direct	7100 Feb 05 05:43	14° ∏ 19'41		direct	7105 Jul 29 18:19	5° ҂ 17′02	
	7100 May 24 11:54	0 \circ \odot		evening set	7105 Dec 02 14:29	22° ∡ ³36′08	
evening set	7100 Jun 11 15:45	4°\$20'22					
•				conjunction	7105 Dec 15 16:50	25° ∡ ¹24'14	0°48'39
conjunction	7100 Jun 24 23:54	7° © 35'18	-0°42'37	minimum elong	7105 Dec 15 16:50	25° ∡ ¹24'15	0°48'43
minimum elong	7100 Jun 24 23:56	7° 9 35'19	0°42'42	max. Earth dist.	7105 Dec 15 02:14	25° × 24 15	6.48630 AU
=							0.46030 AU
max. Earth dist.	7100 Jun 26 04:16	7° © 52'37	5.91608 AU	morning rise	7105 Dec 28 16:39	28° ∡ 11'09	
morning rise	7100 Jul 08 10:45	10°©51'43			7106 Jan 06 06:26	0°ಕ	
	7100 Oct 16 09:05	$0 {\circ} \Omega$		retrograde	7106 Apr 27 21:35	14° る 47'31	
retrograde	7100 Nov 17 17:03	1° Ω 40'53		opposition	7106 Jun 27 18:24	9° る 53'27	1°01'04
	7100 Dec 19 21:36	30°Rூ		min. Earth dist.	7106 Jun 28 13:09	9° ප 47'26	4.49247 AU
min. Earth dist.	7101 Jan 15 00:04		3.93371 AU	direct	7106 Aug 29 09:30	4° る 51'42	
opposition	7101 Jan 16 04:26	26°537'55		evening set	7107 Jan 01 23:20	22° る 06'37	
• •			-0 -0 32	•		24°る32'02	C 47CCO ATT
direct	7101 Mar 15 02:03	21° © 42'47		max. Earth dist.	7107 Jan 13 05:36	24 032 02	6.47660 AU
	7101 May 28 14:57	0 $^{\circ}\Omega$				_	
evening set	7101 Jul 19 15:14	11° Ω 33'03		conjunction	7107 Jan 14 20:54	24° ප් 53'15	0°32'46
				minimum elong	7107 Jan 14 20:55	24° る 53'15	0°32'51
conjunction	7101 Aug 02 05:53	14° Ω 48'14	-0°16'27	morning rise	7107 Jan 27 16:17	27° る 38'55	
minimum elong	7101 Aug 02 05:54	14° Ω 48'14	0°16'29		7107 Feb 07 17:33	0° ≈	
	7101 Aug 03 01:34	15° Ω		retrograde	7107 May 28 07:07	14° ≈ 23'41	
max. Earth dist.	7101 Aug 04 13:04		5.97553 AU	opposition	7107 Jul 28 06:01	9° ≈ 31'05	0°30'59
	•		3.91333 AU				
morning rise	7101 Aug 15 22:38	18° Ω 04'18		min. Earth dist.	7107 Jul 29 16:08	9° ≈ 20'12	4.44127 AU
	7101 Oct 09 09:30	0° m p		direct	7107 Sep 28 23:03	4° ≈ 30'03	
retrograde	7101 Dec 24 09:26	8° Mp 13'11			7107 Dec 29 18:13	15° ≈	
min. Earth dist.	7102 Feb 20 07:43	3° m 21'35	4.03820 AU	evening set	7108 Feb 01 07:39	22° ≈ 02'00	
opposition	7102 Feb 21 21:40	3° Mp 08'40	-0°00'21	max. Earth dist.	7108 Feb 11 20:41	24° ≈ 21'13	6.38691 AU
asc. node	7102 Feb 24 19:05	2° m/45'05					
use. Hour	7102 Mar 19 01:35	30°R Ω		conjunction	7108 Feb 14 02:19	24° ≈ 50'51	0°07'58
direct	7102 Apr 21 06:11	28° Ω 11'08		minimum elong	7108 Feb 14 02:19	24°≈50'51	0°08'00
unect	*			_			0 08 00
	7102 May 24 14:55	0° m)		behind sun begin	7108 Feb 13 19:12	24° ≈ 46'56	
evening set	7102 Aug 25 20:28	17° m 23'04		behind sun end	7108 Feb 14 09:27	24° ≈ 54'46	
				morning rise	7108 Feb 26 19:24	27° ≈ 39'08	
conjunction	7102 Sep 08 12:48	20° m/32'32	0°15'17		7108 Mar 08 13:56	0° ∀	
minimum elong	7102 Sep 08 12:47	20° m 32'31	0°15'16	desc. node	7108 Jun 05 06:53	14° ₩ 13'44	
behind sun begin	7102 Sep 08 10:34	20°m/31'14		retrograde	7108 Jun 28 06:35	15° ¥ 02'34	
behind sun end	7102 Sep 08 15:00	20° m 33'48		opposition	7108 Aug 28 04:16	10°) €09'53	-0°08'48
max. Earth dist.	7102 Sep 10 22:03	21° mp 05'36	6.11439 AU	min. Earth dist.	7108 Aug 29 19:16	9° ¥ 57'24	4.31787 AU
	•	-	0.11439 AU		•		4.51767 AU
morning rise	7102 Sep 22 06:07	23° m/42'05		direct	7108 Oct 29 04:55	5° ₩ 10'17	
	7102 Oct 20 14:54	0∘ ⊽		evening set	7109 Mar 03 15:50	23° ¥ 18'43	
retrograde	7103 Jan 27 09:09	12° ≏ 40'05		max. Earth dist.	7109 Mar 14 05:21	25°) 43′03	6.23872 AU
min. Earth dist.	7103 Mar 26 19:49	7° ≏ 47'48	4.19628 AU				
opposition	7103 Mar 28 04:51	7° ≏ 36'39	0°43'03	conjunction	7109 Mar 16 09:47	26° ¥ 13′01	-0°20'08
direct	7103 May 26 16:36	2° ≏ 36'43		minimum elong	7109 Mar 16 09:46	26° ₩ 13'01	0°20'08
evening set	7103 Sep 30 03:48	21° ≏ 01'03		morning rise	7109 Mar 29 03:04	29° 米 07′21	
evening set	7103 БСР 30 03.40	21 =0103		morning rise	7109 Apr 01 23:56	0°Υ	
	7102 0 . 12 17 20	240 0 02102	0040112			17° Y 35'09	
conjunction	7103 Oct 13 17:20	24° Ω 02'02	0°40'13	retrograde	7109 Aug 01 17:50		
minimum elong	7103 Oct 13 17:18	24° ≏ 02'01	0°40'14	opposition	7109 Oct 01 07:29	12° Y 41′10	
max. Earth dist.	7103 Oct 15 10:53	24° ≏ 25′10	6.27832 AU	min. Earth dist.	7109 Oct 02 17:21	12° Ƴ 30'13	4.15427 AU
morning rise	7103 Oct 27 05:54	27° ≏ 02'16		direct	7109 Dec 01 03:41	7° Ƴ 43'46	
	7103 Nov 09 19:43	0°M₊		evening set	7110 Apr 05 20:35	26° Ƴ 40'49	
retrograde	7104 Feb 28 01:21	14° M 50'19		max. Earth dist.	7110 Apr 17 03:27	29° Y 20'55	6.07329 AU
min. Earth dist.	7104 Apr 27 11:12	9°M56'12	4.35214 AU		,	_,,,	
opposition	7104 Apr 28 05:54	9°M50'01	1°09'45	conjunction	7110 Apr 18 16:32	29° Ƴ 42'54	0042100
	*		1 0943	•	•		
direct	7104 Jun 28 01:37	4°M48'43		minimum elong	7110 Apr 18 16:31	29° Y ′42'53	0°43'10
	7104 Sep 25 17:21	15° ™			7110 Apr 19 21:22	$0^{\circ}S$	
evening set	7104 Nov 01 06:27	22°M32'18		morning rise	7110 May 01 13:30	2° 8 45'48	
					7110 Jun 27 02:08	15° 8	
conjunction	7104 Nov 14 14:18	25°M25'23	0°51'45	retrograde	7110 Sep 07 18:05	22° 8 29'27	
minimum elong	7104 Nov 14 14:18	25°M25'23	0°51'49	opposition	7110 Nov 06 20:58	17° 8 32'53	-1°14'40
max. Earth dist.	7104 Nov 15 03:15	25°M32'24	6.41438 AU	min. Earth dist.	7110 Nov 07 11:19		4.00131 AU
			J.71730 AU	mm. Darm uist.		17 028 10 15°R 8	1.00131 AU
morning rise	7104 Nov 27 20:29	28°M17'26		ľ	7110 Nov 27 06:20		
_	7104 Dec 05 20:18	0° ∡ 7		direct	7111 Jan 05 05:01	12° 8 37'44	
retrograde	7105 Mar 29 05:32	15° ∡ 15'47			7111 Feb 12 14:13	15° 8	
opposition	7105 May 28 18:44	10° ∡ 18'56	1°15'19		7111 May 01 14:46	$\Pi^{\circ}0$	
	•						
min. Earth dist.	7105 May 28 19:25	10° ∡ 18'43	4.45997 AU	evening set	7111 May 11 08:25	2° Ⅱ 20′02	

conjunction minimum elong	7111 May 24 10:03 7111 May 24 10:03	5° Ⅱ 30′23 5° Ⅱ 30′23	-0°51'38 0°51'42	max. Earth dist. morning rise	7116 Nov 19 13:31 7116 Dec 02 07:57	29°M59'22 2° × ⁷ 44'39	6.42961 AU
max. Earth dist.	7111 May 24 06:00	5° Ⅱ 27'55	5.94729 AU	retrograde	7117 Apr 02 09:50	19° ∡ ³37'34	
morning rise	7111 Jun 06 13:47	8° ∏ 42'04		opposition	7117 Jun 02 01:08	14° ∡ °41′06	1°14'22
retrograde	7111 Oct 16 11:30	29° Ⅱ 23'38		min. Earth dist.	7117 Jun 02 03:54	14° ∡ ′40′12	4.47087 AU
opposition	7111 Dec 15 02:42	24° Ⅲ 23'34	-1°12'50	direct	7117 Aug 03 04:05	9° ₹ ³39'08	
min. Earth dist.	7111 Dec 14 16:59	24° Ⅱ 26′50	3.91652 AU	evening set	7117 Dec 06 22:45	26° ₹ 55'41	
direct	7112 Feb 11 07:36	19° Ⅱ 29'22		max. Earth dist.	7117 Dec 19 04:29	29° ₰ ³32'41	6.49171 AU
	7112 May 06 10:22	0					
evening set	7112 Jun 16 18:53	9° © 32'54		conjunction	7117 Dec 20 00:10	29° х 43′14	0°47'03
				minimum elong	7117 Dec 20 00:11	29° ∡ '43'15	0°47'09
conjunction	7112 Jun 30 04:15	12°548'37			7117 Dec 21 07:26	0°る	
minimum elong	7112 Jun 30 04:17	12°5048'37	0°39'59	morning rise	7118 Jan 01 23:23	2°る29'41	
max. Earth dist.	7112 Jul 01 13:09	13°508'40	5.91222 AU	retrograde	7118 May 02 03:34	19° る 04'43	0057127
morning rise	7112 Jul 13 16:16	16° © 05'44 0° Ω		opposition min. Earth dist.	7118 Jul 02 00:36 7118 Jul 02 22:36	14°る10'53 14°る03'50	0°57'36 4.49198 AU
retrograde	7112 Sep 15 05:06 7112 Nov 22 22:28	6° Ω 55'04		direct	7118 Sup 02 22.36 7118 Sep 02 18:08	9° そ 09'05	4.49198 AU
min. Earth dist.	7112 Nov 22 22:28 7113 Jan 20 01:17		3.93642 AU	evening set	7119 Jan 06 05:20	9 00903 26°る24'29	
opposition	7113 Jan 21 08:02	1°Ω51'48		max. Earth dist.	7119 Jan 17 08:48	28° ප් 48'37	6.47004 AU
оррозиюн	7113 Feb 04 10:11	30°Rூ	0 40 32	max. Lartii dist.	7117 3411 17 00.40	20 04037	0.47004710
direct	7113 Mar 20 04:29	26° © 56'25		conjunction	7119 Jan 19 02:29	29° る 11'09	0°29'40
411001	7113 May 02 11:52	0°Ω		minimum elong	7119 Jan 19 02:30	29° る 11'10	
	7113 Jul 17 10:13	15° Ω			7119 Jan 22 20:46	0° ≈	
evening set	7113 Jul 24 20:47	16° Ω 45'30		morning rise	7119 Jan 31 21:18	1°≈56'53	
C				C	7119 Apr 11 17:35	15° ≈	
conjunction	7113 Aug 07 11:59	20° Ω 00'32	-0°12'08	retrograde	7119 Jun 01 14:42	18° ≈ 44'47	
minimum elong	7113 Aug 07 12:00	20° Ω 00'32	0°12'10	-	7119 Jul 23 16:23	15°R ≈	
behind sun begin	7113 Aug 07 06:26	19° Ω 57'14		opposition	7119 Aug 01 15:00	13° ≈ 52′12	0°25'45
behind sun end	7113 Aug 07 17:34	20° Ω 03′51		min. Earth dist.	7119 Aug 03 01:42	13° ≈ 41′07	4.42899 AU
max. Earth dist.	7113 Aug 09 19:50	20° Ω 33'51	5.98442 AU	direct	7119 Oct 03 06:06	8° ≈ 51'17	
morning rise	7113 Aug 21 05:27	23° Ω 16′26			7119 Dec 09 23:19	15° ≈	
	7113 Sep 19 13:39	0° m		evening set	7120 Feb 05 15:24	26° ≈ 26'56	
retrograde	7113 Dec 29 07:10	13° m 19'09		max. Earth dist.	7120 Feb 16 03:43	28° ≈ 46′19	6.36969 AU
asc. node	7114 Jan 05 17:02	13° m 13'36					
min. Earth dist.	7114 Feb 25 05:52	8° m 27'39	4.05214 AU	conjunction	7120 Feb 18 09:46	29° ≈ 16'19	0°04'02
opposition							
	7114 Feb 26 20:21	8° Mp 14'33	0°06'14	minimum elong	7120 Feb 18 09:46	29°≈16'19	0°04'06
direct	7114 Apr 26 07:03	3° Mp 16'36	0°06'14	behind sun begin	7120 Feb 18 01:55	29° ≈ 11'59	0°04'06
		-	0°06'14	•	7120 Feb 18 01:55 7120 Feb 18 17:37	29°≈11'59 29°≈20'39	0°04'06
direct evening set	7114 Apr 26 07:03 7114 Aug 30 22:53	3° Mp 16'36 22° Mp 24'07		behind sun begin behind sun end	7120 Feb 18 01:55 7120 Feb 18 17:37 7120 Feb 21 16:30	29°≈11'59 29°≈20'39 0°¥	0°04'06
direct evening set conjunction	7114 Apr 26 07:03 7114 Aug 30 22:53 7114 Sep 13 15:20	3° m 16'36 22° m 24'07 25° m 32'46	0°19'22	behind sun begin behind sun end morning rise	7120 Feb 18 01:55 7120 Feb 18 17:37 7120 Feb 21 16:30 7120 Mar 02 02:40	29°≈11'59 29°≈20'39 0°¥ 2°¥05'12	0°04'06
direct evening set conjunction minimum elong	7114 Apr 26 07:03 7114 Aug 30 22:53 7114 Sep 13 15:20 7114 Sep 13 15:18	3° m 16'36 22° m 24'07 25° m 32'46 25° m 32'46	0°19'22 0°19'22	behind sun begin behind sun end morning rise desc. node	7120 Feb 18 01:55 7120 Feb 18 17:37 7120 Feb 21 16:30 7120 Mar 02 02:40 7120 Apr 14 12:49	29°≈11'59 29°≈20'39 0°¥ 2°¥05'12 11°¥06'53	0°04'06
direct evening set conjunction minimum elong max. Earth dist.	7114 Apr 26 07:03 7114 Aug 30 22:53 7114 Sep 13 15:20 7114 Sep 13 15:18 7114 Sep 16 01:06	3° M 16'36 22° M 24'07 25° M 32'46 25° M 32'46 26° M 06'00	0°19'22	behind sun begin behind sun end morning rise desc. node retrograde	7120 Feb 18 01:55 7120 Feb 18 17:37 7120 Feb 21 16:30 7120 Mar 02 02:40 7120 Apr 14 12:49 7120 Jul 02 23:19	29°≈11'59 29°≈20'39 0° ₭ 2° ₭05'12 11° ₭06'53 19° ₭36'02	
direct evening set conjunction minimum elong	7114 Apr 26 07:03 7114 Aug 30 22:53 7114 Sep 13 15:20 7114 Sep 13 15:18 7114 Sep 16 01:06 7114 Sep 27 08:10	3° m 16'36 22° m 24'07 25° m 32'46 25° m 32'46 26° m 06'00 28° m 41'19	0°19'22 0°19'22	behind sun begin behind sun end morning rise desc. node retrograde opposition	7120 Feb 18 01:55 7120 Feb 18 17:37 7120 Feb 21 16:30 7120 Mar 02 02:40 7120 Apr 14 12:49 7120 Jul 02 23:19 7120 Sep 01 19:34	29°≈11'59 29°≈20'39 0°¥ 2°¥05'12 11°¥06'53 19°¥36'02 14°¥43'16	-0°14'42
direct evening set conjunction minimum elong max. Earth dist.	7114 Apr 26 07:03 7114 Aug 30 22:53 7114 Sep 13 15:20 7114 Sep 13 15:18 7114 Sep 16 01:06	3° M 16'36 22° M 24'07 25° M 32'46 25° M 32'46 26° M 06'00	0°19'22 0°19'22	behind sun begin behind sun end morning rise desc. node retrograde	7120 Feb 18 01:55 7120 Feb 18 17:37 7120 Feb 21 16:30 7120 Mar 02 02:40 7120 Apr 14 12:49 7120 Jul 02 23:19	29°≈11'59 29°≈20'39 0°¥ 2°¥05'12 11°¥06'53 19°¥36'02 14°¥43'16	
direct evening set conjunction minimum elong max. Earth dist. morning rise	7114 Apr 26 07:03 7114 Aug 30 22:53 7114 Sep 13 15:20 7114 Sep 13 15:18 7114 Sep 16 01:06 7114 Sep 27 08:10 7114 Oct 03 02:55	3° m 16'36 22° m 24'07 25° m 32'46 25° m 32'46 26° m 06'00 28° m 41'19 0° Ω	0°19'22 0°19'22 6.13224 AU	behind sun begin behind sun end morning rise desc. node retrograde opposition min. Earth dist.	7120 Feb 18 01:55 7120 Feb 18 17:37 7120 Feb 21 16:30 7120 Mar 02 02:40 7120 Apr 14 12:49 7120 Jul 02 23:19 7120 Sep 01 19:34 7120 Sep 03 11:46	29°≈11'59 29°≈20'39 0°¥ 2°¥05'12 11°¥06'53 19°¥36'02 14°¥43'16 14°¥30'23	-0°14'42
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	7114 Apr 26 07:03 7114 Aug 30 22:53 7114 Sep 13 15:20 7114 Sep 13 15:18 7114 Sep 16 01:06 7114 Sep 27 08:10 7114 Oct 03 02:55 7115 Feb 01 01:06	3° m 16'36 22° m 24'07 25° m 32'46 25° m 32'46 26° m 06'00 28° m 41'19 0° <u>a</u> 17° <u>a</u> 30'18	0°19'22 0°19'22 6.13224 AU 0°47'59	behind sun begin behind sun end morning rise desc. node retrograde opposition min. Earth dist. direct	7120 Feb 18 01:55 7120 Feb 18 17:37 7120 Feb 21 16:30 7120 Mar 02 02:40 7120 Apr 14 12:49 7120 Jul 02 23:19 7120 Sep 01 19:34 7120 Sep 03 11:46 7120 Nov 02 18:09	29°≈11'59 29°≈20'39 0° ₩ 2° ₩05'12 11° ₩06'53 19° ₩36'02 14° ₩43'16 14° ₩30'23 9° ₩43'53	-0°14'42
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	7114 Apr 26 07:03 7114 Aug 30 22:53 7114 Sep 13 15:20 7114 Sep 13 15:18 7114 Sep 16 01:06 7114 Sep 27 08:10 7114 Oct 03 02:55 7115 Feb 01 01:06 7115 Apr 01 21:04	3° m 16'36 22° m 24'07 25° m 32'46 25° m 32'46 26° m 06'00 28° m 41'19 0° Ω 17° Ω 30'18 12° Ω 27'09	0°19'22 0°19'22 6.13224 AU 0°47'59	behind sun begin behind sun end morning rise desc. node retrograde opposition min. Earth dist. direct	7120 Feb 18 01:55 7120 Feb 18 17:37 7120 Feb 21 16:30 7120 Mar 02 02:40 7120 Apr 14 12:49 7120 Jul 02 23:19 7120 Sep 01 19:34 7120 Sep 03 11:46 7120 Nov 02 18:09 7121 Mar 08 04:33	29°≈11'59 29°≈20'39 0°¥ 2°¥05'12 11°¥06'53 19°¥36'02 14°¥43'16 14°¥30'23 9°¥43'53 27°¥58'42 0°♥	-0°14'42
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	7114 Apr 26 07:03 7114 Aug 30 22:53 7114 Sep 13 15:20 7114 Sep 13 15:18 7114 Sep 16 01:06 7114 Sep 27 08:10 7114 Oct 03 02:55 7115 Feb 01 01:06 7115 Apr 01 21:04 7115 Mar 31 13:13	3° m 16'36 22° m 24'07 25° m 32'46 25° m 32'46 26° m 06'00 28° m 41'19 0° \(\Omega\) 17° \(\Omega\) 30'18 12° \(\Omega\) 27'09 12° \(\Omega\) 37'52	0°19'22 0°19'22 6.13224 AU 0°47'59	behind sun begin behind sun end morning rise desc. node retrograde opposition min. Earth dist. direct evening set	7120 Feb 18 01:55 7120 Feb 18 17:37 7120 Feb 21 16:30 7120 Mar 02 02:40 7120 Apr 14 12:49 7120 Jul 02 23:19 7120 Sep 01 19:34 7120 Sep 03 11:46 7120 Nov 02 18:09 7121 Mar 08 04:33 7121 Mar 17 00:34	29°≈11'59 29°≈20'39 0°₩ 2°₩05'12 11°₩06'53 19°₩36'02 14°₩43'16 14°₩30'23 9°₩43'53 27°₩58'42 0°Ψ 0°Ψ23'44	-0°14'42 4.29658 AU 6.21496 AU
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	7114 Apr 26 07:03 7114 Aug 30 22:53 7114 Sep 13 15:20 7114 Sep 13 15:18 7114 Sep 16 01:06 7114 Sep 27 08:10 7114 Oct 03 02:55 7115 Feb 01 01:06 7115 Apr 01 21:04 7115 Mar 31 13:13 7115 May 31 13:22 7115 Oct 05 00:01	3° m 16'36 22° m 24'07 25° m 32'46 25° m 32'46 26° m 06'00 28° m 41'19 0° Ω 17° Ω 30'18 12° Ω 27'09 12° Ω 37'52 7° Ω 26'56	0°19'22 0°19'22 6.13224 AU 0°47'59	behind sun begin behind sun end morning rise desc. node retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction	7120 Feb 18 01:55 7120 Feb 18 17:37 7120 Feb 21 16:30 7120 Mar 02 02:40 7120 Apr 14 12:49 7120 Jul 02 23:19 7120 Sep 01 19:34 7120 Sep 03 11:46 7120 Nov 02 18:09 7121 Mar 08 04:33 7121 Mar 17 00:34	29°≈11'59 29°≈20'39 0°₩ 2°₩05'12 11°₩06'53 19°₩36'02 14°₩43'16 14°₩30'23 9°₩43'53 27°₩58'42 0°Ψ 0°Ψ23'44	-0°14'42 4.29658 AU 6.21496 AU -0°23'54
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	7114 Apr 26 07:03 7114 Aug 30 22:53 7114 Sep 13 15:20 7114 Sep 13 15:18 7114 Sep 16 01:06 7114 Sep 27 08:10 7114 Oct 03 02:55 7115 Feb 01 01:06 7115 Apr 01 21:04 7115 Mar 31 13:13 7115 May 31 13:22 7115 Oct 18 12:45	3° m 16'36 22° m 24'07 25° m 32'46 25° m 32'46 26° m 06'00 28° m 41'19 0° \(\oldsymbol{n}\) 17° \(\oldsymbol{n}\) 30'18 12° \(\oldsymbol{n}\) 22'09 12° \(\oldsymbol{n}\) 37'52 7° \(\oldsymbol{n}\) 26'56 25° \(\oldsymbol{n}\) 28° \(\oldsymbol{n}\) 45'23	0°19'22 0°19'22 6.13224 AU 0°47'59 4.21606 AU	behind sun begin behind sun end morning rise desc. node retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	7120 Feb 18 01:55 7120 Feb 18 17:37 7120 Feb 21 16:30 7120 Mar 02 02:40 7120 Apr 14 12:49 7120 Jul 02 23:19 7120 Sep 01 19:34 7120 Sep 03 11:46 7120 Nov 02 18:09 7121 Mar 08 04:33 7121 Mar 17 00:34 7121 Mar 18 17:53 7121 Mar 20 22:34 7121 Mar 20 22:34	29°≈11'59 29°≈20'39 0°₩ 2°₩05'12 11°₩06'53 19°₩36'02 14°₩43'16 14°₩30'23 9°₩43'53 27°₩58'42 0°Ψ 0°Ψ23'44 0°Ψ54'00 0°Ψ'53'59	-0°14'42 4.29658 AU 6.21496 AU -0°23'54
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	7114 Apr 26 07:03 7114 Aug 30 22:53 7114 Sep 13 15:20 7114 Sep 13 15:18 7114 Sep 16 01:06 7114 Sep 27 08:10 7114 Oct 03 02:55 7115 Feb 01 01:06 7115 Apr 01 21:04 7115 Mar 31 13:13 7115 May 31 13:22 7115 Oct 18 12:45 7115 Oct 18 12:45	3° m 16'36 22° m 24'07 25° m 32'46 25° m 32'46 26° m 06'00 28° m 41'19 0° \(\odoldoor \) 17° \(\odoldoor \) 12° \(\odoldoor \) 22'09 12° \(\odoldoor \) 25' \(\odoldoor \) 26'56 25° \(\odoldoor \) 28° \(\odoldoor \) 245'23	0°19'22 0°19'22 6.13224 AU 0°47'59 4.21606 AU 0°42'41 0°42'44	behind sun begin behind sun end morning rise desc. node retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise	7120 Feb 18 01:55 7120 Feb 18 17:37 7120 Feb 21 16:30 7120 Mar 02 02:40 7120 Apr 14 12:49 7120 Jul 02 23:19 7120 Sep 01 19:34 7120 Sep 03 11:46 7120 Nov 02 18:09 7121 Mar 08 04:33 7121 Mar 17 00:34 7121 Mar 18 17:53 7121 Mar 20 22:34 7121 Mar 20 22:33 7121 Apr 02 16:17	29°≈11'59 29°≈20'39 0°¥ 2°¥05'12 11°¥06'53 19°¥36'02 14°¥43'16 14°¥30'23 9°¥43'53 27°¥58'42 0°Y 0°Y23'44 0°Y54'00 0°Y53'59 3°Y49'28	-0°14'42 4.29658 AU 6.21496 AU -0°23'54
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1722 May 16 318.10 7723 May 16 7123 May 29 1535 7725 May 16 7123 May 29 1535 7725	direct	7123 Jan 10 08:42	17° 8 51'14		evening set	7128 Nov 10 05:51	1° ≮ 23'39	
1	evening set	-			conjunction	7128 Nov 23 12:04	4° √ 14'52	0°52'14
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ORAPORATION OF 19 08:22 MIR 19 08:22 MIR 19 09:1095 evening set of 17:10 be 10 14:15 1750 be 19 23:50 3°E4/04 6.4940 NU direct 17:12 be 10 14:15 1750 be 19 23:50 3°E4/04 6.4940 NU direct 17:12 be 10 14:15 1750 be 19 23:50 3°E4/04 6.4940 NU direct 17:12 be 10 14:15 1750 be 10 1	Č		0ಂಣ				18° ∡ ′55'11	4.48003 AU
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max End disk 712 be 19 2.35 9°H 1448 39102 AU max End disk 712 be 2 2 6.53 5°E 409 6.4940 AU 61750 7124 feb 1 404 712 be 10 12 be 10		7123 Dec 19 08:22	30° Ŗ Ⅱ			7129 Dec 05 16:06	ರ°0	
March 1914	opposition	7123 Dec 20 13:43	29° Ⅲ 50′09	-1°09'55	evening set	7129 Dec 11 04:15	1° る 09'56	
1948 1948 1948 1962 1962 1962 1968	min. Earth dist.	7123 Dec 19 23:53	29° ∏ 54'48	3.91102 AU	max. Earth dist.	7129 Dec 23 06:35	3° ප 45'04	6.49406 AU
Part	direct	7124 Feb 16 14:47	24° Ⅲ 56′00					
Conjunction 7124 Jul 05 1513 18°65 31 31°85		7124 Apr 13 04:49	0 \circ		conjunction	7129 Dec 24 05:07	3° る 57'09	0°45'16
conjunction minimum clong minimum c	evening set	7124 Jun 22 04:55	15° © 00'27		minimum elong	7129 Dec 24 05:08	3° る 57'10	0°45'21
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max End Indist 7124 Jul 07 0.544 18°83 NS 5.9150 NA mine Earth dist 7130 Jul 07 0.57 18°52 702 4.8782 ND retorgade 7124 July 24 13:31 0°42 12°4200° 13°420° 13°430° 13°13 In 0 10:17 0°80255 18°5220° retorgade 7124 July 24 13:31 0°407 394744 AU max Earth dist 7131 In 10 10:17 0°802055 648877 AU opposition 7125 Jul 20 08:22 15°02 """"""""""""""""""""""""""""""""""""	conjunction	7124 Jul 05 15:13	18° © 16'31	-0°36'40	retrograde	7130 May 06 06:36	23° る 18'17	
morning rise 7124 Jul 19 0425 21°234'00 31°62'10 31°62	minimum elong	7124 Jul 05 15:15	18° © 16'32	0°36'44	opposition	7130 Jul 06 05:04	18° る 24'45	0°53'54
Part	max. Earth dist.	7124 Jul 07 03:44	18° © 38'45	5.91508 AU	min. Earth dist.	7130 Jul 07 05:10	18° る 17'02	4.48742 AU
Internation	morning rise		21° 5 34'00		direct	7130 Sep 06 22:57	13° る 23'03	
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direct 1/12 S Mar 2 S 13 c2 2°/2204 S conjunction 713 J Ian 23 06:00 3°%2718 0°2738 0°2630 0°2630 0°2630 evening set 7125 Jul 30 08:37 2°8/00°13 S minimum elong 7131 Ian 23 06:00 3°%2718 0°2730 0°2630 conjunction 7125 Aug 12 21:27 2°8/01°93 0°0737 errograde 7131 Ian 20 06:34 15°%6 15°%6 conjunction 7125 Aug 12 13:53 2°8/01°93 0°0737 opposition 7131 Aug 0°0 00:0 18°%81340 0°20°25 behind sun begin 7125 Aug 13 08:30 2°8/01°93 0°0737 opposition 7131 Aug 0°1 32.3 18°%610°47 44155 AU max. Earth dist. 7125 Aug 13 08:38 2°8/02497 6000 0°1 131 Cep 0°1 114.4 13°%2125 15°%6		7125 Jan 25 06:47			max. Earth dist.	7131 Jan 21 09:15	3° ≈ 02'35	6.45877 AU
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125 Sep 01 16:41 0°Pt 126 Nov 14 19:12 14°Pt 126 Nov 14 19:12 126 Nov 14 19:12		•		6.00267 AU	direct			
Seconder 1725 Nov 14 19:12 14°Mq 14'8 14°Mq 14'8 14°Mq 14'8 14°Mq 14'8 1713 Feb 10 23 13°Mq 13'5 18°Mq 13'8 18°Mq 12'8 18°Mq 13'8 18°	morning rise	•						
retrograde 7126 Jan 03 06:54 18°m² 27'S max. Earth dist. 7132 Feb 20 10:23 3° ¥13'22 6.34734 AU min. Earth dist. 7126 Mar 02 06:11 13°m² 35'89 4.07537 AU "132 Feb 22 17:33 3°¥44'07 0°00'02 direct 7126 May 01 11:15 8°m² 24'37 minimmelong 7132 Feb 22 17:34 3°¥44'08 0°00'05 evening set 7126 Sep 16 09:57 0°2 behind sun begin 7132 Feb 22 10:33 3°¥48'18 4 conjunction 7126 Sep 18 17:26 0°2 behind sun end 7132 Feb 23 01:05 3°¥48'18 4 conjunction 7126 Sep 18 17:26 0°231'43 0°23'20 morning rise 7132 Mar 60 10:27 6°¥33'54 4 minimum elong 7126 Sep 18 17:24 0°23'143 0°23'20 retrograde 7132 Jul 07 16:15 24°¥14'05 9 max. Earth dist. 7126 Sep 21 01:44 1°20'35 6.15818 AU opposition 7132 Nav 60 12:3 1°9*£2'10 0°20'33 morning rise 7126 Sep 21 01:44 1°20'25'8 4.24227 AU 7132 Nav 713 Nav 12 19:15	1				. ,			
min. Earth dist. 7126 Mar 03 20:16 13° \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$					•			C 24724 ATT
opposition 7126 Mar 03 20:16 13° \$\text{\$\text{\$\mathbb{\chi}\$2437}} conjunction 7132 Feb 22 17:33 3° \$\text{\$\chi}\$407 0°0002 evening set 7126 Sep 05 01:25 27° \$\text{\$\mathbb{\chi}\$2437} behind sun begin 7132 Feb 22 17:34 3° \$\text{\$\mathbb{\chi}\$4958} 0°0005 conjunction 7126 Sep 16 09:57 0° \$\mathbb{\chi}\$ behind sun end 7132 Feb 22 17:34 3° \$\text{\$\mathbb{\chi}\$4818}	•		•	4 07527 ATT	max. Earth dist.	/132 Feb 20 10:23	3°大13′22	6.34/34 AU
direct 7126 May 01 11:15 8°m24'37 minimum elong 7132 Feb 22 17:34 3°K4408 0°0005 evening set 7126 Sep 05 01:25 27°m24'25 behind sun begin 7132 Feb 22 10:33 3°K48'8 400005 conjunction 7126 Sep 18 17:26 0°a 10°a behind sun begin 7132 Feb 23 01:03 3°K49'87 40000 conjunction 7126 Sep 18 17:26 0°a31'43 0°23'20 morning rise 7132 Mar 06 10:27 6°K33'54 40°83'54 max. Earth dist. 7126 Sep 18 17:26 0°a31'43 0°23'20 retrograde 7132 Mar 06 10:23 0°9°K21'10 0°20'33 morning rise 7126 Oct 02 0°50 3°a48'81 1°a0'34 0°23'20 min. Earth dist. 7132 Nov 07 05:55 12°%21'10 0°20'33 morning rise 7126 Oct 02 0°50 3°a48'81 1°a0'93'81 0°a0'90'90'90'90'90'90'90'90'90'90'90'90'90					agniumation	7122 Eab 22 17:22	20 ¥ 44!07	000002
evening set 7126 Sep 16 09:57 (126 Sep 16 09:57) 2° Φ behind sun begin desc. node 7132 Feb 23 01:05 3° H39'58 4 (126 Sep 16 09:57) 3° Φ behind sun end desc. node 7132 Feb 23 01:05 3° H48'18 4 (132 Feb 23 01:05) 3° H48'18 4 (132 Feb 23 01:05) 3° H48'18 4 (132 Feb 23 01:05) 3° H49'57 4 (27079 All H19 10:05) 3° H49'57 4 (27079 All H19	**			0 12 33	-			
Part		•	-		_			0 00 03
conjunction 7126 Sep 18 17:26 0° Ω31'43 0°23'20 morning rise 7132 Mar 06 10:27 6° Ж33'54 1 minimum elong 7126 Sep 18 17:24 0° Ω31'43 0°23'20 retrograde 7132 Mar 06 10:27 6° Ж33'54 1 max. Earth dist. 7126 Sep 21 01:44 1° Ω03'54 6.15818 AU opposition 7132 Sep 06 12:30 10° Ж11'10 0° 20'33 morning rise 7126 Cot 02 09:50 3° Ω38'51 min. Earth dist. 7132 Sep 06 12:30 10° Ж11'10 0° 20'33 min. Earth dist. 7127 Feb 05 12:48 22° Ω16'16 direct 7132 Nov 07 05:55 14° ½22'05 min. Earth dist. 7127 Apr 05 04:43 1°° Ω3'35 4.24227 AU 7133 Feb 28 16:20 0°° V opposition 7127 Apr 06 11:32 1°° Ω1'32 0°52'31 evening set 7133 Mar 23 11:11 5°° Y1'14 0°87'41'14 evening set 7127 Oct 0° 7 1:29 0°° M2-4'15 conjunction 7133 Mar 25 13:28 5°° Y41'14 0°27'31 evening set 7127 Oct 23 05:46 3° M22'43 0°44'52 morning rise 713	evening set	1	•		•			
conjunction 7126 Sep 18 17:26 0° Δ31'43 0° 23'20 morning rise 7132 Mar 06 10:27 6° ⅓3'54 least 140 minimum elong 7126 Sep 18 17:24 0° Δ31'43 0° 23'20 retrograde 7132 Mar 06 10:27 6° ⅓3'54 24° ⅓14'05 max. Earth dist. 7126 Sep 21 01:44 1° Δ03'54 6.15818 AU opposition 7132 Sep 06 12:30 1° ⅔1'10 -0° 20'33 morning rise 7126 Oct 02 09:50 3° Δ38'51 direct 7132 Sep 08 03:29 1° ⅔1'81 4.27079 AU retrograde 7127 Feb 05 12:48 22° Δ16'16 direct 7133 Nov 07 05:55 14° ∯22'05 14° ¥22'05 opposition 7127 Apr 05 04:43 17° Δ23'50 4.24227 AU 7133 Feb 28 16:20 0°° ¶ opposition 7127 Apr 06 11:32 17° Δ13'29 0°52'31 evening set 7133 Mar 23 11:11 5° № 12'14 6.18786 AU direct 7127 Oct 07 21:29 0° M. max. Earth dist. 7133 Mar 25 13:28 5° № 12'14 0°27'31 evening set 7127 Oct 29 17:47 0° M.22'15 0° M.22'15 morning rise 7133 Mar 25 13:28 <t< td=""><td></td><td>/120 Sep 10 07.57</td><td>٥ –</td><td></td><td></td><td></td><td></td><td></td></t<>		/120 Sep 10 07.57	٥ –					
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conjunction 7127 Oct 09 17:47 0° 11.24 15° 12.24 13.24		7127 Jun 05 08:15	12° ₽ 13'01		max. Earth dist.	7133 Mar 23 11:11	5° Υ 12'14	6.18786 AU
minimum elong 7127 Oct 23 05:47 3°M22'43 0°44'52 morning rise 7133 Apr 07 07:33 8°Y38'03 8°Y38'03 minimum elong 7127 Oct 23 05:46 3°M22'43 0°44'55 retrograde 7133 Aug 12 00:03 27°Y28'29 max. Earth dist. 7127 Oct 24 16:26 3°M20'21 min. Earth dist. 7127 Doc 17 13:26 15°M min. Earth dist. 7127 Doc 17 13:26 15°M min. Earth dist. 7128 May 06 10:11 18°M56'05 4.39118 AU max. Earth dist. 7128 Jun 09 15:24 15°R min. Earth dist. 7128 Aug 04 01:54 15°M min. Earth dist. 7134 Apr 28 13:48 9°\S4262 0°47'24		7127 Oct 07 21:29	0°M					
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minimum elong 7127 Oct 23 05:46 3° 11.22'43 0° 44'55 retrograde 7133 Aug 12 00:03 27° Y28'29 max. Earth dist. 7127 Oct 24 16:26 3° 11.41'51 6.32262 AU opposition 7133 Oct 11 09:47 22° Y33'53 -0° 58'05 morning rise 7127 Nov 05 16:37 6° 11.20'21 min. Earth dist. 7133 Oct 12 15:37 22° Y24'12 4.10358 AU direct 7137 Dec 17 13:26 15° 11.51'13 circlet 7133 Dec 10 19:58 17° Y37'08 retrograde 7128 May 06 23:41 18° 11.51'38 1° 13'20 evening set 7134 Apr 15 16:26 6° 849'44 min. Earth dist. 7128 May 06 10:11 18° 11.56'05 4.39118 AU max. Earth dist. 7134 Apr 27 09:22 9° 837'25 6.02752 AU direct 7128 Jul 07 05:19 13° 11.51'13 Conjunction 7134 Apr 28 13:48 9° 854'27 -0° 47'20 minimum elong 7134 Apr 28 13:47 9° 854'26 0° 47'24					minimum elong	7133 Mar 25 13:27	5° Ƴ 41'17	0°27'32
max. Earth dist. 7127 Oct 24 16:26 3° \text{ML41'51} 6.32262 AU opposition 7133 Oct 11 09:47 22° \text{Y33'53} -0°58'05 morning rise 7127 Nov 05 16:37 6° \text{ML20'21} min. Earth dist. 7133 Oct 12 15:37 22° \text{Y24'12} 4.10358 AU direct 7133 Dec 10 19:58 17° \text{Y37'08} retrograde 7128 Mar 07 16:15 23° \text{ML51'38} 1° 13'20 evening set 7134 Apr 15 16:26 6° \text{849'44} min. Earth dist. 7128 May 06 23:41 18° \text{ML51'38} 1° 13'20 evening set 7134 Apr 15 16:26 6° \text{849'44} min. Earth dist. 7128 May 06 10:11 18° \text{ML56'05} 4.39118 AU max. Earth dist. 7134 Apr 27 09:22 9° \text{837'25} 6.02752 AU direct 7128 Jul 07 05:19 13° \text{ML49'59} conjunction 7134 Apr 28 13:48 9° \text{854'27} -0°47'20 7128 Aug 04 01:54 15° \text{NL} minimum elong 7134 Apr 28 13:47 9° \text{854'26} 0°47'24	conjunction	7127 Oct 23 05:47	3°M22'43	0°44'52	morning rise	7133 Apr 07 07:33	8° Y 38'03	
morning rise 7127 Nov 05 16:37 6° 1L20′21 min. Earth dist. 7133 Oct 12 15:37 22° 1V24′12 4.10358 AU direct 7137 Dec 17 13:26 15° 1L direct 7133 Dec 10 19:58 17° 1V3708 retrograde 7128 Mar 07 16:15 23° 1L5′103 7134 Mar 16 22:29 0° 8	minimum elong	7127 Oct 23 05:46	3°M22'43	0°44'55	retrograde	7133 Aug 12 00:03		
T127 Dec	max. Earth dist.	7127 Oct 24 16:26	3°M41'51	6.32262 AU	opposition	7133 Oct 11 09:47		-0°58'05
retrograde 7128 Mar 07 16:15 23°ML51'03 7134 Mar 16 22:29 0°8 poposition 7128 May 06 23:41 18°ML51'38 1°13'20 evening set 7134 Apr 15 16:26 6°849'44 min. Earth dist. 7128 May 06 10:11 18°ML56'05 4.39118 AU max. Earth dist. 7134 Apr 27 09:22 9°837'25 6.02752 AU direct 7128 Jul 07 05:19 13°ML49'59 conjunction 7134 Apr 28 13:48 9°854'27 -0°47'20 7128 Aug 04 01:54 15°ML minimum elong 7134 Apr 28 13:47 9°854'26 0°47'24	morning rise	7127 Nov 05 16:37			min. Earth dist.	7133 Oct 12 15:37		4.10358 AU
opposition 7128 May 06 23:41 18° ML51'38 1°13'20 evening set 7134 Apr 15 16:26 6° 849'44 min. Earth dist. 7128 May 06 10:11 18° ML56'05 4.39118 AU max. Earth dist. 7134 Apr 27 09:22 9° 837'25 6.02752 AU direct 7128 Jul 07 05:19 13° ML49'59 conjunction 7134 Apr 28 13:48 9° 854'27 -0° 47'20 7128 Aug 04 01:54 15° ML minimum elong 7134 Apr 28 13:47 9° 854'26 0° 47'24					direct			
min. Earth dist. 7128 May 06 10:11 18°ML56'05 4.39118 AU max. Earth dist. 7134 Apr 27 09:22 9°837'25 6.02752 AU 7128 Jun 09 15:24 15°RML conjunction 7134 Apr 28 13:48 9°854'27 -0°47'20 7128 Aug 04 01:54 15°ML minimum elong 7134 Apr 28 13:47 9°854'26 0°47'24	-	7128 Mar 07 16:15						
7128 Jun 09 15:24 15°RM. direct 7128 Jul 07 05:19 13°M.49'59 conjunction 7134 Apr 28 13:48 9°\begin{array}{c c c c c c c c c c c c c c c c c c c		•			-	-	_	
direct 7128 Jul 07 05:19 13°M 49'59 conjunction 7134 Apr 28 13:48 9°8 54'27 -0°47'20 7128 Aug 04 01:54 15°M minimum elong 7134 Apr 28 13:47 9°8 54'26 0°47'24	min. Earth dist.	•		4.39118 AU	max. Earth dist.	7134 Apr 27 09:22	9° 8 37'25	6.02752 AU
7128 Aug 04 01:54 15°M minimum elong 7134 Apr 28 13:47 9°\dagsis 54'26 0°47'24					_			
	direct				·	-		
7128 Nov 03 16:49 0°× morning rise 7134 May 11 12:23 13°\mathcal{8}00'06		=			_	-		0°47'24
		/128 NOV U3 16:49	U~ X'		morning rise	/134 May 11 12:23	13,000,06	

