	0.63728 AU
asc. node	4099 Nov 08 10:15	5°M52'53		inferior conj	4100 Oct 16 23:20	24° ≏ 48'51	-2°59'29
morning rise	4099 Nov 08 20:05	5°M40'12		minimum elong	4100 Oct 17 04:20	24° ≏ 36′02	2°57'44
direct	4099 Nov 11 13:12	5° ™ 00'34		morning rise	4100 Oct 23 16:52	19° ≏ 29'52	
morning max el	4099 Nov 18 00:58		18°07'51	direct	4100 Oct 26 04:22	18° ≏ 59'45	
	4099 Dec 02 19:30	0° ⊼ ¹		asc. node	4100 Oct 26 07:19	18° ≙ 59'49	
morning set	4099 Dec 06 08:31	5° ∡ ¹49'46		morning max el	4100 Nov 01 17:41	22° ≏ 24'48	17°51'38

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	4100 Nov 07 15:18	0° M .		asc. node	4101 Oct 13 04:23	3° ≏ 39'44	
morning set	4100 Nov 18 09:02	17°ML55'31		morning max el	4101 Oct 16 09:14	6° Ω 07'56	17°53'32
morning sec	4100 Nov 25 10:35	0° ∡ 7			4101 Oct 31 16:50	0°M	1, 0002
		•		morning set	4101 Nov 01 05:51	0°M58'59	
superior conj	4100 Nov 30 21:03	9° × 102'02	0°09'43				
minimum elong	4100 Nov 30 22:07	9° ∡ 106′21	0°09'34	superior conj	4101 Nov 11 23:18	20°M02'55	0°48'57
behind sun begin	4100 Nov 30 14:10	8° ∡ ³33'48		minimum elong	4101 Nov 12 03:10	20° ™ 19'35	
behind sun end	4100 Dec 01 06:03	9° ∡ 38'52			4101 Nov 17 20:55	0° ∡ ¹	
desc. node	4100 Dec 02 06:38	11° √ 19'10		desc. node	4101 Nov 19 03:40	2° ∡ ¹06'28	
max. Earth dist.	4100 Dec 06 17:48	18° ≯ ³30'38	1.44333 AU	max. Earth dist.	4101 Nov 19 07:46	2° ∡ ¹23'14	1.42908 AU
	4100 Dec 14 01:15	0°రె		evening rise	4101 Nov 26 05:17	13° ∡ ¹25'40	
evening rise	4100 Dec 16 15:39	4° る 00'59			4101 Dec 07 02:27	0°ප	
	4101 Jan 03 01:11	0° ≈		evening max el	4101 Dec 27 23:07	27° る 41'36	21°51'22
evening max el	4101 Jan 14 02:52	14°≈08'11	20°38'39	-	4101 Dec 30 10:24	0° ≈	
retrograde	4101 Jan 22 07:02	18° ≈ 57'29		retrograde	4102 Jan 06 04:15	3° ≈ 10'30	
asc. node	4101 Jan 22 06:36	18° ≈ 57'29		asc. node	4102 Jan 09 03:39	2° ≈ 22'52	
evening set	4101 Jan 26 05:38	17° ≈ 28'12		evening set	4102 Jan 10 13:24	1° ≈ 25'46	
inferior conj	4101 Jan 31 14:21	11° ≈ 18'51	2°44'41		4102 Jan 12 01:54	30°Ŗる	
minimum elong	4101 Jan 31 11:53	11° ≈ 27'17	2°44'02				
min. Earth dist.	4101 Feb 01 04:11	10° ≈ 31'30	0.67538 AU				
morning rise	4101 Feb 05 17:58	5° ≈ 05'15					
direct	4101 Feb 11 06:43	2° ≈ 38'04					
morning max el	4101 Feb 22 09:37	9° ≈ 16′25	24°14'06				
desc. node	4101 Feb 28 05:54	15° ≈ 52'11					
	4101 Mar 10 17:54	0° ∀					
	4101 Mar 29 16:42	0 ° Υ					
morning set	4101 Mar 30 04:42	0° Ƴ 51'56					
max. Earth dist.	4101 Apr 02 21:37	7° Ƴ 24'42	1.37952 AU				
superior conj	4101 Apr 09 22:34	20° Ƴ 29'36	-1°31'36				
minimum elong	4101 Apr 10 03:11	20° Y 51'42	1°31'00				
	4101 Apr 14 19:42	0°8					
evening rise	4101 Apr 18 17:59	7° 8 46'19					
asc. node	4101 Apr 20 05:54	10° 8 42'49					
	4101 May 01 09:14	$\Pi^{\circ}0$					
evening max el	4101 May 05 07:43	4° Ⅱ 37'18	19°03'43				
retrograde	4101 May 14 01:05	8° Ⅱ 52'39					
evening set	4101 May 16 02:33	8° ∏ 39'22					
inferior conj	4101 May 24 08:14	4° Ⅱ 25'58					
minimum elong	4101 May 24 10:10	4° Ⅱ 22'36	0°48'59				
desc. node	4101 May 27 05:06	2° I I27'25	0.56524.433				
min. Earth dist.	4101 May 27 08:37		0.56534 AU				
	4101 May 31 10:17	30°R8					
morning rise	4101 Jun 01 14:34	29° 8 29'24					
direct	4101 Jun 06 17:10	28° 8 28'01					
	4101 Jun 13 00:23	0°Ⅱ 5°Ⅱ40'02	25942127				
morning max el	4101 Jun 20 23:48 4101 Jul 08 14:25	5° Ⅱ 49'02 0° ©	4231				
asc. node	4101 Jul 17 05:09	0 න 16° න 35'04					
	4101 Jul 17 03:09 4101 Jul 18 11:32	10 \$33 04 19° \$314'30					
morning set	4101 Jul 18 11:32 4101 Jul 23 10:47	19° Ω 1430					
	7101 Jul 23 10.4/	0 06					
superior conj	4101 Jul 25 10:16	4° Ω 20'58	1°16'41				
minimum elong	4101 Jul 25 07:56	4° Ω 08'08	1°16'20				
max. Earth dist.	4101 Jul 26 08:33	6° Ω 23'15	1.32365 AU				
evening rise	4101 Aug 01 11:03	19° Ω 28'18	1.52505 710				
2. J	4101 Aug 06 17:35	0° m					
desc. node	4101 Aug 23 04:23	26° Mp 57'34					
2000. 11000	4101 Aug 25 11:48	20 ಗ್ರು37 34 0° ೧					
evening max el	4101 Sep 02 06:37	ა _ 8° ჲ 41'55	27°16'26				
retrograde	4101 Sep 16 02:37	15° £ 56'13	2, 1020				
evening set	4101 Sep 23 06:20	13° ⊆ 33'58					
min. Earth dist.	4101 Sep 26 21:01		0.61869 AU				
inferior conj	4101 Sep 29 21:32	8° ≏ 01'37					
minimum elong	4101 Sep 30 03:30	7° ≏ 48'03					
morning rise	4101 Oct 07 02:27	3° ഫ 01'59					
direct	4101 Oct 09 11:02	2° Q 38'08					

direct

4101 Oct 09 11:02

2°**₽**38'08