	7134 May 19 22:58	15° 8		opposition	7140 May 11 06:28	23°M16'08	1°14'30
	7134 Aug 04 20:50	0° Ⅱ		min. Earth dist.	7140 May 10 19:04	23°M19'54	4.40816 AU
retrograde	7134 Sep 18 16:20	3° Ⅱ 04'47		direct	7140 Jul 11 15:04	18°M14'24	4.40010 AC
renograde	7134 Nov 03 00:59	30°R 8		uncet	7140 Oct 17 23:55	0° √	
opposition	7134 Nov 17 15:00	28° 8 07'19	-1°17'19	evening set	7140 Nov 14 15:35	5° х 44′16	
min. Earth dist.	7134 Nov 17 22:32	28° 8 04'50	3.96540 AU	evening sec	71.01.07 1. 10.50		
direct	7135 Jan 15 13:03	23° 8 12'41	2.500.0110	conjunction	7140 Nov 27 21:00	8° ∡ ³34'43	0°52'03
	7135 Mar 23 12:08	0°II		minimum elong	7140 Nov 27 21:01	8° × ³34'43	0°52'08
evening set	7135 May 21 20:35	13° Ⅱ 05'17		max. Earth dist.	7140 Nov 27 21:56	8° ∡ ³35'13	6.45637 AU
S	,			morning rise	7140 Dec 11 00:17	11° ∡ 724'01	
conjunction	7135 Jun 04 00:14	16° Ⅱ 17'40	-0°50'18	retrograde	7141 Apr 10 17:01	28° ₰ 08'45	
minimum elong	7135 Jun 04 00:15	16° Ⅱ 17'41	0°50'22	opposition	7141 Jun 10 09:55	23° ҂ 13'11	1°11'21
max. Earth dist.	7135 Jun 04 06:36	16° Ⅱ 21'33	5.92483 AU	min. Earth dist.	7141 Jun 10 19:06	23° ҂ 10′13	4.48536 AU
morning rise	7135 Jun 17 06:29	19° Ⅲ 31'33		direct	7141 Aug 11 18:39	18° √ 11'12	
	7135 Aug 02 01:26	0°ಅ			7141 Nov 19 04:42	0°రె	
retrograde	7135 Oct 27 12:31	10° 5 21'42		evening set	7141 Dec 15 10:35	5° පි 25'30	
min. Earth dist.	7135 Dec 25 08:20	5° 5 26'33	3.91063 AU	max. Earth dist.	7141 Dec 27 07:03	7° る 57'40	6.49278 AU
opposition	7135 Dec 26 01:59	5° 5 20'36	-1°06'18				
direct	7136 Feb 22 02:06	0°526'18		conjunction	7141 Dec 28 10:43	8° ප 12'30	0°43'13
evening set	7136 Jun 27 15:26	20° © 29'14		minimum elong	7141 Dec 28 10:44	8° ප 12'31	0°43'18
				morning rise	7142 Jan 10 08:35	10°る58'27	
conjunction	7136 Jul 11 02:50	23° © 45'23	-0°33'06	retrograde	7142 May 10 13:13	27° ප 34'43	
minimum elong	7136 Jul 11 02:52	23°5645'24	0°33'09	opposition	7142 Jul 10 11:26	22° る 41'25	0°49'53
max. Earth dist.	7136 Jul 12 21:24	24°©11'14	5.92346 AU	min. Earth dist.	7142 Jul 11 14:04	22° る 32'53	4.47976 AU
morning rise	7136 Jul 24 16:44	27° © 02'47		direct	7142 Sep 11 05:23	17° る 39'47	
	7136 Aug 06 01:59	$0^{\circ}\Omega$			7142 Dec 21 21:37	0° ≈	
	7136 Oct 23 00:46	15° Ω		evening set	7143 Jan 14 16:32	4° ≈ 59'55	
retrograde	7136 Dec 03 12:49	17° Ω 42'54		max. Earth dist.	7143 Jan 25 14:18	7° ≈ 21'52	6.44526 AU
	7137 Jan 13 23:21	15°R Ω					
opposition	7137 Jan 31 22:53	12° Ω 38'57		conjunction	7143 Jan 27 12:51	7° ≈ 47'12	0°23'01
min. Earth dist.	7137 Jan 30 12:31		3.96339 AU	minimum elong	7143 Jan 27 12:52	7° ≈ 47'13	0°23'05
direct	7137 Mar 30 22:01	7° Ω 42'55		morning rise	7143 Feb 09 06:56	10° ≈ 33'38	
	7137 Jun 08 14:15	15° Ω			7143 Mar 02 05:02	15° ≈	
evening set	7137 Aug 04 13:22	27° Ω 20'56		retrograde	7143 Jun 10 12:04	27° ≈ 32'08	
	7137 Aug 15 19:05	0°Щ		opposition	7143 Aug 10 11:34	22° ≈ 39'43	0°14'49
				min. Earth dist.	7143 Aug 12 01:11	22° ≈ 27'44	4.39305 AU
conjunction	7137 Aug 18 05:23	0° Mp 34′27		direct	7143 Oct 11 23:11	17° ≈ 39'13	
minimum elong	7137 Aug 18 05:23	0° Mp 34'26	0°03'00	desc. node	7144 Jan 01 21:05	26°≈22'27	
behind sun begin	7137 Aug 17 21:01	0° m/29'31			7144 Jan 20 05:00	0°) (25150	
behind sun end	7137 Aug 18 13:44	0° m/39'21	C 02425 ATT	evening set	7144 Feb 14 09:26	5° ¥ 25'59	(22522 ATT
max. Earth dist.	7137 Aug 20 17:20	1° Mp 09'50	6.02425 AU	max. Earth dist.	7144 Feb 24 19:47	/° X 45'44	6.32523 AU
morning rise	7137 Aug 31 23:09	3° Mp 48'31		. ,.	7144 F 1 27 02 21	00 V 17150	0004105
asc. node	7137 Sep 23 16:05	9° Mp 00'20		conjunction	7144 Feb 27 03:31	8° 光 16'58 8° 光 16'58	0°04'03
retrograde min. Earth dist.	7138 Jan 08 02:05 7138 Mar 07 03:12	23° Mp 30'01 18° Mp 38'38	4.10023 AU	minimum elong behind sun begin	7144 Feb 27 03:29 7144 Feb 26 19:38	8° X 12'35	0 04 03
opposition	7138 Mar 08 17:41	18° Mp 25'34	0°19'21	behind sun end	7144 Feb 20 19:38 7144 Feb 27 11:21	8° X 21'21	
direct	7138 May 06 12:00	18 m/25 54 13°m/26'55	0 1921	morning rise	7144 Feb 27 11.21 7144 Mar 10 20:30	11° X 07'39	
direct	7138 Aug 30 18:25	0° ம		retrograde	7144 Jul 12 14:09	28° H 57'16	
evening set	7138 Sep 10 01:45	0 == 2° £ 18'51		opposition	7144 Sep 11 07:58	24° H 04'16	-0°26'26
evening set	7136 Sep 10 01.43	2 = 1031		min. Earth dist.	7144 Sep 12 22:49		4.24657 AU
conjunction	7138 Sep 23 17:20	5° £ 24'48	0°27'07	direct	7144 Sep 12 22:49 7144 Nov 11 22:09	19° H 05'32	1.270 <i>3 I</i> AU
minimum elong	7138 Sep 23 17:19	5° £ 24'48	0°27'07	uncer	7145 Feb 11 01:09	0°Υ	
max. Earth dist.	7138 Sep 25 22:36	5° £ 55'05	6.18410 AU	evening set	7145 Mar 17 11:47	7° Υ 35'34	
morning rise	7138 Oct 07 09:04	8° ⊆ 30'29	0.10110110	max. Earth dist.	7145 Mar 28 06:42	10° Υ 05'30	6.16378 AU
retrograde	7139 Feb 10 01:20	26° £ 56'57		man. Barar alge.	71.0 11.01 20 00.12	10 10000	0.10370110
min. Earth dist.	7139 Apr 09 20:38	20° ⊆ 03'54	4.26691 AU	conjunction	7145 Mar 30 06:21	10° Ƴ 33'12	-0°31'03
opposition	7139 Apr 11 00:27	21° £ 54'35	0°56'42	minimum elong	7145 Mar 30 06:20	10° Υ 33'11	0°31'04
direct	7139 Jun 10 03:04	16° £ 53'52		morning rise	7145 Apr 12 00:50	13° Y 31'09	-
	7139 Sep 21 03:13	0°M		<i>3</i>	7145 Jul 07 08:24	0°8	
evening set	7139 Oct 14 09:48	4°M58'28		retrograde	7145 Aug 17 05:07	2° 8 32'26	
2		- •		5	7145 Sep 27 11:35	30°RY	
conjunction	7139 Oct 27 21:03	7° M 55'44	0°46'47	opposition	7145 Oct 16 13:50	27° Y 37'33	-1°02'17
minimum elong	7139 Oct 27 21:02	7°M55'43	0°46'51	min. Earth dist.	7145 Oct 17 16:07	27° Y 29'00	4.08201 AU
max. Earth dist.	7139 Oct 29 04:13	8°M12'51	6.34403 AU	direct	7145 Dec 15 17:41	22° Y 41'16	
morning rise	7139 Nov 10 06:57	10°M52'05			7146 Feb 24 16:55	0°8	
-	7139 Nov 29 14:29	15° M ₊		evening set	7146 Apr 20 16:40	12° 8 00'05	
retrograde	7140 Mar 11 20:50	28°M15'04					

		! !					
conjunction	7146 May 03 14:35	15° 8 05'50		conjunction	7151 Nov 01 09:10	12°M22'15	0°48'23
minimum elong	7146 May 03 14:34	15° 8 05'50		minimum elong	7151 Nov 01 09:09	12°M22'14	0°48'26
max. Earth dist.	7146 May 02 14:48	14° 8 51'33	6.01049 AU	max. Earth dist.	7151 Nov 02 10:45	12°M36'16	6.36133 AU
	7146 May 03 04:52	15° 8			7151 Nov 13 09:56	15° M ₊	
morning rise	7146 May 16 14:06	18° 8 12'41		morning rise	7151 Nov 14 18:16	15°M17'34	
	7146 Jul 08 20:07	Π °0			7152 Feb 03 18:16	0° ∡ 7	
retrograde	7146 Sep 24 02:55	8° Ⅱ 25'19		retrograde	7152 Mar 16 02:05	2° ҂ ³34′26	
opposition	7146 Nov 23 00:45	3° Ⅲ 27′21	-1°17'41		7152 Apr 26 08:44	30°RM₊	
min. Earth dist.	7146 Nov 23 04:25	3° Ⅱ 26′08	3.95482 AU	opposition	7152 May 15 11:21	27°M36'01	1°15'17
	7146 Dec 22 01:07	30° ₹ 8		min. Earth dist.	7152 May 15 03:45	27°M38'30	4.42069 AU
direct	7147 Jan 20 19:45	28° 8 32'54		direct	7152 Jul 16 00:17	22°MJ34'11	
	7147 Feb 19 09:09	$\Pi^{\circ}0$			7152 Sep 29 08:19	0° ∡ ¹	
evening set	7147 May 27 02:35	18° Ⅲ 27'38		evening set	7152 Nov 18 23:15	10° ∡ °01'34	
C	,			Č			
conjunction	7147 Jun 09 07:23	21° ∏ 40'41	-0°49'02	conjunction	7152 Dec 02 04:02	12° ∡ 51′29	0°51'36
minimum elong	7147 Jun 09 07:24	21° ∏ 40'41		minimum elong	7152 Dec 02 04:02	12° ₹ '51'30	0°51'41
max. Earth dist.	7147 Jun 09 20:48		5.92189 AU	max. Earth dist.	7152 Dec 02 01:04	12° ×7 49'54	6.46332 AU
morning rise	7147 Jun 22 14:33	24° I I55'09	3.92109110	morning rise	7152 Dec 15 06:33	15° ∡ 740'15	0.10332710
morning risc	7147 Jul 13 23:19	0°95		morning risc	7153 Mar 05 21:43	0°ਰ ਹਾਤ	
retrograde	7147 Nov 01 22:49	15° © 45'41		ratrograda		2°る23'00	
Č			1002114	retrograde	7153 Apr 14 19:46		
opposition	7147 Dec 31 10:55	10°5544'08		•,•	7153 May 24 21:26	30° ₹ ✓	1000122
min. Earth dist.	7147 Dec 30 14:48		3.91585 AU	opposition	7153 Jun 14 13:53	27° ∡ ¹27'47	1°09'22
direct	7148 Feb 27 10:07	5° © 49'43		min. Earth dist.	7153 Jun 15 00:58	27° ∡ ¹24'12	4.48668 AU
evening set	7148 Jul 02 22:44	25° © 49'23		direct	7153 Aug 15 23:06	22° ∡ ¹25'49	
					7153 Oct 31 18:24	0°ප	
conjunction	7148 Jul 16 10:50	29° © 05'17	-0°29'23	evening set	7153 Dec 19 16:09	9° ප් 40'32	
minimum elong	7148 Jul 16 10:51	29° © 05'18	0°29'27	max. Earth dist.	7153 Dec 31 10:01	12° る 11'30	6.48854 AU
max. Earth dist.	7148 Jul 18 08:07	29° 5 32'41	5.93599 AU				
	7148 Jul 20 05:16	$0 {\circ} \Omega$		conjunction	7154 Jan 01 15:45	12° る 27'29	0°40'58
morning rise	7148 Jul 30 01:38	2° Ω 22′26		minimum elong	7154 Jan 01 15:46	12° る 27'30	0°41'02
	7148 Sep 25 08:47	15° Ω		morning rise	7154 Jan 14 12:56	15° る 13'21	
retrograde	7148 Dec 08 12:59	22° Ω 55′04			7154 Apr 09 14:31	0° ≈	
min. Earth dist.	7149 Feb 04 12:32	18° Ω 03'17	3.98182 AU	retrograde	7154 May 14 19:38	1° ≈ 51'35	
opposition	7149 Feb 06 00:54	17° Ω 50'55	-0°21'26	-	7154 Jun 19 03:11	30°₽₹	
11	7149 Feb 28 10:35	15°R Ω		opposition	7154 Jul 14 17:52	26° ප් 58'31	0°45'37
direct	7149 Apr 05 01:19	12° Ω 54'33		min. Earth dist.	7154 Jul 15 22:31	26° る 49'22	4.47029 AU
	7149 May 10 17:32	15° Ω		direct	7154 Sep 15 12:00	21° ප 57'02	
	7149 Jul 30 05:12	0° m)		anov	7154 Dec 03 16:37	0°≈	
asc. node	7149 Aug 04 01:36	0° Mg 07'17		evening set	7155 Jan 18 23:00	9°≈20'10	
evening set	7149 Aug 04 01:30 7149 Aug 09 16:20	2° Mg 25'44		max. Earth dist.	7155 Jan 29 17:20	11° ≈ 40'47	6.43120 AU
evening set	/149 Aug 09 10.20	2 11/23 44		max. Earth dist.	/133 Jan 29 17.20	11 2404/	0.43120 AO
aamiumatiam	7149 Aug 23 08:32	50 mm 20116	0°01'35	aaniumatian	7155 Jan 31 18:47	1290 007!49	0°19'29
conjunction	· ·	5°Mp38'16		conjunction		12°≈07'48	
minimum elong	7149 Aug 23 08:32	5° Mp 38'15	0°01'33	minimum elong	7155 Jan 31 18:48	12°≈07'49	0°19'33
behind sun begin	7149 Aug 23 00:08	5° Mp 33'21		morning rise	7155 Feb 13 12:46	14°≈54'41	
behind sun end	7149 Aug 23 16:56	5° m 43'10	C 0.1660 177		7155 Feb 13 22:33	15° ≈	
max. Earth dist.	7149 Aug 25 19:40	6° TD 12'59	6.04669 AU		7155 May 09 16:41	0° ∀	
morning rise	7149 Sep 06 02:16	8° Tp 51'14		retrograde	7155 Jun 15 01:04	1° ¥ 58'52	
retrograde	7150 Jan 12 18:49	28° Tp 21'59			7155 Jul 21 14:28	30°R≈	
min. Earth dist.	7150 Mar 11 22:16	23° Tp 30'04	4.12414 AU	opposition	7155 Aug 14 23:27	27° ≈ 06′23	0°09'08
opposition	7150 Mar 13 10:45	23° Mp 17'42	0°25'24	min. Earth dist.	7155 Aug 16 13:39	26° ≈ 54'11	4.37517 AU
direct	7150 May 11 10:17	18° TD 18'43		direct	7155 Oct 16 08:58	22° ≈ 06′01	
	7150 Aug 13 11:23	0∘ ⊽		desc. node	7155 Nov 11 07:39	23° ≈ 06′16	
evening set	7150 Sep 14 21:36	7° ჲ 03'28			7156 Jan 01 15:03	0° ℋ	
				evening set	7156 Feb 18 19:09	9° ∺ 57'51	
conjunction	7150 Sep 28 12:52	10° ≏ 08'14	0°30'35	max. Earth dist.	7156 Feb 29 07:00	12° 升 19′03	6.30486 AU
minimum elong	7150 Sep 28 12:50	10° ഫ 08'13	0°30'36				
max. Earth dist.	7150 Sep 30 16:20	10° ≏ 37'20	6.20750 AU	conjunction	7156 Mar 02 13:17	12°) 49′36	-0°08'04
morning rise	7150 Oct 12 03:53	13° ≏ 12'35		minimum elong	7156 Mar 02 13:17	12°) 49′36	0°08'03
	7151 Jan 14 14:39	0° M		behind sun begin	7156 Mar 02 06:09	12°) 45′36	
retrograde	7151 Feb 14 08:37	1°M29'23		behind sun end	7156 Mar 02 20:24	12°) 53′35	
-	7151 Mar 16 21:39	30° ₹ Ω		morning rise	7156 Mar 15 06:10	15°) 41′05	
min. Earth dist.	7151 Apr 14 07:11	26° Ω 36'18	4.28800 AU	Č	7156 May 28 12:54	0°Υ	
opposition	7151 Apr 15 09:33	26° Ω 27'29		retrograde	7156 Jul 17 09:31	3° Υ 39'19	
direct	7151 Jun 14 15:05	21° Ω 26'37	-	3	7156 Sep 06 10:17	30° R ₩	
	7151 Sep 02 21:25	0°M		opposition	7156 Sep 16 03:04	28°) 46'05	-0°32'08
evening set	7151 Oct 18 22:45	9°M26'00		min. Earth dist.	7156 Sep 17 16:23	28°\(\dagger34'05	4.22498 AU
	, 101 000 10 22.43	, mv=0 00		direct	7156 Nov 16 12:19	23°) (47'40	22 170 110
				311001	,1001,01 10 12.1)	20 /(7/70	

	7157 Jan 21 16:09	0°Υ		conjunction	7162 Oct 03 09:52	14° £ 54'32	0°33'53
evening set	7157 Mar 22 03:31	12° Υ 23'48		minimum elong	7162 Oct 03 09:51	14° £ 54'31	0°33'55
max. Earth dist.	7157 Apr 02 00:20	14° Y 55'36	6.14247 AU	max. Earth dist.	7162 Oct 05 09:09	15° ≏ 21'09	6.22831 AU
				morning rise	7162 Oct 17 00:23	17° ≏ 57'43	
conjunction	7157 Apr 03 22:10	15° Y 22′23	-0°34'20		7162 Dec 15 12:54	0° M	
minimum elong	7157 Apr 03 22:08	15° Y 22′22	0°34'21	retrograde	7163 Feb 18 19:22	6°M05'53	
morning rise	7157 Apr 16 17:12	18° Y 21′26		opposition	7163 Apr 19 20:45	1°M04'27	1°03'47
	7157 Jun 10 02:12	9° 8		min. Earth dist.	7163 Apr 18 21:13	1° M 12'19	4.30733 AU
retrograde	7157 Aug 22 08:46	7° 8 32'32			7163 Apr 27 23:35	30° ₽ Ω	
opposition	7157 Oct 21 16:24	2° 8 37'13		direct	7163 Jun 19 07:06	26° ≏ 03'26	
min. Earth dist.	7157 Oct 22 16:06	2° 8 29'28	4.06258 AU		7163 Aug 10 13:11	0°M	
	7157 Nov 11 21:05	30°RΥ		evening set	7163 Oct 23 13:33	13°M58'08	
direct	7157 Dec 20 16:13	27° Y 41′09			7163 Oct 28 07:26	15°M	
	7158 Jan 27 22:00	0°8			71(2)1 05 22 22	1.60 m 5212.6	0040144
. ,	7158 Apr 16 20:02	15° 8		conjunction	7163 Nov 05 23:22	16°M53'26	0°49'44
evening set	7158 Apr 25 15:17	17° 8 05'30		minimum elong max. Earth dist.	7163 Nov 05 23:22 7163 Nov 06 22:51	16°M53'25 17°M06'15	0°49'47 6.37801 AU
agnismation	7150 May 00 14:06	20° 8 12'20	0950!10		7163 Nov 19 07:26	17 11606 13 19°11647'43	0.37801 AU
conjunction minimum elong	7158 May 08 14:06	20°812'20	0°50'13	morning rise	7163 Nov 19 07:26 7164 Jan 09 06:14	19°11L47'43 0° 7	
max. Earth dist.	7158 May 08 14:05 7158 May 07 19:44	20° 8 01'15	5.99478 AU	retrograde	7164 Mar 20 06:56	6° ₹ ¹58'36	
morning rise	7158 May 07 19:44 7158 May 21 14:23	20° 8 20'16	3.99476 AU	opposition	7164 May 19 18:16	2° × ⁷ 00'44	1°15'39
morning risc	7158 Jun 19 05:13	0°II		min. Earth dist.	7164 May 19 12:03	2°×702'46	4.43403 AU
retrograde	7158 Sep 29 12:46	13° Ⅱ 40'10		iiiii. Lattii dist.	7164 Jun 04 14:34	30°RM	4.43403 AO
opposition	7158 Nov 28 08:10	8° Ⅱ 41'44	-1°17'25	direct	7164 Jul 20 09:17	26°M58'59	
min. Earth dist.	7158 Nov 28 09:04	8° I I41'26		uncet	7164 Sep 04 12:32	0° ⊼	
direct	7159 Jan 25 23:46	3° I I47'26	3.91.102110	evening set	7164 Nov 23 09:01	14° × ⁷ 23'29	
evening set	7159 Jun 01 07:07	23° I [44'31		ovening sev	71011101 25 05.01	1.7.202	
8				conjunction	7164 Dec 06 12:52	17° √ 12'44	0°50'53
conjunction	7159 Jun 14 12:50	26° ∏ 58'13	-0°47'22	minimum elong	7164 Dec 06 12:53	17° ∡ 12'44	0°50'58
minimum elong	7159 Jun 14 12:51	26° ∏ 58'13	0°47'27	max. Earth dist.	7164 Dec 06 05:50	17° ∡ ¹08'57	6.47268 AU
max. Earth dist.	7159 Jun 15 05:38	27° Ⅱ 08′28	5.91802 AU	morning rise	7164 Dec 19 14:36	20° ∡ ¹00'50	
	7159 Jun 26 23:10	0ಂತ		-	7165 Feb 08 06:49	0°ප	
morning rise	7159 Jun 27 21:18	0°513'26		retrograde	7165 Apr 19 01:30	6° る 40'44	
retrograde	7159 Nov 07 05:09	21°904'44		opposition	7165 Jun 18 19:27	1° る 45'57	1°07'00
opposition	7160 Jan 05 17:52	16° 5 02'43	-0°57'41	min. Earth dist.	7165 Jun 19 09:32	1° る 41'25	4.49181 AU
min. Earth dist.	7160 Jan 04 18:12	16°9510'43	3.91894 AU		7165 Jul 02 19:30	30°₽ ✓	
direct	7160 Mar 03 15:01	11° © 08'07		direct	7165 Aug 20 07:56	26° ∡ ⁴44'05	
	7160 Jul 03 15:11	$0^{\circ}\Omega$			7165 Oct 07 19:06	0°ප	
evening set	7160 Jul 08 05:08	1° Ω 05'48		evening set	7165 Dec 23 22:26	13° る 57'48	
conjunction	7160 Jul 21 18:06	4° Ω 21'38	-0°25'26	conjunction	7166 Jan 05 21:23	16° る 44'30	0°38'32
minimum elong	7160 Jul 21 18:07	4°Ω21'39		minimum elong	7166 Jan 05 21:25	16° ප් 44'31	0°38'37
max. Earth dist.	7160 Jul 23 18:12	4°Ω50'40	5.94568 AU	max. Earth dist.	7166 Jan 04 12:45	16° පි 26'57	6.48913 AU
morning rise	7160 Aug 04 09:33	7° Ω 38'37	2.5 1.000 110	morning rise	7166 Jan 18 17:58	19° る 30'08	0.10715110
8	7160 Sep 05 05:30	15° Ω		5 6 21	7166 Mar 13 08:52	0° ≈	
retrograde	7160 Dec 13 15:03	28° Ω 05'09		retrograde	7166 May 19 01:16	6°≈08'51	
min. Earth dist.	7161 Feb 09 14:05	23° Ω 13'11	3.99678 AU	opposition	7166 Jul 19 00:28	1°≈15'55	0°41'12
opposition	7161 Feb 11 02:21	23° Ω 00′50	-0°14'46	min. Earth dist.	7166 Jul 20 05:55	1° ≈ 06'31	4.46643 AU
direct	7161 Apr 10 05:59	18° Ω 04'05			7166 Jul 29 00:44	30°₹ ⋜	
asc. node	7161 Jun 13 23:11	24° Ω 24'00		direct	7166 Sep 19 18:00	26° ප 14'34	
	7161 Jul 12 11:43	0° m			7166 Nov 10 21:15	0° ≈	
evening set	7161 Aug 14 19:55	7° m 30'07		evening set	7167 Jan 23 04:15	13° ≈ 38'47	
					7167 Jan 29 09:30	15° ≈	
conjunction	7161 Aug 28 12:24	10° m 41'52	0°06'02	max. Earth dist.	7167 Feb 02 22:15	15° ≈ 59'28	6.42313 AU
minimum elong	7161 Aug 28 12:23	10° ™ 41'52	0°06'01				
behind sun begin	7161 Aug 28 04:25	10° ™ 37'14		conjunction	7167 Feb 04 23:40	16° ≈ 26′32	0°15'57
behind sun end	7161 Aug 28 20:21	10°M/46'30		minimum elong	7167 Feb 04 23:40	16° ≈ 26'33	0°16'01
max. Earth dist.	7161 Aug 31 00:38	11° m 17'05	6.06549 AU	behind sun begin	7167 Feb 04 22:40	16° ≈ 25'59	
morning rise	7161 Sep 11 06:01	13° m 53'56		behind sun end	7167 Feb 05 00:41	16° ≈ 27'06	
_	7161 Dec 02 12:42	0∘ ⊽		morning rise	7167 Feb 17 17:06	19°≈13'34	
retrograde	7162 Jan 17 11:41	3° £ 15'11		_	7167 Apr 12 16:36	0°) (
	7162 Mar 04 11:45	30°R Mp	4 1 4 4 0 4	retrograde	7167 Jun 19 10:51	6° ¥ 21'38	0002125
min. Earth dist.	7162 Mar 16 16:08	28° Mp 23'27	4.14484 AU	opposition	7167 Aug 19 09:31	1°) (29'09	0°03'37
opposition	7162 Mar 18 04:21	28° Mp 11'11	0°31'19	min. Earth dist.	7167 Aug 21 00:33	1°) 16'42	4.36317 AU
direct	7162 May 16 06:23	23° Mp 11'56		J 1	7167 Aug 31 04:58	30°R≈	
avanina ast	7162 Jul 24 05:17	0° ჲ 11° ჲ 50'54		desc. node	7167 Sep 23 06:49 7167 Oct 20 17:19	27°≈36'30 26°≈29'02	
evening set	7162 Sep 19 19:14	11 == 30 34		direct	/10/ 00: 20 1/.19	20 ~ 2902	

	7167 Dec 09 08:27	0° ∀		conjunction	7173 Sep 02 15:35	15° m 44'26	0°10'19
evening set	7168 Feb 23 02:28	14°) 24′04		minimum elong	7173 Sep 02 15:35	15° Mp 44'26	0°10'17
max. Earth dist.	7168 Mar 04 12:43		6.28966 AU	behind sun begin	7173 Sep 02 09:00	15° m 40'37	
				behind sun end	7173 Sep 02 22:09	15° m 48'14	
conjunction	7168 Mar 06 20:15	17° ₩ 16'19	-0°11'50	max. Earth dist.	7173 Sep 05 02:33	16° m) 18'46	6.08076 AU
minimum elong	7168 Mar 06 20:14	17° ₩ 16'18	0°11'48	morning rise	7173 Sep 16 09:21	18° m 55'46	
behind sun begin	7168 Mar 06 14:35	17° ∺ 13′08			7173 Nov 07 02:37	0∘ ত	
behind sun end	7168 Mar 07 01:53	17° ∺ 19′29		retrograde	7174 Jan 22 04:14	8° ≏ 08'45	
morning rise	7168 Mar 19 13:18	20° ₩ 08'26		min. Earth dist.	7174 Mar 21 10:46	3° ≏ 16'49	4.16281 AU
	7168 May 05 09:41	$0^{\circ}\Upsilon$		opposition	7174 Mar 22 22:04	3° ჲ 04'52	0°36'52
retrograde	7168 Jul 22 01:51	8° Ƴ 13'47			7174 Apr 16 14:37	30°R, Mp	
opposition	7168 Sep 20 18:33	3° Y 20′17	-0°37'21	direct	7174 May 21 04:01	28° Mp 05'15	
min. Earth dist.	7168 Sep 22 07:04	3° Y 08'31	4.20733 AU		7174 Jun 25 01:28	0० ⊽	
	7168 Oct 19 05:54	30° ₹ ₩		evening set	7174 Sep 24 16:59	16° ≏ 38'59	
direct	7168 Nov 21 00:34	28°) 22′04					
	7168 Dec 23 14:39	$0^{\circ}\Upsilon$		conjunction	7174 Oct 08 07:19	19° ≏ 41'36	0°36'54
evening set	7169 Mar 26 15:18	17° Ƴ 03'17		minimum elong	7174 Oct 08 07:18	19° ≙ 41'35	0°36'56
max. Earth dist.	7169 Apr 06 15:31	19° Ƴ 37'38	6.12389 AU	max. Earth dist.	7174 Oct 10 05:52	20° ≏ 07'41	6.24761 AU
				morning rise	7174 Oct 21 20:57	22° ≙ 43'35	
conjunction	7169 Apr 08 10:24	20° Ƴ 02'47			7174 Nov 24 23:05	0°M	
minimum elong	7169 Apr 08 10:22	20° Y 02'46	0°37'15	retrograde	7175 Feb 23 05:20	10°M43'12	
morning rise	7169 Apr 21 05:44	23° Y 02'48		min. Earth dist.	7175 Apr 23 10:00	5° ™ 49'33	4.32616 AU
	7169 May 22 00:52	$0^{\circ}S$		opposition	7175 Apr 24 08:14	5°M42'10	1°06'41
retrograde	7169 Aug 27 08:30	12° 8 22'52		direct	7175 Jun 23 22:35	0°M40'58	
opposition	7169 Oct 26 14:25	7° 8 27'13			7175 Oct 11 17:32	15° M	
min. Earth dist.	7169 Oct 27 12:41	_	4.04458 AU	evening set	7175 Oct 28 04:50	18°M30'39	
direct	7169 Dec 25 09:59	2° 8 31'25					
	7170 Mar 31 03:37	15° 8		conjunction	7175 Nov 10 13:41	21° M 24'55	0°50'44
evening set	7170 Apr 30 09:48	22° 8 01'09		minimum elong	7175 Nov 10 13:40	21° M 24'54	0°50'48
				max. Earth dist.	7175 Nov 11 08:23	21°M35'05	6.39470 AU
conjunction	7170 May 13 09:15	25° 8 09'02		morning rise	7175 Nov 23 20:59	24°M18'10	
minimum elong	7170 May 13 09:14	25° 8 09'01	0°51'00		7175 Dec 21 01:22	0° ∡	
max. Earth dist.	7170 May 12 16:46	24° 8 59'04	5.97891 AU	retrograde	7176 Mar 24 13:28	11° ≯ 22'48	
morning rise	7170 May 26 10:41	28° 8 18'10		opposition	7176 May 24 01:37		1°15'33
	7170 Jun 02 12:59	0°II		min. Earth dist.	7176 May 23 22:32	6° ₹ 26'18	4.44727 AU
retrograde	7170 Oct 04 16:17	18° Ⅱ 45'40	1016105	direct	7176 Jul 24 21:19	1°×23'23	
opposition	7170 Dec 03 11:01	13° Ⅱ 46'45		evening set	7176 Nov 27 18:18	18° ∡ ⁴44'39	
min. Earth dist.	7170 Dec 03 08:22		3.93261 AU				
direct	7171 Jan 30 22:16	8°II52'27		conjunction	7176 Dec 10 21:32	21° ₹ 33'17	
evening set	7171 Jun 06 08:12	28° I 53'07		minimum elong	7176 Dec 10 21:33	21° 🗷 33'17	0°49'56
	7171 Jun 10 22:07	0ංම		max. Earth dist.	7176 Dec 10 12:09	21°×728'14	6.48123 AU
	7171 1 10 15 00	20507142	0045105	morning rise	7176 Dec 23 22:18	24° ₹ 20'43	
conjunction	7171 Jun 19 15:08	2°907'42		. 1	7177 Jan 20 06:48	0°る	
minimum elong	7171 Jun 19 15:09	2°907'43		retrograde	7177 Apr 23 05:00	10°る58'04	1904!12
max. Earth dist.	7171 Jun 20 12:34 7171 Jul 03 00:40	2°920'48	5.91124 AU	opposition	7177 Jun 23 01:16	6° る 03'32	1°04'13 4.49497 AU
morning rise	7171 Jul 03 00:40 7171 Nov 12 10:44	5°\$23'45 26°\$17'09		min. Earth dist. direct	7177 Jun 23 16:48 7177 Aug 24 14:50	1°る01'42	4.4949 / AU
retrograde opposition	7171 Nov 12 10.44 7172 Jan 10 21:31	20 \$1709 21°\$14'44	0°52!54	evening set	7177 Aug 24 14:50 7177 Dec 28 04:52	18° ප 14'57	
min. Earth dist.	7172 Jan 10 21:31 7172 Jan 09 20:41	21°923'09		max. Earth dist.	7177 Dec 28 04.32 7178 Jan 08 15:16		6.48645 AU
direct	7172 Jan 09 20:41 7172 Mar 08 18:34	16°9519'54	3.91813 AU	max. Earth dist.	/1/8 Jan 08 15.10	20 042 11	0.48043 AU
uncei	7172 Mar 08 18:34 7172 Jun 16 12:06	0°Ω		conjunction	7178 Jan 10 03:06	21° る 01'29	0°35'50
evening set	7172 Jul 13 09:40	6° Ω 17'25		minimum elong	7178 Jan 10 03:07	21°る01'29	
evening set	/1/2 Jul 15 07.40	0 661723		morning rise	7178 Jan 22 23:06	23°る47'00	0 33 33
conjunction	7172 Jul 26 23:37	9° Ω 33'26	-0°21'27	morning risc	7178 Feb 22 00:46	0°≈	
minimum elong	7172 Jul 26 23:38	9° Ω 33'27		retrograde	7178 May 23 09:21	0 ~ 10° ≈ 27'26	
max. Earth dist.	7172 Jul 20 23:38 7172 Jul 29 03:29	10° Ω 04'40	5.95101 AU	opposition	7178 Jul 23 08:17	5°≈34'40	0°36'24
morning rise	7172 Jul 29 05:29 7172 Aug 09 15:52	12° Ω 50'30	3.93101710	min. Earth dist.	7178 Jul 24 16:30	5°≈24'23	4.45785 AU
	7172 Aug 07 13:32 7172 Aug 18 18:23	12 θ (30 30		direct	7178 Sep 24 02:35	0°≈33'25	
	7172 Nov 03 07:12	0° m			7178 Sep 24 02:33	0 ≈ 33 23	
retrograde	7172 Nov 03 07:12 7172 Dec 18 15:32	3° Mp 12'26		evening set	7179 Jan 27 11:02	13 ~ 18° ≈ 00'19	
	7172 Bec 18 13:32 7173 Feb 02 01:31	30°RΩ		max. Earth dist.	7179 Feb 07 01:44		6.40909 AU
min. Earth dist.	7173 Feb 14 12:34		4.00764 AU				
opposition	7173 Feb 16 02:12	28° Ω 08'00		conjunction	7179 Feb 09 06:04	20° ≈ 48'27	0°12'12
direct	7173 Apr 15 06:26	23° Ω 10'55		minimum elong	7179 Feb 09 06:04	20°≈48'27	0°12'15
asc. node	7173 Apr 25 05:41	23° Ω 21'05		behind sun begin	7179 Feb 09 00:42	20°≈45'31	
	7173 Jun 21 21:33	0° m)		behind sun end	7179 Feb 09 11:26	20°≈51'23	
evening set	7173 Aug 19 23:05	12° m) 33'21		morning rise	7179 Feb 21 23:21	23°≈35'57	
<i>5</i>		4		<i>3</i>	*		

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	7179 Mar 24 06:34	0°) €		min. Earth dist.	7185 Feb 19 14:20	3° m 36'08	4.02740 AU
retrograde	7179 Jun 23 23:57	10° ¥ 50′09		opposition	7185 Feb 21 04:51	3° m/23'00	
desc. node	7179 Aug 02 19:05	8° ¥ 30′57		asc. node	7185 Mar 04 10:50	1° m) 52'42	0 0121
opposition	7179 Aug 23 22:27	5° ¥ 57'35	-0°02'12	use. Houe	7185 Mar 20 17:19	30°RΩ	
	Č	5° \ 45'07	4.34441 AU	direct		28° Ω 25'33	
min. Earth dist.	7179 Aug 25 13:26		4.54441 AU	direct	7185 Apr 20 11:57		
direct	7179 Oct 25 02:57	0°) € 57'39			7185 May 21 11:01	0° M)	
evening set	7180 Feb 27 13:01	18°) € 58'18		evening set	7185 Aug 25 03:59	17° Mp 41'02	
max. Earth dist.	7180 Mar 09 01:02	21° H 20'50	6.26758 AU				
				conjunction	7185 Sep 07 20:32	20° m 50'59	0°14'38
conjunction	7180 Mar 11 06:56	21° 米 51′26		minimum elong	7185 Sep 07 20:32	20° m/50'58	0°14'37
minimum elong	7180 Mar 11 06:55	21°) 51′26	0°15'43	behind sun begin	7185 Sep 07 17:15	20° m 49'05	
behind sun begin	7180 Mar 11 04:53	21° ¥ 50′17		behind sun end	7185 Sep 07 23:48	20° m 52'52	
behind sun end	7180 Mar 11 08:56	21°) 52'35		max. Earth dist.	7185 Sep 10 08:25	21° m 25'39	6.10504 AU
morning rise	7180 Mar 23 23:58	24°) 44'29		morning rise	7185 Sep 21 13:46	24° m 00'58	
Č	7180 Apr 16 19:32	$0^{\circ}\mathbf{Y}$		Ü	7185 Oct 18 09:42	0∘ ⊽	
retrograde	7180 Jul 27 00:17	12°Υ59'40		retrograde	7186 Jan 26 20:43	13° ഫ 02'23	
opposition	7180 Sep 25 15:28	8° Υ 06'00	0°42'42	min. Earth dist.	7186 Mar 26 05:31	8° ₽ 10'16	4.18901 AU
min. Earth dist.	*	7° Υ 54'21					
	7180 Sep 27 03:34		4.18338 AU	opposition	7186 Mar 27 15:31	7° £ 58'48	0°42'12
direct	7180 Nov 25 17:20	3° Y ′08′09		direct	7186 May 26 02:31	2° ≏ 58'56	
evening set	7181 Mar 31 08:56	21° Y 56'40		evening set	7186 Sep 29 13:36	21° ≏ 24'48	
max. Earth dist.	7181 Apr 11 10:39	24° Y 32'48	6.10002 AU				
				conjunction	7186 Oct 13 03:06	24° ≙ 25'59	0°39'42
conjunction	7181 Apr 13 04:18	24° Ƴ 57'21	-0°40'04	minimum elong	7186 Oct 13 03:04	24° ≏ 25'58	0°39'43
minimum elong	7181 Apr 13 04:17	24° Ƴ 57′20	0°40'06	max. Earth dist.	7186 Oct 14 21:51	24° ≏ 49'49	6.27334 AU
morning rise	7181 Apr 26 00:26	27° Y 58'43		morning rise	7186 Oct 26 15:59	27° £ 26'31	
•	7181 May 04 16:33	0°8			7186 Nov 07 08:28	0° M .	
	7181 Jul 23 06:50	15° 8			7187 Feb 14 16:43	15° M ₊	
retrograde	7181 Sep 01 14:37	17° 8 29'57		retrograde	7187 Feb 27 12:26	15°M16'00	
retrograde	7181 Oct 12 07:53	17 02 2537		renograde	7187 Mar 12 07:42	15°RM	
			1011151				1900100
opposition	7181 Oct 31 19:29	12° 8 33'55		opposition	7187 Apr 28 17:47	10°M 15'23	1°09'09
min. Earth dist.	7181 Nov 01 14:04		4.02300 AU	min. Earth dist.	7187 Apr 27 21:59	10°ML21'57	4.34942 AU
direct	7181 Dec 30 09:32	7° 8 38'25		direct	7187 Jun 28 13:05	5° M 13′58	
	7182 Mar 10 23:34	15° 8			7187 Sep 23 23:13	15° M	
evening set	7182 May 05 11:48	27° 8 14'52		evening set	7187 Nov 01 16:57	22°M57'32	
	7182 May 16 20:46	Π $^{\circ}0$					
				conjunction	7187 Nov 15 01:03	25° ™ 50'42	0°51'26
conjunction	7182 May 18 12:18	0° Ⅱ 23'59	-0°51'24	minimum elong	7187 Nov 15 01:03	25°M50'42	0°51'31
minimum elong	7182 May 18 12:17	0° Ⅱ 23'59	0°51'29	max. Earth dist.	7187 Nov 15 16:41	25°M59'11	6.41376 AU
max. Earth dist.	7182 May 18 01:47	0° Ⅱ 17'37	5.96184 AU	morning rise	7187 Nov 28 07:11	28°M42'46	
morning rise	7182 May 31 14:40	3° ∏ 34'24		-	7187 Dec 04 07:28	0° ∡ ¹	
retrograde	7182 Oct 10 05:17	24° Ⅱ 09'40		retrograde	7188 Mar 28 16:03	15° ∡ ′41′03	
opposition	7182 Dec 08 21:28	19° Ⅱ 10'18	-1°15'04	opposition	7188 May 28 06:21	10° ∡ ′44′01	1°15'02
min. Earth dist.	7182 Dec 08 16:12		3.92209 AU	min. Earth dist.	7188 May 28 05:50	10° × 744'10	4.46089 AU
direct	7183 Feb 05 05:46	14° I I12'07	3.72207 110	direct	7188 Jul 29 05:48	5°×7'42'04	4.40007710
uncci		0°9		evening set	7188 Dec 02 00:55	23°×100'16	
	7183 May 24 15:09 7183 Jun 11 16:42	4° © 19'30		•			C 40020 ATT
evening set	/183 Jun 11 10:42	4-91930		max. Earth dist.	7188 Dec 14 11:57	25° ∡ ¹40'07	6.48829 AU
	7102 L 25 00 40	7062 4147	0942157		7100 D 15 00 10	250 74045	0949125
conjunction	7183 Jun 25 00:48	7°934'47		conjunction	7188 Dec 15 03:12	25° 🗷 48'17	0°48'35
minimum elong	7183 Jun 25 00:49	7° 9 34'48		minimum elong	7188 Dec 15 03:13	25° ∡ ¹48'18	0°48'40
max. Earth dist.	7183 Jun 26 03:42	7° © 51'14	5.90842 AU	morning rise	7188 Dec 28 03:20	28° ∡ ³35′11	
morning rise	7183 Jul 08 11:34	10° © 51'33			7189 Jan 03 19:28	0°₹	
	7183 Oct 15 22:31	$0 {\circ} \Omega$		retrograde	7189 Apr 27 08:43	15° る 10'50	
retrograde	7183 Nov 17 21:18	1° Ω 44'38		opposition	7189 Jun 27 05:07	10° る 16'37	1°01'10
	7183 Dec 20 16:01	30°Rூ		min. Earth dist.	7189 Jun 28 00:23	10° る 10'25	4.49515 AU
min. Earth dist.	7184 Jan 15 02:45	26°\$51'28	3.92379 AU	direct	7189 Aug 28 21:19	5° る 14'43	
opposition	7184 Jan 16 07:03	26°541'53	-0°47'21	evening set	7190 Jan 01 09:10	22° る 28'35	
direct	7184 Mar 14 02:50	21° © 46'53		max. Earth dist.	7190 Jan 12 16:15		6.47962 AU
anov	7184 May 27 06:08	0°N		man. Bartin diot.	7170 0411 12 10.10	2. 00.17	0.1702110
evening set	7184 Jul 18 19:30	0 3 <i>t</i> 11° Ω 41'29		conjunction	7190 Jan 14 07:01	25° る 15'11	0°32'59
evening set	/104 Jul 10 17.30	11 0641 29					
	7104 4 01 00 70	1.40 0.5510.0	0017107	minimum elong	7190 Jan 14 07:02	25° る 15'11	0°33'04
conjunction	7184 Aug 01 09:59	14° Ω 57'09		morning rise	7190 Jan 27 02:27	28° る 00'46	
minimum elong	7184 Aug 01 10:00	14° Ω 57'09	0°17'07		7190 Feb 05 10:29	0° ≈	
	7184 Aug 01 14:45	15° Ω		retrograde	7190 May 27 15:04	14° ≈ 44'27	
max. Earth dist.	7184 Aug 03 15:40	15° Ω 29'21	5.96450 AU	opposition	7190 Jul 27 15:12	9° ≈ 51'45	0°31'29
morning rise	7184 Aug 15 02:54	18° Ω 13'48		min. Earth dist.	7190 Jul 29 00:27	9° ≈ 41′08	4.44443 AU
	7184 Oct 07 13:36	0° ™		direct	7190 Sep 28 07:36	4° ≈ 50'36	
retrograde	7184 Dec 23 16:35	8° m 27′34			7190 Dec 27 10:30	15° ≈	

evening set max. Earth dist.	7191 Jan 31 17:14 7191 Feb 11 06:40	22°≈21'44 24°≈41'04	6.38997 AU	conjunction minimum elong behind sun begin	7196 Aug 06 20:12 7196 Aug 06 20:13 7196 Aug 06 14:57	20°Ω18'12 20°Ω18'13 20°Ω15'05	-0°12'34 0°12'37
conjunction minimum elong	7191 Feb 13 11:58 7191 Feb 13 11:58	25°≈10′29 25°≈10′29	0°08'25 0°08'28	behind sun end max. Earth dist.	7196 Aug 07 01:28 7196 Aug 09 05:30	20° Ω 21'21 20° Ω 52'25	5.98282 AU
behind sun begin	7191 Feb 13 04:59	25°≈06'39		morning rise	7196 Aug 20 13:19	23° Ω 34'05	
behind sun end	7191 Feb 13 18:57	25°≈14'20		C	7196 Sep 17 13:01	0° m)	
morning rise	7191 Feb 26 05:06	27° ≈ 58'40		retrograde	7196 Dec 28 17:22	13° m 37'43	
	7191 Mar 07 11:42	0°) €		asc. node	7197 Jan 11 10:36	13° m)18'42	
desc. node	7191 Jun 12 17:18	14°) ₹ 57'19		min. Earth dist.	7197 Feb 24 15:36	8° m 46'09	4.05061 AU
retrograde	7191 Jun 28 15:32	15° ¥ 20′51		opposition	7197 Feb 26 05:50	8° m 33'09	0°05'27
opposition	7191 Aug 28 12:24	10°) 28′13	-0°08'01	direct	7197 Apr 25 16:42	3° Mp 35'21	
min. Earth dist.	7191 Aug 30 04:50	10° 升 15′17	4.32058 AU	evening set	7197 Aug 30 07:08	22° M 42'58	
direct	7191 Oct 29 14:48	5°) 28′30					
evening set	7192 Mar 03 00:57	23°) ₹36′25		conjunction	7197 Sep 12 23:23	25° m 51'38	0°18'49
max. Earth dist.	7192 Mar 13 12:33	25° ¥ 59'36	6.24090 AU	minimum elong	7197 Sep 12 23:22	25° m 51'37	0°18'49
				max. Earth dist.	7197 Sep 15 09:37	26° m 25'07	6.13077 AU
conjunction	7192 Mar 15 18:54	26° ∺ 30′39		morning rise	7197 Sep 26 16:20	29° m 00'16	
minimum elong	7192 Mar 15 18:53	26° ∺ 30'38	0°19'34		7197 Oct 01 01:27	0∘ ⊽	
morning rise	7192 Mar 28 12:20	29°) €24'55		retrograde	7198 Jan 31 09:36	17° ≙ 50'09	
	7192 Mar 31 02:10	0° Υ		min. Earth dist.	7198 Mar 30 22:05	12° ≙ 58′00	4.21486 AU
retrograde	7192 Aug 01 00:10	17° Y 51'35		opposition	7198 Apr 01 07:02	12° ≙ 46'55	0°47'12
opposition	7192 Sep 30 14:34	12° Y 57'37		direct	7198 May 30 22:12	7° ≏ 46'47	
min. Earth dist.	7192 Oct 02 00:06	12° Y 46'47	4.15590 AU	evening set	7198 Oct 04 08:22	26° ≏ 05'23	
direct	7192 Nov 30 10:36	8°Υ00'06			7100 0 + 17 01 10	200 0 0511 5	0040112
evening set	7193 Apr 05 05:20	26° Y 57'08	C 07420 ATT	conjunction	7198 Oct 17 21:12	29° ₽ 05'15	0°42'13
max. Earth dist.	7193 Apr 16 12:35	29° Ƴ 37′23	6.07430 AU	minimum elong	7198 Oct 17 21:10	29° ₽ 05'15	0°42'15
agnismation	7102 Apr. 19 01:22	29° Ƴ 59'12	0942120	max. Earth dist.	7198 Oct 19 12:16 7198 Oct 21 23:53	29° £ 26'56 0° I L	6.29735 AU
conjunction	7193 Apr 18 01:22	29 γ 39 12 29° γ 59'11		morning rise	7198 Oct 21 23.33 7198 Oct 31 09:05	2°ML04'23	
minimum elong	7193 Apr 18 01:21 7193 Apr 18 02:44	0° 8	0 42 41	morning rise	7198 Oct 31 09.03 7199 Jan 05 17:34	2 1160423 15°M	
morning rise	7193 Apr 30 22:08	3° 8 01'59		retrograde	7199 Mar 03 20:19	19° M .44'49	
morning risc	7193 Apr 30 22:08 7193 Jun 25 00:11	15° 8		renograde	7199 May 01 04:17	15 NG+4-49	
retrograde	7193 Sep 07 02:38	22° 8 44'54		min. Earth dist.	7199 May 02 09:39	14°ML50'18	4.36983 AU
opposition	7193 Nov 06 03:55	17° 8 48'28	-1°14'07	opposition	7199 May 03 02:16	14°M44'48	1°11'14
min. Earth dist.	7193 Nov 06 19:56		4.00156 AU	direct	7199 Jul 03 02:52	9° M 43'19	1 11 17
min. Burm digt.	7193 Nov 28 22:05	15°R₩			7199 Sep 02 21:43	15° M ₊	
direct	7194 Jan 04 13:34	12° 8 53'15		evening set	7199 Nov 06 04:31	27°ML22'01	
	7194 Feb 09 16:31	15° 8		<i>3</i>	7199 Nov 18 09:23	0° ∡ ¹	
	7194 Apr 29 20:35	0°II					
evening set	7194 May 10 16:55	2° Ⅱ 35'56		conjunction	7199 Nov 19 11:44	0° ∡ 14'14	0°51'53
				minimum elong	7199 Nov 19 11:43	0° ∡ 14'14	0°51'57
conjunction	7194 May 23 18:25	5° ∏ 46′14	-0°51'26	max. Earth dist.	7199 Nov 19 22:02	0° ∡ 19'49	6.42905 AU
minimum elong	7194 May 23 18:25	5° Ⅱ 46'14	0°51'30	morning rise	7199 Dec 02 17:04	3° х ¹05′23	
max. Earth dist.	7194 May 23 13:19	5° Ⅱ 43'09	5.94684 AU	retrograde	7200 Apr 01 19:50	19° ∡ ¹58'47	
morning rise	7194 Jun 05 22:03	8° ∏ 57'54		opposition	7200 Jun 01 11:17	15° ∡ 02'13	1°14'10
retrograde	7194 Oct 15 18:37	29° ∏ 39'19		min. Earth dist.	7200 Jun 01 13:47	15° ∡ *01′25	4.47042 AU
opposition	7194 Dec 14 10:06	24° ∐ 39′25		direct	7200 Aug 02 13:32	10° ∡ ¹00'14	
min. Earth dist.	7194 Dec 14 00:03		3.91561 AU	evening set	7200 Dec 06 07:45	27° ∡ 16'48	
direct	7195 Feb 10 14:05	19° ∏ 45′18					
	7195 May 05 12:01	0.20 0.20		conjunction	7200 Dec 19 09:31	0°る04'28	0°47'03
evening set	7195 Jun 17 03:19	9° 5 49'24		minimum elong	7200 Dec 19 09:31	0°る04'28	0°47'09
	7105 X 20 10 01	120505102	0040104	max. Earth dist.	7200 Dec 18 15:27	29° ∡ 754'47	6.49144 AU
conjunction	7195 Jun 30 12:21	13°505'03			7200 Dec 19 01:11	0°る	
minimum elong max. Earth dist.	7195 Jun 30 12:22 7195 Jul 01 19:38	13°505'04	0°40'09 5.91092 AU	morning rise	7201 Jan 01 08:45	2°る50'58 19°る26'18	
morning rise	7195 Jul 14 00:15	13° © 24'09 16° © 22'10	3.91092 AU	retrograde opposition	7201 May 01 12:43 7201 Jul 01 10:25	19 3 2618	0°57'47
morning 11sc	7195 Jul 14 00:13 7195 Sep 14 00:13	0°Ω		min. Earth dist.	7201 Jul 01 10:25 7201 Jul 02 07:43	14°る32′26 14°る25′36	4.49183 AU
retrograde	7195 Nov 23 05:47	7° Ω 12'08		direct	7201 Sep 02 03:09	9° る 30'41	4.47163 AC
min. Earth dist.	7196 Jan 20 09:32	2° Ω 19'23	3.93481 AU	evening set	7201 Sep 02 03:09 7202 Jan 05 15:06	9 03041 26°ත46'14	
opposition	7196 Jan 21 16:24	2° Ω 08'54		max. Earth dist.	7202 Jan 16 17:38	20° ろ 09'53	6.46996 AU
-Phonuon	7196 Feb 07 02:17	2 8.0 00 5∓	, <u></u>	Dartii dist.	.2020011 10 17.50	_,,,,,,	30770 110
direct	7196 Mar 19 13:18	27°9513'34		conjunction	7202 Jan 18 12:18	29° る 32'58	0°29'55
	7196 Apr 29 15:30	0°Ω		minimum elong	7202 Jan 18 12:19	29° る 32'59	0°29'59
	7196 Jul 15 12:35	15° Ω			7202 Jan 20 14:16	0° ≈	
evening set	7196 Jul 24 05:00	17° Ω 03′08		morning rise	7202 Jan 31 07:27	2°≈18'48	
					7202 Apr 08 13:08	15° ≈	

						_	
retrograde	7202 Jun 01 01:44	19° ≈ 06'46		direct	7208 Mar 24 19:49	2° Ω 31'31	
	7202 Jul 26 00:25	15°R ≈			7208 Jun 27 19:26	15° Ω	
opposition	7202 Aug 01 00:37	14° ≈ 14′13	0°26'17	evening set	7208 Jul 29 10:23	22° Ω 14'50	
min. Earth dist.	7202 Aug 02 12:21	14°≈02'49	4.42895 AU				
direct	7202 Oct 02 16:51	9° ≈ 13'14		conjunction	7208 Aug 12 01:50	25° Ω 29'05	-0°08'09
	7202 Dec 07 02:46	15° ≈		minimum elong	7208 Aug 12 01:50	25° Ω 29'05	0°08'12
evening set	7203 Feb 05 01:38	26°≈49'15		behind sun begin	7208 Aug 11 18:26	25° Ω 24'42	0 00 12
•			(2(001 AII	_	-		
max. Earth dist.	7203 Feb 15 13:54	29° ≈ 08'34	6.36981 AU	behind sun end	7208 Aug 12 09:14	25° Ω 33'27	C 00000 + **
				max. Earth dist.	7208 Aug 14 11:47	26° Ω 03'29	6.00329 AU
conjunction	7203 Feb 17 20:16	29° ≈ 38'43	0°04'29	morning rise	7208 Aug 25 19:19	28° Ω 44'04	
minimum elong	7203 Feb 17 20:17	29° ≈ 38'43	0°04'32		7208 Aug 31 04:53	0° m y	
behind sun begin	7203 Feb 17 12:28	29° ≈ 34'25		asc. node	7208 Nov 21 19:51	15° m 53′49	
behind sun end	7203 Feb 18 04:06	29° ≈ 43'02		retrograde	7209 Jan 02 11:14	18° m ∕37′04	
	7203 Feb 19 10:40	0° ∀		min. Earth dist.	7209 Mar 01 11:18	13° m) 45'41	4.07423 AU
morning rise	7203 Mar 02 13:17	2°) 27'40		opposition	7209 Mar 03 01:58	13° m 32'32	0°11'55
desc. node	7203 Apr 21 12:09	12°) (41'01		direct	7209 Apr 30 15:57	8° Mp 34'20	0 1133
	•	19°) 58'16			•		
retrograde	7203 Jul 03 07:44			evening set	7209 Sep 04 05:52	27° m/34'24	
opposition	7203 Sep 02 04:52	15°) €05'34			7209 Sep 14 20:48	0∘ ত	
min. Earth dist.	7203 Sep 03 20:08	14° ∺ 53′00	4.29716 AU				
direct	7203 Nov 03 02:30	10°) €06′12		conjunction	7209 Sep 17 21:49	0° ≏ 41'48	0°22'42
evening set	7204 Mar 07 15:11	28° ∺ 21'14		minimum elong	7209 Sep 17 21:48	0° ≏ 41'47	0°22'42
	7204 Mar 14 20:00	0 $^{\circ}$ $\mathbf{\Upsilon}$		max. Earth dist.	7209 Sep 20 05:15	1° ≏ 13'31	6.15542 AU
max. Earth dist.	7204 Mar 18 05:16	0° Ƴ 46'39	6.21618 AU	morning rise	7209 Oct 01 14:12	3° ≏ 49'04	
man. Darm diot.	,20111a1 10 00.10	0 1 .035	0.21010110	retrograde	7210 Feb 04 21:07	22° ₽ 28'18	
conjunction	7204 Mar 20 00:15	1° Υ 16'32	0022122	opposition		17° Ω 25'27	0°51'43
•	7204 Mar 20 09:15				7210 Apr 05 18:37		
minimum elong	7204 Mar 20 09:14	1° Υ 16'31	0°23'24	min. Earth dist.	7210 Apr 04 12:41	17° ≏ 35'31	4.23824 AU
morning rise	7204 Apr 02 02:58	4° Ƴ 11'57		direct	7210 Jun 04 15:28	12° ≏ 25'03	
retrograde	7204 Aug 06 04:44	22° Ƴ 49'37			7210 Oct 06 03:08	0° M	
opposition	7204 Oct 05 16:14	17° Ƴ 55'27	-0°52'48	evening set	7210 Oct 08 23:25	0°M37'25	
min. Earth dist.	7204 Oct 07 00:27	17° Ƴ 45′00	4.13188 AU				
direct	7204 Dec 05 08:21	12° Y 58'19		conjunction	7210 Oct 22 11:37	3°M36'10	0°44'25
	7205 Apr 01 10:25	0°8		minimum elong	7210 Oct 22 11:36	3°M36'10	0°44'28
evening set	7205 Apr 10 03:16	2° 8 02'27		max. Earth dist.	7210 Oct 22 11:30 7210 Oct 23 23:12	3°M55'49	6.31765 AU
evening set	7203 Apr 10 03.10	2 00227					0.51705 AU
				morning rise	7210 Nov 04 22:41	6°M34'06	
conjunction	7205 Apr 22 23:51	5° 8 05'41			7210 Dec 15 13:14	15°M	
minimum elong	7205 Apr 22 23:50	5° 8 05'40	0°45'02	retrograde	7211 Mar 08 00:11	24°M07'01	
max. Earth dist.	7205 Apr 21 14:50	4° 8 46'01	6.05333 AU	opposition	7211 May 07 08:03	19° ™ 07'28	1°12'53
morning rise	7205 May 05 21:26	8° 8 09'45		min. Earth dist.	7211 May 06 17:29	19° M 12'17	4.38590 AU
	7205 Jun 04 15:58	15° 8			7211 Jun 13 08:39	15°RM	
retrograde	7205 Sep 12 11:43	28° 8 02'17		direct	7211 Jul 07 11:21	14°M05'52	
opposition	7205 Nov 11 12:37	23° 8 05'24	-1°15'50		7211 Jul 31 21:53	15° ™	
min. Earth dist.	7205 Nov 12 00:04		3.98614 AU		7211 Nov 02 15:46	0° ⊼	
			3.90014 AU				
direct	7206 Jan 09 16:23	18° 8 10'31		evening set	7211 Nov 10 13:32	1° ≯ 41′03	
	7206 Apr 11 17:44	$\Pi^{\circ 0}$				_	
evening set	7206 May 15 22:04	7° Ⅱ 57'08		conjunction	7211 Nov 23 20:00	4° ∡ ³32'33	0°52'02
				minimum elong	7211 Nov 23 20:00	4° ∡ ³32'33	0°52'06
conjunction	7206 May 29 00:24	11° Ⅱ 08'15	-0°51'04	max. Earth dist.	7211 Nov 24 02:02	4° ∡ ³35'49	6.43991 AU
minimum elong	7206 May 29 00:25	11° Ⅱ 08'16	0°51'08	morning rise	7211 Dec 07 00:26	7° ∡ ¹22'57	
max. Earth dist.	7206 May 29 00:40	11° Ⅱ 08′25	5.93846 AU	retrograde	7212 Apr 05 23:41	24° ∡ 12'58	
morning rise	7206 Jun 11 05:08	14° Ⅱ 20'48		opposition	7212 Jun 05 15:09	19° ∡ 16'53	1°12'58
	7206 Aug 24 00:18	0°ಅ		min. Earth dist.	7212 Jun 05 20:51	19° √ 15'02	4.47562 AU
retrograde	7206 Oct 21 05:26	5°905'26		direct	7212 July 05 20:31 7212 Aug 06 20:22	14° 🖈 13'02	4.47502710
•			1000150	direct	•		
opposition	7206 Dec 19 20:27	0°904'57			7212 Dec 03 09:44	0° ろ	
min. Earth dist.	7206 Dec 19 06:53		3.91536 AU	evening set	7212 Dec 10 13:44	1° る 30'58	
	7206 Dec 20 11:13	30° Ŗ Ⅱ					
direct	7207 Feb 15 23:38	25° Ⅱ 10'44		conjunction	7212 Dec 23 14:45	4° る 18'24	0°45'19
	7207 Apr 12 01:29	0 \circ \odot		minimum elong	7212 Dec 23 14:46	4° る 18'25	0°45'24
evening set	7207 Jun 22 11:15	15°9513'17		max. Earth dist.	7212 Dec 22 15:51	4° ප 06'08	6.49064 AU
S		- ,		morning rise	7213 Jan 05 13:30	7° る 04'45	-
conjunction	7207 Jul 05 21:24	18°929'03	-0°36'56	retrograde	7213 May 05 18:08	23° る 40'52	
				•	•		0.54100
minimum elong	7207 Jul 05 21:26	18°929'04	0°37'01	opposition	7213 Jul 05 15:38	18° る 47'15	0°54'09
max. Earth dist.	7207 Jul 07 10:47	18°951'48	5.91883 AU	min. Earth dist.	7213 Jul 06 15:17	18° る 39'40	4.48538 AU
morning rise	7207 Jul 19 10:05	21°5946'08		direct	7213 Sep 06 08:42	13° る 45'32	
	7207 Aug 23 21:39	$0^{\circ}\Omega$			7214 Jan 04 22:16	0° ≈	
retrograde	7207 Nov 28 11:32	12° Ω 30'44		evening set	7214 Jan 09 20:51	1° ≈ 03'29	
opposition	7208 Jan 26 21:47	7° Ω 27'09	-0°35'14	max. Earth dist.	7214 Jan 20 22:23	3° ≈ 26'59	6.45842 AU
min. Earth dist.	7208 Jan 25 13:37	7° Ω 38'05	3.94992 AU				

7219 Jul 24 18:34

morning rise

27°905'14

7225 Sep 10 16:21

direct

18°る03'38

evening set	7225 Dec 19 10:45 7226 Jan 14 02:40	0°≈ 5°≈22'05		conjunction minimum elong	7231 Jul 16 09:06 7231 Jul 16 09:07	28°\$58'01 28°\$58'02	-0°30'02 0°30'06
max. Earth dist.	7226 Jan 25 00:31	7°≈43'53	6.45245 AU	max. Earth dist.	7231 Jul 18 04:31	29° © 24'22	5.92699 AU
					7231 Jul 20 15:15	$0^{\circ}\Omega$	
conjunction	7226 Jan 26 22:54	8° ≈ 09'06	0°23'26	morning rise	7231 Jul 29 23:43	2° Ω 15'34	
minimum elong	7226 Jan 26 22:55	8° ≈ 09'06	0°23'30	_	7231 Sep 25 17:04	15° Ω	
morning rise	7226 Feb 08 17:12	10°≈55'17		retrograde	7231 Dec 08 16:01	22° Q 53'02	2.06077.411
retrograde	7226 Feb 27 22:15 7226 Jun 09 20:17	15° ≈ 27° ≈ 50'52		min. Earth dist.	7232 Feb 04 15:17 7232 Feb 06 01:59	18° Ω 00'48 17° Ω 48'58	3.96977 AU -0°22'38
opposition	7226 Aug 09 19:45	27 ≈ 50 32 22° ≈ 58′22	0°15'36	оррозион	7232 Feb 28 04:22	17 8€4 0 30	-0 22 30
min. Earth dist.	7226 Aug 11 08:43	22°≈46'34	4.40305 AU	direct	7232 Apr 04 02:14	12°Ω52'40	
direct	7226 Oct 11 08:41	17° ≈ 57'44			7232 May 09 22:47	15° Ω	
desc. node	7227 Jan 10 06:05	28° ≈ 23'27			7232 Jul 29 02:57	0° m	
	7227 Jan 18 05:41	0°)		evening set	7232 Aug 08 18:26	2° Mp 28'46	
evening set	7227 Feb 13 17:03	5°) 40′59		asc. node	7232 Aug 13 03:46	3°m/30'38	
max. Earth dist.	7227 Feb 24 04:56	8° ∺ 01′09	6.33733 AU		7222 4 22 10 40	50m 40101	0000146
conjunction	7227 Feb 26 11:14	8° ₩ 31'29	0°03'24	conjunction minimum elong	7232 Aug 22 10:49 7232 Aug 22 10:49	5° Mp 42'01 5° Mp 42'00	0°00'46 0°00'44
minimum elong	7227 Feb 26 11:14 7227 Feb 26 11:13	8°\(\frac{1}{31}\)'29	0°03'23	behind sun begin	7232 Aug 22 10:49 7232 Aug 22 02:25	5° Mp 37'05	0 00 44
behind sun begin	7227 Feb 26 03:18	8° ¥ 27'05	0 03 23	behind sun end	7232 Aug 22 19:13	5° Mp 46'56	
behind sun end	7227 Feb 26 19:08	8°) 35′53		max. Earth dist.	7232 Aug 24 23:08	6° m) 17'32	6.03294 AU
morning rise	7227 Mar 11 03:58	11° ¥ 21'37		morning rise	7232 Sep 05 04:38	8° m 55'42	
retrograde	7227 Jul 12 16:11	29° ∺ 06′18		retrograde	7233 Jan 12 02:12	28° My 32^\prime 22	
opposition	7227 Sep 11 11:53	24°) 13′15	-0°25'18	min. Earth dist.	7233 Mar 11 03:15	23° m 40'53	4.11025 AU
min. Earth dist.	7227 Sep 13 02:30		4.25985 AU	opposition	7233 Mar 12 17:01	23° m) 28'05	0°24'21
direct	7227 Nov 12 03:09	19°) 14′24		direct	7233 May 10 13:25	18° m 29'15	
	7228 Feb 10 17:39	0° Ƴ 7° Ƴ 39'53			7233 Aug 11 15:22	0° ™	
evening set max. Earth dist.	7228 Mar 16 15:37 7228 Mar 27 08:26	10° Υ 08'11	6.17679 AU	evening set	7233 Sep 14 04:22	7° ≏ 18'38	
max. Darm dist.	7220 Mai 27 00.20	10 0011	0.17077110	conjunction	7233 Sep 27 19:40	10° ≏ 24'01	0°29'57
conjunction	7228 Mar 29 09:51	10° Ƴ 36'51	-0°30'17	minimum elong	7233 Sep 27 19:39	10° ≙ 24'01	0°29'58
minimum elong	7228 Mar 29 09:50	10° Ƴ 36'50	0°30'18	max. Earth dist.	7233 Sep 29 23:09	10° ≏ 53'13	6.19462 AU
morning rise	7228 Apr 11 04:14	13° Y 34'09		morning rise	7233 Oct 11 11:06	13° ≏ 29'05	
	7228 Jul 06 13:56	0° 8			7234 Jan 10 12:39	0° M	
retrograde	7228 Aug 16 03:17	2° 8 30'02		retrograde	7234 Feb 13 20:39	1°M50'38	
.,.	7228 Sep 26 01:35	30°₹ Υ 27° Υ 35'08	1001112	.,.	7234 Mar 19 22:55	30° ₹ Ω	0050141
opposition min. Earth dist.	7228 Oct 15 13:03 7228 Oct 16 16:52	27° Y 26'05	4.09323 AU	opposition min. Earth dist.	7234 Apr 14 20:12 7234 Apr 13 17:21	26° Ω 48'33 26° Ω 57'33	0°59'41 4.27715 AU
direct	7228 Dec 14 19:53	27 γ 26 03 22° γ 38'33	4.09323 AU	direct	7234 Apr 13 17.21 7234 Jun 14 00:41	20 ≥ 3733 21° ♀ 47'44	4.27713 AU
uncet	7229 Feb 24 02:22	0°8		direct	7234 Aug 31 05:47	0°M	
evening set	7229 Apr 19 16:22	11° 8 53'51		evening set	7234 Oct 18 08:56	9°M50'03	
conjunction	7229 May 02 14:12	14° 8 59'08		conjunction	7234 Oct 31 19:46	12°M46'45	0°47'59
minimum elong	7229 May 02 14:11	14° 8 59'08		minimum elong	7234 Oct 31 19:45	12°M46'44	0°48'02
max. Earth dist.	7229 May 01 12:44 7229 May 02 15:39	14° 0 43'51	6.01876 AU	max. Earth dist.	7234 Nov 02 01:04 7234 Nov 10 23:03	13°M02'49 15°M	6.35339 AU
morning rise	7229 May 15 13:16	18° 8 05'25		morning rise	7234 Nov 10 23:03 7234 Nov 14 04:59	15 III. 15°III.42'29	
morning rise	7229 Jul 08 13:04	0°II		morning rise	7235 Jan 30 14:43	0° ⊼ ¹	
retrograde	7229 Sep 22 23:26	8° Ⅱ 14'33		retrograde	7235 Mar 16 14:09	3° ₹ 01'43	
opposition	7229 Nov 21 20:52	3° Ⅱ 16'47	-1°17'20		7235 Apr 30 18:20	30°RM₊	
min. Earth dist.	7229 Nov 22 03:09	3° Ⅱ 14'42	3.95905 AU	opposition	7235 May 16 00:03	28°ML03'08	1°14'54
	7229 Dec 19 01:19	30° ₹ 8		min. Earth dist.	7235 May 15 14:02	28°M06'26	4.41603 AU
direct	7230 Jan 19 17:24	28° 8 22'12		direct	7235 Jul 16 10:33	23°ML01'25	
avanina aat	7230 Feb 20 02:51	0° Π		avanina aat	7235 Sep 27 03:57	0° ⊼ ¹	
evening set	7230 May 26 00:09	18° Ⅱ 16'18		evening set	7235 Nov 19 11:21	10° ∡ ¹29'34	
conjunction	7230 Jun 08 04:30	21° Ⅱ 29'11	-0°49'08	conjunction	7235 Dec 02 16:08	13° ∡ 19'34	0°51'27
minimum elong	7230 Jun 08 04:31	21° Ⅱ 29'12	0°49'14	minimum elong	7235 Dec 02 16:09	13° ∡ 19'34	0°51'32
max. Earth dist.	7230 Jun 08 13:15	21° Ⅲ 34'32	5.92148 AU	max. Earth dist.	7235 Dec 02 14:37	13° ∡ 18'45	6.46225 AU
morning rise	7230 Jun 21 11:33	24° Ⅱ 43'35		morning rise	7235 Dec 15 18:54	16° ∡ 708′26	
	7230 Jul 13 15:59	0°9		, 1	7236 Mar 01 10:49	0°る	
retrograde	7230 Oct 31 18:52	15°934'56	1002154	retrograde	7236 Apr 14 09:36	2°る51'11	
opposition min. Earth dist.	7230 Dec 30 07:43 7230 Dec 29 12:27	10°533'34 10°540'04	-1°02′54 3.91078 AU	opposition	7236 May 28 13:27 7236 Jun 14 02:49	30°₽ ₰ 27° ₰ 55'53	1°09'19
direct	7231 Feb 26 06:10	5°939'08	J.710/0 AU	min. Earth dist.	7236 Jun 14 13:23	27° х 53′33′ 27° х 52′28	4.48904 AU
evening set	7231 Jul 02 21:03	25° © 41'44		direct	7236 Aug 15 12:53	22° x 53'58	
-					7236 Oct 28 14:08	5°0	

min. Earth dist.

7241 Nov 27 07:46

8°**Д**35'03 3.94433 AU

direct

7247 Jul 20 21:36

27°M23'05

	7247 Sep 01 14:42	0° ∡ 7		direct	7252 Dec 24 16:28	2° 8 45'46	
evening set	7247 Nov 23 19:11	14° ∡ °47′00			7253 Mar 29 08:50	15° 8	
	50.15 D 06.00.00	170 70 (11 (0050144	evening set	7253 Apr 29 17:48	22° 8 15'53	
conjunction	7247 Dec 06 23:20	17° ₹ 36'16	0°50'44	. ,.	7252 M 12 17 16	250	0050120
minimum elong max. Earth dist.	7247 Dec 06 23:21 7247 Dec 06 18:41	17° х 36′16 17° х 33′46	0°50'49 6.47377 AU	conjunction minimum elong	7253 May 12 17:16 7253 May 12 17:16	25° 8 23'46 25° 8 23'46	0°50'42
morning rise	7247 Dec 00 18:41 7247 Dec 20 01:04	20° × 24'20	0.4/3// AU	max. Earth dist.	7253 May 12 17:10 7253 May 12 01:14	25° 8 14'04	5.97881 AU
morning risc	7248 Feb 06 11:33	0°る		morning rise	7253 May 25 18:25	28° 8 32'49	3.77661 AC
retrograde	7248 Apr 18 10:41	7° る 03'42			7253 May 31 20:07	0°II	
opposition	7248 Jun 18 06:13	2° る 08'42	1°06'58	retrograde	7253 Oct 04 00:15	19° Ⅱ 00'13	
min. Earth dist.	7248 Jun 18 18:46	2° る 04'39	4.49411 AU	opposition	7253 Dec 02 17:46	14° Ⅱ 01′28	-1°16'24
	7248 Jul 05 11:21	30°R ✓		min. Earth dist.	7253 Dec 02 16:37	14° Ⅱ 01'51	3.93170 AU
direct	7248 Aug 19 17:45	27° ∡ ¹06'47		direct	7254 Jan 30 06:14	9° Ⅱ 07'13	
	7248 Oct 04 04:32	0°る		evening set	7254 Jun 05 16:06	29° Ⅱ 08'37	
evening set	7248 Dec 23 08:16	14° る 19'25			7254 Jun 09 04:31	0	
max. Earth dist.	7249 Jan 03 22:52	16° ₹ 48'36	6.49225 AU	. ,.	7254 1 10 22 51	20522111	0045120
	7240 I 05 07.15	17°る06'00	0020140	conjunction	7254 Jun 18 22:51	2° © 23'11 2° © 23'12	
conjunction minimum elong	7249 Jan 05 07:15 7249 Jan 05 07:17	17° ろ 06'01	0°38'40 0°38'45	minimum elong max. Earth dist.	7254 Jun 18 22:52 7254 Jun 19 19:48	2°936'00	0°45'33 5.90967 AU
morning rise	7249 Jan 18 04:01	17 3 0001	0 3843	morning rise	7254 Jul 19 19:48 7254 Jul 02 08:15	5° © 39'15	3.90907 AC
morning rise	7249 Mar 10 17:04	0°≈		retrograde	7254 Nov 11 18:33	26°933'18	
retrograde	7249 May 18 11:25	6° ≈ 29'13		min. Earth dist.	7255 Jan 09 03:50	21° © 39'38	3.91629 AU
opposition	7249 Jul 18 10:03	1° ≈ 36′13	0°41'34	opposition	7255 Jan 10 05:18	21° © 31'02	-0°53'16
min. Earth dist.	7249 Jul 19 16:17	1° ≈ 26'34	4.46991 AU	direct	7255 Mar 09 01:25	16° © 36'19	
	7249 Jul 31 04:31	30°Rる			7255 Jun 15 14:07	$0^{\circ}\Omega$	
direct	7249 Sep 19 04:49	26° る 34'47		evening set	7255 Jul 13 17:44	6° Ω 34'34	
	7249 Nov 07 18:08	0° ≈					
evening set	7250 Jan 22 13:33	13°≈57'56		conjunction	7255 Jul 27 07:21	9° £ 50'35	
TO ALLEY	7250 Jan 27 07:44	15° ≈	C 40.661 ATT	minimum elong	7255 Jul 27 07:22	9° £ 50'36	0°21'54
max. Earth dist.	7250 Feb 02 06:17	16° ≈ 17'51	6.42661 AU	max. Earth dist.	7255 Jul 29 09:51	10° Ω 21'01	5.94897 AU
conjunction	7250 Feb 04 09:04	16° ≈ 45'37	0°16'21	morning rise	7255 Aug 09 23:33 7255 Aug 17 20:41	13° Ω 07'42 15° Ω	
minimum elong	7250 Feb 04 09:05	16°≈45'37	0°16'24		7255 Nov 01 10:14	0° m)	
morning rise	7250 Feb 17 02:43	19° ≈ 32'34	0 1021	retrograde	7255 Dec 18 23:37	3° Mp 30'47	
	7250 Apr 10 07:06	0°) €		8	7256 Feb 04 19:44	30°R Ω	
retrograde	7250 Jun 18 18:36	6°) 39′22		min. Earth dist.	7256 Feb 14 21:22	28° Ω 39'12	4.00557 AU
opposition	7250 Aug 18 17:29	1° ¥ 46′50	0°04'21	opposition	7256 Feb 16 11:09	28° Ω 26′19	-0°08'56
min. Earth dist.	7250 Aug 20 08:10	1°) 34′29	4.36644 AU	direct	7256 Apr 14 15:23	23° Ω 29'19	
	7250 Sep 01 23:38	30°R ≈		asc. node	7256 Apr 30 23:26	23° Ω 56'33	
desc. node	7250 Sep 29 19:17	27° ≈ 23'55		_	7256 Jun 19 12:17	0° т р	
direct	7250 Oct 20 01:03	26°≈46'36		evening set	7256 Aug 19 07:09	12° m 52'13	
avanina aat	7250 Dec 06 11:45 7251 Feb 22 11:11	0° ₩ 14° ₩ 40'58		agniumation	7256 Sam 01 22:42	160 mm () 2122	0°09'47
evening set max. Earth dist.	7251 Mar 04 22:22		6.29254 AU	conjunction minimum elong	7256 Sep 01 23:43 7256 Sep 01 23:42	16° Mp 03'22 16° Mp 03'22	0°09'45
max. Larm dist.	7231 Wai 04 22.22	17 /(0212	0.2)234 AO	behind sun begin	7256 Sep 01 25:42 7256 Sep 01 16:54	15° m 59'25	0 07 43
conjunction	7251 Mar 07 05:11	17°) 33'10	-0°11'16	behind sun end	7256 Sep 02 06:31	16° Mp 07'19	
minimum elong	7251 Mar 07 05:10	17°) €33'09	0°11'15	max. Earth dist.	7256 Sep 04 12:32	16° m 38'49	6.07896 AU
behind sun begin	7251 Mar 06 23:14	17°) €29'49		morning rise	7256 Sep 15 17:13	19° m 14'43	
behind sun end	7251 Mar 07 11:06	17°) 36′29			7256 Nov 04 17:42	0∘ ⊽	
morning rise	7251 Mar 19 22:06	20° ¥ 25′08		retrograde	7257 Jan 21 14:25	8° ≏ 28'43	
	7251 May 04 07:52	0° Υ		min. Earth dist.	7257 Mar 20 20:22	3° ≏ 36'51	4.16137 AU
retrograde	7251 Jul 22 09:18	8° Υ 29'15	000 (100	opposition	7257 Mar 22 07:57	3° £ 24'49	0°36'04
opposition	7251 Sep 21 01:32	3°Υ35'52		1' 4	7257 Apr 19 07:39	30°R Mp	
min. Earth dist.	7251 Sep 22 15:18 7251 Oct 22 09:12	3°°₹23°43 30°₹ 光	4.20966 AU	direct	7257 May 20 13:36 7257 Jun 21 02:50	28° Mp 25′22 0° <u> </u>	
direct	7251 Nov 21 08:29	30 KX 28° X 37'37		evening set	7257 Sep 24 01:17	0 <u>≈</u> 16° Ω 59'03	
anoot	7251 Dec 21 04:05	26 χ 3/3/		croming set	,20, бер 24 01.17	.5 -5705	
evening set	7252 Mar 25 23:37	17° Υ 18'33		conjunction	7257 Oct 07 15:28	20° ≏ 01'41	0°36'23
max. Earth dist.	7252 Apr 05 21:23	19° Y ′51′28	6.12544 AU	minimum elong	7257 Oct 07 15:27	20° ≙ 01'40	0°36'25
	•			max. Earth dist.	7257 Oct 09 14:05	20° ≏ 27'49	6.24645 AU
conjunction	7252 Apr 07 18:36	20° Y 17'58	-0°36'40	morning rise	7257 Oct 21 05:19	23° ≙ 03'47	
minimum elong	7252 Apr 07 18:34	20° Ƴ 17'58	0°36'43		7257 Nov 22 15:05	0° M	
morning rise	7252 Apr 20 14:05	23° Y 17'58		retrograde	7258 Feb 22 14:30	11°M04'10	
	7252 May 20 05:14	0°8		opposition	7258 Apr 23 18:21	6°M02'59	1°06'03
retrograde	7252 Aug 26 14:08	12° 8 37'11	100021	min. Earth dist.	7258 Apr 22 19:38	6°M10'33	4.32538 AU
opposition min. Earth dist.	7252 Oct 25 20:43	7° 8 41'38	-1°08'21 4.04527 AU	direct	7258 Jun 23 08:13	1° M 01'49 15° M	
mm. Earm dist.	7252 Oct 26 18:49	/ 034/23	4.04327 AU		7258 Oct 09 10:29	1.5 IIIG	

evening set	7258 Oct 27 13:15	18° M .51'19			7264 May 02 15:43	0°8	
					7264 Jul 20 00:21	15° 8	
conjunction	7258 Nov 09 22:21	21°M45'40	0°50'23	retrograde	7264 Sep 01 00:15	17° 8 48'58	
minimum elong	7258 Nov 09 22:21	21°M45'39	0°50'28		7264 Oct 14 10:00	15° ₹8	
max. Earth dist.	7258 Nov 10 18:56	21°M56'52	6.39436 AU	opposition	7264 Oct 31 03:40	12° 8 53'03	-1°11'15
morning rise	7258 Nov 23 05:38	24°M38'57		min. Earth dist.	7264 Oct 31 23:21	12° 8 46'36	4.02555 AU
	7258 Dec 18 16:45	0° ∡ ¹		direct	7264 Dec 29 19:24	7° 8 57'31	
retrograde	7259 Mar 24 22:46	11° ∡ ⁴43'59			7265 Mar 08 16:29	15° 8	
opposition	7259 May 24 11:35	6° ₰ ¹46'24	1°15'13	evening set	7265 May 04 21:07	27° 8 33'08	
min. Earth dist.	7259 May 24 07:46	6° ∡ 747'39	4.44719 AU		7265 May 15 00:06	Π $^{\circ}0$	
direct	7259 Jul 25 06:57	1° ∡ ⁴44'33					
evening set	7259 Nov 28 03:10	19° ₰ 05'33		conjunction	7265 May 17 21:26	0° ∏ 42'02	-0°51'09
				minimum elong	7265 May 17 21:25	0° ∏ 42'02	0°51'14
conjunction	7259 Dec 11 06:23	21° ₹ 54'12	0°49'46	max. Earth dist.	7265 May 17 10:14	0° Ⅲ 35'15	5.96504 AU
minimum elong	7259 Dec 11 06:24	21° ₹ 54'13	0°49'51	morning rise	7265 May 30 23:41	3° Ⅱ 52'12	
max. Earth dist.	7259 Dec 10 19:54	21° ∡ ⁴48'35	6.48129 AU	retrograde	7265 Oct 09 11:11	24° Ⅱ 25'24	
morning rise	7259 Dec 24 07:30	24° ⋌ ¹41'44		opposition	7265 Dec 08 04:35	19° Ⅱ 26'07	-1°14'57
	7260 Jan 18 21:43	0°ප		min. Earth dist.	7265 Dec 07 22:38	19° Ⅱ 28'06	3.92583 AU
retrograde	7260 Apr 22 15:28	11° る 19'15		direct	7266 Feb 04 12:38	14° Ⅲ 31'56	
opposition	7260 Jun 22 11:01	6° ප 24'38	1°04'17		7266 May 22 21:56	0 \circ \odot	
min. Earth dist.	7260 Jun 23 03:11	6° る 19'26	4.49512 AU	evening set	7266 Jun 11 00:10	4° © 33'44	
direct	7260 Aug 24 01:13	1°る22'43					
evening set	7260 Dec 27 13:53	18° ප 35'51		conjunction	7266 Jun 24 07:50	7° 5 348'40	-0°43'05
max. Earth dist.	7261 Jan 08 01:19	21° පි 03'33	6.48666 AU	minimum elong	7266 Jun 24 07:51	7° 5 348'41	0°43'09
				max. Earth dist.	7266 Jun 25 09:20	8° 5 04'15	5.91213 AU
conjunction	7261 Jan 09 12:28	21° る 22'28	0°36'01	morning rise	7266 Jul 07 18:19	11° © 05'04	
minimum elong	7261 Jan 09 12:29	21° る 22'29	0°36'06	C	7266 Oct 13 06:20	$0^{\circ}\Omega$	
morning rise	7261 Jan 22 08:35	24°る08'02		retrograde	7266 Nov 17 01:52	1° Ω 56′27	
Ü	7261 Feb 19 15:39	0° ≈		C	7266 Dec 21 19:13	30° ₹ 5	
retrograde	7261 May 22 17:33	10°≈48′25		min. Earth dist.	7267 Jan 14 09:17	27°503'08	3.92674 AU
opposition	7261 Jul 22 17:24	5°≈55'34	0°36'50	opposition	7267 Jan 15 13:13	26°953'40	
min. Earth dist.	7261 Jul 24 00:39	5°≈45'35	4.45815 AU	direct	7267 Mar 14 10:24	21°958'38	0 1/02
direct	7261 Sep 23 10:35	0°≈54'16			7267 May 26 13:18	0° Ω	
	7262 Jan 11 05:02	15° ≈		evening set	7267 Jul 19 00:52	11° Ω 51'54	
evening set	7262 Jan 26 20:42	18° ≈ 21'17		evening set	7207 341 17 00.52	11 003131	
max. Earth dist.	7262 Feb 06 11:59	20°≈40'58	6.40948 AU	conjunction	7267 Aug 01 15:15	15° Ω 07'22	-0°17'35
max. Earth dist.	7202100 00 11.57	20 70 40 30	0.40740710	minimum elong	7267 Aug 01 15:16	15° Ω 07'23	
conjunction	7262 Feb 08 15:52	21° ≈ 09'28	0°12'36	minimum ciong	7267 Aug 01 02:56	15° Ω	0 17 30
minimum elong	7262 Feb 08 15:53	21°≈09'29	0°12'39	max. Earth dist.	7267 Aug 01 02:30 7267 Aug 03 21:37		5.96633 AU
behind sun begin	7262 Feb 08 10:46	21°≈06'41	0 12 39	morning rise	7267 Aug 15 07:43	13° Ω 23'47	3.90033 AU
behind sun end	7262 Feb 08 10:40 7262 Feb 08 20:59	21°≈12'16		morning risc	7267 Oct 06 22:09	0° m	
morning rise	7262 Feb 21 09:18	21 ≈12 10 23°≈57'01		retrograde	7267 Dec 23 22:58	8° Mp 37'14	
morning rise	7262 Mar 21 22:48	23 ≈3701 0° H		min. Earth dist.	7268 Feb 19 21:03	3° m 45'32	4.02771 AU
ratra ara da	7262 Jun 23 09:57	11° X 10'55				3° m 32'42	
retrograde desc. node		8°\(\frac{10}{33}\)		opposition asc. node	7268 Feb 21 10:44	•	-0 02 16
	7262 Aug 08 21:58 7262 Aug 23 07:21	6° ∺ 18′24	0001120	asc. node	7268 Mar 11 09:05	1°№05'23 30°R Ω	
opposition min. Earth dist.	•		4.34484 AU	direct	7268 Mar 21 16:06	30 και 28°Ω35'20	
direct	7262 Aug 24 23:32 7262 Oct 24 13:17	1° X 18'25	4.34464 AU	direct	7268 Apr 19 18:08 7268 May 19 00:01	28 8 6 3 3 2 0	
evening set	7263 Feb 26 23:03	19° H 19'17		evening set	7268 Aug 24 08:40	ابات 17° m) 50'35	
			6 26010 ATT	evening set	7208 Aug 24 08.40	17 11/3033	
max. Earth dist.	7263 Mar 09 09:42	21 π 41 02	6.26818 AU	conjunction	7268 Sep 07 00:59	21° m 00'31	0°13'59
	72(2 May 11 17:01	2201/12/26	0015112	·	•		
conjunction	7263 Mar 11 17:01	22°\(\)12'26		minimum elong	7268 Sep 07 00:58	21° Mp 00'31	0°13'59
minimum elong	7263 Mar 11 17:00	22°\ 12'26	0-15-12	behind sun begin	7268 Sep 06 20:56	20° m 58'11	
behind sun begin	7263 Mar 11 14:07	22°\(\)10'48		behind sun end	7268 Sep 07 05:00	21° m 02'50	6 10257 ATT
behind sun end	7263 Mar 11 19:53	22°) 14'03		max. Earth dist.	7268 Sep 09 11:59	21° mp 34'41	6.10357 AU
morning rise	7263 Mar 24 10:15	25° 米 05'31 0° Ƴ		morning rise	7268 Sep 20 18:18	24° m 10'35	
	7263 Apr 15 14:39				7268 Oct 16 20:01	0∘ ⊽	
retrograde	7263 Jul 27 08:07	13° Υ 20'08	0041155	retrograde	7269 Jan 26 02:04	13° £ 13'17	4 10 6 1 4 + 3 7
opposition	7263 Sep 26 00:02	8° Υ 26'30		min. Earth dist.	7269 Mar 25 11:34	8° £ 21'19	4.18614 AU
min. Earth dist.	7263 Sep 27 11:18	8°Υ15'07	4.18444 AU	opposition	7269 Mar 26 22:04	8° Ω 09'40	0°41'19
direct	7263 Nov 26 01:36	3° Y 28'36		direct	7269 May 25 07:45	3° Ω 09'53	
evening set	7264 Mar 30 19:02	22°Υ17'07		evening set	7269 Sep 28 18:48	21° ≏ 36'36	
max. Earth dist.	7264 Apr 10 22:05	24° Y 53′56	6.10179 AU	_			
_				conjunction	7269 Oct 12 08:27	24° £ 38'00	0°39'10
conjunction	7264 Apr 12 14:30	25° Y 17'45		minimum elong	7269 Oct 12 08:26	24° £ 37'59	0°39'12
minimum elong	7264 Apr 12 14:29	25° Y 17'45	0°39'38	max. Earth dist.	7269 Oct 14 03:27	25° Ω 01'59	6.26943 AU
morning rise	7264 Apr 25 10:28	28° Ƴ 19′00		morning rise	7269 Oct 25 21:23	27° ≏ 38'45	

	7269 Nov 05 15:07	0° M		min. Earth dist.	7275 Oct 02 08:52	13° Y 05'07	4.16238 AU
	7270 Feb 09 03:03	15° M ₊		direct	7275 Nov 30 20:46	8° Υ 18'42	
retrograde	7270 Feb 26 21:36	15°ML30'17		evening set	7276 Apr 04 13:43	27° Ƴ 13'37	
-	7270 Mar 16 12:34	15°RM		max. Earth dist.	7276 Apr 15 19:51	29° Υ 52'58	6.08148 AU
min. Earth dist.	7270 Apr 27 06:13	10°M36'08	4.34486 AU		7276 Apr 16 07:44	8° 0	
opposition	7270 Apr 28 01:46	10°M29'39	1°08'34				
direct	7270 Jun 27 20:46	5°M28'21		conjunction	7276 Apr 17 09:39	0° 8 15'20	-0°42'11
	7270 Sep 21 22:08	15° M ₊		minimum elong	7276 Apr 17 09:37	0° 8 15'19	0°42'14
evening set	7270 Oct 31 23:57	23°M13'16		morning rise	7276 Apr 30 06:19	3° 8 17'45	
					7276 Jun 23 01:27	15° 8	
conjunction	7270 Nov 14 08:12	26°MJ06'43	0°51'09	retrograde	7276 Sep 06 05:57	22° 8 57'11	
minimum elong	7270 Nov 14 08:12	26°MJ06'43	0°51'14	opposition	7276 Nov 05 08:54	18° 8 00'51	-1°13'33
max. Earth dist.	7270 Nov 14 23:34	26°M15'03	6.40887 AU	min. Earth dist.	7276 Nov 06 00:39	17° 8 55'41	4.00894 AU
morning rise	7270 Nov 27 14:43	28°M59'07			7276 Nov 30 02:36	15°R ∀	
C	7270 Dec 02 08:10	0° ⊼		direct	7277 Jan 03 18:45	13° 8 05'36	
retrograde	7271 Mar 29 01:37	15° ₹ 59'23			7277 Feb 07 02:59	15° 8	
opposition	7271 May 28 15:32	11° √ 02'16	1°14'51		7277 Apr 28 09:08	$\Pi^{\circ}0$	
min. Earth dist.	7271 May 28 14:36	11° ₹ '02'34	4.45624 AU	evening set	7277 May 09 22:39	2° Ⅱ 45'50	
direct	7271 Jul 29 13:38	6° х 00′21		8			
evening set	7271 Dec 02 09:42	23° х 19′58		conjunction	7277 May 22 23:46	5° Ⅱ 55'40	-0°51'15
8				minimum elong	7277 May 22 23:46	5° Ⅱ 55'40	0°51'20
conjunction	7271 Dec 15 12:23	26° ₹ '08'17	0°48'34	max. Earth dist.	7277 May 22 17:20	5° Ⅱ 51'45	5.95356 AU
minimum elong	7271 Dec 15 12:23	26° ₹ '08'17	0°48'39	morning rise	7277 Jun 05 03:04	9° I 106'51	0.90000110
max. Earth dist.	7271 Dec 14 23:09	26°× 001′11	6.48440 AU	retrograde	7277 Oct 14 20:28	29° I I45'14	
morning rise	7271 Dec 28 12:35	28° × 55'24	0.101.0110	opposition	7277 Dec 13 12:55	24° I I45'26	-1°12'53
morning noe	7272 Jan 02 14:21	0°ਰ		min. Earth dist.	7277 Dec 13 04:01		3.92076 AU
retrograde	7272 Apr 26 18:39	15° る 32'24		direct	7278 Feb 09 19:28	19° I 51'15	2.92070110
opposition	7272 Jun 26 15:14	10° පි 38'10	1°01'20	direct	7278 May 04 06:05	0°95	
min. Earth dist.	7272 Jun 27 09:24	10°る32'20	4.49237 AU	evening set	7278 Jun 16 06:10	9° 9 53'37	
direct	7272 Aug 28 06:12	5° ප 36'23	1.19237110	evening sec	7270 Juli 10 00:10	, 03331	
evening set	7272 Dec 31 19:25	22° る 51'07		conjunction	7278 Jun 29 15:01	13° © 09'00	-0°40'21
max. Earth dist.	7272 Bec 31 19:23 7273 Jan 12 02:22	25° ප 16'48	6.47822 AU	minimum elong	7278 Jun 29 15:02	13° © 09'01	0°40'27
max. Earth dist.	7275 Juli 12 02.22	23 01040	0.47022710	max. Earth dist.	7278 Jun 30 22:23	13° © 28'07	5.91408 AU
conjunction	7273 Jan 13 17:20	25° る 37'50	0°33'12	morning rise	7278 Jul 13 02:24	16°925'45	3.71400710
minimum elong	7273 Jan 13 17:20	25° る 37'50	0°33'17	morning rise	7278 Sep 12 19:27	0°Ω	
morning rise	7273 Jan 26 13:09	28°る23'36	0 33 17	retrograde	7278 Nov 22 08:32	7° Ω 14'47	
morning risc	7273 Feb 03 01:56	0°≈		opposition	7279 Jan 20 18:39	2°Ω11'40	-0°42'09
	7273 May 18 02:05	0 ∞ 15°≈		min. Earth dist.	7279 Jan 19 13:09	2°Ω21'41	3.93554 AU
retrograde	7273 May 27 02:56	15 ≈ 15° ≈ 07'38		mm. Earth dist.	7279 Feb 06 13:39	2 0€21 41 30°Rூ	3.93334 AO
retrograde	7273 Jun 05 03:09	15 ≈ 07 38		direct	7279 Mar 19 15:48	27°916'24	
opposition	7273 Jul 27 01:37	10°≈14'57	0°31'56	direct	7279 Apr 29 09:30	0°Ω	
min. Earth dist.	7273 Jul 28 11:12	10 ≈1437 10°≈04'14	4.44459 AU		7279 Jul 15 09:47	15° Ω	
direct	7273 Sep 27 18:57	5°≈13'49	4.44439 AU	evening set	7279 Jul 24 06:49	13 δ ε 17° Ω 05'54	
direct	7273 Dec 24 20:49	15°≈		evening set	7279 Jul 24 00.49	17 0005 54	
evening set	7274 Jan 31 04:01	13 ≈ 22° ≈ 45'00		conjunction	7279 Aug 06 21:39	20° Ω 20'56	0013114
max. Earth dist.	7274 Feb 10 18:20	22 ≈43 00 25°≈04'45	6.39179 AU	minimum elong	7279 Aug 00 21:39 7279 Aug 06 21:40	20° Ω 20'56	
max. Earm dist.	7274 FC0 TO 18.20	23 ~04 43	0.39179 AU	behind sun begin	7279 Aug 06 21:40 7279 Aug 06 16:56	20° Ω 18'07	0 13 16
conjunction	7274 Feb 12 23:00	25° ≈ 33'47	0°08'49	behind sun end	7279 Aug 07 02:25	20° Ω 23'46	
minimum elong	7274 Feb 12 23:00 7274 Feb 12 23:01	25°≈33'48	0°08'51	max. Earth dist.	7279 Aug 07 02:25		5.98084 AU
behind sun begin	7274 Feb 12 16:09	25°≈30'02	0 0031	morning rise	7279 Aug 20 14:46	23° Ω 36'52	3.70004 AC
behind sun end	7274 Feb 12 10:09 7274 Feb 13 05:53	25°≈37'34		morning risc	7279 Aug 20 14:40 7279 Sep 17 08:56	0°m	
morning rise	7274 Feb 25 16:13	23°≈21'58		retrograde	7279 Dec 28 19:32	13° m 42'03	
morning risc	7274 Pco 23 10:13 7274 Mar 05 03:52	0° H		asc. node	7280 Jan 20 13:40	13 m/42 03 12° m/50'35	
desc. node	7274 Jun 18 10:31	15° ∺ 34'32		min. Earth dist.	7280 Feb 24 18:31	8° m 50'38	4.04628 AU
	7274 Jun 27 23:38	15° X 43'08					0°04'22
retrograde opposition	7274 Juli 27 23:38 7274 Aug 27 21:46	13 X 43 08 10° X 50'33	0007120	opposition direct	7280 Feb 26 09:05 7280 Apr 24 18:46	8° Mp 37'30 3° Mp 39'47	0 04 22
min. Earth dist.	•		4.32421 AU	evening set	7280 Apr 24 18:40 7280 Aug 29 09:47	22° Mp 49'01	
	7274 Aug 29 12:50		4.32421 AU	evening set	7280 Aug 29 09.47	22 IIJ4901	
direct	7274 Oct 28 23:35 7275 Mar 03 11:16	5° 		conjunction	7280 San 12 02:02	250 m 57150	0°18'06
evening set		26° X 21'24	6.24612 AU	conjunction	7280 Sep 12 02:02	25° Mp 57'58	0°18'06 0°18'06
max. Earth dist.	7275 Mar 13 23:56	20 八 2124	0.44014 AU	minimum elong max. Earth dist.	7280 Sep 12 02:01 7280 Sep 14 11:25	25° m 57'57 26° m 31'01	6.12453 AU
aaniumatiam	7275 Mar 16 05:13	26°) 51'48	0°10'04		-	20° m 06'53	0.12433 AU
conjunction		26° X 51'48 26° X 51'48		morning rise	7280 Sep 25 18:58	29° IIJ 06:53	
minimum elong	7275 Mar 16 05:12	26° X 51'48 29° X 45'51	U 17U4	retrograda	7280 Sep 29 16:18 7281 Jan 30 17:10		
morning rise	7275 Mar 28 22:34 7275 Mar 29 23:32	29°π4551 0° Υ		retrograde min. Earth dist.	7281 Jan 30 17:10 7281 Mar 30 04:48	17° ♀ 59'56 13° ♀ 07'28	4.20732 AU
retrogrado		0° γ 18° Υ 10'07			7281 Mar 30 04:48 7281 Mar 31 12:55	13° 2 207′28 12° 2 56′39	4.20732 AU 0°46'19
retrograde opposition	7275 Aug 01 08:49 7275 Sep 30 22:22	18° γ 1007 13° γ 16'16	-0°47'04	opposition direct	7281 May 30 03:54	7° £ 56'36	0 4017
оррознин	1213 Sep 30 22.22	1 1010	-0 4/04	direct	1201 Way 30 03.34	/ ==3030	

evening set	7281 Oct 03 13:20	26° ≙ 17'33		conjunction	7287 Mar 20 14:41	1° Y ′24'28	
		_		minimum elong	7287 Mar 20 14:40	1° Y ′24'27	0°22'38
conjunction	7281 Oct 17 02:24	29° ≙ 17'52	0°41'42	morning rise	7287 Apr 02 08:09	4° Υ 19'13	
minimum elong	7281 Oct 17 02:22	29° ≙ 17'51	0°41'45	retrograde	7287 Aug 06 03:25	22° Y 51'14	
max. Earth dist.	7281 Oct 18 18:41	29° ≙ 40'15	6.28917 AU	opposition	7287 Oct 05 17:14	17° Y ′57'04	
	7281 Oct 20 06:15	0° M		min. Earth dist.	7287 Oct 07 01:30	17° Y 46'38	4.14527 AU
morning rise	7281 Oct 30 14:34	2°M17'27		direct	7287 Dec 05 10:29	12° Y 59'48	
	7282 Jan 03 08:57	15° M			7288 Mar 31 16:08	0°8	
retrograde	7282 Mar 03 04:30	20°M01'10		evening set	7288 Apr 09 04:29	1° 8 59'28	
opposition	7282 May 02 10:34	15°M01'01	1°10'43	max. Earth dist.	7288 Apr 20 13:33	4° 8 41'09	6.06502 AU
min. Earth dist.	7282 May 01 16:32	15°M06'59	4.36192 AU				
	7282 May 02 13:38	15°RM		conjunction	7288 Apr 22 00:43	5° 8 02'02	
direct	7282 Jul 02 08:22	9°M59'36		minimum elong	7288 Apr 22 00:42	5° 8 02'02	0°44'24
	7282 Aug 31 08:28	15° M ₊		morning rise	7288 May 04 22:01	8° 8 05'27	
evening set	7282 Nov 05 12:24	27°M40'35			7288 Jun 04 02:23	15° 8	
	7282 Nov 16 06:36	0° ∡ ¹		retrograde	7288 Sep 11 07:47	27° 8 53'07	
				opposition	7288 Nov 10 09:20	22° 8 56'20	-1°15'10
conjunction	7282 Nov 18 19:53	0° ∡ ³33'12	0°51'39	min. Earth dist.	7288 Nov 10 23:06	22° 8 51'48	3.99451 AU
minimum elong	7282 Nov 18 19:53	0° ∡ ³33'12	0°51'43	direct	7289 Jan 08 16:00	18° 8 01'15	
max. Earth dist.	7282 Nov 19 07:32	0° ∡ ³39'30	6.42232 AU		7289 Apr 11 11:24	$\Pi^{\circ}0$	
morning rise	7282 Dec 02 01:28	3° ∡ ¹24'43		evening set	7289 May 14 19:33	7° Ⅱ 45'35	
retrograde	7283 Apr 02 07:37	20° ∡ ¹20'24					
opposition	7283 Jun 01 21:41	15° ∡ ¹23'48	1°14'03	conjunction	7289 May 27 21:43	10° Ⅱ 56′23	-0°50'57
min. Earth dist.	7283 Jun 01 23:32	15° ∡ 23'12	4.46551 AU	minimum elong	7289 May 27 21:44	10° ∏ 56′23	0°51'01
direct	7283 Aug 02 23:13	10° ∡ ¹21'56		max. Earth dist.	7289 May 27 19:56	10° Ⅱ 55'17	5.94270 AU
evening set	7283 Dec 06 17:46	27° х 39'38		morning rise	7289 Jun 10 01:58	14° ∏ 08'32	
evening sec	7283 Dec 17 16:24	ිප 0°ප		morning rise	7289 Aug 24 05:34	0.2 1. 20037	
	7203 200 17 10.2 .	~ ~		retrograde	7289 Oct 20 02:11	4° © 51'51	
conjunction	7283 Dec 19 19:38	0° る 27'28	0°47'06	retrograde	7289 Dec 17 15:08	30°RⅡ	
minimum elong	7283 Dec 19 19:39	0° る 27'28	0°47'12	opposition	7289 Dec 18 16:01	29° ∏ 51'39	-1°10'21
max. Earth dist.	7283 Dec 19 19:39 7283 Dec 19 02:18	0°る18'10	6.48909 AU	min. Earth dist.	7289 Dec 18 10:01 7289 Dec 18 04:55		3.91486 AU
morning rise	7284 Jan 01 19:15	3°ප14'11	0.40707 AC	direct	7290 Feb 14 19:40	24° II 57'27	3.71400 AC
retrograde	7284 May 01 00:12	19°る50'02		uncci	7290 Apr 12 06:02	0°95	
•	7284 Jun 30 21:25	19 3 5002	0°58'02	avanina aat	7290 Apr 12 00:02 7290 Jun 21 07:59	0 3 15° 9 01'14	
opposition		14 3 36 04		evening set	7290 Juli 21 07.39	13 901 14	
min. Earth dist.	7284 Jul 01 17:29	9° る 54'20	4.49258 AU		7200 I-1 04 17.42	10061706	0027120
direct	7284 Sep 01 13:28	9° ろ 3420 27° ろ 09'13		conjunction	7290 Jul 04 17:43	18°517'06	
evening set	7285 Jan 05 01:30		C 47410 ATT	minimum elong	7290 Jul 04 17:45	18°917'07	
max. Earth dist.	7285 Jan 16 07:34	29° る 34'35	6.47418 AU	max. Earth dist.	7290 Jul 06 03:09	18°937'29	5.91356 AU
	7205 1 17 22 50	200755152	0020114	morning rise	7290 Jul 18 06:22	21° © 34'25	
conjunction	7285 Jan 17 22:59	29°る55'53	0°30'14	. 1	7290 Aug 23 13:44	0° Ω	
minimum elong	7285 Jan 17 23:00	29° る 55'53	0°30'18	retrograde	7290 Nov 27 09:23	12° Ω 22'22	000 (10.4
	7285 Jan 18 06:37	0° ≈		opposition	7291 Jan 25 19:57	7° Ω 18'57	
morning rise	7285 Jan 30 18:05	2°≈41'34		min. Earth dist.	7291 Jan 24 12:06		3.94058 AU
	7285 Apr 05 11:59	15° ≈		direct	7291 Mar 24 16:04	2° Ω 23'25	
retrograde	7285 May 31 09:32	19° ≈ 27'40			7291 Jun 28 04:03	15° Ω	
	7285 Jul 28 03:40	15°R ≈		evening set	7291 Jul 29 09:40	22° Ω 11′02	
opposition	7285 Jul 31 09:59	14° ≈ 35′04				_	
min. Earth dist.	7285 Aug 01 19:57	14° ≈ 24'14	4.43657 AU	conjunction	7291 Aug 12 01:11	25° Ω 25'53	
direct	7285 Oct 02 02:11	9° ≈ 34'07		minimum elong	7291 Aug 12 01:12	25° Ω 25'53	0°09'02
	7285 Dec 04 09:56	15° ≈		behind sun begin	7291 Aug 11 18:05	25° Ω 21'40	
evening set	7286 Feb 04 10:44	27°≈07'22		behind sun end	7291 Aug 12 08:18	25° Ω 30′06	
max. Earth dist.	7286 Feb 14 23:24	29° ≈ 26′38	6.38032 AU	max. Earth dist.	7291 Aug 14 09:50	25° Ω 59'38	5.99104 AU
				morning rise	7291 Aug 25 18:39	28° Ω 41'29	
conjunction	7286 Feb 17 05:13	29° ≈ 56′24	0°05'04		7291 Aug 31 08:18	0° m y	
minimum elong	7286 Feb 17 05:12	29° ≈ 56′24	0°05'07	asc. node	7291 Dec 02 12:52	17° Mp 06'43	
behind sun begin	7286 Feb 16 21:29	29° ≈ 52′09		retrograde	7292 Jan 02 16:46	18° Mp 40'26	
behind sun end	7286 Feb 17 12:56	0°) €00'39		min. Earth dist.	7292 Feb 29 15:35	13° m 48'45	4.06034 AU
	7286 Feb 17 11:45	0°) €		opposition	7292 Mar 02 05:16	13° m 35'55	0°10'42
morning rise		2°) 44'56		direct	7292 Apr 29 18:30	8° m ,37′52	
-	7286 Mar 01 22:17						
desc. node	7286 Mar 01 22:17 7286 Apr 29 18:12	14° ∺ 27′39		evening set	7292 Sep 03 09:36	27° Mp 42'57	
desc. node retrograde				evening set	7292 Sep 03 09:36 7292 Sep 13 08:48	27° M 42'57 0° ⊆	
	7286 Apr 29 18:12	14°) €27'39	-0°12'56	evening set	•		
retrograde	7286 Apr 29 18:12 7286 Jul 02 13:47	14° 米 27′39 20° 米 11′20	-0°12'56 4.30974 AU	evening set	•		0°21'57
retrograde opposition	7286 Apr 29 18:12 7286 Jul 02 13:47 7286 Sep 01 10:54	14° ★ 27'39 20° ★ 11'20 15° ★ 18'36		·	7292 Sep 13 08:48	0∘ ⊽	0°21'57 0°21'57
retrograde opposition min. Earth dist.	7286 Apr 29 18:12 7286 Jul 02 13:47 7286 Sep 01 10:54 7286 Sep 03 02:36	14° ¥ 27'39 20° ¥ 11'20 15° ¥ 18'36 15° ¥ 05'54		conjunction	7292 Sep 13 08:48 7292 Sep 17 01:50	0° ჲ 0° ჲ 51'06	
retrograde opposition min. Earth dist. direct	7286 Apr 29 18:12 7286 Jul 02 13:47 7286 Sep 01 10:54 7286 Sep 03 02:36 7286 Nov 02 11:24	14° ★27'39 20° ★11'20 15° ★18'36 15° ★05'54 10° ★19'06		conjunction minimum elong	7292 Sep 13 08:48 7292 Sep 17 01:50 7292 Sep 17 01:49	0° ჲ 51'06 0° ჲ 51'06	0°21'57
retrograde opposition min. Earth dist. direct	7286 Apr 29 18:12 7286 Jul 02 13:47 7286 Sep 01 10:54 7286 Sep 03 02:36 7286 Nov 02 11:24 7287 Mar 07 20:40	14°¥27'39 20°¥11'20 15°¥18'36 15°¥05'54 10°¥19'06 28°¥29'47 0°Υ		conjunction minimum elong max. Earth dist.	7292 Sep 13 08:48 7292 Sep 17 01:50 7292 Sep 17 01:49 7292 Sep 19 11:15	0° റ 0° റ 51'06 0° റ 51'06 1° റ 24'03	0°21'57

min. Earth dist.	7293 Apr 03 18:49	17° Ω 51'44	4.22519 AU		7299 Feb 26 07:10	0°Υ	
opposition	7293 Apr 05 02:44	17° - 241'00	0°50'50	evening set	7299 Mar 12 09:14	3°Υ10'15	
direct	7293 Jun 03 20:09	12° £ 40'45		max. Earth dist.	7299 Mar 22 23:20	5°Υ36'00	6.20674 AU
	7293 Oct 03 23:37	0°M					
evening set	7293 Oct 08 07:32	0°M57'01		conjunction	7299 Mar 25 03:13	6° Y 05'52	-0°26'14
C				minimum elong	7299 Mar 25 03:12	6° Y 05'52	0°26'14
conjunction	7293 Oct 21 19:53	3°M56'19	0°43'54	morning rise	7299 Apr 06 21:06	9° Υ 01'44	
minimum elong	7293 Oct 21 19:52	3°M56'18	0°43'58	retrograde	7299 Aug 11 05:01	27° Ƴ 44'11	
max. Earth dist.	7293 Oct 23 08:18	4°M16'29	6.30676 AU	opposition	7299 Oct 10 16:29	22° Y 49'41	-0°56'10
morning rise	7293 Nov 04 07:20	6°M54'50		min. Earth dist.	7299 Oct 11 23:25	22° Y 39'39	4.12168 AU
	7293 Dec 13 00:10	15° M ₊		direct	7299 Dec 10 05:34	17° Ƴ 52'39	
retrograde	7294 Mar 07 13:43	24°M31'25			7300 Mar 15 09:26	0°8	
opposition	7294 May 06 19:37	19°M31'42	1°12'23	evening set	7300 Apr 15 00:25	6° 8 59'35	
min. Earth dist.	7294 May 06 04:29	19°M36'42	4.37779 AU				
	7294 Jun 19 01:32	15°RM		conjunction	7300 Apr 27 21:27	10° 8 03'26	-0°46'21
direct	7294 Jul 06 22:16	14°M30'09		minimum elong	7300 Apr 27 21:26	10° 8 03'25	0°46'25
	7294 Jul 24 21:45	15° M ₊		max. Earth dist.	7300 Apr 26 14:24	9° 8 44'54	6.04308 AU
	7294 Oct 31 01:26	0°⊀		morning rise	7300 May 10 19:28	13° 8 08'09	
evening set	7294 Nov 10 00:25	2° ₹ 07'13			7300 May 18 17:04	15° 8	
					7300 Aug 03 16:01	0°Щ	
conjunction	7294 Nov 23 07:10	4° ≯ 759'01	0°51'47	retrograde	7300 Sep 17 16:41	3° Ⅱ 05'59	
minimum elong	7294 Nov 23 07:10	4° ≯ 759'01	0°51'52		7300 Nov 02 06:13	30° ₹ 8	
max. Earth dist.	7294 Nov 23 16:02	5° ≯ 03'48	6.43513 AU	opposition	7300 Nov 16 16:07	28° 8 08'48	
morning rise	7294 Dec 06 11:49	7° ∡ 149'41		min. Earth dist.	7300 Nov 17 02:54		3.97655 AU
retrograde	7295 Apr 06 11:30	24° × ⁷ 40'53		direct	7301 Jan 14 17:47	23° 8 13'58	
opposition	7295 Jun 06 03:37	19° ∡ 744'37	1°12'48		7301 Mar 22 15:51	0°П	
min. Earth dist.	7295 Jun 06 07:03	19° х 43′30	4.47437 AU	evening set	7301 May 20 23:33	13° Ⅱ 03'36	
direct	7295 Aug 07 06:46	14° ₹ 42'42			7201 Y 02 02 20	1.6011.510.5	0050114
	7295 Dec 01 16:48	0°る		conjunction	7301 Jun 03 02:38	16° Ⅱ 15'27	
evening set	7295 Dec 11 01:26	1°る58'29	C 40211 ATT	minimum elong	7301 Jun 03 02:38	16° Ⅱ 15'27	
max. Earth dist.	7295 Dec 23 06:38	4° る 35'10	6.49311 AU	max. Earth dist.	7301 Jun 03 04:28	16° Ⅱ 16'34	5.93039 AU
· · · · · · · · · · · · ·	7205 D 24 02-25	40=45150	0945120	morning rise	7301 Jun 16 08:16	19° Ⅲ 28'47 0° ໑	
conjunction	7295 Dec 24 02:35 7295 Dec 24 02:36	4°る45'52 4°る45'53	0°45'20 0°45'26		7301 Aug 01 09:25 7301 Oct 26 12:08	10° © 17'07	
minimum elong morning rise	7296 Jan 06 01:22	4 043 33 7° る 32'08	0 43 26	retrograde min. Earth dist.	7301 Oct 26 12:08 7301 Dec 24 10:43	5°921'30	3.90984 AU
retrograde	7296 May 05 05:31	7 33208 24° る 07'04		opposition	7301 Dec 24 10.43 7301 Dec 25 01:54	5°9516'23	
opposition	7296 Jul 05 03:15	19°る13'24	0°54'23	direct	7302 Feb 21 02:36	0°922'06	-1 0/04
min. Earth dist.	7296 Jul 06 01:54	19°る06'09	4.49122 AU	evening set	7302 Jun 27 16:56	20°926'38	
direct	7296 Sep 05 20:53	19 3 0009	4.47122 AU	evening set	7502 Juli 27 10.50	20 32038	
direct	7297 Jan 02 11:40	0°≈		conjunction	7302 Jul 11 03:52	23° © 42'53	-0°34'04
evening set	7297 Jan 09 07:23	1°≈27'20		minimum elong	7302 Jul 11 03:53	23°542'54	0°34'09
max. Earth dist.	7297 Jan 20 08:50	3°≈50'33	6.46715 AU	max. Earth dist.	7302 Jul 12 18:40	24°506'31	5.91660 AU
	7-77		,	morning rise	7302 Jul 24 17:23	27°500'28	
conjunction	7297 Jan 22 04:13	4°≈14'02	0°27'02		7302 Aug 06 05:52	0°N	
minimum elong	7297 Jan 22 04:14	4°≈14'02	0°27'07		7302 Oct 22 23:21	15° Ω	
morning rise	7297 Feb 03 23:02	6°≈59'51		retrograde	7302 Dec 03 17:11	17° Ω 45'00	
C	7297 Mar 15 02:22	15° ≈		· ·	7303 Jan 14 10:49	15°R Ω	
retrograde	7297 Jun 04 19:17	23° ≈ 49'17		min. Earth dist.	7303 Jan 30 17:46	12° Ω 52'31	3.95135 AU
opposition	7297 Aug 04 19:05	18° ≈ 56'43	0°21'37	opposition	7303 Feb 01 02:44	12° Ω 41'17	-0°29'59
min. Earth dist.	7297 Aug 06 06:39	18° ≈ 45′22	4.42407 AU	direct	7303 Mar 31 01:02	7° Ω 45'26	
	7297 Sep 09 13:29	15° R ≈			7303 Jun 08 08:36	15° Ω	
direct	7297 Oct 06 10:11	13° ≈ 55'51		evening set	7303 Aug 04 17:49	27° Ω 28'33	
	7297 Nov 02 08:40	15° ≈			7303 Aug 15 09:40	O° Mp	
	7298 Feb 01 16:18	0° ℋ					
evening set	7298 Feb 08 18:00	1°) 32′50		conjunction	7303 Aug 18 09:50	0° № 42'47	-0°04'27
max. Earth dist.	7298 Feb 19 06:36	3°) 52′33	6.36316 AU	minimum elong	7303 Aug 18 09:50	0° № 42'47	0°04'29
				behind sun begin	7303 Aug 18 01:36	0° ™ 37′56	
conjunction	7298 Feb 21 12:24	4°) 22′26	0°01'08	behind sun end	7303 Aug 18 18:04	0° ™ 47'38	
minimum elong	7298 Feb 21 12:24	4°) 22′26	0°01'10	max. Earth dist.	7303 Aug 20 21:25	1°Mp18'06	6.00862 AU
behind sun begin	7298 Feb 21 04:26	4° 		morning rise	7303 Sep 01 03:33	3° m ,57'37	
behind sun end	7298 Feb 21 20:22	4°) €26'50		asc. node	7303 Oct 12 14:40	13° Mp 12'28	
morning rise	7298 Mar 06 05:12	7°) 11'34		retrograde	7304 Jan 08 14:27	23° m 46'40	
desc. node	7298 Mar 09 02:54	7° ¥ 50′00		min. Earth dist.	7304 Mar 06 13:30	18° Mp 55'21	4.08284 AU
retrograde	7298 Jul 07 05:00	24°) (45'25	0010112	opposition	7304 Mar 08 04:12	18° Mp 42'12	0°17'12
opposition	7298 Sep 06 02:00	19° ¥ 52'34		direct	7304 May 05 19:59	13° Tp 43'48	
min. Earth dist.	7298 Sep 07 17:18		4.28888 AU		7304 Aug 28 12:44	0∘ ⊽	
direct	7298 Nov 06 22:03	14° ∺ 53′21		evening set	7304 Sep 09 11:28	2° ≏ 41'24	

7327 Jul 01 05:30

27°**Ω**54'18

min. Earth dist.

7321 Aug 16 04:22

27°≈28'46 4.38800 AU

asc. node

7338 Jun 15 13:37

 $0^{\circ}\Omega$

7332 Aug 03 15:35

30°Ŗる

evening set	7338 Jul 13 18:58	6° Ω 35'33		minimum elong max. Earth dist.	7344 Jan 10 22:35 7344 Jan 09 12:13	21°る44'23 21°る25'53	0°36'21 6.48776 AU
agniumation	7338 Jul 27 08:28	9° Ω 51'27	0922126	max. Earth dist.	7344 Jan 09 12:13	21° る 23°33	0.48//0 AU
conjunction minimum elong	7338 Jul 27 08:29			morning rise	7344 Feb 19 06:06	24 3 30 00 0	
max. Earth dist.	7338 Jul 27 08:29 7338 Jul 29 11:09	10°Ω22'00	5.94904 AU	retrograde	7344 May 23 04:22	0 ≈ 11°≈09'44	
morning rise	7338 Aug 10 00:13	10 8ℓ 22 00 13° Ω 08'24	3.94904 AU	opposition	7344 Jul 23 03:20	6°≈16'52	0°37'22
morning risc	7338 Aug 17 00:13	15° Ω		min. Earth dist.	7344 Jul 24 10:12	6°≈07'01	4.46261 AU
	7338 Nov 01 07:55	0° m)		direct	7344 Sep 23 21:48	1°≈15'37	4.40201 AC
retrograde	7338 Dec 19 02:36	3° m/ 32'08		direct	7345 Jan 10 00:18	1 ∞1337 15°≈	
renograde	7339 Feb 05 02:09	30°RΩ		evening set	7345 Jan 27 06:05	18° ≈ 40'55	
min. Earth dist.	7339 Feb 15 00:40		4.00323 AU	max. Earth dist.	7345 Feb 06 23:13	21°≈01'21	6.41725 AU
opposition	7339 Feb 16 13:29	28° Ω 27'45		max. Earth dist.	75 15 1 60 00 25.15	2170.0121	0.11723710
direct	7339 Apr 15 17:26	23°Ω30'50	0 1001	conjunction	7345 Feb 09 01:27	21° ≈ 28'53	0°13'07
asc. node	7339 May 11 08:28	24° Ω 36'42		minimum elong	7345 Feb 09 01:27	21°≈28'53	0°13'10
ase. Hode	7339 Jun 20 10:19	0° m		behind sun begin	7345 Feb 08 20:41	21°≈26'17	0 13 10
evening set	7339 Aug 20 08:40	12° m) 54'35		behind sun end	7345 Feb 09 06:13	21°≈31'29	
evening see	755) Hug 20 00.10	12 11/3 133		morning rise	7345 Feb 21 18:51	24°≈16'08	
conjunction	7339 Sep 03 01:00	16° Mp 05'53	0°09'01	morning rise	7345 Mar 20 19:56	0° ∀	
minimum elong	7339 Sep 03 01:50	16° My 05'52	0°09'00	retrograde	7345 Jun 23 14:53	11°) 26'54	
behind sun begin	7339 Sep 03 00:59 7339 Sep 02 17:52	16° Mp 01'45	0 07 00	desc. node	7345 Aug 18 01:53	7° ₩ 16'32	
behind sun end	7339 Sep 02 17:32 7339 Sep 03 08:06	16° m 10'00		opposition	7345 Aug 23 14:27	6°) 34'21	-0°00'34
max. Earth dist.	7339 Sep 05 06:00 7339 Sep 05 12:26	16° Mp 40'32	6.07421 AU	min. Earth dist.	7345 Aug 25 04:50	6° ¥ 22'06	
morning rise	7339 Sep 16 18:38	19° m ₂ 17'28	0.07421710	direct	7345 Oct 24 20:36	1°) 34′22	4.55500 710
morning 1130	7339 Nov 05 11:33	0° <u>₽</u>		evening set	7346 Feb 27 05:58	19°) (31'33	
retrograde	7340 Jan 22 17:40	° – 8° – 34'04		max. Earth dist.	7346 Mar 09 17:40	21°) 53'30	6.28116 AU
min. Earth dist.	7340 Mar 21 00:03	3° £ 42'17	4.15489 AU	max. Earth dist.	75 10 1411 05 17.10	21 7(3330	0.20110110
opposition	7340 Mar 22 12:02	3° <u>₽</u> 30'06	0°35'02	conjunction	7346 Mar 11 23:48	22°) 24'09	-0°14'30
оррозиюн	7340 Apr 20 09:31	30°R, Mp	0 33 02	minimum elong	7346 Mar 11 23:47	22°)(24'08	0°14'29
direct	7340 May 20 16:12	28° Mp 30'41		behind sun begin	7346 Mar 11 20:04	22°)(24'03	0 142)
direct	7340 Jun 20 06:46	0° ⊡		behind sun end	7346 Mar 12 03:30	22° X 26'14	
evening set	7340 Sep 24 04:32	0 — 17° Ω 06'30		morning rise	7346 Mar 24 16:49	25° H 16'37	
evening set	7540 БСР 24 04.52	17 =0030		morning risc	7346 Apr 15 02:05	25 γ (10 5 / 0° γ	
conjunction	7340 Oct 07 18:56	20° ഫ 09'31	0°35'47	retrograde	7346 Jul 27 10:40	13° Y 25'57	
minimum elong	7340 Oct 07 18:54	20° ⊆ 09'30	0°35'48	opposition	7346 Sep 26 02:49	8° Υ 32'23	-0°40'44
max. Earth dist.	7340 Oct 07 10:54 7340 Oct 09 17:56	20° ⊆ 35'55	6.23889 AU	min. Earth dist.	7346 Sep 27 15:23	8° Υ 20'37	4.19845 AU
morning rise	7340 Oct 21 08:51	23° ⊆ 12'00	0.23007710	direct	7346 Nov 26 07:55	3° Υ 34'23	4.17045 710
morning rise	7340 Nov 22 01:00	0°M₁		evening set	7347 Mar 31 21:32	22° Υ 18'07	
retrograde	7341 Feb 22 22:50	11°ML15'40		max. Earth dist.	7347 Apr 11 22:14	24° Y 53'04	6.11541 AU
min. Earth dist.	7341 Apr 23 02:31		4.31742 AU	max. Earth dist.	7547 Apr 11 22.14	24 33 04	0.11541710
opposition	7341 Apr 24 01:10	6°MJ14'26	1°05'23	conjunction	7347 Apr 13 16:46	25° Ƴ 18′03	-0°38'52
direct	7341 Jun 23 14:17	1°ML13'21	1 00 23	minimum elong	7347 Apr 13 16:44	25°Υ18'02	
	7341 Oct 08 14:31	15°M₁		morning rise	7347 Apr 26 12:30	28°Υ18'35	
evening set	7341 Oct 27 19:16	19°ML05'11		morning rise	7347 May 03 18:54	0°8	
					7347 Jul 21 15:47	15° 8	
conjunction	7341 Nov 10 04:33	21°ML59'57	0°50'03	retrograde	7347 Sep 01 19:39	17° 8 42'46	
minimum elong	7341 Nov 10 04:33	21°ML59'57	0°50'08		7347 Oct 14 10:31	15° ₹ 8	
max. Earth dist.	7341 Nov 11 01:28	22°M11'20	6.38663 AU	opposition	7347 Nov 01 01:15	12° 8 46'57	-1°10'20
morning rise	7341 Nov 23 12:17	24°M.53'43		min. Earth dist.	7347 Nov 01 21:32	12° 8 40'19	
5	7341 Dec 17 17:19	0° ∡ 7		direct	7347 Dec 30 18:05	7° 8 51'16	_
retrograde	7342 Mar 25 08:10	12° ∡ *01'35			7348 Mar 09 08:15	15° 8	
opposition	7342 May 24 20:33	7° ҂ 03'53	1°14'59	evening set	7348 May 04 19:13	27° 8 23'11	
min. Earth dist.	7342 May 24 15:49	7° ҂ 05'25	4.44055 AU	Č	7348 May 15 15:05	0° I I	
direct	7342 Jul 25 14:06	2° ҂ 02'04			J		
evening set	7342 Nov 28 11:46	19° ∡ ¹24'57		conjunction	7348 May 17 19:08	0° Ⅲ 31'31	-0°50'50
Č				minimum elong	7348 May 17 19:08	0° Ⅱ 31'31	
conjunction	7342 Dec 11 15:23	22° ∡ 13'55	0°49'44	max. Earth dist.	7348 May 17 05:12		5.97370 AU
minimum elong	7342 Dec 11 15:24	22° ҂ 13'55	0°49'49	morning rise	7348 May 30 20:59	3° Ⅱ 41'07	
max. Earth dist.	7342 Dec 11 07:45	22° ₹ 09'49	6.47664 AU	retrograde	7348 Oct 09 05:24	24° Ⅱ 11'00	
morning rise	7342 Dec 24 16:36	25° × 101'43		opposition	7348 Dec 07 23:15	19° Ⅱ 11'55	-1°14'57
3	7343 Jan 17 14:18	0°පි		min. Earth dist.	7348 Dec 07 19:57		3.92996 AU
retrograde	7343 Apr 24 01:29	11° る 40'39		direct	7349 Feb 04 09:49	14° Ⅱ 17'39	
opposition	7343 Jun 23 21:15	6° ප 46'01	1°04'26		7349 May 23 18:54	0ಂತ	
min. Earth dist.	7343 Jun 24 11:41	6° る 41'23	4.49306 AU	evening set	7349 Jun 10 19:36	4°9518'52	
direct	7343 Aug 25 10:15	1°る44'16			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- 1002	
evening set	7343 Dec 28 23:59	18° る 57'45		conjunction	7349 Jun 24 03:06	7° 9 33'43	-0°43'26
		, .,		minimum elong	7349 Jun 24 03:07	7°933'44	
conjunction	7344 Jan 10 22:34	21° る 44'22	0°36'15	max. Earth dist.	7349 Jun 25 02:58		5.91148 AU
,				Albi.		. = 1010	

						_	
morning rise	7349 Jul 07 13:07	10° © 50'00			7355 Jan 01 01:21	0°₹	
	7349 Oct 15 07:26	$0 {\circ} \Omega$		retrograde	7355 Apr 28 06:04	15° る 57'45	
retrograde	7349 Nov 16 23:03	1° Ω 42'40		opposition	7355 Jun 28 02:37	11° る 03'21	1°01'26
	7349 Dec 19 10:11	30° ₹ ≶		min. Earth dist.	7355 Jun 28 19:22	10°る57'57	4.49475 AU
min. Earth dist.	7350 Jan 14 06:55	26° © 48'57	3.92138 AU	direct	7355 Aug 29 17:05	6° ප 01'31	
opposition	7350 Jan 15 08:53	26°\$\frac{40}{10}	-0°48'53	evening set	7356 Jan 02 05:41	23° る 14'50	
direct	7350 Mar 14 05:31	21° 5 °45'15		max. Earth dist.	7356 Jan 13 16:11	25° පි 42'10	6.48414 AU
	7350 May 27 10:42	$0^{\circ}\Omega$					
evening set	7350 Jul 18 21:25	11° Ω 41'26		conjunction	7356 Jan 15 03:51	26° පි 01'23	0°33'26
C				minimum elong	7356 Jan 15 03:52	26° පි 01'24	0°33'31
conjunction	7350 Aug 01 11:33	14° Ω 57'18	-0°18'25	morning rise	7356 Jan 27 23:34	28° る 46'55	
minimum elong	7350 Aug 01 11:34	14° Ω 57'19			7356 Feb 02 16:40	0° ≈	
mmum trong	7350 Aug 01 16:03	15° Ω	0 10 2)		7356 May 09 21:08	15° ≈	
max. Earth dist.	7350 Aug 03 14:58	15° Ω 28'13	5.95682 AU	retrograde	7356 May 27 10:15	15°≈28'34	
morning rise	7350 Aug 05 14:36 7350 Aug 15 04:10	18° Ω 14'13	3.73002 AC	retrograde	7356 Jun 14 00:09	15°R≈	
morning risc	7350 Aug 13 04:10 7350 Oct 07 10:21	0° m)		opposition	7356 Jul 27 10:48	10°≈35'48	0°32'29
ratra ara da				* *			
retrograde	7350 Dec 23 22:30	8° m/32'43	4.01520.411	min. Earth dist.	7356 Jul 28 18:44	10°≈25'37	4.45361 AU
min. Earth dist.	7351 Feb 19 20:30	3°m/41'13	4.01530 AU	direct	7356 Sep 28 04:17	5°≈34'39	
opposition	7351 Feb 21 10:28	3°m/28'17	-0°03'3'/		7356 Dec 23 13:39	15° ≈	
	7351 Mar 21 20:46	30°R Ω		evening set	7357 Jan 31 12:28	23° ≈ 02'36	
asc. node	7351 Mar 23 16:55	29° Ω 49'44		max. Earth dist.	7357 Feb 11 02:50	25° ≈ 22'02	6.40322 AU
direct	7351 Apr 20 15:35	28° Ω 31'03					
	7351 May 20 15:13	0° m)		conjunction	7357 Feb 13 07:18	25° ≈ 50'54	0°09'21
evening set	7351 Aug 25 09:04	17° m 51'10		minimum elong	7357 Feb 13 07:18	25° ≈ 50'54	0°09'24
				behind sun begin	7357 Feb 13 00:38	25° ≈ 47'15	
conjunction	7351 Sep 08 01:37	21°Mp01'51	0°13'07	behind sun end	7357 Feb 13 13:58	25° ≈ 54'33	
minimum elong	7351 Sep 08 01:36	21° Mp 01'50	0°13'06	morning rise	7357 Feb 26 00:35	28° ≈ 38'37	
behind sun begin	7351 Sep 07 20:46	20° m 59'02			7357 Mar 04 05:58	0° ∀	
behind sun end	7351 Sep 08 06:26	21° m/04'38		desc. node	7357 Jun 27 19:48	15° ¥ 55'26	
max. Earth dist.	7351 Sep 10 12:27	21° m/36'02	6.08966 AU	retrograde	7357 Jun 28 05:09	15° ¥ 55'27	
morning rise	7351 Sep 21 19:04	24° m) 12'39		opposition	7357 Aug 28 03:13	11°) 02'49	-0°06'19
morning rise	7351 Oct 17 14:44	0° ⊽		min. Earth dist.	7357 Aug 29 18:55		4.33716 AU
retrograde	7352 Jan 27 09:40	ა — 13° ჲ 21'21		direct	7357 Oct 29 07:52	6° ₩ 02'58	1.55710110
min. Earth dist.	7352 Mar 25 16:56	8° £ 29'14	4.17200 AU	evening set	7358 Mar 03 16:10	24°) (05'32	
opposition	7352 Mar 27 03:10	8° ⊆ 2914	0°40'14	max. Earth dist.	7358 Mar 14 04:09		6.25959 AU
		3° £ 17'40	0 40 14	max. Earm dist.	/336 Wai 14 04.09	20 / 2010	0.23939 AU
direct	7352 May 25 11:51	21° £ 49'12		agniumation	7250 Mar 16 10:06	26° ¥ 58'59	0010117
evening set	7352 Sep 28 23:48	21 ==4912		conjunction	7358 Mar 16 10:06		
	#0#0 0 · 10 10 15	240 2 2440	0000100	minimum elong	7358 Mar 16 10:05	26°) 58′58	0,18,18
conjunction	7352 Oct 12 13:45	24° £ 51'18		morning rise	7358 Mar 29 03:16	29°) 52'24	
minimum elong	7352 Oct 12 13:44	24° ≙ 51'17		_	7358 Mar 29 16:43	0° Υ	
max. Earth dist.	7352 Oct 14 10:58	25° ≙ 16'35	6.25629 AU	retrograde	7358 Aug 01 07:13	18° Y 11'13	
morning rise	7352 Oct 26 03:04	27° £ 52'46		opposition	7358 Sep 30 22:58	13° Y 17′23	
	7352 Nov 04 18:16	0° M		min. Earth dist.	7358 Oct 02 09:29	13° Y 06'14	4.17535 AU
	7353 Feb 04 16:03	15° M ₊		direct	7358 Nov 30 22:17	8° Ƴ 19'39	
retrograde	7353 Feb 27 06:45	15°ML48'57		evening set	7359 Apr 05 14:36	27° Y 10′20	
	7353 Mar 21 19:00	15°RM		max. Earth dist.	7359 Apr 16 18:34	29° Ƴ 48'01	6.09268 AU
opposition	7353 Apr 28 10:51	10°ML48'07	1°07'55		7359 Apr 17 14:51	9° 8	
min. Earth dist.	7353 Apr 27 13:09	10°M55'20	4.33381 AU				
direct	7353 Jun 28 02:44	5°M46'53		conjunction	7359 Apr 18 10:13	0° 8 11'26	-0°41'29
	7353 Sep 20 11:28	15° M ₊		minimum elong	7359 Apr 18 10:11	0° 8 11'25	0°41'31
evening set	7353 Nov 01 08:42	23°M34'41		morning rise	7359 May 01 06:37	3° 8 13'14	
C				Č	7359 Jun 24 15:17	15° 8	
conjunction	7353 Nov 14 17:15	26°M28'34	0°50'49	retrograde	7359 Sep 07 02:11	22° 8 48'04	
minimum elong	7353 Nov 14 17:14	26°M28'34	0°50'53	opposition	7359 Nov 06 05:36	17° 8 51'48	-1°12'43
max. Earth dist.	7353 Nov 14 17:14 7353 Nov 15 10:53	26°M38'09	6.40084 AU	min. Earth dist.	7359 Nov 06 23:40		4.01698 AU
morning rise	7353 Nov 28 00:02	29°M21'23	0.40004710	mm. Larm dist.	7359 Nov 29 13:08	15°R 8	4.01070710
morning risc		29 llG21 23 0° √		direct		12° 8 56'19	
ratragrada	7353 Nov 30 23:48			uncci	7360 Jan 04 18:23		
retrograde	7354 Mar 29 14:14	16° ₹ 23'58	101424		7360 Feb 09 12:24	15° ႘ 0°Ⅱ	
opposition	7354 May 29 02:49	11° 🗷 26'42	1°14'34	avanirt	7360 Apr 29 01:56		
min. Earth dist.	7354 May 29 00:47	11° x ⁷ 27'22	4.45149 AU	evening set	7360 May 09 20:11	2° Ⅱ 34'21	
direct	7354 Jul 30 00:22	6° ∡ 124'49					
evening set	7354 Dec 02 20:20	23° ∡ ¹45'10		conjunction	7360 May 22 21:10	5° Ⅱ 43'53	
		=		minimum elong	7360 May 22 21:10	5° Ⅱ 43'53	
conjunction	7354 Dec 15 23:07	26° ∡ ³33'34	0°48'30	max. Earth dist.	7360 May 22 12:28	5° Ⅱ 38'36	5.95770 AU
minimum elong	7354 Dec 15 23:08	26° ∡ ³33'35	0°48'35	morning rise	7360 Jun 05 00:03	8° Ⅱ 54'42	
max. Earth dist.	7354 Dec 15 11:08	26° ∡ ¹27'09	6.48322 AU	retrograde	7360 Oct 14 16:47	29° Ⅱ 31'37	
morning rise	7354 Dec 28 23:41	29° ∡ ¹20'51		opposition	7360 Dec 13 08:16	24° Ⅲ 32′05	-1°13'02

min. Earth dist. direct	7360 Dec 13 01:38 7361 Feb 09 15:10	19° Ⅱ 37'52	3.92045 AU	evening set	7366 Dec 07 02:03 7366 Dec 16 13:57	27° ₰ 58'21 0°ਫ	
evening set	7361 May 05 03:15 7361 Jun 16 03:04	0° ടെ 9° ടെ 41'25		conjunction minimum elong	7366 Dec 20 04:04 7366 Dec 20 04:05	0°る46'10 0°る46'10	0°47'04 0°47'10
conjunction	7361 Jun 29 11:31	12°956'52	-0°40'46	max. Earth dist.	7366 Dec 19 12:29	0°중37'48	6.49080 AU
minimum elong	7361 Jun 29 11:32	12°956'53	0°40'53	morning rise	7367 Jan 02 03:45	3° ප 32'50	0.47000710
max. Earth dist.	7361 Jun 30 14:49	13°913'33	5.90931 AU	retrograde	7367 May 02 08:42	20°る07'58	
morning rise	7361 Jul 12 22:51	16° © 13'49	3.50531710	opposition	7367 Jul 02 05:51	15° る 13'55	0°58'12
morning not	7361 Sep 13 14:49	0°Ω		min. Earth dist.	7367 Jul 03 01:47	15° る 07'32	4.49563 AU
retrograde	7361 Nov 22 06:06	7°Ω05'48		direct	7367 Sep 02 22:22	10°る12'09	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
min. Earth dist.	7362 Jan 19 11:23		3.92705 AU	evening set	7368 Jan 06 09:15	27° る 25'52	
opposition	7362 Jan 20 16:35	2°Ω02'52		max. Earth dist.	7368 Jan 17 14:13	29° る 50'34	6.47804 AU
rr	7362 Feb 05 06:59	30°Rூ			7368 Jan 18 07:43	0° ≈	
direct	7362 Mar 19 12:14	27° © 07'42					
	7362 Apr 30 08:32	$0^{\circ}\Omega$		conjunction	7368 Jan 19 06:44	0°≈12'25	0°30'31
	7362 Jul 15 17:32	15° Ω		minimum elong	7368 Jan 19 06:45	0°≈12'26	0°30'35
evening set	7362 Jul 24 05:53	17° Ω 01'07		morning rise	7368 Feb 01 02:07	2° ≈ 58'02	
C				C	7368 Apr 04 01:51	15° ≈	
conjunction	7362 Aug 06 20:47	20° Ω 16'42	-0°14'02	retrograde	7368 May 31 17:03	19° ≈ 42'47	
minimum elong	7362 Aug 06 20:48	20° Ω 16'43	0°14'06		7368 Jul 30 09:53	15°R≈	
behind sun begin	7362 Aug 06 16:49	20° Ω 14'20		opposition	7368 Jul 31 16:48	14° ≈ 50'08	0°27'31
behind sun end	7362 Aug 07 00:48	20° Ω 19'06		min. Earth dist.	7368 Aug 02 02:58	14° ≈ 39'14	4.44080 AU
max. Earth dist.	7362 Aug 09 03:30	20° Ω 49'29	5.96996 AU	direct	7368 Oct 02 09:24	9° ≈ 49'03	
morning rise	7362 Aug 20 13:48	23° Ω 33'10			7368 Dec 03 03:13	15° ≈	
-	7362 Sep 17 12:40	0° m)		evening set	7369 Feb 04 17:32	27° ≈ 21'11	
retrograde	7362 Dec 29 00:23	13° m 43'42		max. Earth dist.	7369 Feb 15 07:03	29° ≈ 40'42	6.38455 AU
asc. node	7363 Jan 31 04:06	11° m 56'23			7369 Feb 16 17:58	0° ∀	
min. Earth dist.	7363 Feb 24 22:05	8° m 52'03	4.03435 AU				
opposition	7363 Feb 26 11:53	8° m 39'11	0°03'08	conjunction	7369 Feb 17 12:18	0°) 10′08	0°05'36
direct	7363 Apr 25 20:58	3°M/41'36		minimum elong	7369 Feb 17 12:18	0°) 10′08	0°05'40
evening set	7363 Aug 30 12:49	22° m 55'03		behind sun begin	7369 Feb 17 04:40	0°) €05'56	
				behind sun end	7369 Feb 17 19:57	0° ℋ 14'20	
conjunction	7363 Sep 13 05:16	26° Mp 04′36	0°17'18	morning rise	7369 Mar 02 05:18	2° 升 58'30	
minimum elong	7363 Sep 13 05:14	26° Mp 04'36	0°17'18	desc. node	7369 May 08 04:29	15° ¥ 56'37	
max. Earth dist.	7363 Sep 15 16:46	26° Mp 38'58	6.11289 AU	retrograde	7369 Jul 02 18:08	20° ∺ 23'15	
morning rise	7363 Sep 26 22:22	29° m 14'09		opposition	7369 Sep 01 15:47	15°) 30′35	-0°12'01
	7363 Sep 30 06:38	0∘ ⊽		min. Earth dist.	7369 Sep 03 07:34	15° 升 17′52	4.31368 AU
retrograde	7364 Jan 31 23:55	18° ≙ 11'45		direct	7369 Nov 02 15:52	10°) 31′01	
min. Earth dist.	7364 Mar 30 09:30	13° ≏ 19'53	4.19721 AU	evening set	7370 Mar 08 02:54	28°) 40′56	
opposition	7364 Mar 31 19:42	13° ≏ 08'21	0°45'18		7370 Mar 13 21:52	$\mathbf{\gamma}_{0}$	
direct	7364 May 30 07:49	8° ഫ 08'25		max. Earth dist.	7370 Mar 18 14:54	1° Y 04'36	6.23300 AU
evening set	7364 Oct 03 19:40	26° ≏ 32'07					
				conjunction	7370 Mar 20 20:48	1° Y 35′28	
conjunction	7364 Oct 17 08:48	29° Ω 32'49		minimum elong	7370 Mar 20 20:47	1° Y 35′28	0°21'59
minimum elong	7364 Oct 17 08:47	29° £ 32'48	0°41'09	morning rise	7370 Apr 02 14:23	4° Ƴ 30'07	
max. Earth dist.	7364 Oct 19 01:56	29° £ 55'43	6.28137 AU	retrograde	7370 Aug 06 08:26	23° Y 00'42	
	7364 Oct 19 09:38	0°M		opposition	7370 Oct 05 21:03	18° Y 06'37	
morning rise	7364 Oct 30 21:15	2°M32'49		min. Earth dist.	7370 Oct 07 06:32	17° Y 55'46	4.14747 AU
. 1	7365 Jan 01 21:25	15°M		direct	7370 Dec 05 15:44	13° Y 09'11	
retrograde	7365 Mar 03 15:11	20°M 19'07	1010104	. ,	7371 Apr 01 05:35	0°8	
opposition	7365 May 02 19:49	15°M18'46		evening set	7371 Apr 10 09:54	2° 8 08'45	C 0 C C 1 4 A T I
min. Earth dist.	7365 May 02 01:24	15°M24'52	4.35668 AU	max. Earth dist.	7371 Apr 21 18:33	4° 8 50'05	6.06614 AU
1:4	7365 May 05 04:25	15°RM			7271 A 22 06.16	50011117	0942140
direct	7365 Jul 02 17:30	10°M 17'21		conjunction	7371 Apr 23 06:16	5° 8 11'17	
avanina aat	7365 Aug 29 16:26 7365 Nov 05 20:17	15°M 27°M59'08		minimum elong	7371 Apr 23 06:15	5° 8 11'17 8° 8 14'36	0 43 32
evening set	7365 Nov 05 20:17 7365 Nov 15 04:08	27°11⊾39'08 0° ∡ 7		morning rise	7371 May 06 03:23 7371 Jun 04 15:05	15° 8	
	7505 NOV 15 04.08	υ Χ .		retrograde	7371 Sep 12 11:30	28° 8 01'25	
conjunction	7365 Nov 19 04:02	0° ∡ 751'56	0°51'18	opposition	7371 Sep 12 11.30 7371 Nov 11 12:43	23° 8 04'50	-1°14'36
minimum elong	7365 Nov 19 04:01	0° x ′51′56	0°51'23	min. Earth dist.	7371 Nov 11 12.43 7371 Nov 12 03:23	23° 8 00'00	3.99456 AU
max. Earth dist.	7365 Nov 19 18:09	0° ₹ 59'35	6.41971 AU	direct	7371 Nov 12 03:23 7372 Jan 09 19:29	18° 8 09'43	5.77730 AU
morning rise	7365 Dec 02 09:48	3° ∡ ¹43'38	0.717/1 AU	uncer	7372 Jan 09 19.29 7372 Apr 11 00:23	0° I	
retrograde	7366 Apr 02 15:59	20° ₹ 39'54		evening set	7372 Apr 11 00:23 7372 May 15 00:57	7° ∏ 54'40	
opposition	7366 Jun 02 07:02	15° х 43'03	1°13'47	oroning set	,5,2 may 15 00.57	, 113770	
min. Earth dist.	7366 Jun 02 07:07	15° х 43'01	4.46523 AU	conjunction	7372 May 28 02:50	11° Ⅱ 05'26	-0°50'46
direct	7366 Aug 03 06:48	10° х 43'01		minimum elong	7372 May 28 02:50 7372 May 28 02:50	11° I I05'26	
		7. 11 00		viong		5520	

max. Earth dist. morning rise	7372 May 27 22:29 7372 Jun 10 07:05 7372 Aug 23 10:47	14°∏17′36 0°©	5.94158 AU	retrograde opposition min. Earth dist.	7378 Apr 06 20:43 7378 Jun 06 11:52 7378 Jun 06 15:55	24° ₹ 57′02 20° ₹ 00′39 19° ₹ 59′20	1°12'38 4.47514 AU
retrograde	7372 Oct 20 05:19	5° © 01'13		direct	7378 Aug 07 15:54	14° ∡ 58'40	
opposition	7372 Dec 18 20:11 7372 Dec 18 08:54	0°901'07	-1°10′25 3.91267 AU		7378 Nov 30 18:16	0°る 2°る13'56	
min. Earth dist.	7372 Dec 18 08:34 7372 Dec 18 23:30	30°R I	3.9120/ AU	evening set	7378 Dec 11 08:34	2 013 30	
direct	7372 Bec 18 23:50 7373 Feb 14 23:52	25° I I06'54		conjunction	7378 Dec 24 09:57	5° ರ 01'22	0°45'23
ancet	7373 Apr 11 11:26	0°95		minimum elong	7378 Dec 24 09:58	5° ප 01'23	0°45'28
evening set	7373 Jun 21 13:24	15° © 11'51		max. Earth dist.	7378 Dec 23 14:13	4° ප 50'48	6.49412 AU
Č				morning rise	7379 Jan 06 08:55	7° る 47'40	
conjunction	7373 Jul 04 23:06	18°527'47	-0°37'42	retrograde	7379 May 06 12:40	24° る 22'20	
minimum elong	7373 Jul 04 23:07	18° 5 27'48	0°37'47	opposition	7379 Jul 06 10:45	19° る 28'32	0°54'38
max. Earth dist.	7373 Jul 06 09:04	18°548'31	5.91078 AU	min. Earth dist.	7379 Jul 07 08:33	19° る 21'32	4.49241 AU
morning rise	7373 Jul 18 11:22	21° 5 45'06		direct	7379 Sep 07 03:16	14° る 26'46	
	7373 Aug 22 22:29	$0^{\circ}\Omega$			7380 Jan 02 14:59	0° ≈	
retrograde	7373 Nov 27 16:17	12° Ω 34'19		evening set	7380 Jan 10 14:34	1°≈42'01	
min. Earth dist.	7374 Jan 24 19:06	7° Ω 41'28		max. Earth dist.	7380 Jan 21 17:20	4°≈05'50	6.46846 AU
opposition	7374 Jan 26 01:59	7° Ω 30'58 2° Ω 35'30	-0°3′/01		7200 I 22 11.20	4020145	0927122
direct	7374 Mar 24 23:15 7374 Jun 27 10:58	2°8€35′30′ 15° Ω		conjunction minimum elong	7380 Jan 23 11:39 7380 Jan 23 11:40	4°≈28'45 4°≈28'45	0°27'22 0°27'26
evening set	7374 Jul 29 15:38	13 δι 22° Ω 24'03		morning rise	7380 Feb 05 06:31	4 ≈28 43 7°≈14'33	0 27 20
evening set	/3/4 Jul 29 13.36	22 062403		morning rise	7380 Mar 14 03:10	7 ≈1433 15°≈	
conjunction	7374 Aug 12 07:03	25° Ω 39'00	-0°09'30	retrograde	7380 Jun 05 02:22	24°≈03'31	
minimum elong	7374 Aug 12 07:03	25° Ω 39'01		opposition	7380 Aug 05 01:52	19°≈10'58	0°22'16
behind sun begin	7374 Aug 12 00:08	25° Ω 34'54		min. Earth dist.	7380 Aug 06 13:50	18° ≈ 59'29	4.42534 AU
behind sun end	7374 Aug 12 13:58	25° Ω 43'07			7380 Sep 13 01:48	15°R ≈	
max. Earth dist.	7374 Aug 14 16:56	26° Ω 13'30	5.98785 AU	direct	7380 Oct 06 17:04	14° ≈ 10′04	
morning rise	7374 Aug 26 00:25	28° Ω 54'43			7380 Oct 30 10:00	15° ≈	
	7374 Aug 30 15:19	0° m ∕			7381 Jan 31 21:43	0° ∀	
asc. node	7374 Dec 09 21:42	17° m 58'12		evening set	7381 Feb 09 01:31	1°) 46′56	
retrograde	7375 Jan 02 23:44	18° m 55'01		max. Earth dist.	7381 Feb 19 12:18	4° ∺ 05'39	6.36421 AU
min. Earth dist.	7375 Mar 01 21:43	14° m 03'43	4.05753 AU			.,	
opposition	7375 Mar 03 12:41	13° m 50'28	0°09'50	conjunction	7381 Feb 21 19:54	4°) ₹36'32	0°01'41
direct	7375 May 01 00:24	8° Mp 52'29		minimum elong	7381 Feb 21 19:55	4° ₩ 36'33	0°01'43
evening set	7375 Sep 04 16:15 7375 Sep 13 12:58	27° Mp 58′04 0° <u>₽</u>		behind sun begin behind sun end	7381 Feb 21 11:57 7381 Feb 22 03:54	4° 	
	7373 Sep 13 12.38	0 ==		morning rise	7381 Mar 06 13:02	7° ¥ 25'44	
conjunction	7375 Sep 18 08:17	1° ჲ 06'16	0°21'21	desc. node	7381 Mar 17 04:45	9° H 45'51	
minimum elong	7375 Sep 18 08:16	1° ⊆ 06'15		retrograde	7381 Jul 07 12:15	24°) 59'02	
max. Earth dist.	7375 Sep 20 16:59	1° ≏ 38'50	6.13896 AU	opposition	7381 Sep 06 08:08	20°) €06'14	-0°17'50
morning rise	7375 Oct 02 00:58	4° £ 14'24		min. Earth dist.	7381 Sep 07 23:47	19° ⊁ 53'31	4.28969 AU
retrograde	7376 Feb 05 14:19	23° ≏ 00'16		direct	7381 Nov 07 04:34	15°) €06'54	
min. Earth dist.	7376 Apr 04 03:32	18° ≏ 07'50	4.22348 AU		7382 Feb 25 13:43	0° Υ	
opposition	7376 Apr 05 11:13	17° ≏ 57'10	0°50'01	evening set	7382 Mar 12 16:49	3° Y 24′07	
direct	7376 Jun 04 04:58	12° ≏ 56'54		max. Earth dist.	7382 Mar 23 07:46	5° Y 50′16	6.20744 AU
_	7376 Oct 03 01:01	0°M					
evening set	7376 Oct 08 14:12	1°ML13'03		conjunction	7382 Mar 25 11:04	6° Y 19'48	
. ,.	7276 0 4 22 02 46	40 M 12126	0042125	minimum elong	7382 Mar 25 11:03	6° Y 19'47	0°25'39
conjunction	7376 Oct 22 02:46 7376 Oct 22 02:45	4°M12'26 4°M12'26		morning rise retrograde	7382 Apr 07 04:50	9° Y 15'37 27° Y 57'27	
minimum elong max. Earth dist.	7376 Oct 22 02.43 7376 Oct 23 17:36	4°M33'57		opposition	7382 Aug 11 11:13 7382 Oct 10 22:25	23° Y 03'09	-0°55'21
morning rise	7376 Nov 04 14:10	7°ML11'01	0.30378 AU	min. Earth dist.	7382 Oct 10 22:23 7382 Oct 12 05:48		4.12254 AU
morning rise	7376 Dec 11 21:36	15°M		direct	7382 Dec 10 11:24	18° Y 06'11	4.12254710
retrograde	7377 Mar 07 20:54	24°M.48'04			7383 Mar 14 15:33	0°8	
min. Earth dist.	7377 May 06 11:34	19°ML53'41	4.37752 AU	evening set	7383 Apr 15 08:07	7° 8 13'19	
opposition	7377 May 07 04:09	19°M48'12	1°11'49	max. Earth dist.	7383 Apr 26 20:25	9° 8 57'40	6.04416 AU
	7377 Jun 25 08:15	15°RM					
direct	7377 Jul 07 05:10	14°M46'41		conjunction	7383 Apr 28 04:56	10° 8 17'05	-0°45'54
	7377 Jul 19 05:23	15° M ₊		minimum elong	7383 Apr 28 04:55	10° 8 17'04	0°45'59
	7377 Oct 30 01:48	0° ∡ 7		morning rise	7383 May 11 03:02	13° 8 21'47	
evening set	7377 Nov 10 07:30	2° ≯ 23'18			7383 May 18 01:24	15° 8	
	7277 X 22 1115	E0 31	005122		7383 Aug 02 07:29	0°II	
conjunction	7377 Nov 23 14:15	5° × 15'06		retrograde	7383 Sep 17 21:39	3° I 18'46	
minimum elong	7377 Nov 23 14:15	5°×715'06		ommos:4:	7383 Nov 04 05:54	30°R 8	1015155
max. Earth dist.	7377 Nov 23 22:44 7377 Dec 06 19:11	5° ₹ 19'41 8° ₹ 05'50	6.43548 AU	opposition min. Earth dist.	7383 Nov 16 21:51	28° 8 21'42	-1°15'55 3.97800 AU
morning rise	1311 Dec 00 19:11	o x.05.50		mm. carm alst.	7383 Nov 17 08:03	20 01820	3.71800 AU

7395 Jul 07 05:47

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evening set

retrograde	7395 Sep 23 07:41	8° Ⅲ 33′03		retrograde	7401 Mar 17 07:32	3° ∡ ³34′07	
opposition	7395 Nov 22 05:09	3° II 35'30	-1°16'35	renograde	7401 May 05 19:35	30°RM	
min. Earth dist.	7395 Nov 22 12:53		3.96516 AU	opposition	7401 May 16 16:44	28°M35'20	1°14'05
Zurur Gige.	7395 Dec 22 18:23	30°R 8	3.90010110	min. Earth dist.	7401 May 16 06:00	28°M38'51	4.40851 AU
direct	7396 Jan 20 04:08	28° 8 40'50		direct	7401 Jul 17 02:08	23°M33'43	
	7396 Feb 17 08:27	0°II			7401 Sep 24 11:36	0° ∡ 7	
evening set	7396 May 25 10:29	18° Ⅲ 33'19		evening set	7401 Nov 20 02:07	11° ₹ 03'40	
	•						
conjunction	7396 Jun 07 14:25	21° Ⅱ 45'48	-0°49'05	conjunction	7401 Dec 03 07:22	13° ∡ °54′05	0°51'09
minimum elong	7396 Jun 07 14:26	21° Ⅱ 45'48	0°49'11	minimum elong	7401 Dec 03 07:22	13° 渘 54′05	0°51'15
max. Earth dist.	7396 Jun 07 21:41	21° Ⅱ 50′14	5.92576 AU	max. Earth dist.	7401 Dec 03 07:28	13° ≯ 54'08	6.45621 AU
morning rise	7396 Jun 20 20:51	24° Ⅱ 59'43		morning rise	7401 Dec 16 10:39	16° ∡ ⁴43'24	
	7396 Jul 11 21:45	0ං ව			7402 Feb 26 09:55	0°る	
retrograde	7396 Oct 31 01:52	15° © 49'00		retrograde	7402 Apr 16 03:40	3° る 28'22	
opposition	7396 Dec 29 15:19	10°547'54			7402 Jun 04 10:54	30°R. ✓	
min. Earth dist.	7396 Dec 28 21:12	10°954'00	3.91273 AU	opposition	7402 Jun 15 20:42	28° ₹ 32'53	1°09'19
direct	7397 Feb 25 14:34	5°953'33		min. Earth dist.	7402 Jun 16 05:46	28° ₹ 29'57	4.48510 AU
evening set	7397 Jul 02 05:03	25° © 55'39		direct	7402 Aug 17 05:10	23° x ⁷ 31'02	
	7207 I1 15 16:20	200@11142	0920150		7402 Oct 26 13:04	0°る	
conjunction	7397 Jul 15 16:29	29°©11'42		evening set	7402 Dec 20 20:51	10° る 45'19	
minimum elong	7397 Jul 15 16:30	29°511'43	0°30'55 5.92638 AU	· · · · · · · · · ·	7402 I 02 21-01	13° る 32'20	0°41'21
max. Earth dist.	7397 Jul 17 09:54 7397 Jul 19 00:04	29° © 36'51 0° Ω	3.92038 AU	conjunction minimum elong	7403 Jan 02 21:01 7403 Jan 02 21:02	13° る 32'21	0°41'27
morning rise	7397 Jul 19 00:04 7397 Jul 29 06:38	2° Ω 29'03		max. Earth dist.	7403 Jan 02 21:02 7403 Jan 01 19:08	13°る3221	6.49298 AU
morning risc	7397 Sep 23 18:42	2 0. 29 03		morning rise	7403 Jan 15 18:39	15 3 1827 16° 3 18'14	0.49298 AU
retrograde	7397 Dec 08 00:02	23° Ω 07'28		morning rise	7403 Apr 01 11:37	0°≈	
min. Earth dist.	7398 Feb 04 00:19	18° Ω 15'16	3.96668 AU	retrograde	7403 May 15 23:28	0 ~ 2°≈54'37	
opposition	7398 Feb 05 10:52	18° Ω 03'30		reargrade	7403 Jun 30 00:02	30°Rる	
оррожион	7398 Mar 01 19:28	15°R Ω	0 2 . 2 0	opposition	7403 Jul 15 22:31	28° る 01'22	0°46'46
direct	7398 Apr 04 10:55	13° Ω 07'21		min. Earth dist.	7403 Jul 17 00:03	27° る 53'12	4.48079 AU
	7398 May 08 01:56	15° Ω		direct	7403 Sep 16 15:39	22° る 59'57	
	7398 Jul 28 07:56	0° m y			7403 Nov 29 00:04	0° ≈	
evening set	7398 Aug 09 02:05	2° m/44'23		evening set	7404 Jan 20 02:27	10° ≈ 19′22	
				max. Earth dist.	7404 Jan 31 00:18	12° ≈ 41′21	6.44735 AU
conjunction	7398 Aug 22 18:12	5° m 57'44	-0°00'36				
minimum elong	7200 4 22 10 12						
minimum ciong	7398 Aug 22 18:13	5° m 57'45	0°00'37	conjunction	7404 Feb 01 22:35	13° ≈ 06'32	0°20'43
behind sun begin	7398 Aug 22 18:13 7398 Aug 22 09:50	5° Тр 57'45 5° Тр 52'49	0°00'37	conjunction minimum elong	7404 Feb 01 22:35 7404 Feb 01 22:36	13°≈06'32 13°≈06'33	0°20'43 0°20'47
Č	-		0°00'37	•			
behind sun begin	7398 Aug 22 09:50 7398 Aug 23 02:36 7398 Aug 25 06:07	5° m 52'49 6° m 02'40 6° m 33'06	0°00'37 6.02767 AU	•	7404 Feb 01 22:36 7404 Feb 10 15:08 7404 Feb 14 16:46	13°≈06'33 15°≈ 15°≈52'55	
behind sun begin behind sun end max. Earth dist. asc. node	7398 Aug 22 09:50 7398 Aug 23 02:36 7398 Aug 25 06:07 7398 Aug 29 23:03	5° m 52'49 6° m 02'40 6° m 33'06 7° m 39'39		minimum elong morning rise	7404 Feb 01 22:36 7404 Feb 10 15:08 7404 Feb 14 16:46 7404 May 01 23:04	13°≈06'33 15°≈ 15°≈52'55 0°¥	
behind sun begin behind sun end max. Earth dist. asc. node morning rise	7398 Aug 22 09:50 7398 Aug 23 02:36 7398 Aug 25 06:07 7398 Aug 29 23:03 7398 Sep 05 11:47	5° m 52'49 6° m 02'40 6° m 33'06 7° m 39'39 9° m 11'36		minimum elong	7404 Feb 01 22:36 7404 Feb 10 15:08 7404 Feb 14 16:46 7404 May 01 23:04 7404 Jun 14 23:33	13°≈06'33 15°≈ 15°≈52'55 0° X 2° X 50'55	
behind sun begin behind sun end max. Earth dist. asc. node morning rise retrograde	7398 Aug 22 09:50 7398 Aug 23 02:36 7398 Aug 25 06:07 7398 Aug 29 23:03 7398 Sep 05 11:47 7399 Jan 12 13:48	5° m 52'49 6° m 02'40 6° m 33'06 7° m 39'39 9° m 11'36 28° m 51'27	6.02767 AU	minimum elong morning rise retrograde	7404 Feb 01 22:36 7404 Feb 10 15:08 7404 Feb 14 16:46 7404 May 01 23:04 7404 Jun 14 23:33 7404 Jul 29 12:19	13°≈06'33 15°≈ 15°≈52'55 0° H 2° H 50'55 30°R≈	0°20'47
behind sun begin behind sun end max. Earth dist. asc. node morning rise retrograde min. Earth dist.	7398 Aug 22 09:50 7398 Aug 23 02:36 7398 Aug 25 06:07 7398 Aug 29 23:03 7398 Sep 05 11:47 7399 Jan 12 13:48 7399 Mar 11 15:03	5° m 52'49 6° m 02'40 6° m 33'06 7° m 39'39 9° m 11'36 28° m 51'27 23° m 59'46	6.02767 AU 4.10325 AU	morning rise retrograde opposition	7404 Feb 01 22:36 7404 Feb 10 15:08 7404 Feb 14 16:46 7404 May 01 23:04 7404 Jun 14 23:33 7404 Jul 29 12:19 7404 Aug 14 22:21	13°≈06'33 15°≈ 15°≈52'55 0°¥ 2°¥50'55 30°R≈ 27°≈58'27	0°20'47 0°11'29
behind sun begin behind sun end max. Earth dist. asc. node morning rise retrograde min. Earth dist. opposition	7398 Aug 22 09:50 7398 Aug 23 02:36 7398 Aug 25 06:07 7398 Aug 29 23:03 7398 Sep 05 11:47 7399 Jan 12 13:48 7399 Mar 11 15:03 7399 Mar 13 04:26	5° m 52'49 6° m 02'40 6° m 33'06 7° m 39'39 9° m 11'36 28° m 51'27 23° m 59'46 23° m 47'05	6.02767 AU	minimum elong morning rise retrograde opposition min. Earth dist.	7404 Feb 01 22:36 7404 Feb 10 15:08 7404 Feb 14 16:46 7404 May 01 23:04 7404 Jun 14 23:33 7404 Jul 29 12:19 7404 Aug 14 22:21 7404 Aug 16 12:03	13°≈06'33 15°≈ 15°≈52'55 0° ₩ 2° ₩ 50'55 30° R≈ 27°≈58'27 27°≈46'26	0°20'47
behind sun begin behind sun end max. Earth dist. asc. node morning rise retrograde min. Earth dist.	7398 Aug 22 09:50 7398 Aug 23 02:36 7398 Aug 25 06:07 7398 Aug 29 23:03 7398 Sep 05 11:47 7399 Jan 12 13:48 7399 Mar 11 15:03 7399 Mar 13 04:26 7399 May 10 23:49	5° m 52'49 6° m 02'40 6° m 33'06 7° m 39'39 9° m 11'36 28° m 51'27 23° m 59'46 23° m 47'05 18° m 48'26	6.02767 AU 4.10325 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct	7404 Feb 01 22:36 7404 Feb 10 15:08 7404 Feb 14 16:46 7404 May 01 23:04 7404 Jun 14 23:33 7404 Jul 29 12:19 7404 Aug 14 22:21 7404 Aug 16 12:03 7404 Oct 16 10:41	13°≈06'33 15°≈ 15°≈52'55 0° ₩ 2° ₩ 50'55 30°R≈ 27°≈58'27 27°≈46'26 22°≈58'00	0°20'47 0°11'29
behind sun begin behind sun end max. Earth dist. asc. node morning rise retrograde min. Earth dist. opposition direct	7398 Aug 22 09:50 7398 Aug 23 02:36 7398 Aug 25 06:07 7398 Aug 29 23:03 7398 Sep 05 11:47 7399 Jan 12 13:48 7399 Mar 11 15:03 7399 Mar 13 04:26 7399 May 10 23:49 7399 Aug 10 09:21	5° m 52'49 6° m 02'40 6° m 33'06 7° m 39'39 9° m 11'36 28° m 51'27 23° m 59'46 23° m 47'05 18° m 48'26 0° Ω	6.02767 AU 4.10325 AU	minimum elong morning rise retrograde opposition min. Earth dist.	7404 Feb 01 22:36 7404 Feb 10 15:08 7404 Feb 14 16:46 7404 May 01 23:04 7404 Jun 14 23:33 7404 Jul 29 12:19 7404 Aug 14 22:21 7404 Aug 16 12:03 7404 Oct 16 10:41 7404 Dec 06 09:05	13°≈06'33 15°≈ 15°≈52'55 0° ₩ 2° ₩ 50'55 30° R≈ 27°≈58'27 27°≈46'26 22°≈58'00 26°≈38'02	0°20'47 0°11'29
behind sun begin behind sun end max. Earth dist. asc. node morning rise retrograde min. Earth dist. opposition	7398 Aug 22 09:50 7398 Aug 23 02:36 7398 Aug 25 06:07 7398 Aug 29 23:03 7398 Sep 05 11:47 7399 Jan 12 13:48 7399 Mar 11 15:03 7399 Mar 13 04:26 7399 May 10 23:49	5° m 52'49 6° m 02'40 6° m 33'06 7° m 39'39 9° m 11'36 28° m 51'27 23° m 59'46 23° m 47'05 18° m 48'26	6.02767 AU 4.10325 AU	morning rise retrograde opposition min. Earth dist. direct desc. node	7404 Feb 01 22:36 7404 Feb 10 15:08 7404 Feb 14 16:46 7404 May 01 23:04 7404 Jun 14 23:33 7404 Jul 29 12:19 7404 Aug 14 22:21 7404 Aug 16 12:03 7404 Oct 16 10:41 7404 Dec 06 09:05 7404 Dec 28 00:12	13°≈06'33 15°≈ 15°≈52'55 0° ₩ 2° ₩ 50'55 30°R≈ 27°≈58'27 27°≈46'26 22°≈58'00 26°≈38'02 0° ₩	0°20'47 0°11'29
behind sun begin behind sun end max. Earth dist. asc. node morning rise retrograde min. Earth dist. opposition direct	7398 Aug 22 09:50 7398 Aug 23 02:36 7398 Aug 25 06:07 7398 Aug 25 23:03 7398 Sep 05 11:47 7399 Jan 12 13:48 7399 Mar 11 15:03 7399 Mar 13 04:26 7399 May 10 23:49 7399 Aug 10 09:21 7399 Sep 14 13:31	5° m 52'49 6° m 02'40 6° m 33'06 7° m 39'39 9° m 11'36 28° m 51'27 23° m 59'46 23° m 47'05 18° m 48'26 0° • • • • • • • • • • • • • • • • • • •	6.02767 AU 4.10325 AU 0°22'22	minimum elong morning rise retrograde opposition min. Earth dist. direct desc. node evening set	7404 Feb 01 22:36 7404 Feb 10 15:08 7404 Feb 14 16:46 7404 May 01 23:04 7404 Jun 14 23:33 7404 Jul 29 12:19 7404 Aug 14 22:21 7404 Aug 16 12:03 7404 Oct 16 10:41 7404 Dec 06 09:05 7404 Dec 28 00:12 7405 Feb 18 18:21	13°≈06'33 15°≈ 15°≈52'55 0° ₩ 2° ₩ 50'55 30° R≈ 27°≈58'27 27°≈46'26 22°≈58'00 26°≈38'02 0° ₩ 10° ₩ 43'17	0°20'47 0°11'29 4.39610 AU
behind sun begin behind sun end max. Earth dist. asc. node morning rise retrograde min. Earth dist. opposition direct evening set conjunction	7398 Aug 22 09:50 7398 Aug 23 02:36 7398 Aug 25 06:07 7398 Aug 25 23:03 7398 Sep 05 11:47 7399 Jan 12 13:48 7399 Mar 11 15:03 7399 Mar 13 04:26 7399 May 10 23:49 7399 Aug 10 09:21 7399 Sep 14 13:31	5° m 52'49 6° m 02'40 6° m 33'06 7° m 39'39 9° m 11'36 28° m 51'27 23° m 59'46 23° m 47'05 18° m 48'26 0° Ω 7° Ω 39'41	6.02767 AU 4.10325 AU 0°22'22	morning rise retrograde opposition min. Earth dist. direct desc. node	7404 Feb 01 22:36 7404 Feb 10 15:08 7404 Feb 14 16:46 7404 May 01 23:04 7404 Jun 14 23:33 7404 Jul 29 12:19 7404 Aug 14 22:21 7404 Aug 16 12:03 7404 Oct 16 10:41 7404 Dec 06 09:05 7404 Dec 28 00:12	13°≈06'33 15°≈ 15°≈52'55 0° ₩ 2° ₩ 50'55 30° R≈ 27°≈58'27 27°≈46'26 22°≈58'00 26°≈38'02 0° ₩ 10° ₩ 43'17	0°20'47 0°11'29
behind sun begin behind sun end max. Earth dist. asc. node morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	7398 Aug 22 09:50 7398 Aug 23 02:36 7398 Aug 25 06:07 7398 Aug 25 06:07 7398 Aug 29 23:03 7398 Sep 05 11:47 7399 Jan 12 13:48 7399 Mar 11 15:03 7399 Mar 13 04:26 7399 May 10 23:49 7399 Aug 10 09:21 7399 Sep 14 13:31 7399 Sep 28 04:52 7399 Sep 28 04:51	5° m 52'49 6° m 02'40 6° m 33'06 7° m 39'39 9° m 11'36 28° m 51'27 23° m 59'46 23° m 47'05 18° m 48'26 0° Ω 7° Ω 39'41 10° Ω 45'28 10° Ω 45'28	6.02767 AU 4.10325 AU 0°22'22 0°28'41 0°28'42	minimum elong morning rise retrograde opposition min. Earth dist. direct desc. node evening set max. Earth dist.	7404 Feb 01 22:36 7404 Feb 10 15:08 7404 Feb 14 16:46 7404 May 01 23:04 7404 Jun 14 23:33 7404 Jul 29 12:19 7404 Aug 14 22:21 7404 Aug 16 12:03 7404 Oct 16 10:41 7404 Dec 06 09:05 7404 Dec 28 00:12 7405 Feb 18 18:21 7405 Mar 01 05:18	13°≈06'33 15°≈ 15°≈52'55 0° ₩ 2° ₩ 50'55 30°R≈ 27°≈58'27 27°≈46'26 22°≈58'00 26°≈38'02 0° ₩ 10° ₩ 43'17 13° ₩ 03'15	0°20'47 0°11'29 4.39610 AU 6.32908 AU
behind sun begin behind sun end max. Earth dist. asc. node morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist.	7398 Aug 22 09:50 7398 Aug 23 02:36 7398 Aug 23 02:36 7398 Aug 25 06:07 7398 Aug 29 23:03 7398 Sep 05 11:47 7399 Jan 12 13:48 7399 Mar 11 15:03 7399 Mar 13 04:26 7399 May 10 23:49 7399 Aug 10 09:21 7399 Sep 14 13:31 7399 Sep 28 04:52 7399 Sep 28 04:51 7399 Sep 30 09:27	5° \$\mathbf{n}\$ 52'49 6° \$\mathbf{n}\$ 02'40 6° \$\mathbf{n}\$ 33'06 7° \$\mathbf{n}\$ 39'39 9° \$\mathbf{n}\$ 11'36 28° \$\mathbf{n}\$ 51'27 23° \$\mathbf{n}\$ 59'46 23° \$\mathbf{n}\$ 47'05 18° \$\mathbf{n}\$ 48'26 0° \$\mathbf{n}\$ 7° \$\mathbf{n}\$ 39'41 10° \$\mathbf{n}\$ 45'28 10° \$\mathbf{n}\$ 45'27 11° \$\mathbf{n}\$ 15'20	6.02767 AU 4.10325 AU 0°22'22	minimum elong morning rise retrograde opposition min. Earth dist. direct desc. node evening set max. Earth dist. conjunction	7404 Feb 01 22:36 7404 Feb 10 15:08 7404 Feb 14 16:46 7404 May 01 23:04 7404 Jun 14 23:33 7404 Jul 29 12:19 7404 Aug 14 22:21 7404 Aug 16 12:03 7404 Oct 16 10:41 7404 Dec 06 09:05 7404 Dec 28 00:12 7405 Feb 18 18:21 7405 Mar 01 05:18	13°≈06'33 15°≈ 15°≈52'55 0° ₩ 2° ₩ 50'55 30°R≈ 27°≈58'27 27°≈46'26 22°≈58'00 26°≈38'02 0° ₩ 10° ₩ 43'17 13° ₩ 03'15	0°20'47 0°11'29 4.39610 AU 6.32908 AU -0°06'10
behind sun begin behind sun end max. Earth dist. asc. node morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	7398 Aug 22 09:50 7398 Aug 23 02:36 7398 Aug 23 02:36 7398 Aug 25 06:07 7398 Aug 29 23:03 7398 Sep 05 11:47 7399 Jan 12 13:48 7399 Mar 11 15:03 7399 Mar 13 04:26 7399 May 10 23:49 7399 Aug 10 09:21 7399 Sep 14 13:31 7399 Sep 28 04:52 7399 Sep 28 04:51 7399 Sep 30 09:27 7399 Oct 11 20:27	5° \$\mathbf{n}\$ 52'49 6° \$\mathbf{n}\$ 02'40 6° \$\mathbf{n}\$ 33'06 7° \$\mathbf{n}\$ 39'39 9° \$\mathbf{n}\$ 11'36 28° \$\mathbf{n}\$ 51'27 23° \$\mathbf{n}\$ 59'46 23° \$\mathbf{n}\$ 48'26 0° \$\mathbf{n}\$ 7° \$\mathbf{n}\$ 39'41 10° \$\mathbf{n}\$ 45'28 10° \$\mathbf{n}\$ 45'27 11° \$\mathbf{n}\$ 15'20 13° \$\mathbf{n}\$ 50'57	6.02767 AU 4.10325 AU 0°22'22 0°28'41 0°28'42	minimum elong morning rise retrograde opposition min. Earth dist. direct desc. node evening set max. Earth dist. conjunction minimum elong	7404 Feb 01 22:36 7404 Feb 10 15:08 7404 Feb 14 16:46 7404 May 01 23:04 7404 Jun 14 23:33 7404 Jul 29 12:19 7404 Aug 14 22:21 7404 Aug 16 12:03 7404 Oct 16 10:41 7404 Dec 06 09:05 7404 Dec 28 00:12 7405 Feb 18 18:21 7405 Mar 01 05:18 7405 Mar 03 12:25 7405 Mar 03 12:25	13°≈06'33 15°≈ 15°≈52'55 0° ₩ 2° ₩ 50'55 30° R≈ 27°≈58'27 27°≈46'26 22°≈58'00 26°≈38'02 0° ₩ 10° ₩ 43'17 13° ₩ 03'15 13° ₩ 34'07 13° ₩ 34'06	0°20'47 0°11'29 4.39610 AU 6.32908 AU -0°06'10
behind sun begin behind sun end max. Earth dist. asc. node morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise	7398 Aug 22 09:50 7398 Aug 23 02:36 7398 Aug 23 02:36 7398 Aug 25 06:07 7398 Aug 29 23:03 7398 Sep 05 11:47 7399 Jan 12 13:48 7399 Mar 11 15:03 7399 Mar 13 04:26 7399 May 10 23:49 7399 Aug 10 09:21 7399 Sep 14 13:31 7399 Sep 28 04:52 7399 Sep 28 04:51 7399 Sep 30 09:27 7399 Oct 11 20:27 7400 Jan 07 03:57	5° \$\mathbf{n} 52'49 6° \$\mathbf{n} 02'40 6° \$\mathbf{n} 33'06 7° \$\mathbf{n} 39'39 9° \$\mathbf{n} 11'36 28° \$\mathbf{n} 51'27 23° \$\mathbf{n} 59'46 23° \$\mathbf{n} 47'05 18° \$\mathbf{n} 48'26 0° \$\mathbf{n} \\ 7° \$\mathbf{n} 39'41 10° \$\mathbf{n} 45'28 10° \$\mathbf{n} 45'27 11° \$\mathbf{n} 15'20 13° \$\mathbf{n} 50'57 0° \$\mathbf{n}\$.	6.02767 AU 4.10325 AU 0°22'22 0°28'41 0°28'42	minimum elong morning rise retrograde opposition min. Earth dist. direct desc. node evening set max. Earth dist. conjunction minimum elong behind sun begin	7404 Feb 01 22:36 7404 Feb 10 15:08 7404 Feb 14 16:46 7404 May 01 23:04 7404 Jun 14 23:33 7404 Jul 29 12:19 7404 Aug 14 22:21 7404 Aug 16 12:03 7404 Oct 16 10:41 7404 Dec 06 09:05 7404 Dec 28 00:12 7405 Feb 18 18:21 7405 Mar 01 05:18 7405 Mar 03 12:25 7405 Mar 03 04:51	13°≈06'33 15°≈ 15°≈52'55 0° ₩ 2° ₩ 50'55 30°R≈ 27°≈58'27 27°≈46'26 22°≈58'00 26°≈38'02 0° ₩ 10° ₩ 43'17 13° ₩ 03'15	0°20'47 0°11'29 4.39610 AU 6.32908 AU -0°06'10
behind sun begin behind sun end max. Earth dist. asc. node morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist.	7398 Aug 22 09:50 7398 Aug 23 02:36 7398 Aug 23 02:36 7398 Aug 25 06:07 7398 Aug 29 23:03 7398 Sep 05 11:47 7399 Jan 12 13:48 7399 Mar 11 15:03 7399 Mar 13 04:26 7399 May 10 23:49 7399 Aug 10 09:21 7399 Sep 14 13:31 7399 Sep 28 04:52 7399 Sep 28 04:51 7399 Sep 30 09:27 7399 Oct 11 20:27	5° \$\mathbf{n}\$ 52'49 6° \$\mathbf{n}\$ 02'40 6° \$\mathbf{n}\$ 33'06 7° \$\mathbf{n}\$ 39'39 9° \$\mathbf{n}\$ 11'36 28° \$\mathbf{n}\$ 51'27 23° \$\mathbf{n}\$ 59'46 23° \$\mathbf{n}\$ 48'26 0° \$\mathbf{n}\$ 7° \$\mathbf{n}\$ 39'41 10° \$\mathbf{n}\$ 45'28 10° \$\mathbf{n}\$ 45'27 11° \$\mathbf{n}\$ 15'20 13° \$\mathbf{n}\$ 50'57	6.02767 AU 4.10325 AU 0°22'22 0°28'41 0°28'42	minimum elong morning rise retrograde opposition min. Earth dist. direct desc. node evening set max. Earth dist. conjunction minimum elong	7404 Feb 01 22:36 7404 Feb 10 15:08 7404 Feb 14 16:46 7404 May 01 23:04 7404 Jun 14 23:33 7404 Jul 29 12:19 7404 Aug 14 22:21 7404 Aug 16 12:03 7404 Oct 16 10:41 7404 Dec 06 09:05 7404 Dec 28 00:12 7405 Feb 18 18:21 7405 Mar 01 05:18 7405 Mar 03 12:25 7405 Mar 03 12:25	13°≈06'33 15°≈ 15°≈52'55 0° ₩ 2° ₩ 50'55 30° R≈ 27°≈58'27 27°≈46'26 22°≈58'00 26°≈38'02 0° ₩ 10° ₩ 43'17 13° ₩ 03'15 13° ₩ 34'06 13° ₩ 34'06 13° ₩ 29'53	0°20'47 0°11'29 4.39610 AU 6.32908 AU -0°06'10
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behind sun begin behind sun end max. Earth dist. asc. node morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	7398 Aug 22 09:50 7398 Aug 23 02:36 7398 Aug 25 06:07 7398 Aug 29 23:03 7398 Sep 05 11:47 7399 Jan 12 13:48 7399 Mar 11 15:03 7399 Mar 13 04:26 7399 May 10 23:49 7399 Aug 10 09:21 7399 Sep 14 13:31 7399 Sep 28 04:52 7399 Sep 28 04:51 7399 Sep 30 09:27 7399 Oct 11 20:27 7400 Jan 07 03:57 7400 Feb 14 10:15 7400 Mar 24 13:38	5° \$\mathbf{n} 52'49 6° \$\mathbf{n} 02'40 6° \$\mathbf{n} 33'06 7° \$\mathbf{n} 39'39 9° \$\mathbf{n} 11'36 28° \$\mathbf{n} 51'27 23° \$\mathbf{n} 59'46 23° \$\mathbf{n} 48'26 0° \$\mathbf{n}\$ 7° \$\mathbf{n} 39'41 10° \$\mathbf{n} 45'28 10° \$\mathbf{n} 45'27 11° \$\mathbf{n} 15'20 13° \$\mathbf{n} 50'57 0° \$\mathbf{m}\$ 2° \$\mathbf{n} 16'28 30° \$\mathbf{n} \mathbf{n}\$	6.02767 AU 4.10325 AU 0°22'22 0°28'41 0°28'42 6.18643 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct desc. node evening set max. Earth dist. conjunction minimum elong behind sun begin behind sun end	7404 Feb 01 22:36 7404 Feb 10 15:08 7404 Feb 14 16:46 7404 May 01 23:04 7404 Jun 14 23:33 7404 Jul 29 12:19 7404 Aug 14 22:21 7404 Aug 16 12:03 7404 Oct 16 10:41 7404 Dec 06 09:05 7404 Dec 28 00:12 7405 Feb 18 18:21 7405 Mar 01 05:18 7405 Mar 03 12:25 7405 Mar 03 04:51 7405 Mar 03 19:59 7405 Mar 03 19:59 7405 Mar 16 05:21	13°≈06'33 15°≈ 15°≈52'55 0° ₩ 2° ₩ 50'55 30° R≈ 27°≈58'27 27°≈46'26 22°≈58'00 26°≈38'02 0° ₩ 10° ₩ 43'17 13° ₩ 34'07 13° ₩ 34'06 13° ₩ 29'53 13° ₩ 38'19 16° ₩ 24'37	0°20'47 0°11'29 4.39610 AU 6.32908 AU -0°06'10
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behind sun begin behind sun end max. Earth dist. asc. node morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. morning rise retrograde evening set conjunction direct evening set	7398 Aug 22 09:50 7398 Aug 23 02:36 7398 Aug 23 02:36 7398 Aug 25 06:07 7398 Aug 29 23:03 7398 Sep 05 11:47 7399 Jan 12 13:48 7399 Mar 11 15:03 7399 Mar 13 04:26 7399 May 10 23:49 7399 Aug 10 09:21 7399 Sep 14 13:31 7399 Sep 28 04:51 7399 Sep 28 04:51 7399 Sep 28 04:51 7399 Sep 30 09:27 7399 Oct 11 20:27 7400 Jan 07 03:57 7400 Feb 14 10:15 7400 Mar 24 13:38 7400 Apr 14 06:34 7400 Apr 15 10:32 7400 Jun 14 12:33 7400 Aug 29 06:26 7400 Nov 01 07:44 7400 Nov 01 07:43 7400 Nov 02 14:16	5° \$\mathbf{n} 52'49 6° \$\mathbf{n} 02'40 6° \$\mathbf{n} 33'06 7° \$\mathbf{n} 39'39 9° \$\mathbf{n} 11'36 28° \$\mathbf{n} 51'27 23° \$\mathbf{n} 59'46 23° \$\mathbf{n} 48'26 0° \$\mathbf{n} \text{2} 39'41 10° \$\mathbf{n} 45'28 10° \$\mathbf{n} 45'27 11° \$\mathbf{n} 15'20 13° \$\mathbf{n} 50'57 0° \$\mathbf{m} \text{2} 20'57 0° \$\mathbf{m} \text{2} 20'334 27° \$\mathbf{n} 16'28 30° \$\mathbf{n} \text{2} 21'32 0° \$\mathbf{m} \text{1} 10'25 13° \$\mathbf{m} 15'06 13° \$\mathbf{m} 15'05 13° \$\mathbf{m} 31'52	6.02767 AU 4.10325 AU 0°22'22 0°28'41 0°28'42 6.18643 AU 4.26855 AU 0°58'08	minimum elong morning rise retrograde opposition min. Earth dist. direct desc. node evening set max. Earth dist. conjunction minimum elong behind sun begin behind sun end morning rise retrograde opposition min. Earth dist. direct	7404 Feb 01 22:36 7404 Feb 10 15:08 7404 Feb 14 16:46 7404 May 01 23:04 7404 Jun 14 23:33 7404 Jul 29 12:19 7404 Aug 14 22:21 7404 Aug 16 12:03 7404 Oct 16 10:41 7404 Dec 06 09:05 7404 Dec 28 00:12 7405 Feb 18 18:21 7405 Mar 03 12:25 7405 Mar 03 12:25 7405 Mar 03 04:51 7405 Mar 03 19:59 7405 Mar 03 19:59 7405 Mar 16 05:21 7405 Mar 16 05:21 7405 Sep 16 17:22 7405 Sep 18 07:06 7405 Nov 17 06:41 7406 Jan 19 07:37	13°≈06'33 15°≈ 15°≈52'55 0°	0°20'47 0°11'29 4.39610 AU 6.32908 AU -0°06'10 0°06'09
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behind sun begin behind sun end max. Earth dist. asc. node morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. morning rise retrograde conjunction min Earth dist. opposition direct evening set conjunction minimum elong	7398 Aug 22 09:50 7398 Aug 23 02:36 7398 Aug 23 02:36 7398 Aug 25 06:07 7398 Aug 29 23:03 7398 Sep 05 11:47 7399 Jan 12 13:48 7399 Mar 11 15:03 7399 Mar 13 04:26 7399 May 10 23:49 7399 Aug 10 09:21 7399 Sep 14 13:31 7399 Sep 28 04:51 7399 Sep 28 04:51 7399 Sep 28 04:51 7399 Sep 30 09:27 7399 Oct 11 20:27 7400 Jan 07 03:57 7400 Feb 14 10:15 7400 Mar 24 13:38 7400 Apr 14 06:34 7400 Apr 15 10:32 7400 Jun 14 12:33 7400 Aug 29 06:26 7400 Nov 01 07:44 7400 Nov 01 07:43 7400 Nov 02 14:16	5° \$\mathbf{n} 52'49 6° \$\mathbf{n} 02'40 6° \$\mathbf{n} 33'06 7° \$\mathbf{n} 39'39 9° \$\mathbf{n} 11'36 28° \$\mathbf{n} 51'27 23° \$\mathbf{n} 59'46 23° \$\mathbf{n} 48'26 0° \$\mathbf{n} \text{2} 39'41 10° \$\mathbf{n} 45'28 10° \$\mathbf{n} 45'27 11° \$\mathbf{n} 15'20 13° \$\mathbf{n} 50'57 0° \$\mathbf{m} \text{2} 20'57 0° \$\mathbf{m} \text{2} 20'334 27° \$\mathbf{n} 16'28 30° \$\mathbf{n} \text{2} 21'32 0° \$\mathbf{m} \text{1} 10'25 13° \$\mathbf{m} 15'06 13° \$\mathbf{m} 15'05 13° \$\mathbf{m} 31'52	6.02767 AU 4.10325 AU 0°22'22 0°28'41 0°28'42 6.18643 AU 4.26855 AU 0°58'08	minimum elong morning rise retrograde opposition min. Earth dist. direct desc. node evening set max. Earth dist. conjunction minimum elong behind sun begin behind sun end morning rise retrograde opposition min. Earth dist. direct evening set	7404 Feb 01 22:36 7404 Feb 10 15:08 7404 Feb 14 16:46 7404 May 01 23:04 7404 Jun 14 23:33 7404 Jul 29 12:19 7404 Aug 14 22:21 7404 Aug 16 12:03 7404 Oct 16 10:41 7404 Dec 06 09:05 7404 Dec 28 00:12 7405 Feb 18 18:21 7405 Mar 03 12:25 7405 Mar 03 12:25 7405 Mar 03 04:51 7405 Mar 03 19:59 7405 Mar 03 19:59 7405 Mar 16 05:21 7405 Mar 16 05:21 7405 Sep 16 17:22 7405 Sep 18 07:06 7405 Nov 17 06:41 7406 Mar 22 19:29	13°≈06'33 15°≈ 15°≈52'55 0°	0°20'47 0°11'29 4.39610 AU 6.32908 AU -0°06'10 0°06'09 -0°29'00 4.25089 AU 6.16803 AU -0°32'17

	7406 4 17 00 24	1000044122		. 1	7412 F. J. 10, 20, 57	60 m 52104	
morning rise	7406 Apr 17 08:24	18° Y 44'33		retrograde	7412 Feb 19 20:56	6°M52'04	
	7406 Jun 09 00:27	0°8		opposition	7412 Apr 19 21:05	1°M.50'13	1°01'31
retrograde	7406 Aug 22 12:53	7° 8 44'33		min. Earth dist.	7412 Apr 18 19:10	1°M58'52	4.28534 AU
opposition	7406 Oct 21 21:39	2° 8 49'34	-1°03'12		7412 May 03 23:17	30° ₹ Ω	
min. Earth dist.	7406 Oct 23 00:52	2° 8 40'43	4.08551 AU	direct	7412 Jun 19 03:51	26° ≏ 49'22	
	7406 Nov 14 00:49	30° ŖƳ			7412 Aug 04 13:01	0° M	
direct	7406 Dec 21 03:02	27° Ƴ 53'11		evening set	7412 Oct 23 11:12	14° M 49'31	
	7407 Jan 26 16:44	$_{0\circ}$ 8			7412 Oct 24 06:27	15° ™	
	7407 Apr 16 18:16	15° 8					
evening set	7407 Apr 25 23:18	17° 8 10'41		conjunction	7412 Nov 05 21:32	17° M 45'47	0°48'30
C	•			minimum elong	7412 Nov 05 21:31	17° M L45'46	0°48'34
conjunction	7407 May 08 21:24	20° 8 16'24	-0°48'54	max. Earth dist.	7412 Nov 07 00:23	18° M ₀00'29	6.36002 AU
minimum elong	7407 May 08 21:23	20° 8 16'24		morning rise	7412 Nov 19 06:30	20°M41'06	0.50002710
max. Earth dist.	7407 May 07 20:46	20° 8 01'37		morning rise	7412 Jan 04 00:42	0° √	
	•	_	0.012/3 AU				
morning rise	7407 May 21 21:02	23° 8 23'12		retrograde	7413 Mar 21 12:32	7° ₹ 57'58	1014122
	7407 Jun 19 09:13	0°II		opposition	7413 May 20 23:15	2° ₹ 59'33	1°14'32
retrograde	7407 Sep 29 09:38	13° Ⅱ 35'09		min. Earth dist.	7413 May 20 14:32	3° ∡ '02'25	4.42082 AU
opposition	7407 Nov 28 07:05	8° Ⅱ 37'11			7413 Jun 14 12:13	30°RM₊	
min. Earth dist.	7407 Nov 28 11:11		3.95551 AU	direct	7413 Jul 21 11:58	27°M57'46	
direct	7408 Jan 26 01:17	3° Ⅱ 42'38			7413 Aug 27 21:39	0° ∡ ¹	
evening set	7408 May 31 09:19	23° Ⅲ 37'35		evening set	7413 Nov 24 11:30	15° ∡ ¹24'52	
conjunction	7408 Jun 13 14:12	26° Ⅱ 50'45	-0°47'41	conjunction	7413 Dec 07 16:08	18° ∡ 14'40	0°50'29
minimum elong	7408 Jun 13 14:13	26° Ⅱ 50'46	0°47'47	minimum elong	7413 Dec 07 16:08	18° ∡ 14'40	0°50'35
max. Earth dist.	7408 Jun 14 01:24	26° I 57'36	5.92080 AU	max. Earth dist.	7413 Dec 07 14:10	18° х 1113	6.46495 AU
morning rise	7408 Jun 26 21:40	0°905'24	3.72000 110	morning rise	7413 Dec 07 14:10 7413 Dec 20 18:25	21° × 1337	0.404/3/110
morning rise		0°90324		morning rise		21 x 03 18 0°る	
. 1	7408 Jun 26 12:45				7414 Feb 03 10:38		
retrograde	7408 Nov 06 05:19	20°956'38		retrograde	7414 Apr 20 07:00	7° る 45'15	
opposition	7409 Jan 04 17:34	15° © 55'07		opposition	7414 Jun 20 01:44	2°る50'05	1°07'02
min. Earth dist.	7409 Jan 03 21:52		3.91302 AU	min. Earth dist.	7414 Jun 20 12:35	2° る 46'34	4.48953 AU
direct	7409 Mar 03 16:42	11° © 00'36			7414 Jul 13 11:17	30°Ŗ ⋌ ¹	
	7409 Jul 03 23:31	$0 {\circ} \Omega$		direct	7414 Aug 21 12:21	27° ∡ ¹48'13	
evening set	7409 Jul 08 06:41	1° Ω 02'00			7414 Sep 29 19:46	8°0	
				evening set	7414 Dec 25 02:59	15° る 01'33	
conjunction	7409 Jul 21 19:09	4° Ω 18'14	-0°27'14	max. Earth dist.	7415 Jan 05 20:19	17° る 32'11	6.49244 AU
minimum elong	7409 Jul 21 19:11	4° Ω 18'15	0°27'20				
max. Earth dist.	7409 Jul 23 16:34		5.93201 AU	conjunction	7415 Jan 07 02:19	17° る 48'17	0°38'58
	7409 Aug 04 10:02	7° Ω 35'40	3.73201 AO	minimum elong	7415 Jan 07 02:19	17°る48'18	0°39'04
morning rise	0			2			0 39 04
	7409 Sep 05 07:57	15° Ω		morning rise	7415 Jan 19 23:30	20° る 33'59	
retrograde	7409 Dec 13 23:24	28° Ω 09'58		_	7415 Mar 08 10:37	0° ≈	
min. Earth dist.	7410 Feb 09 21:49		3.97707 AU	retrograde	7415 May 20 06:04	7° ≈ 11'03	
opposition	7410 Feb 11 09:01	23° Ω 05'53	-0°18'05	opposition	7415 Jul 20 04:57	2° ≈ 17'54	0°42'23
direct	7410 Apr 10 09:31	18° Ω 09'27		min. Earth dist.	7415 Jul 21 09:15	2° ≈ 08'52	4.47495 AU
	7410 Jul 11 23:17	0° m)			7415 Aug 07 21:37	30°Ŗる	
asc. node	7410 Jul 13 06:17	0° m)16′37		direct	7415 Sep 20 23:46	27° る 16'28	
evening set	7410 Aug 15 02:45	7° m 43'05			7415 Nov 03 22:45	0° ≈	
	•			evening set	7416 Jan 24 08:01	14° ≈ 37'37	
conjunction	7410 Aug 28 19:02	10° m 55'54	0°03'43	•	7416 Jan 26 01:22	15° ≈	
minimum elong	7410 Aug 28 19:02	10° m 55'54	0°03'41	max. Earth dist.	7416 Feb 04 03:57	16° ≈ 58'55	6.43636 AU
behind sun begin	7410 Aug 28 10:44	10° m/51'02	0 05 .1	man. Bartin diot.	7.110100 01 03.57	10 10 00 00	0.15050110
behind sun end	7410 Aug 29 03:21	11° Mp 00'46		conjunction	7416 Feb 06 03:50	17° ≈ 25'02	0°17'11
		-	6 04160 ATT	·			
max. Earth dist.	7410 Aug 31 05:58	11° m ,30'32	6.04168 AU	minimum elong	7416 Feb 06 03:51	17° ≈ 25′03	0°17'14
morning rise	74100 11 10 57	1.40 70.0011.1			7416 F. L. 10 21 25	200-11141	
	7410 Sep 11 12:57	14° m 09'11		morning rise	7416 Feb 18 21:35	20° ≈ 11'41	
retrograde	7410 Nov 30 03:40	0∘ ⊽		C	7416 Apr 07 12:06	0°) €	
retrograde	7410 Nov 30 03:40 7411 Jan 18 04:21	0° ഫ 3° ഫ 41'25		morning rise	7416 Apr 07 12:06 7416 Jun 19 08:30	0° 米 7° 米 14'23	
retrograde	7410 Nov 30 03:40	0∘ ⊽		C	7416 Apr 07 12:06	0° 光 7° 光 14'23 2° 光 21'50	0°05'54
min. Earth dist.	7410 Nov 30 03:40 7411 Jan 18 04:21	0° ഫ 3° ഫ 41'25	4.11950 AU	retrograde	7416 Apr 07 12:06 7416 Jun 19 08:30	0° 米 7° 米 14'23	0°05'54 4.38041 AU
	7410 Nov 30 03:40 7411 Jan 18 04:21 7411 Mar 08 13:34	0° Ω 3° Ω 41'25 30°R M	4.11950 AU 0°28'05	retrograde opposition	7416 Apr 07 12:06 7416 Jun 19 08:30 7416 Aug 19 08:42	0° 光 7° 光 14'23 2° 光 21'50	
min. Earth dist.	7410 Nov 30 03:40 7411 Jan 18 04:21 7411 Mar 08 13:34 7411 Mar 17 07:21	0° Ω 3° Ω 41'25 30° R ሙ 28° ሙ 49'49		retrograde opposition	7416 Apr 07 12:06 7416 Jun 19 08:30 7416 Aug 19 08:42 7416 Aug 20 22:19	0°¥ 7°¥14'23 2°¥21'50 2°¥09'50	
min. Earth dist.	7410 Nov 30 03:40 7411 Jan 18 04:21 7411 Mar 08 13:34 7411 Mar 17 07:21 7411 Mar 18 20:31 7411 May 16 18:43	0°		retrograde opposition min. Earth dist.	7416 Apr 07 12:06 7416 Jun 19 08:30 7416 Aug 19 08:42 7416 Aug 20 22:19 7416 Sep 07 15:58 7416 Oct 16 06:15	0° X 7° X 14'23 2° X 21'50 2° X 09'50 30° R≈ 27°≈23'23	
min. Earth dist. opposition direct	7410 Nov 30 03:40 7411 Jan 18 04:21 7411 Mar 08 13:34 7411 Mar 17 07:21 7411 Mar 18 20:31 7411 May 16 18:43 7411 Jul 21 23:19	0° ົ 3° ፲ 41'25 30° R ጥ 28° ጥ 49'49 28° ጥ 37'13 23° ጥ 38'13 0° ፲		retrograde opposition min. Earth dist. desc. node	7416 Apr 07 12:06 7416 Jun 19 08:30 7416 Aug 19 08:42 7416 Aug 20 22:19 7416 Sep 07 15:58 7416 Oct 16 06:15 7416 Oct 20 18:10	0° X 7° X 14'23 2° X 21'50 2° X 09'50 30° R≈ 27°≈23'23 27°≈21'32	
min. Earth dist.	7410 Nov 30 03:40 7411 Jan 18 04:21 7411 Mar 08 13:34 7411 Mar 17 07:21 7411 Mar 18 20:31 7411 May 16 18:43	0° <u>A</u> 3° <u>A</u> 41'25 30° R M 28° M 49'49 28° M 37'13 23° M 38'13		retrograde opposition min. Earth dist. desc. node direct	7416 Apr 07 12:06 7416 Jun 19 08:30 7416 Aug 19 08:42 7416 Aug 20 22:19 7416 Sep 07 15:58 7416 Oct 16 06:15 7416 Oct 20 18:10 7416 Dec 02 13:06	0° \	
min. Earth dist. opposition direct evening set	7410 Nov 30 03:40 7411 Jan 18 04:21 7411 Mar 08 13:34 7411 Mar 17 07:21 7411 Mar 18 20:31 7411 May 16 18:43 7411 Jul 21 23:19 7411 Sep 20 09:34	0°	0°28'05	retrograde opposition min. Earth dist. desc. node direct evening set	7416 Apr 07 12:06 7416 Jun 19 08:30 7416 Aug 19 08:42 7416 Aug 20 22:19 7416 Sep 07 15:58 7416 Oct 16 06:15 7416 Oct 20 18:10 7416 Dec 02 13:06 7417 Feb 23 02:52	0° ★ 7° ★14'23 2° ★21'50 2° ★09'50 30° ₹≈ 27°≈23'23 27°≈21'32 0° ★ 15° ★11'22	4.38041 AU
min. Earth dist. opposition direct evening set conjunction	7410 Nov 30 03:40 7411 Jan 18 04:21 7411 Mar 08 13:34 7411 Mar 17 07:21 7411 Mar 18 20:31 7411 May 16 18:43 7411 Jul 21 23:19 7411 Sep 20 09:34 7411 Oct 04 00:43	0°	0°28'05 0°31'55	retrograde opposition min. Earth dist. desc. node direct	7416 Apr 07 12:06 7416 Jun 19 08:30 7416 Aug 19 08:42 7416 Aug 20 22:19 7416 Sep 07 15:58 7416 Oct 16 06:15 7416 Oct 20 18:10 7416 Dec 02 13:06	0° \	
min. Earth dist. opposition direct evening set conjunction minimum elong	7410 Nov 30 03:40 7411 Jan 18 04:21 7411 Mar 08 13:34 7411 Mar 17 07:21 7411 Mar 18 20:31 7411 May 16 18:43 7411 Jul 21 23:19 7411 Sep 20 09:34 7411 Oct 04 00:43 7411 Oct 04 00:42	0°	0°28'05 0°31'55 0°31'57	retrograde opposition min. Earth dist. desc. node direct evening set max. Earth dist.	7416 Apr 07 12:06 7416 Jun 19 08:30 7416 Aug 19 08:42 7416 Aug 20 22:19 7416 Sep 07 15:58 7416 Oct 16 06:15 7416 Oct 20 18:10 7416 Dec 02 13:06 7417 Feb 23 02:52 7417 Mar 05 14:04	0° X 7° X 14'23 2° X 21'50 2° X 09'50 30° R ≈ 27°≈23'23 27°≈21'32 0° X 15° X 11'22 17° X 32'05	4.38041 AU 6.30971 AU
min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist.	7410 Nov 30 03:40 7411 Jan 18 04:21 7411 Mar 08 13:34 7411 Mar 17 07:21 7411 Mar 18 20:31 7411 May 16 18:43 7411 Jul 21 23:19 7411 Sep 20 09:34 7411 Oct 04 00:43 7411 Oct 04 00:42 7411 Oct 06 03:43	0° Ω 3° Ω 41'25 30° R M 28° M 49'49 28° M 38'13 0° Ω 12° Ω 24'58 15° Ω 29'51 15° Ω 29'50 15° Ω 58'43	0°28'05 0°31'55	retrograde opposition min. Earth dist. desc. node direct evening set max. Earth dist. conjunction	7416 Apr 07 12:06 7416 Jun 19 08:30 7416 Aug 19 08:42 7416 Aug 20 22:19 7416 Sep 07 15:58 7416 Oct 16 06:15 7416 Oct 20 18:10 7416 Dec 02 13:06 7417 Feb 23 02:52 7417 Mar 05 14:04	0° X 7° X 14'23 2° X 21'50 2° X 09'50 30° R ≈ 27°≈23'23 27°≈21'32 0° X 15° X 11'22 17° X 32'05 18° X 02'51	4.38041 AU 6.30971 AU -0°10'02
min. Earth dist. opposition direct evening set conjunction minimum elong	7410 Nov 30 03:40 7411 Jan 18 04:21 7411 Mar 08 13:34 7411 Mar 17 07:21 7411 Mar 18 20:31 7411 May 16 18:43 7411 Jul 21 23:19 7411 Sep 20 09:34 7411 Oct 04 00:43 7411 Oct 04 00:42 7411 Oct 06 03:43 7411 Oct 17 15:39	0° Ω 3° Ω 41'25 30° R M 28° M 49'49 28° M 38'13 0° Ω 12° Ω 24'58 15° Ω 29'50 15° Ω 58'43 18° Ω 34'19	0°28'05 0°31'55 0°31'57	retrograde opposition min. Earth dist. desc. node direct evening set max. Earth dist. conjunction minimum elong	7416 Apr 07 12:06 7416 Jun 19 08:30 7416 Aug 19 08:42 7416 Aug 20 22:19 7416 Sep 07 15:58 7416 Oct 16 06:15 7416 Oct 20 18:10 7416 Dec 02 13:06 7417 Feb 23 02:52 7417 Mar 05 14:04 7417 Mar 07 20:46 7417 Mar 07 20:46	0° \(\) 7° \(\) 14'23 2° \(\) 21'50 2° \(\) 09'50 30° \ 8≈ 27° ≈23'23 27° ≈21'32 0° \(\) 15° \(\) 11'22 17° \(\) 32'05 18° \(\) 02'51 18° \(\) 02'51	4.38041 AU 6.30971 AU
min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist.	7410 Nov 30 03:40 7411 Jan 18 04:21 7411 Mar 08 13:34 7411 Mar 17 07:21 7411 Mar 18 20:31 7411 May 16 18:43 7411 Jul 21 23:19 7411 Sep 20 09:34 7411 Oct 04 00:43 7411 Oct 04 00:42 7411 Oct 06 03:43	0° Ω 3° Ω 41'25 30° R M 28° M 49'49 28° M 38'13 0° Ω 12° Ω 24'58 15° Ω 29'51 15° Ω 29'50 15° Ω 58'43	0°28'05 0°31'55 0°31'57	retrograde opposition min. Earth dist. desc. node direct evening set max. Earth dist. conjunction	7416 Apr 07 12:06 7416 Jun 19 08:30 7416 Aug 19 08:42 7416 Aug 20 22:19 7416 Sep 07 15:58 7416 Oct 16 06:15 7416 Oct 20 18:10 7416 Dec 02 13:06 7417 Feb 23 02:52 7417 Mar 05 14:04	0° X 7° X 14'23 2° X 21'50 2° X 09'50 30° R ≈ 27°≈23'23 27°≈21'32 0° X 15° X 11'22 17° X 32'05 18° X 02'51	4.38041 AU 6.30971 AU -0°10'02

behind sun end	7417 Mar 08 03:14	18° ¥ 06′28			7422 Nov 05 09:31	0∘ ত	
morning rise	7417 Mar 08 03:14 7417 Mar 20 13:40	20°\(\)54'08		retrograde	7422 Nov 03 09:31 7423 Jan 22 23:25	0 = 8° ჲ 38'09	
morning rise	7417 May 02 15:26	20 γ 34 08		min. Earth dist.	7423 Jan 22 23:23 7423 Mar 22 03:42	ა = 3809 3° Ω 46'19	4.14321 AU
	•	8° Υ 51'03					
retrograde	7417 Jul 22 17:10		002.427	opposition	7423 Mar 23 15:38	3° £ 34'10	0°33'51
opposition	7417 Sep 21 10:52	3° Y 57'44		1.	7423 Apr 22 06:06	30°R Mp	
min. Earth dist.	7417 Sep 23 00:59		4.22886 AU	direct	7423 May 21 18:58	28° m/34'55	
	7417 Oct 27 05:27	30° ₹			7423 Jun 20 13:26	0∘ ⊽	
direct	7417 Nov 21 21:34	28° ¥ 59'18		evening set	7423 Sep 25 07:52	17° ≏ 14'19	
	7417 Dec 17 10:23	0° Υ					
evening set	7418 Mar 27 09:42	17° Y 33'56		conjunction	7423 Oct 08 22:26	20° £ 17'53	0°35'04
max. Earth dist.	7418 Apr 07 06:13	20° Y 05′26	6.14511 AU	minimum elong	7423 Oct 08 22:25	20° ≙ 17'52	
		••		max. Earth dist.	7423 Oct 10 23:44	20° Ω 45'37	6.22869 AU
conjunction	7418 Apr 09 04:27	20° Y 32′25		morning rise	7423 Oct 22 12:39	23° Ω 20'56	
minimum elong	7418 Apr 09 04:26	20° Y 32'24	0°35'25		7423 Nov 22 09:30	0°M	
morning rise	7418 Apr 21 23:29	23° Y 31′22		retrograde	7424 Feb 24 05:08	11°M28'13	
	7418 May 20 17:03	0° 8		min. Earth dist.	7424 Apr 23 07:06	6° ™ 35'04	4.30953 AU
retrograde	7418 Aug 27 15:02	12° 8 41'55		opposition	7424 Apr 24 07:55	6°M26'47	1°04'34
opposition	7418 Oct 26 23:00	7° 8 46'34		direct	7424 Jun 23 18:29	1°M25'46	
min. Earth dist.	7418 Oct 27 22:56	7° 8 38'45	4.06369 AU		7424 Oct 07 17:40	15° M	
direct	7418 Dec 25 22:15	2° 8 50'28		evening set	7424 Oct 28 01:03	19°M19'21	
	7419 Mar 30 11:48	15° 8					
evening set	7419 Apr 30 21:26	22° 8 14'38		conjunction	7424 Nov 10 10:33	22°M14'23	0°49'37
				minimum elong	7424 Nov 10 10:32	22°M14'23	0°49'42
conjunction	7419 May 13 20:18	25° 8 21'33	-0°49'54	max. Earth dist.	7424 Nov 11 09:32	22°M26'56	6.38159 AU
minimum elong	7419 May 13 20:18	25° 8 21'32	0°49'59	morning rise	7424 Nov 23 18:27	25°M08'25	
max. Earth dist.	7419 May 13 00:14	25° 8 09'27	5.99408 AU		7424 Dec 16 18:06	0° ∡ ¹	
morning rise	7419 May 26 20:51	28° 8 29'37		retrograde	7425 Mar 25 17:10	12° ∡ 17'44	
	7419 Jun 02 04:24	$\Pi^{\circ}0$		opposition	7425 May 25 04:35	7° ∡ 19'51	1°14'35
retrograde	7419 Oct 04 19:17	18° Ⅲ 50′15		min. Earth dist.	7425 May 24 23:03	7° ∡ ¹21'39	4.43820 AU
opposition	7419 Dec 03 14:33	13° Ⅱ 51'48	-1°16'02	direct	7425 Jul 25 22:04	2° ∡ 18′01	
min. Earth dist.	7419 Dec 03 16:04	13° Ⅱ 51'17	3.94194 AU	evening set	7425 Nov 28 18:33	19° ∡ ¹40'51	
direct	7420 Jan 31 05:39	8° Ⅱ 57'23					
evening set	7420 Jun 05 14:30	28° Ⅲ 56′08		conjunction	7425 Dec 11 22:16	22° ∡ ¹29'52	0°49'36
	7420 Jun 09 23:26	0° ©		minimum elong	7425 Dec 11 22:16	22° ₹ '29'52	0°49'41
				max. Earth dist.	7425 Dec 11 15:13	22° ∡ ¹26′05	6.47670 AU
conjunction	7420 Jun 18 20:37	2° © 10'13	-0°45'51	morning rise	7425 Dec 24 23:48	25° ∡ 17'44	
minimum elong	7420 Jun 18 20:38	2°510'14	0°45'56	•	7426 Jan 16 13:53	0°రె	
max. Earth dist.	7420 Jun 19 13:40	2° 5 20'38	5.91385 AU	retrograde	7426 Apr 24 08:44	11° る 56'21	
morning rise	7420 Jul 02 05:13	5° © 25'44		opposition	7426 Jun 24 04:36	7° る 01'31	1°04'29
retrograde	7420 Nov 11 15:29	26°©18'58		min. Earth dist.	7426 Jun 24 18:21	6° る 57'05	4.49507 AU
min. Earth dist.	7421 Jan 09 03:13	21° 9 524'41	3.91378 AU	direct	7426 Aug 25 17:13	1° る 59'37	
opposition	7421 Jan 10 01:49	21°917'04		evening set	7426 Dec 29 06:23	19° る 12'04	
direct	7421 Mar 08 23:02	16° © 22'27		max. Earth dist.	7427 Jan 09 21:00	21° る 41'17	6.49128 AU
	7421 Jun 16 09:56	$0^{\circ}\Omega$					
evening set	7421 Jul 13 14:55	6° Ω 22'43		conjunction	7427 Jan 11 05:15	21° る 58'37	0°36'27
Č				minimum elong	7427 Jan 11 05:17	21°る58'38	0°36'33
conjunction	7421 Jul 27 04:06	9° Ω 38'57	-0°23'12	morning rise	7427 Jan 24 01:39	24° る 44'07	
minimum elong	7421 Jul 27 04:08	9° Ω 38'58		C	7427 Feb 18 09:07	0° ≈	
max. Earth dist.	7421 Jul 29 03:45	10° Ω 07'44	5.94028 AU	retrograde	7427 May 24 08:47	11° ≈ 22'30	
morning rise	7421 Aug 09 19:57	12° Ω 56'22		opposition	7427 Jul 24 09:07	6° ≈ 29'33	0°37'53
Č	7421 Aug 18 11:45	15° Ω		min. Earth dist.	7427 Jul 25 15:09	6°≈19'58	4.46709 AU
	7421 Nov 02 05:58	0° m)		direct	7427 Sep 25 03:19	1°≈28'13	
retrograde	7421 Dec 19 01:03	3°m/24'51			7428 Jan 10 07:52	15° ≈	
C	7422 Feb 04 03:07	30°R Ω		evening set	7428 Jan 28 11:43	18° ≈ 52'05	
min. Earth dist.	7422 Feb 14 23:03	28° Ω 33'16	3.99202 AU	max. Earth dist.	7428 Feb 08 03:52	21° ≈ 11'51	6.42210 AU
opposition	7422 Feb 16 12:15	28° Ω 20'36			,		
direct	7422 Apr 15 14:04	23° Ω 23'52	*	conjunction	7428 Feb 10 07:01	21° ≈ 39'52	0°13'37
asc. node	7422 May 22 16:38	25° Ω 38'42		minimum elong	7428 Feb 10 07:02	21° ≈ 39'52	0°13'40
	7422 Jun 20 20:53	0° m)		behind sun begin	7428 Feb 10 02:39	21°≈37'29	,
evening set	7422 July 20 20:35	12° m) 52'05		behind sun end	7428 Feb 10 11:24	21°≈42'15	
J. J		12 mg 32 03		morning rise	7428 Feb 23 00:40	24°≈26'59	
conjunction	7422 Sep 03 00:37	16° Mp 04'02	0°08'08		7428 Mar 20 05:13	0° \	
minimum elong	7422 Sep 03 00:37 7422 Sep 03 00:36	16° Mp 04'01	0°08'06	retrograde	7428 Jun 23 19:57	11° X 35'55	
behind sun begin	7422 Sep 03 00:30 7422 Sep 02 17:11	15° Mp 59'42	5 55 50	opposition	7428 Aug 23 18:24	6°) 43'22	0°00'21
behind sun end	7422 Sep 02 17:11 7422 Sep 03 08:01	16° Mp 08'20		min. Earth dist.	7428 Aug 25 18:24 7428 Aug 25 09:59	6°) (30'43	4.36034 AU
max. Earth dist.	7422 Sep 05 08:01 7422 Sep 05 12:29	16° Mp 39'03	6.06212 AU	desc. node	7428 Aug 27 02:40	6°) 17'44	
morning rise	7422 Sep 03 12:29 7422 Sep 16 18:17	10 mg 3903 19° mg 16'15	5.00212 AU	direct	7428 Aug 27 02:40 7428 Oct 25 02:23	1°) (43'11	
	, 122 Sep 10 10.17	1.7 mg 10 13		anoci	, 120 000 20 02.23	. 17-13 11	

minimum elong	7440 Feb 14 13:20	26° ≈ 01'33	0°09'57	max. Earth dist.	7445 Aug 09 07:04	20°Ω56'35	5.97064 AU
behind sun begin	7440 Feb 14 06:51	25°≈58'01	0 0737	morning rise	7445 Aug 20 16:44	23° Ω 39'53	3.77004 AC
behind sun end	7440 Feb 14 19:48	26°≈05'06		morning rise	7445 Sep 17 03:29	0° m)	
morning rise	7440 Feb 27 06:36	28°≈49'14		retrograde	7445 Dec 29 03:37	13° m 50'23	
morning rise	7440 Mar 03 16:29	0° ∀		asc. node	7446 Feb 08 19:02	11° Mp 06'18	
retrograde	7440 Jun 28 09:17	16° ¥ 05'23		min. Earth dist.	7446 Feb 25 01:22	8° m 59'01	4.03434 AU
desc. node	7440 Jul 06 12:51	15°) 59'12		opposition	7446 Feb 26 16:02	8° Mp 45'52	0°02'07
opposition	7440 Aug 28 07:40	11°) 12'49	-0°05'25	direct	7446 Apr 26 00:06	3° Mp 48'21	0 02 07
min. Earth dist.	7440 Aug 29 23:16	11°)(00'11	4.33864 AU	evening set	7446 Aug 30 15:38	23° mp 01'29	
direct	7440 Oct 29 11:33	6°) 12'57			, , , , , , , , , , , , , , , , , , , ,		
evening set	7441 Mar 03 22:07	24°) 15'37		conjunction	7446 Sep 13 07:50	26° m) 10'59	0°16'36
max. Earth dist.	7441 Mar 14 08:51	26°) (37'40	6.26071 AU	minimum elong	7446 Sep 13 07:49	26° m 10'59	0°16'36
				max. Earth dist.	7446 Sep 15 17:48	26° Mp 44'30	6.11187 AU
conjunction	7441 Mar 16 16:01	27°) €09'03	-0°17'39	morning rise	7446 Sep 27 00:58	29° m/20'34	
minimum elong	7441 Mar 16 16:00	27°) 09'03	0°17'39		7446 Sep 29 21:58	0∘ ಹ	
morning rise	7441 Mar 29 09:21	0° Υ 02'29		retrograde	7447 Feb 01 05:04	18° ≏ 19'12	
	7441 Mar 29 04:58	0°Υ		min. Earth dist.	7447 Mar 31 15:08	13° £ 26'57	4.19515 AU
retrograde	7441 Aug 01 13:05	18° Y 20'43		opposition	7447 Apr 02 00:27	13° ≏ 15'43	0°44'20
opposition	7441 Oct 01 03:06	13° Y 27'00	-0°44'54	direct	7447 May 31 12:46	8° £ 15'49	
min. Earth dist.	7441 Oct 02 14:37		4.17601 AU	evening set	7447 Oct 04 22:41	26° ♀ 39'54	
direct	7441 Dec 01 03:31	8° Υ 29'12	,	**************************************	, , , , , , , , , , , , , , , , , , , ,		
evening set	7442 Apr 05 20:26	27° Υ 20'21		conjunction	7447 Oct 18 12:03	29° £ 40'47	0°40'32
max. Earth dist.	7442 Apr 17 00:27	29° Y 58'00	6.09314 AU	minimum elong	7447 Oct 18 12:01	29° £ 40'46	0°40'36
	7442 Apr 17 03:50	0°8			7447 Oct 19 22:33	0°M	
	,	• •		max. Earth dist.	7447 Oct 20 06:49	0°ML04'36	6.27844 AU
conjunction	7442 Apr 18 16:11	0° 8 21'28	-0°40'56	morning rise	7447 Nov 01 00:29	2°M40'57	
minimum elong	7442 Apr 18 16:10	0° 8 21'27			7448 Jan 02 02:54	15°ML	
morning rise	7442 May 01 12:28	3° 8 23'13		retrograde	7448 Mar 03 19:53	20°M28'49	
3	7442 Jun 23 23:53	15° 8		min. Earth dist.	7448 May 02 05:51	15°MJ34'50	4.35325 AU
retrograde	7442 Sep 07 06:19	22° 8 57'27		opposition	7448 May 03 01:23	15°M28'22	1°09'27
opposition	7442 Nov 06 09:39	18° 8 01'25	-1°12'07	opp	7448 May 06 15:05	15°RM	
min. Earth dist.	7442 Nov 07 03:53		4.01758 AU	direct	7448 Jul 02 20:50	10°ML27'02	
	7442 Dec 01 06:08	15°R₩			7448 Aug 28 17:52	15° M ₊	
direct	7443 Jan 04 21:58	13° 8 06'02		evening set	7448 Nov 06 00:37	28°ML09'39	
	7443 Feb 08 05:51	15° 8			7448 Nov 14 12:53	0° ∡ 7	
	7443 Apr 29 14:49	0°II					
evening set	7443 May 11 02:01	2° Ⅱ 44'17		conjunction	7448 Nov 19 08:26	1° ∡ '02'39	0°51'02
8	.			minimum elong	7448 Nov 19 08:25	1° ∡ '02'38	0°51'07
conjunction	7443 May 24 02:42	5° Ⅱ 53'42	-0°50'47	max. Earth dist.	7448 Nov 19 21:56	1° ∡ 109'58	6.41606 AU
minimum elong	7443 May 24 02:42	5° Ⅱ 53'42		morning rise	7448 Dec 02 14:34	3° ∡ 754'36	
max. Earth dist.	7443 May 23 16:27	5° Ⅱ 47′29		retrograde	7449 Apr 03 00:10	20° ∡ 52′26	
morning rise	7443 Jun 06 05:33	9° Ⅱ 04'27		opposition	7449 Jun 02 13:40	15° ₹ 55'30	1°13'38
retrograde	7443 Oct 15 19:47	29° Ⅱ 40'37		min. Earth dist.	7449 Jun 02 14:21	15° ∡ 55'17	4.46169 AU
opposition	7443 Dec 14 12:17	24° Ⅱ 41'11	-1°13'01	direct	7449 Aug 03 13:32	10° ∡ 753'34	
min. Earth dist.	7443 Dec 14 05:12		3.92146 AU	evening set	7449 Dec 07 07:54	28° ∡ 11'43	
direct	7444 Feb 10 19:57	19° Ⅱ 46'59		Z .	7449 Dec 15 18:44	0°ರ	
	7444 May 04 15:19	0ಂತಾ					
evening set	7444 Jun 16 07:52	9°950'13		conjunction	7449 Dec 20 10:15	0° ප 59'46	0°47'06
S				minimum elong	7449 Dec 20 10:16	0°る59'47	0°47'12
conjunction	7444 Jun 29 16:11	13°905'31	-0°40'59	max. Earth dist.	7449 Dec 19 19:19	0°る51'46	6.48765 AU
minimum elong	7444 Jun 29 16:12	13°905'32		morning rise	7450 Jan 02 10:13	3° ප් 46'40	
max. Earth dist.	7444 Jun 30 20:34	13°9522'51		retrograde	7450 May 02 15:52	20° ට 22'51	
morning rise	7444 Jul 13 03:02	16°9522'13		opposition	7450 Jul 02 12:55	15° ට 28'41	0°58'28
	7444 Sep 13 01:08	$0^{\circ}\Omega$		min. Earth dist.	7450 Jul 03 07:39	15° ට 22'40	4.49330 AU
retrograde	7444 Nov 22 10:35	7° Ω 13'32		direct	7450 Sep 03 03:44	10° ට 26'53	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
opposition	7445 Jan 20 20:48	2°Ω10'39	-0°43'48	evening set	7451 Jan 06 16:26	27° ට 41'18	
min. Earth dist.	7445 Jan 19 16:36		3.92823 AU	**************************************	7451 Jan 17 10:23	0° ≈	
	7445 Feb 06 12:41	30°Rூ	3.5.25 .10	max. Earth dist.	7451 Jan 17 23:24	0°≈07'02	6.47686 AU
direct	7445 Mar 19 17:49	27° © 15'33					000 110
	7445 Apr 29 13:11	0°Ω		conjunction	7451 Jan 19 14:13	0° ≈ 27'59	0°30'49
	7445 Jul 15 09:05	15° Ω		minimum elong	7451 Jan 19 14:14	0°≈28'00	0°30'54
evening set	7445 Jul 24 09:18	13° Ω 08'09		morning rise	7451 Feb 01 09:42	3°≈13'42	3 30 37
evening set	, TTO JUL 27 U7.10	17 060009		morning 1150	7451 Apr 03 16:10	3 ≈13 42 15°≈	
conjunction	7445 Aug 06 23:55	20° Ω 23'33	-0°14'37	retrograde	7451 Jun 02 00:50	13 ≈ 19°≈58'39	
minimum elong	7445 Aug 06 23:55	20° Ω 23'34		opposition	7451 Jun 02 00:30 7451 Aug 02 00:06	19°≈38'39 15°≈05'59	0°28'08
•	-	20° Ω 21'35	U 1441	оррознин	-		0 40 00
behind sun begin	7445 Aug 06 20:36	20° Ω 25'33		min Forth dist	7451 Aug 02 18:50	15°R≈ 14°≈55'00	4 44000 ATT
behind sun end	7445 Aug 07 03:15	20 062333		min. Earth dist.	7451 Aug 03 10:02	14° ≈ 55′09	4.44099 AU

direct evening set	7451 Oct 03 16:34 7451 Dec 02 16:59 7452 Feb 06 01:24	10°≈04'54 15°≈ 27°≈37'00		conjunction minimum elong behind sun begin	7457 Aug 12 05:57 7457 Aug 12 05:57 7457 Aug 11 23:23	25° Ω 34'46 25° Ω 34'46 25° Ω 30'52	-0°10'16 0°10'20
-	7452 Feb 16 21:15	0° ∀	C 2001 A A VI	behind sun end	7457 Aug 12 12:31	25° Ω 38'41	5.00.602 ATT
max. Earth dist.	7452 Feb 16 14:09	29° ≈ 56′05	6.38614 AU	max. Earth dist. morning rise	7457 Aug 14 13:36 7457 Aug 25 23:10	26° Ω 07'58 28° Ω 50'27	5.98682 AU
conjunction	7452 Feb 18 20:11	0° ∺ 25'56	0°06'07		7457 Aug 30 21:18	0° m)	
minimum elong	7452 Feb 18 20:12	0° ¥ 25'56	0°06'10	asc. node	7457 Dec 20 02:32	18° M 32'49	
behind sun begin behind sun end	7452 Feb 18 12:39	0° ¥ 21'47 0° ¥ 30'05		retrograde min. Earth dist.	7458 Jan 03 00:33	18° M 52'08	4.05424 AU
morning rise	7452 Feb 19 03:46 7452 Mar 02 13:32	3° ¥ 14′21		opposition	7458 Mar 01 23:40 7458 Mar 03 13:33	14° Mp 00'30 13° Mp 47'36	0°08'37
desc. node	7452 May 16 06:10	17°) 17'07		direct	7458 May 01 01:36	8° Mp 49'42	0 0037
retrograde	7452 Jul 03 01:32	20° X 38'09		evening set	7458 Sep 04 15:51	27° m 56'28	
opposition	7452 Sep 01 22:23	15°) 45'27	-0°11'10	<u>8</u>	7458 Sep 13 15:09	0∘ ⊽	
min. Earth dist.	7452 Sep 03 13:52	15°) 32'49	4.31673 AU		•		
direct	7452 Nov 02 23:02	10°) 45′47		conjunction	7458 Sep 18 08:04	1° ≏ 04'57	0°20'34
evening set	7453 Mar 08 10:20	28°) 54′51		minimum elong	7458 Sep 18 08:03	1° ≏ 04'56	0°20'33
	7453 Mar 13 05:04	0° Υ		max. Earth dist.	7458 Sep 20 17:57	1° ≏ 38'14	6.13379 AU
max. Earth dist.	7453 Mar 18 23:55	1° Ƴ 19'13	6.23744 AU	morning rise retrograde	7458 Oct 02 00:40 7459 Feb 05 17:27	4° £ 13'19 23° £ 02'00	
conjunction	7453 Mar 21 04:28	1° Y 49'16	-0°21'23	min. Earth dist.	7459 Apr 05 05:53	18° ≏ 09'43	4.21695 AU
minimum elong	7453 Mar 21 04:27	1° Y 49'16	0°21'23	opposition	7459 Apr 06 14:01	17° ≏ 58'54	0°49'01
morning rise	7453 Apr 02 21:53	4° Υ 43'42		direct	7459 Jun 05 05:47	12° ≏ 58'49	
retrograde	7453 Aug 06 12:42	23° Y 11'57	0040140	•	7459 Oct 03 19:40	0°M	
opposition	7453 Oct 06 01:58	18° Y 17'58		evening set	7459 Oct 09 16:00	1° M 17'04	
min. Earth dist. direct	7453 Oct 07 11:31 7453 Dec 05 21:17	18° γ '0/0/ 13° γ '20'32	4.15321 AU	conjunction	7459 Oct 23 04:34	4° ™ 16'49	0°42'52
direct	7454 Mar 31 18:49	0° 8		minimum elong	7459 Oct 23 04:33	4°M16'48	0°42'55
evening set	7454 Apr 10 15:58	2° 8 18'15		max. Earth dist.	7459 Oct 24 18:20	4°M37'45	6.29832 AU
max. Earth dist.	7454 Apr 21 23:02	_	6.07262 AU	morning rise	7459 Nov 05 16:23	7°M15'51	0.27022110
	r			5 5	7459 Dec 12 12:09	15° ™	
conjunction	7454 Apr 23 12:02	5° 8 20'25	-0°43'19	retrograde	7460 Mar 08 03:10	24°M56'08	
minimum elong	7454 Apr 23 12:01	5° 8 20'24	0°43'23	opposition	7460 May 07 09:20	19° M 56'11	1°11'17
morning rise	7454 May 06 09:07	8° 8 23'24		min. Earth dist.	7460 May 06 17:02	20°M01'35	4.36984 AU
	7454 Jun 04 05:51	15° 8			7460 Jun 29 22:52	15°RM	
retrograde	7454 Sep 12 12:57	28° 8 07'01		direct	7460 Jul 07 09:18	14° ™ 54'45	
opposition	7454 Nov 11 15:29	23° 8 10'28			7460 Jul 14 20:53	15°M	
min. Earth dist.	7454 Nov 12 06:02	23° 8 05'41	4.00122 AU	•	7460 Oct 29 10:54	0° ⊼ ¹	
direct	7455 Jan 09 24:00	18° ႘ 15'16		evening set	7460 Nov 10 11:45	2° ∡ 33'40	
evening set	7455 Apr 11 20:31 7455 May 16 04:16	0°П 7°П57'55		conjunction	7460 Nov 23 19:00	5° ∡ ¹25'56	0°51'18
evening set	7433 Way 10 04.10	1 113733		minimum elong	7460 Nov 23 18:59	5° ₹ 25'56	0°51'23
conjunction	7455 May 29 06:02	11° Ⅱ 08'17	-0°50'37	max. Earth dist.	7460 Nov 24 05:54	5° × 31'49	6.42832 AU
minimum elong	7455 May 29 06:02	11° Ⅱ 08′18	0°50'43	morning rise	7460 Dec 07 00:07	8° ∡ 17'04	
max. Earth dist.	7455 May 29 02:20	11° II 06'03	5.94788 AU	retrograde	7461 Apr 07 03:32	25° х 10′54	
morning rise	7455 Jun 11 09:46	14° Ⅱ 19′58		opposition	7461 Jun 06 18:49	20° ∡ 14'28	1°12'33
	7455 Aug 24 11:23	0 \circ \odot		min. Earth dist.	7461 Jun 06 21:06	20° ∡ 13'43	4.46916 AU
retrograde	7455 Oct 21 06:27	5° 5 00'38		direct	7461 Aug 07 20:26	15° ∡ 12'39	
opposition	7455 Dec 19 20:58	0°500'41			7461 Nov 29 19:05	0°る	
min. Earth dist.	7455 Dec 19 11:22		3.91784 AU	evening set	7461 Dec 11 15:30	2° る 29'42	
direct	7455 Dec 19 23:00	30°RⅡ 25°Ⅱ06'29		agniumation	7461 Dec 24 17:03	5° る 17'23	0°45'28
direct	7456 Feb 16 02:28 7456 Apr 11 15:22	23 п 0629		conjunction minimum elong	7461 Dec 24 17:04	5° る 17'24	0°45'33
evening set	7456 Jun 21 14:10	15° © 09'37		max. Earth dist.	7461 Dec 23 22:05	5°る07'14	6.49006 AU
evening set	7430 Juli 21 14.10	13 30737		morning rise	7462 Jan 06 16:23	8° ට 03'59	0.47000710
conjunction	7456 Jul 04 23:24	18° © 25'11	-0°38'05	retrograde	7462 May 06 22:28	24° る 39'56	
minimum elong	7456 Jul 04 23:25	18° © 25'12		opposition	7462 Jul 06 18:58	19° る 46'09	0°54'58
max. Earth dist.	7456 Jul 06 07:40	18° 5 344'52	5.91413 AU	min. Earth dist.	7462 Jul 07 16:32	19° る 39'14	4.49079 AU
morning rise	7456 Jul 18 11:23	21° 5 642'12		direct	7462 Sep 07 11:38	14° る 44'33	
	7456 Aug 23 04:12	0 $^{\circ}\Omega$			7463 Jan 01 12:46	0° ≈	
retrograde	7456 Nov 27 15:07	12° Ω 30'17		evening set	7463 Jan 10 22:41	2°≈00'09	
min. Earth dist.	7457 Jan 24 18:49		3.93869 AU	max. Earth dist.	7463 Jan 22 02:39	4° ≈ 24'35	6.46983 AU
opposition	7457 Jan 26 01:52	7° Ω 27'05	-0~3 / 55	aanium -ti	7462 Ion 22 10 50	1010-5	0027144
direct	7457 Mar 24 22:31 7457 Jun 27 18:00	2° Ω 31'42 15° Ω		conjunction minimum elong	7463 Jan 23 19:58 7463 Jan 23 19:59	4°≈46'55 4°≈46'56	0°27'44 0°27'49
evening set	7457 Jul 29 14:53	13 δι 22° Ω 19'55		morning rise	7463 Feb 05 15:03	4 ≈40 30 7°≈32'46	U 4147
croming set	, 15, vai 2, 17.33	22 001733		orming 1150	7463 Mar 13 21:43	7 ≈32 40 15°≈	

Part	conjunction minimum elong	7475 Jan 28 00:42 7475 Jan 28 00:43	9°≈02'54 9°≈02'54	0°24'29 0°24'34	morning rise	7480 Jul 28 23:26 7480 Sep 24 23:54	2°Ω10'17 15°Ω	
circingated 747 Sam 10 1855 289-84973 or 17740 opposition 747 Sam 17 18 May 10 80 Same Same Same Same Same Same Same Same	morning rise	7475 Feb 09 19:21	11°≈48'52		retrograde	7480 Dec 07 20:57	22° Q 52'08	2.05776 111
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min fath dided 473 SQ 12 (2022) 278-3602 44176 AU direct 7481 Mm (10 6) 42 (20 7) 15 (20 7) 16 (20 7) 15 (20 7) 16 (20 7) 15 (20 7) 16 (20 7) 15 (20 7) 16 (20 7)	•			0017140	opposition			-0°25'41
direct 475 Oct 12 0847 18*884715 Very 1994 Covering set 7481 Jul 28 23 23 27 0°Th dese node 176 Feb 16 10 621 4*Y0941 covering set 7481 Jul 28 23 25 28 2*199125 1*10**********************************					direct			
Control		•		4.41/30 AU	direct	•		
desc 1476 feb 1 of 21	direct					•		
Semina	desc node				evening set		-•	
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Compunetion	-			6 35535 AU	conjunction	7481 Aug 22, 13:55	5°m47'19	-0°01'35
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minimacloug 74 feb 27 10.20 99 fel 100 60°0138 behand sun edd 748 feb 27 coll 50°221 99 fel 100 60°0138 behind sun edd 748 feb 27 coll 60°023	conjunction	7476 Feb 27 10:20	9°) 16′00	-0°01'39	Č	Č	-•	
Sebind sum legin	·		9° ℋ 16'00	0°01'38	•	-		
Dehind sun end	-	7476 Feb 27 02:21	9°) 11′35		max. Earth dist.	-	6° Mp 21'46	6.01628 AU
retrograde 747 Sep 1 0 340 29°H243 certograde 748 Sep 1 1 2 340 2°P2494 4°P2494 certograde 748 Sep 1 1 1 409 2°P594 4°9104 4°P2494 4°P2494 4°P2494 4°P2494 4°P2494 4°P2494 4°P2494 4°P2196 4°P2494 4°P2494 4°P2196 4°P2494 4°P2196 4°P2494 4°P24944 4°P2494 4°P2494 4°P2494 <td></td> <td>7476 Feb 27 18:18</td> <td>9°) €20'25</td> <td></td> <td>morning rise</td> <td>7481 Sep 05 07:46</td> <td>9°m 01'49</td> <td></td>		7476 Feb 27 18:18	9°) €20'25		morning rise	7481 Sep 05 07:46	9° m 01'49	
opposition in Earth dist. 747 Sep 1 1 63-40 24°H 379 S 42°B 222-44 min Earth dist. 748 Sep 1 2 1811 23°H 5242 400100 AU min Earth dist. 7476 Nov 1 1 21:56 97+3041 drott 4782 Mar 1 3 04:19 23°H 5242 02100 AU evening set 7477 Mar 1 9026 87*1001 centing set 7482 Mar 1 1 13:18 749 3981 49898 evening set 7477 Mar 1 90 63:88 11°9°0602 79884 AU minimum clong 7482 Sep 2 8 04:59 10°B-4000 0°2750 conjunction 7477 Mar 3 0 63:38 11°9°0602 0°2819 minimum clong 7482 Sep 2 8 04:59 10°B-4000 0°2752 minimum clong 7477 Mar 3 0 63:38 11°9°0602 0°2819 minimum clong 7482 Sep 2 8 04:59 10°B-4000 0°2752 retograde 7477 Mar 1 0 103 0°570 0°B 10°B-4001 1483 Sep 2 8 01 1123 11°B-4702 17°B-4002 0°R43 Sep 3 00 11°B-4702 18°B-4002 11°B-4702 18°B-4002 18°B-4002 11°B-4002 18°B-4002 11°B-4002 11°B-4002 18°B-4002 18°B-4002 <td>morning rise</td> <td>7476 Mar 11 03:18</td> <td>12°)€05'29</td> <td></td> <td>asc. node</td> <td>7481 Sep 11 01:03</td> <td>10° m 21'58</td> <td></td>	morning rise	7476 Mar 11 03:18	12°) €05'29		asc. node	7481 Sep 11 01:03	10° m 21'58	
min. Earth dist 749 Sep 12 18.11 24°H3725 4.28050 AU opposition 7482 May 10 21.35 18°m4213 0°P1001 cvening set 7477 Mar 17 09.26 8°P1001 cvening set 7482 Aug 10 11.51 0°P2 0°P2 evening set 7477 Mar 17 09.26 8°P1001 cvening set 7482 Sep 14 13.18 7°P28978 0°P2 evening set 7477 Mar 10 09.26 8°P1001 conjunction 7482 Sep 18 04.57 10°P24601 0°P2750 conjunction 7477 Mar 30 03.38 11°P0603 0°2819 minimum clong 7482 Sep 28 04.59 10°P24601 0°P7752 minimum clong 7477 Apr 11 21.33 14°P06218 max. Earth dist. 7482 Sep 28 04.59 10°P24601 0°P7752 retorgade 7477 Apr 10 40.65.57 8°B retograde 7483 Feb 18.30 0°R1 0°R1 0°R1 retorgade 7477 Apr 10 40 15 2111 27°P7497 0°S824 min. Earth dist. 7483 Apr 15 14.04 0°R1 0°R1 apposition 7477 De 15 08.55 22°P6571 0°R2 0°R2	retrograde	7476 Jul 12 06:51	29°) (42′43		retrograde	7482 Jan 12 13:23	28° m 47'05	
direct 748 Nov 11 21.56 19°H5041 0°P°	opposition	7476 Sep 11 03:40	24°) 49′46	-0°22'24	min. Earth dist.	7482 Mar 11 14:09	23° m 55'42	4.09100 AU
Careing set 7477 Feb 07 19-14 0°P° 19-26 8°P° 10° 19-26 8°P° 10° 19-26 19-2	min. Earth dist.	7476 Sep 12 18:11	24°) 37′25	4.28050 AU	opposition	7482 Mar 13 04:19	23° m 42'44	0°21'00
evening set max. Earth dist. 7477 Mar 18 01:57 (19°3793) 8°°10'01 (19°3723) conjunction on minimum clong 7482 Sep 28 04:59 (19°4400) 0°2750 (19°4800) 0°	direct	7476 Nov 11 21:56	19° ¥ 50'41		direct	7482 May 10 21:35	18° m 44'13	
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morning rise 7479 Jun 21 14:12 24°耳39'57 morning rise 7484 Dec 15 15:49 16°柔55'24 14:79 Jul 14 01:30 0°⑤ 7485 Feb 24 03:26 0°⑤ 7485 Feb 24 03:26 0°⑤ 7485 Feb 24 03:26 0°⑥ 7485 Jun 05 08:00 30°R 7485 Jun 05 08:00 3								
retrograde 7479 Jul 14 01:30 0°⑤ 7485 Feb 24 03:26 0°중 retrograde 7479 Oct 31 18:30 15°⑤28'17 retrograde 7485 Apr 15 08:56 3°♂40'37 opposition 7479 Dec 30 07:41 10°⑥27'26 -1°04'06 7485 Jun 05 08:00 30°R ** min. Earth dist. 7479 Dec 29 16:14 10°⑥32'38 3.91182 AU opposition 7485 Jun 15 02:46 28° ** 44'55 1°09'15 direct 7480 Feb 26 08:46 5°⑤33'06 min. Earth dist. 7485 Jun 15 10:21 28° ** 42'28 4.48571 AU evening set 7480 Jul 15 09:37 25°⑥36'33 direct 7485 Oct 24 14:00 0°중 conjunction 7480 Jul 15 09:37 28°⑥52'47 -0°31'31 evening set 7485 Dec 20 01:58 10°♂56'24 minimum elong 7480 Jul 15 09:39 28°⑥52'48 0°31'37 max. Earth dist. 7486 Jun 15 00:05 13°♂529'22 6.49569 AU max. Earth dist. 7480 Jul 17 02:01 29°⑥17'20 5.92103 AU								
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min. Earth dist. 7479 Dec 29 16:14 10°©32'38 3.91182 AU opposition 7485 Jun 15 02:46 28°ダ44'55 1°09'15 direct 7480 Feb 26 08:46 5°©33'06 min. Earth dist. 7485 Jun 15 10:21 28°ダ42'28 4.48571 AU evening set 7480 Jul 01 22:19 25°©36'33 direct 7485 Aug 16 10:47 23°ダ43'00 7485 Oct 24 14:00 0°运 conjunction 7480 Jul 15 09:37 28°©52'47 -0°31'31 evening set 7485 Dec 20 01:58 10°运56'24 minimum elong 7480 Jul 15 09:39 28°©52'48 0°31'37 max. Earth dist. 7486 Jan 01 00:05 13°运29'22 6.49569 AU max. Earth dist. 7480 Jul 17 02:01 29°©17'20 5.92103 AU	retrograde	7479 Oct 31 18:30	15° © 28'17		retrograde	7485 Apr 15 08:56		
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evening set 7480 Jul	11	7479 Dec 29 16:14	10° © 32'38	3.91182 AU	opposition	7485 Jun 15 02:46	28° ∡¹ 44'55	1°09'15
Conjunction 7480 Jul 15 09:37 28°©52'47 -0°31'31 evening set 7485 Dec 20 01:58 10°♂56'24 14:00 0°♂ 10°♂56'24 14:00 0°♂ 10°~ 10°~	direct	7480 Feb 26 08:46	5° © 33'06		min. Earth dist.	7485 Jun 15 10:21	28° ∡ ¹42'28	4.48571 AU
Conjunction 7480 Jul 15 09:37 28°©52'47 -0°31'31 evening set 7485 Dec 20 01:58 10°♂56'24 10°0 で 日本	evening set	7480 Jul 01 22:19	25° © 36'33		direct	7485 Aug 16 10:47	23° х ⁴43′00	
minimum elong 7480 Jul 15 09:39 28°€52'48 0°31'37 max. Earth dist. 7486 Jan 01 00:05 13°₹29'22 6.49569 AU max. Earth dist. 7480 Jul 17 02:01 29°€17'20 5.92103 AU						7485 Oct 24 14:00	0°ರ	
max. Earth dist. 7480 Jul 17 02:01 29°S17'20 5.92103 AU	conjunction	7480 Jul 15 09:37	28° © 52'47	-0°31'31	evening set	7485 Dec 20 01:58	10° ප 56'24	
	_	7480 Jul 15 09:39			max. Earth dist.	7486 Jan 01 00:05	13° る 29'22	6.49569 AU
7480 Jul 20 00:15 0°Ω conjunction 7486 Jan 02 02:07 13°₹43'20 0°41'30	max. Earth dist.			5.92103 AU			_	
		7480 Jul 20 00:15	0° {}		conjunction	7486 Jan 02 02:07	13° ゼ 43'20	0°41'30

minimum elong	7486 Jan 02 02:08	13° る 43'20	0°41'35	minimum elong	7491 Jun 13 15:30	26° ∏ 49'26	0°47'49
morning rise	7486 Jan 15 00:06	16° る 29'12	0 .130	max. Earth dist.	7491 Jun 14 02:19	26° I I56'02	5.91796 AU
	7486 Mar 30 08:34	0°≈		morning rise	7491 Jun 26 22:43	0°904'07	
retrograde	7486 May 15 04:55	3°≈04'22		5 5	7491 Jun 26 15:57	0ಂತಾ	
Ü	7486 Jun 30 13:28	30°Rる		retrograde	7491 Nov 06 07:24	20° © 56'28	
opposition	7486 Jul 15 03:27	28° ප 10'57	0°47'12	opposition	7492 Jan 04 18:41	15° © 55'07	-0°59'54
min. Earth dist.	7486 Jul 16 05:24	28° る 02'38	4.48491 AU	min. Earth dist.	7492 Jan 03 23:21	16° © 01'38	3.90913 AU
direct	7486 Sep 15 22:09	23° る 09'21		direct	7492 Mar 02 17:07	11° 5 00'42	
	7486 Nov 27 07:46	0° ≈			7492 Jul 02 22:48	$0^{\circ}\Omega$	
evening set	7487 Jan 19 06:35	10° ≈ 27'11		evening set	7492 Jul 07 08:53	1° Ω 03'49	
max. Earth dist.	7487 Jan 30 05:12	12° ≈ 49′21	6.45234 AU				
				conjunction	7492 Jul 20 21:00	4° Ω 20′09	-0°27'41
conjunction	7487 Feb 01 02:58	13° ≈ 14'13	0°21'12	minimum elong	7492 Jul 20 21:01	4° Ω 20′10	0°27'47
minimum elong	7487 Feb 01 02:59	13° ≈ 14'14	0°21'16	max. Earth dist.	7492 Jul 22 16:44	4° Ω 46'41	5.92738 AU
	7487 Feb 09 05:38	15° ≈		morning rise	7492 Aug 03 11:52	7° Ω 37'46	
morning rise	7487 Feb 13 21:11	16° ≈ 00′25			7492 Sep 04 04:55	15° Ω	
	7487 May 01 07:29	0° ∀		retrograde	7492 Dec 13 01:39	28° Ω 14'14	
retrograde	7487 Jun 15 00:35	2° ∺ 56′28		min. Earth dist.	7493 Feb 09 00:24	23° Ω 22'25	3.97227 AU
	7487 Jul 30 10:06	30°R ≈		opposition	7493 Feb 10 12:27	23° Ω 10′08	-0°18'59
opposition	7487 Aug 15 01:03	28°≈03'54	0°12'22	direct	7493 Apr 09 12:02	18° Ω 13'48	
min. Earth dist.	7487 Aug 16 13:53	27°≈52'09	4.40148 AU		7493 Jul 10 16:30	0° т р	
direct	7487 Oct 16 13:03	23°≈03'18		asc. node	7493 Jul 20 14:34	2° m 09'53	
desc. node	7487 Dec 16 02:58	28°≈06'21		evening set	7493 Aug 14 05:47	7° m 48'54	
	7487 Dec 27 16:44	0°)(7402 4 27 22 04	11070.01174	0002104
evening set	7488 Feb 18 21:30	10°) (47'00	C 22 420 A I I	conjunction	7493 Aug 27 22:04	11° Mp 01'54	0°03'04
max. Earth dist.	7488 Feb 29 08:28	13°大06'4/	6.33429 AU	minimum elong	7493 Aug 27 22:06	11° Mp 01'54	0°03'02
	7400 M 02 15 20	120 1 27 20	0005120	behind sun begin	7493 Aug 27 13:44	10° m 57'01	
conjunction	7488 Mar 02 15:38	13°) 37'38 13°) 37'38		behind sun end	7493 Aug 28 06:27	11° Mp 06'48	(02722 AII
minimum elong	7488 Mar 02 15:38	13° X 3/38 13° X 3/38	0-05/26	max. Earth dist.	7493 Aug 30 10:11	11° Mp 37'17	6.03733 AU
behind sun begin behind sun end	7488 Mar 02 07:56 7488 Mar 02 23:19	13° X 33'21		morning rise	7493 Sep 10 15:48 7493 Nov 28 09:45	14° Mp 15′20 0° <u> </u>	
morning rise	7488 Mar 15 08:34	16° \(\) 27'57		retrograde	7493 Nov 28 09:43 7494 Jan 17 10:50	0 == 3° ჲ 49'38	
morning risc	7488 May 23 21:58	10 χ 2/3/		retrograde	7494 Mar 08 19:41	30°RM)	
retrograde	7488 Jul 16 23:28	4° Υ 14'13		min. Earth dist.	7494 Mar 16 12:54	28° Mp 57'56	4.11584 AU
retrograde	7488 Sep 10 16:28	30°R) €		opposition	7494 Mar 18 02:00	28° Mp 45'21	0°27'07
opposition	7488 Sep 15 18:06	29° \ 21'07	-0°27'53	direct	7494 May 16 00:17	23° m/46'29	0 27 07
min. Earth dist.	7488 Sep 17 09:37	29° H 08'26	4.25536 AU	anoct	7494 Jul 20 07:56	0ಂ ರ	
direct	7488 Nov 16 09:40	24°) 22'14		evening set	7494 Sep 19 13:37	12° £ 33'52	
	7489 Jan 18 07:59	0°Υ			, ,, , , , , , , , , , , , , , , , , ,		
evening set	7489 Mar 21 21:32	12° Υ 49'21		conjunction	7494 Oct 03 04:44	15° ≏ 38'53	0°31'17
max. Earth dist.	7489 Apr 01 14:24	15° Y 17'51	6.17134 AU	minimum elong	7494 Oct 03 04:43	15° ≏ 38'52	0°31'20
	•			max. Earth dist.	7494 Oct 05 09:16	16° ≏ 08'37	6.20093 AU
conjunction	7489 Apr 03 16:00	15° Ƴ 46'37	-0°31'34	morning rise	7494 Oct 16 19:48	18° ≏ 43'31	
minimum elong	7489 Apr 03 15:59	15° Ƴ 46'37	0°31'36	_	7494 Dec 10 11:43	0° M .	
morning rise	7489 Apr 16 10:31	18° Ƴ 44'14		retrograde	7495 Feb 19 01:47	7°M02'28	
	7489 Jun 08 04:26	0°8		min. Earth dist.	7495 Apr 18 23:44	2°M09'41	4.28366 AU
retrograde	7489 Aug 21 11:19	7° 8 42'33		opposition	7495 Apr 20 03:14	2°M00'29	1°00'44
opposition	7489 Oct 20 21:00	2° 8 47'38	-1°02'16		7495 May 05 15:08	30° ₹ Ω	
min. Earth dist.	7489 Oct 22 00:14		4.08741 AU	direct	7495 Jun 19 08:21	26° ≙ 59'43	
	7489 Nov 12 17:04	30° ₹Ƴ			7495 Aug 03 09:26	0°M₊	
direct	7489 Dec 20 02:06	27° Y 51′06		evening set	7495 Oct 23 15:38	14°M59'49	
	7490 Jan 26 00:42	0°8			7495 Oct 23 15:59	15° M	
	7490 Apr 15 23:03	15° 8					
evening set	7490 Apr 25 00:37	17° 8 08'37		conjunction	7495 Nov 06 02:04	17° M 56'07	0°48'04
				minimum elong	7495 Nov 06 02:03	17°M56'07	0°48'09
conjunction	7490 May 07 22:38	20° 8 14'16		max. Earth dist.	7495 Nov 07 06:00	18°M11'26	6.35955 AU
minimum elong	7490 May 07 22:38	20° 8 14'16		morning rise	7495 Nov 19 11:05	20°M51'30	
max. Earth dist.	7490 May 06 21:11	19° 8 58'59	6.01312 AU		7496 Jan 03 06:29	0°×7	
morning rise	7490 May 20 22:04	23° ႘ 20'58		retrograde	7496 Mar 20 19:30	8° ₹ 08'47	1014107
ratro a J-	7490 Jun 18 14:12	0° Π		opposition	7496 May 20 05:31	3° ₹ 10'17	
retrograde	7490 Sep 28 10:14	13° ∏ 32'36	1017117	min. Earth dist.	7496 May 19 20:37	3° ≯ 13'12	4.42136 AU
opposition	7490 Nov 27 06:45	8°∏34'44 8°∏32'48		direct	7496 Jul 20 18:24	30°RM 28°M 08'34	
min. Earth dist. direct	7490 Nov 27 12:36	8°Щ32'48 3°Щ40'08	3.95413 AU	direct	7496 Jul 20 18:24	28°M08'34 0°⊀	
	7491 Jan 25 02:33 7491 May 31 10:39	3°Щ40'08 23°Щ36'10		evening set	7496 Aug 25 08:59 7496 Nov 23 15:57	0°×' 15° <i>x</i> 735'01	
evening set	1471 Way 31 10.39	25 سے 10 ا		evening set	7770 INOV 23 13.3/	10 8.33 01	
conjunction	7491 Jun 13 15:29	26° Ⅱ 49'25	-0°47'43	conjunction	7496 Dec 06 20:40	18° ₹ 24'49	0°50'22

minimum alana	7406 Dag 06 20:41	100.72440	0°50'28	agniumation	7502 May 14, 00:17	25° 8 27'21	0940122
minimum elong	7496 Dec 06 20:41	18° 🗷 24'49		conjunction	7502 May 14 00:17	25° 8 27'20	-0 49 33 0°49'38
max. Earth dist.	7496 Dec 06 18:41	18° ₹ 23'45	6.46629 AU	minimum elong	7502 May 14 00:17	_	0-4938
morning rise	7496 Dec 19 23:17	21°×13'30		morning rise	7502 May 27 00:41	28° 8 35'22	
	7497 Feb 01 17:19	0°る 5°る。			7502 Jun 01 22:29	0°II	
retrograde	7497 Apr 19 12:18	7°る55'14	1007105	retrograde	7502 Oct 04 21:42	18° Ⅱ 55'35	1015150
opposition	7497 Jun 19 07:06	2° る 59'56	1°07'05	opposition	7502 Dec 03 16:57	13° Ⅱ 57'19	
min. Earth dist.	7497 Jun 19 17:38	2° ට 56'31	4.49152 AU	min. Earth dist.	7502 Dec 03 18:27		3.94186 AU
	7497 Jul 14 06:26	30°R. ✓		direct	7503 Jan 31 07:56	9° I 102'56	
direct	7497 Aug 20 17:09	27° ∡ 58′00		evening set	7503 Jun 06 18:21	29° Ⅱ 01'57	
	7497 Sep 27 11:10	0°る			7503 Jun 10 17:46	0	
evening set	7497 Dec 24 07:17	15° る 10'37	C 40 400 4 7 7		7502 X 20 00 06	20015152	0045155
max. Earth dist.	7498 Jan 05 02:38	17° る 42'10	6.49489 AU	conjunction	7503 Jun 20 00:06	2° © 15'53	
				minimum elong	7503 Jun 20 00:07	2° © 15'53	0°46'02
conjunction	7498 Jan 06 06:57	17° る 57'22	0°39'11	max. Earth dist.	7503 Jun 20 15:31	2° © 25'18	5.91389 AU
minimum elong	7498 Jan 06 06:58	17° る 57'23	0°39'17	morning rise	7503 Jul 03 08:36	5° © 31'18	
morning rise	7498 Jan 19 04:08	20°る43'01		retrograde	7503 Nov 12 16:47	26° © 24'11	
	7498 Mar 06 19:38	0° ≈		min. Earth dist.	7504 Jan 10 05:36	21° © 30'05	3.91389 AU
retrograde	7498 May 19 09:13	7° ≈ 19'22		opposition	7504 Jan 11 04:39	21° © 22'17	-0°55'14
opposition	7498 Jul 19 09:06	2° ≈ 26'12	0°42'55	direct	7504 Mar 09 02:18	16°527'40	
min. Earth dist.	7498 Jul 20 12:47	2° ≈ 17'22	4.47763 AU		7504 Jun 16 04:06	0 $^{\circ}\Omega$	
	7498 Aug 08 07:15	30°Rる		evening set	7504 Jul 13 17:43	6° Ω 27'37	
direct	7498 Sep 20 03:26	27° る 24'45					
	7498 Nov 01 22:54	0° ≈		conjunction	7504 Jul 27 06:46	9° Ω 43'43	
evening set	7499 Jan 23 12:15	14° ≈ 45'15		minimum elong	7504 Jul 27 06:47	9° Ω 43'44	
	7499 Jan 24 15:32	15° ≈		max. Earth dist.	7504 Jul 29 07:30	10° Ω 13'11	5.94049 AU
max. Earth dist.	7499 Feb 03 07:00	17° ≈ 05'51	6.43897 AU	morning rise	7504 Aug 09 22:09	13° Ω 00′56	
					7504 Aug 18 06:16	15° Ω	
conjunction	7499 Feb 05 08:04	17° ≈ 32'36	0°17'42		7504 Nov 01 18:54	0° m	
minimum elong	7499 Feb 05 08:04	17° ≈ 32'37	0°17'46	retrograde	7504 Dec 19 04:54	3°₩29'25	
morning rise	7499 Feb 18 02:06	20° ≈ 19'13			7505 Feb 04 20:07	30°R Ω	
	7499 Apr 07 00:21	0° ∀		min. Earth dist.	7505 Feb 15 03:17		3.99195 AU
retrograde	7499 Jun 19 13:01	7° ∺ 21'02		opposition	7505 Feb 16 15:38	28° Ω 25'06	-0°12'20
opposition	7499 Aug 19 11:50	2° ∺ 28'31	0°06'48	direct	7505 Apr 15 18:41	23° Ω 28′24	
min. Earth dist.	7499 Aug 21 02:40	2° 	4.38268 AU	asc. node	7505 May 31 14:50	26° Ω 50′03	
	7499 Sep 08 18:50	30°R≈			7505 Jun 20 14:04	0° m	
direct	7499 Oct 20 22:42	27° ≈ 28'05		evening set	7505 Aug 20 10:05	12° My 56'05	
desc. node	7499 Oct 25 15:20	27°≈30'07					
	7499 Dec 01 18:00	0° ∀		conjunction	7505 Sep 03 02:25	16° Mp 07'58	0°07'24
evening set	7500 Feb 23 06:44	15° ¥ 17'38		minimum elong	7505 Sep 03 02:24	16° m 07'57	0°07'23
max. Earth dist.	7500 Mar 05 17:14	17° ∺ 37'53	6.31146 AU	behind sun begin	7505 Sep 02 18:46	16°₩03'31	
				behind sun end	7505 Sep 03 10:02	16° Mp 12'24	
conjunction	7500 Mar 08 00:54	18° ∺ 09'10		max. Earth dist.	7505 Sep 05 14:54	16° Mp 43′20	6.06144 AU
minimum elong	7500 Mar 08 00:53	18° ∺ 09'09	0°09'19	morning rise	7505 Sep 16 20:02	19° m 20'10	
behind sun begin	7500 Mar 07 18:10	18° ¥ 05′23			7505 Nov 05 02:54	0∘ ⊽	
behind sun end	7500 Mar 08 07:37	18° ¥ 12'55		retrograde	7506 Jan 23 01:46	8° ≏ 42'41	
morning rise	7500 Mar 20 17:53	21° ∺ 00′25		min. Earth dist.	7506 Mar 22 06:16	3° £ 51′08	4.14186 AU
	7500 May 02 07:04	0° Υ		opposition	7506 Mar 23 19:14	3° ≏ 38'37	0°32'47
retrograde	7500 Jul 22 18:36	8° Y 56′27			7506 Apr 23 05:06	30°R Mp	
opposition	7500 Sep 21 12:53	4° Υ 03'13		direct	7506 May 21 21:07	28° m 39'23	
min. Earth dist.	7500 Sep 23 02:42		4.23009 AU		7506 Jun 19 20:40	0。 ರ	
	7500 Oct 28 12:48	30° ₹		evening set	7506 Sep 25 09:55	17° ≙ 18'51	
direct	7500 Nov 21 22:46	29°) €04'42				_	
	7500 Dec 16 08:44	0° Υ		conjunction	7506 Oct 09 00:27	20° £ 22'29	0°34'25
evening set	7501 Mar 27 13:45	17° Ƴ 39'39		minimum elong	7506 Oct 09 00:25	20° ≏ 22'28	0°34'26
max. Earth dist.	7501 Apr 07 09:50	20° Υ' 10'53	6.14576 AU	max. Earth dist.	7506 Oct 11 00:46	20° £ 49'42	6.22660 AU
				morning rise	7506 Oct 22 14:46	23° £ 25'39	
conjunction	7501 Apr 09 08:30	20° Ƴ 38'07			7506 Nov 22 02:04	0°M₊	
minimum elong	7501 Apr 09 08:29	20° Y 38′06	0°34'47	retrograde	7507 Feb 24 10:48	11°M34'15	
morning rise	7501 Apr 22 03:31	23° Ƴ 37'03		opposition	7507 Apr 25 12:26	6°M32'43	1°03'49
	7501 May 20 10:36	0°8		min. Earth dist.	7507 Apr 24 12:23	6°M40'44	4.30679 AU
retrograde	7501 Aug 27 18:32	12° 8 47'03		direct	7507 Jun 24 23:10	1°M31'43	
opposition	7501 Oct 27 01:05	7° 8 51'50			7507 Oct 08 08:15	15° ™	
min. Earth dist.	7501 Oct 28 02:21		4.06374 AU	evening set	7507 Oct 29 03:48	19°M25'48	
direct	7501 Dec 26 01:46	2° 8 55'41					
	7502 Mar 30 05:19	15° 8		conjunction	7507 Nov 11 13:33	22°M21'03	0°49'14
evening set	7502 May 01 01:24	22° 8 20'26	5.00207 433	minimum elong	7507 Nov 11 13:32	22°M21'03	0°49'20
max. Earth dist.	7502 May 13 03:51	23° O 15'01	5.99387 AU	max. Earth dist.	7507 Nov 12 13:38	22°M34'12	6.37839 AU

morning rise	7507 Nov 24 21:39	25°M15'18		min. Earth dist.	7513 Nov 02 03:00	12° 8 48'32	4.04439 AU
morning 1150	7507 Dec 17 07:37	0° ⊼		direct	7513 Dec 30 23:52	7° 8 59'52	
retrograde	7508 Mar 25 21:34	12° ∡ 26′06			7514 Mar 09 21:44	15° 8	
opposition	7508 May 25 09:44	7° ҂ ²28'03	1°14'18	evening set	7514 May 06 01:52	27° 8 30'04	
min. Earth dist.	7508 May 25 03:06	7° ∡ ³30'13	4.43494 AU	C	7514 May 16 10:37	0°II	
direct	7508 Jul 26 00:58	2° ∡ ¹26'15		max. Earth dist.	7514 May 18 09:01	0°∏28′04	5.97936 AU
evening set	7508 Nov 28 22:47	19° ∡ ⁴49'53			·		
				conjunction	7514 May 19 01:24	0° Ⅱ 37'59	-0°50'15
conjunction	7508 Dec 12 02:46	22° ₰ 39'07	0°49'33	minimum elong	7514 May 19 01:24	0° Ⅱ 37'59	0°50'21
minimum elong	7508 Dec 12 02:47	22° ∡ ³39′07	0°49'39	morning rise	7514 Jun 01 02:53	3° Ⅱ 47′08	
max. Earth dist.	7508 Dec 11 20:39	22° 渘 ³35′50	6.47376 AU	retrograde	7514 Oct 10 07:02	24° Ⅱ 13'58	
morning rise	7508 Dec 25 04:32	25° ₹ 27'12		opposition	7514 Dec 09 01:32	19° Ⅱ 15'10	
	7509 Jan 15 23:35	0°₹		min. Earth dist.	7514 Dec 08 23:09	19° Ⅱ 15'57	3.93373 AU
retrograde	7509 Apr 24 15:29	12° る 06'55		direct	7515 Feb 05 13:46	14° Ⅱ 20'51	
opposition	7509 Jun 24 10:23	7° る 12'02	1°04'40		7515 May 24 18:56	0	
min. Earth dist.	7509 Jun 25 00:09	7° る 07'36	4.49264 AU	evening set	7515 Jun 11 23:52	4° 5 21'21	
direct	7509 Aug 25 22:46	2°る10'09					
evening set	7509 Dec 29 12:04	19° る 23'19		conjunction	7515 Jun 25 06:48	7° © 35'51	
max. Earth dist.	7510 Jan 10 01:58	21° る 52'14	6.48957 AU	minimum elong	7515 Jun 25 06:49	7° © 35'52	
				max. Earth dist.	7515 Jun 26 04:37	7° 5 49'11	5.91297 AU
conjunction	7510 Jan 11 11:05	22° る 10'02	0°36'43	morning rise	7515 Jul 08 16:11	10°951'46	
minimum elong	7510 Jan 11 11:06	22°る10'02	0°36'49		7515 Oct 16 04:21	0°N	
morning rise	7510 Jan 24 07:53	24° る 55'43		retrograde	7515 Nov 18 01:07	1° Ω 43'56	
	7510 Feb 17 16:07	0°≈		i Patra	7515 Dec 20 17:57	30°Rூ	2.02026 444
retrograde	7510 May 24 16:03	11°≈34'35	0020127	min. Earth dist.	7516 Jan 15 10:53		3.92036 AU
opposition	7510 Jul 24 15:11	6°≈41'35	0°38'27	opposition	7516 Jan 16 11:39	26°541'39	-0°50'09
min. Earth dist.	7510 Jul 25 20:57	6°≈32'04 1°≈40'11	4.46638 AU	direct	7516 Mar 14 09:04	21° © 46'52 0° Ω	
direct	7510 Sep 25 08:59 7511 Jan 09 14:32	1 ≈40 11 15°≈		ovening set	7516 May 27 10:32 7516 Jul 19 00:09	11° Ω 43'32	
evening set	7511 Jan 28 18:05	15 ≈ 19° ≈ 04'23		evening set	/310 Jul 19 00.09	11 0643 32	
max. Earth dist.	7511 Jan 28 18:05 7511 Feb 08 12:15	19 ≈04 23 21°≈25'09	6.42266 AU	conjunction	7516 Aug 01 13:49	14° Ω 59'20	-0°10'37
max. Lattii uist.	7511 1 00 00 12.15	21 ~23 09	0.42200 AU	minimum elong	7516 Aug 01 13:51	$14^{\circ}\Omega 59'21$	
conjunction	7511 Feb 10 13:46	21°≈52'15	0°14'07	minimum clong	7516 Aug 01 14:56	14 θ (3) 21	0 1741
minimum elong	7511 Feb 10 13:47	21°≈52'16	0°14'10	max. Earth dist.	7516 Aug 03 17:04	15°Ω30'10	5.95346 AU
behind sun begin	7511 Feb 10 09:51	21°≈50'07	0 1110	morning rise	7516 Aug 15 05:55	18° Ω 16'12	3.933 10 110
behind sun end	7511 Feb 10 17:43	21°≈54'24		morning 115¢	7516 Oct 07 06:11	0° m)	
morning rise	7511 Feb 23 07:25	24° ≈ 39'24		retrograde	7516 Dec 24 03:51	8° m 36'59	
Ü	7511 Mar 20 11:48	0°) €		min. Earth dist.	7517 Feb 20 01:47	3°m 45'30	4.01002 AU
retrograde	7511 Jun 25 00:59	11°) 47'50		opposition	7517 Feb 21 15:38	3° m/32'37	-0°05'44
opposition	7511 Aug 24 23:56	6° ¥ 55'19	0°01'11	••	7517 Mar 22 20:41	30°R Ω	
min. Earth dist.	7511 Aug 26 14:37	6°) 42′58	4.36237 AU	asc. node	7517 Apr 10 23:53	28° Ω 45'37	
desc. node	7511 Sep 05 16:05	5°) €27'10		direct	7517 Apr 20 20:09	28° Ω 35'35	
direct	7511 Oct 26 07:06	1°) 55′10			7517 May 20 00:00	0° m	
evening set	7512 Feb 28 17:11	19° ¥ 50'45		evening set	7517 Aug 25 12:16	17° m 57'08	
max. Earth dist.	7512 Mar 10 03:42	22° ℋ 11'46	6.28866 AU				
				conjunction	7517 Sep 08 04:34	21°Mp08'01	0°11'38
conjunction	7512 Mar 12 11:08	22°)(43'07	-0°13'11	minimum elong	7517 Sep 08 04:33	21° m 08'01	0°11'38
minimum elong	7512 Mar 12 11:08	22°) 43′06	0°13'11	behind sun begin	7517 Sep 07 22:41	21° m 04'37	
behind sun begin	7512 Mar 12 06:19	22°) 40′24		behind sun end	7517 Sep 08 10:24	21°Mp11'24	
behind sun end	7512 Mar 12 15:56	22°) 45'48		max. Earth dist.	7517 Sep 10 15:15	21°Mp42'11	6.08277 AU
morning rise	7512 Mar 25 04:19	25°) ₹35′20		morning rise	7517 Sep 21 22:01	24° m 19'08	
	7512 Apr 14 03:40	0° Υ			7517 Oct 17 04:33	0∘ ⊽	
retrograde	7512 Jul 27 17:26	13° Y 41′06		retrograde	7518 Jan 27 17:36	13° £ 31'36	
opposition	7512 Sep 26 09:11	8° Υ 47'40		min. Earth dist.	7518 Mar 27 00:24	8° Ω 39'33	4.16418 AU
min. Earth dist.	7512 Sep 27 22:12	8° Υ 35'44	4.20633 AU	opposition	7518 Mar 28 11:10	8° Ω 27'47	0°38'11
direct	7512 Nov 26 15:31	3° Υ 49'26 22° Υ 31'22		direct	7518 May 26 17:57	3° £ 28'16	
evening set	7513 Apr 01 06:51		C 10014 ATT	evening set	7518 Sep 30 05:01	22° £ 01'22	
max. Earth dist.	7513 Apr 12 06:45	25° Y 05'34	6.12314 AU	agniumation	7519 Oct 12 10:00	250 0 02152	0027110
conjunction	7513 Apr 14 02:04	25° Ƴ 30'58	0°37'40	conjunction minimum elong	7518 Oct 13 19:09 7518 Oct 13 19:07	25° £ 03'53 25° £ 03'52	0°37'18 0°37'20
minimum elong	7513 Apr 14 02:04 7513 Apr 14 02:03	25° Y 30.58 25° Y 30.57		max. Earth dist.	7518 Oct 15 17:49	25° £ 03′52 25° £ 30′03	6.24809 AU
morning rise	7513 Apr 14 02:03 7513 Apr 26 21:32	23° γ 30'37 28° γ 31'04	0 3/42	max. Earth dist.	7518 Oct 15 17:49 7518 Oct 27 08:38	23° £ 30'03 28° £ 05'48	0.44009 AU
morning rise	7513 Apr 26 21:32 7513 May 03 06:38	0° 8		morning rise	7518 Oct 27 08:38 7518 Nov 04 23:38	28° ±2 05°48 0° ™	
	7513 Jul 20 15:47	15° 8			7519 Feb 02 10:14	15°M	
retrograde	7513 Sep 01 23:30	17° 8 51'14		retrograde	7519 Feb 28 17:54	16°M05'46	
- The State	7513 Oct 15 19:45	17 031 14 15°R と			7519 Mar 26 21:25	15°RM	
opposition	7513 Oct 15 15:45 7513 Nov 01 05:10	12° 8 55'40	-1°08'51	opposition	7519 Apr 29 21:28	11°M04'44	1°06'31
11			-	11	r		-

min. Earth dist.	7519 Apr 28 22:55 7519 Jun 29 11:04	11°M12'15 6°M03'39	4.32583 AU	conjunction minimum elong	7525 Apr 18 17:22 7525 Apr 18 17:21	0° と 19'27 0° と 19'26	-0°40'14 0°40'17
evening set	7519 Sep 20 05:24 7519 Nov 02 16:33	15°M 23°M53'14		morning rise	7525 May 01 13:27 7525 Jun 24 11:54	3° 8 20'28 15° 8	
3				retrograde	7525 Sep 07 00:45	22° 8 48'25	
conjunction	7519 Nov 16 01:23	26° ML $47'32$	0°50'08	opposition	7525 Nov 06 06:03	17° 8 52'23	-1°11'13
minimum elong	7519 Nov 16 01:23	26°M47'32	0°50'13	min. Earth dist.	7525 Nov 07 00:59	17° 8 46'11	4.03095 AU
max. Earth dist.	7519 Nov 16 20:15	26°M57'48	6.39359 AU		7525 Nov 29 16:45	15° ₹ 8	
morning rise	7519 Nov 29 08:42	29°M40'52		direct	7526 Jan 04 21:37	12° 8 56'47	
	7519 Nov 30 20:12	0° ∡ ¹ 16° ∡ ¹46'25			7526 Feb 09 16:02	15° 8 0°II	
retrograde opposition	7520 Mar 30 03:23 7520 May 29 15:12	10° × '40'25	1°14'04	evening set	7526 Apr 30 10:18 7526 May 10 22:23	0°П 2°П30'17	
min. Earth dist.	7520 May 29 13:12 7520 May 29 12:14	11° х 48'54	4.44549 AU	evening set	7320 May 10 22.23	2 113017	
direct	7520 Jul 30 10:27	6° ∡ ⁷ 47'05	4.44347710	conjunction	7526 May 23 22:49	5° Ⅱ 39'00	-0°50'31
evening set	7520 Dec 03 06:47	24° × 108'48		minimum elong	7526 May 23 22:49	5° Ⅱ 39'00	0°50'36
8				max. Earth dist.	7526 May 23 11:58	5° Ⅱ 32'26	5.96989 AU
conjunction	7520 Dec 16 10:09	26° ₹ 57'35	0°48'27	morning rise	7526 Jun 06 01:01	8° Ⅱ 48'57	
minimum elong	7520 Dec 16 10:09	26° ₹ 57'36	0°48'34	retrograde	7526 Oct 15 12:11	29° Ⅱ 20'14	
max. Earth dist.	7520 Dec 16 00:33	26° ₹ 52'27	6.47899 AU	opposition	7526 Dec 14 04:43	24° Ⅱ 20'58	-1°13'05
morning rise	7520 Dec 29 11:09	29° ∡ ⁴45′13		min. Earth dist.	7526 Dec 14 00:18		3.92937 AU
	7520 Dec 30 14:55	0°₹		direct	7527 Feb 10 14:37	19° Ⅱ 26'41	
retrograde	7521 Apr 28 19:41	16° る 23'39			7527 May 07 01:38	0_{\circ} වෙ	
opposition	7521 Jun 28 15:33	11° る 29'08	1°01'50	evening set	7527 Jun 17 00:27	9° © 27'31	
min. Earth dist.	7521 Jun 29 06:48	11°る24'14	4.49267 AU		7.507 X 20 00 12	100010101	004419.5
direct	7521 Aug 30 04:10	6°る27'22		conjunction	7527 Jun 30 08:13	12°542'24	
evening set	7522 Jan 02 18:13	23°る41'13 26°る09'19	6 10166 ATT	minimum elong	7527 Jun 30 08:14	12°942'25	0°41'32
max. Earth dist.	7522 Jan 14 06:11	20-009-19	6.48466 AU	max. Earth dist.	7527 Jul 01 08:42 7527 Jul 13 18:47	12° © 57'21 15° © 58'46	5.91402 AU
conjunction	7522 Jan 15 16:42	26° る 27'55	0°34'01	morning rise	7527 Sep 15 21:01	0° Ω	
minimum elong	7522 Jan 15 16:42	26° る 27'55	0°34'06	retrograde	7527 Nov 23 01:11	6° Ω 49'23	
morning rise	7522 Jan 28 12:52	20° ප 13'35	0 54 00	min. Earth dist.	7528 Jan 20 08:57	1°Ω56'03	3.92689 AU
	7522 Feb 01 03:51	0°≈		opposition	7528 Jan 21 12:25	1° Ω 46'45	
	7522 May 04 12:49	15° ≈		11	7528 Feb 03 23:20	30° ℝ ∽	
retrograde	7522 May 29 00:01	15° ≈ 54'51		direct	7528 Mar 19 08:45	26°951'42	
-	7522 Jun 22 10:11	15°R ≈			7528 May 02 05:30	$0^{\circ}\Omega$	
opposition	7522 Jul 28 23:12	11° ≈ 02'04	0°33'43		7528 Jul 16 15:29	15° Ω	
min. Earth dist.	7522 Jul 30 06:28	10° ≈ 52′05	4.45705 AU	evening set	7528 Jul 24 01:07	16° Ω 45'32	
direct	7522 Sep 29 16:35	6° ≈ 00'56					
_	7522 Dec 22 19:09	15° ≈		conjunction	7528 Aug 06 15:27	20°Ω01'06	
evening set	7523 Feb 02 01:17	23°≈27'53	C 40052 AV	minimum elong	7528 Aug 06 15:28	20° Ω 01'06	0°15'39
max. Earth dist.	7523 Feb 12 16:54	25° ≈ 47'46	6.40973 AU	behind sun begin	7528 Aug 06 13:57	20° Ω 00'12	
agniumation	7523 Feb 14 20:26	2690016104	0°10'26	behind sun end max. Earth dist.	7528 Aug 06 16:58 7528 Aug 08 19:28	20°Ω02'00 20°Ω32'19	5.96479 AU
conjunction minimum elong	7523 Feb 14 20:26 7523 Feb 14 20:27	26°≈16'04 26°≈16'05	0°10'30	morning rise	7528 Aug 08 19.28 7528 Aug 20 08:05	$20^{\circ} \Omega 17'38$	3.904/9 AU
behind sun begin	7523 Feb 14 14:12	26°≈12'40	0 10 30	morning risc	7528 Sep 18 09:46	0° m)	
behind sun end	7523 Feb 15 02:41	26°≈19'30		retrograde	7528 Dec 28 23:07	13° m) 31'56	
morning rise	7523 Feb 27 13:59	29°≈03'39		asc. node	7529 Feb 21 18:38	9° mp 05'35	
C	7523 Mar 03 21:25	0° ∀		min. Earth dist.	7529 Feb 24 21:39	8° m) 40'08	4.02473 AU
retrograde	7523 Jun 29 14:53	16° ∺ 17'35		opposition	7529 Feb 26 10:45	8° m 27'29	0°00'33
desc. node	7523 Jul 16 23:36	15°) 49′29		direct	7529 Apr 25 18:37	3° m 30'05	
opposition	7523 Aug 29 12:58	11°) €25'00	-0°04'27	evening set	7529 Aug 30 10:02	22° Mp 46'59	
min. Earth dist.	7523 Aug 31 03:40		4.34670 AU				
direct	7523 Oct 30 17:49	6°) 25′04		conjunction	7529 Sep 13 02:31	25° m 57'09	0°15'35
evening set	7524 Mar 04 03:25	24°) € 24'54		minimum elong	7529 Sep 13 02:30	25° m 57'09	0°15'35
max. Earth dist.	7524 Mar 14 16:19	26°) 47′46	6.27160 AU	behind sun begin	7529 Sep 13 01:03	25° m 56'18	
agniumation	7524 Mar. 16, 21,27	27° ₩ 17'55	0016155	behind sun end max. Earth dist.	7529 Sep 13 03:57	25° My 57'59	6.09969 AU
conjunction	7524 Mar 16 21:27 7524 Mar 16 21:26	27 H 1733			7529 Sep 15 13:38	26° Mp 31'26 29° Mp 07'23	0.09909 AU
minimum elong	7524 Mar 16 21:26 7524 Mar 28 19:22	2/° π 1/33	0 1033	morning rise	7529 Sep 26 19:42 7529 Sep 30 15:35	0° ⊡	
morning rise	7524 Mar 29 14:32	0° Υ 10'49		retrograde	7530 Feb 01 05:19	0 == 18° £ 11'34	
retrograde	7524 Aug 01 12:42	18° Υ 24'11		opposition	7530 Apr 01 23:37	13° ⊆ 08'04	0°43'04
opposition	7524 Oct 01 04:28	13° Υ 30'30	-0°43'44	min. Earth dist.	7530 Mar 31 13:32	13° ⊆ 19'34	4.18173 AU
min. Earth dist.	7524 Oct 02 15:47	13° Υ 19'08	4.18914 AU	direct	7530 May 31 09:03	8° ₾ 08'20	
direct	7524 Dec 01 06:29	8° Ƴ 32'39		evening set	7530 Oct 04 21:48	26° ≏ 36'53	
evening set	7525 Apr 05 22:03	27° Ƴ 19′06					
max. Earth dist.	7525 Apr 17 00:12	29° Ƴ 55'13	6.10715 AU	conjunction	7530 Oct 18 11:17	29° ≏ 38′26	0°39'49
	7525 Apr 17 08:20	0°8		minimum elong	7530 Oct 18 11:15	29° ≏ 38′25	0°39'52

7536 Mar 21 07:05

7536 Apr 03 00:31

minimum elong

morning rise

1°Y51'26

4°Υ45'18

0°20'36

opposition

direct

7542 Apr 06 15:03

7542 Jun 05 05:08

17°**≏**56'44

12°**2**56'43

0°47'51

	7542 Oct 03 18:10	0°M		minimum elong	7548 Mar 25 16:15	6° Y 22'53	0°24'05
ovening set	7542 Oct 09 16:21	1°ML18'15		morning rise	7548 Apr 07 09:52	9° Υ 17'54	0 24 03
evening set	7342 Oct 09 10.21	1 1161813		retrograde	7548 Apr 07 09.32 7548 Aug 11 07:49	9 11/34 27° Υ 51'53	
conjunction	7542 Oct 23 05:19	4°M18'32	0°42'12	opposition	7548 Aug 11 07.49 7548 Oct 10 20:10	27° 75133 22° 75742	0°53'05
minimum elong		4°ML18'31	0°42'16	min. Earth dist.	7548 Oct 10 20:10 7548 Oct 12 05:24	22° Y 46'57	4.13999 AU
_	7542 Oct 23 05:17				7548 Oct 12 05:24 7548 Dec 10 13:32	18° Y 00'26	4.13999 AU
max. Earth dist.	7542 Oct 24 22:19	4°M41'19	6.28862 AU	direct			
morning rise	7542 Nov 05 17:15	7°M18'03		. ,	7549 Mar 15 08:56	0°8	
. 1	7542 Dec 12 06:42	15°M		evening set	7549 Apr 15 07:43	7° 8 02'09	C 05042 ATT
retrograde	7543 Mar 09 07:21	25°M01'37	101010	max. Earth dist.	7549 Apr 26 16:40	9° 8 43'57	6.05942 AU
opposition	7543 May 08 13:20	20°M01'27			7540 4 20 0442	10010000	004444
min. Earth dist.	7543 May 07 19:12	20°M07'27	4.36263 AU	conjunction	7549 Apr 28 04:12	10° 8 05'05	
direct	7543 Jul 08 11:59	15°M00'05		minimum elong	7549 Apr 28 04:11	10° 8 05'04	0°44'47
	7543 Oct 30 01:14	0°⊀		morning rise	7549 May 11 01:47	13° 8 08'52	
evening set	7543 Nov 11 14:40	2° ⊀ 40′20			7549 May 18 22:45	15° 8	
					7549 Aug 04 10:06	0°II	
conjunction	7543 Nov 24 21:57	5° ₹ 32'49	0°50'59	retrograde	7549 Sep 17 13:08	2° ∏ 58'54	
minimum elong	7543 Nov 24 21:56	5° ≯ 32'48	0°51'05		7549 Nov 01 05:33	30° ₹ 8	
max. Earth dist.	7543 Nov 25 09:40	5° ≯ 39'09	6.42399 AU	opposition	7549 Nov 16 14:10	28° 8 02'07	
morning rise	7543 Dec 08 03:31	8° ₹ 24'14		min. Earth dist.	7549 Nov 17 03:02	27° 8 57'53	3.98929 AU
retrograde	7544 Apr 07 08:52	25° √ 19'09		direct	7550 Jan 14 19:21	23° 8 07'03	
opposition	7544 Jun 06 23:43	20° ₹ 22'25	1°12'23		7550 Mar 23 11:53	Π $^{\circ}$ 0	
min. Earth dist.	7544 Jun 07 01:23	20° ∡ ¹21'53	4.46770 AU	evening set	7550 May 21 01:13	12° Ⅱ 53'29	
direct	7544 Aug 08 01:30	15° ∡ ¹20′29					
	7544 Nov 29 08:13	ರ°0		conjunction	7550 Jun 03 03:38	16° Ⅱ 04'38	-0°49'57
evening set	7544 Dec 11 18:58	2° る 37'07		minimum elong	7550 Jun 03 03:38	16° Ⅱ 04'38	0°50'03
				max. Earth dist.	7550 Jun 03 02:00	16° Ⅱ 03'38	5.93840 AU
conjunction	7544 Dec 24 20:53	5°る24'52	0°45'31	morning rise	7550 Jun 16 08:13	19° Ⅱ 17'08	
minimum elong	7544 Dec 24 20:54	5° る 24'52	0°45'37		7550 Aug 02 09:27	0° ©	
max. Earth dist.	7544 Dec 24 04:37	5° ප 16'09	6.49131 AU	retrograde	7550 Oct 26 08:15	10° 5 02'00	
morning rise	7545 Jan 06 20:18	8° ප 11'26		opposition	7550 Dec 24 22:08	5° ഇ 01'45	-1°07'56
retrograde	7545 May 07 00:35	24° る 46'35		min. Earth dist.	7550 Dec 24 10:38	5° © 05'37	3.91189 AU
opposition	7545 Jul 06 22:44	19° る 52'33	0°55'19	direct	7551 Feb 21 01:34	0° © 07'31	
min. Earth dist.	7545 Jul 07 18:33	19° る 46'12	4.49422 AU	evening set	7551 Jun 27 15:18	20° © 12'30	
direct	7545 Sep 07 14:29	14° る 50'49		<i>3</i>			
	7546 Jan 01 06:25	0° ≈		conjunction	7551 Jul 11 01:24	23° © 28'34	-0°35'25
evening set	7546 Jan 11 01:49	2°≈04'55		minimum elong	7551 Jul 11 01:26	23°928'35	
max. Earth dist.	7546 Jan 22 06:35	4°≈29'36	6.47484 AU	max. Earth dist.	7551 Jul 12 12:52	23°950'12	5.91247 AU
man. Darun dige.	70.00411 22 00.00		0.17.101110	morning rise	7551 Jul 24 14:04	26°545'59	0.912.7110
conjunction	7546 Jan 23 23:09	4°≈51'31	0°28'09	morning rise	7551 Aug 07 02:29	0°Ω	
minimum elong	7546 Jan 23 23:10	4°≈51'32	0°28'15		7551 Oct 24 11:47	15° Ω	
morning rise	7546 Feb 05 18:22	7°≈37'12	0 20 15	retrograde	7551 Dec 03 17:15	17° Ω 33'36	
morning risc	7546 Mar 13 17:08	7 ≈37 12 15°≈		renograde	7552 Jan 12 21:02	17 8ℓ 33 30	
retrograde	7546 Jun 06 11:56	24°≈23'25		min. Earth dist.	7552 Jan 30 18:30		3.94151 AU
opposition	7546 Aug 06 11:20	24 ≈23 23 19°≈30'45	0°23'49	opposition	7552 Feb 01 02:26	$12^{\circ} \Omega 30'14$	
min. Earth dist.	7546 Aug 07 22:18	19°≈19'36	4.43592 AU	direct	7552 Mar 29 23:29	7° Ω 34'41	-0 3237
iiiii. Eartii dist.	-		4.43392 AU	direct		7 8€ 3441	
direct	7546 Sep 19 19:05 7546 Oct 08 03:51	15°R≈ 14°≈29'46		evening set	7552 Jun 08 04:14 7552 Aug 03 16:58	27° Ω 21'48	
direct	7546 Oct 26 12:46	14 ≈29 40 15°≈		evening set	7552 Aug 05 10:38 7552 Aug 14 19:07	0° m)	
	7547 Feb 01 00:29	0° ∺			7332 Aug 14 19.07	V III	
		0 X 2° ¥ 03'05		:	7552 A 17 00-24	00 m 2 (12 0	0907144
evening set	7547 Feb 10 10:51		(27022 AII	conjunction	7552 Aug 17 08:24	0° Mp 36'30	
max. Earth dist.	7547 Feb 20 23:11	4° ¥ 22'11	6.37832 AU	minimum elong	7552 Aug 17 08:24	0° Mp 36'30	0°06'46
	7547 F 1 22 05 21	40 1/ 52/15	0002101	behind sun begin	7552 Aug 17 00:36	0° m/31'52	
conjunction	7547 Feb 23 05:31	4° ¥ 52'15	0°03'01	behind sun end	7552 Aug 17 16:12	0° Mp 41'07	5 0020 C 1 X X
minimum elong	7547 Feb 23 05:30	4°) €52'14	0°03'04	max. Earth dist.	7552 Aug 19 17:24	1° Mp 10'25	5.99386 AU
behind sun begin	7547 Feb 22 21:34	4°) (47'52		morning rise	7552 Aug 31 01:57	3°m/51'58	
behind sun end	7547 Feb 23 13:26	4° ¥ 56'36		asc. node	7552 Nov 10 10:59	18° Mp 41'43	
morning rise	7547 Mar 07 22:39	7°) (40'53		retrograde	7553 Jan 07 20:38	23° Mp 49'03	4.06472 ***
desc. node	7547 Apr 07 02:05	14°) (05'58		min. Earth dist.	7553 Mar 06 19:57	18° Mp 57'43	4.06473 AU
retrograde	7547 Jul 08 14:53	25°) €08'22	001525	opposition	7553 Mar 08 10:40	18° Mp 44'32	0°13'42
opposition	7547 Sep 07 12:19	20°) 15'33		direct	7553 May 05 23:38	13° Mp 46'27	
min. Earth dist.	7547 Sep 09 03:36	20°) €02'58	4.30644 AU	_	7553 Aug 28 03:01	0∘ ⊽	
direct	7547 Nov 08 10:56	15°) 16′02		evening set	7553 Sep 09 15:29	2° ≏ 49'54	
	7548 Feb 26 10:25	0° Υ		_			
evening set	7548 Mar 12 22:09	3° Y 27'59		conjunction	7553 Sep 23 07:31	5° ≙ 57'43	
max. Earth dist.	7548 Mar 23 12:01	5° Υ' 52'56	6.22536 AU	minimum elong	7553 Sep 23 07:29	5° ≙ 57'42	
				max. Earth dist.	7553 Sep 25 16:31	6° £ 30′24	6.14683 AU
conjunction	7548 Mar 25 16:16	6° Y 22'54	-0°24'05	morning rise	7553 Oct 06 23:49	9° ≏ 05'21	

minimum elong	7565 Sep 28 06:08	10° ≏ 48'16	0°27'09	conjunction	7571 Mar 03 21:20	13°) 47′21	-0°04'50
max. Earth dist.	7565 Sep 30 13:03	10 ≗ 48 10	6.17312 AU	minimum elong	7571 Mar 03 21:20 7571 Mar 03 21:21	13° X 47'21	0°04'48
morning rise	7565 Oct 11 21:58	11 = 1933	0.17312 AU	behind sun begin	7571 Mar 03 21:21 7571 Mar 03 13:34	13° X 47'22	0 0448
morning risc	7566 Jan 06 04:41	0°M		behind sun end	7571 Mar 04 05:08	13°) (43°02	
retrograde	7566 Feb 14 18:02	2°M25'35		morning rise	7571 Mar 16 14:22	16° H 37'38	
retrograde	7566 Mar 26 05:24	30°R Ω		morning rise	7571 May 24 02:52	0°Υ	
opposition	7566 Apr 15 18:03	27° £ 23'04	0°56'15	retrograde	7571 Jul 18 02:07	4° Υ 22'43	
min. Earth dist.	7566 Apr 14 12:19	27° ⊆ 33'02	4.25642 AU	renograde	7571 Sep 12 23:05	30° R X	
direct	7566 Jun 14 17:34	22° <u>n</u> 22'33	1.23012110	opposition	7571 Sep 16 21:42	29°) 29'42	-0°26'54
	7566 Aug 28 12:19	0°M		min. Earth dist.	7571 Sep 18 12:06	29° H 17'23	4.25889 AU
evening set	7566 Oct 19 01:35	10°M29'46		direct	7571 Nov 17 12:39	24°) (30'49	
8					7572 Jan 18 16:01	$0^{\circ}\Upsilon$	
conjunction	7566 Nov 01 12:57	13°M27'29	0°46'06	evening set	7572 Mar 22 02:35	12° Y 57′09	
minimum elong	7566 Nov 01 12:56	13°M27'28	0°46'10	max. Earth dist.	7572 Apr 01 19:59	15° Y 25'49	6.17593 AU
max. Earth dist.	7566 Nov 02 21:26	13°M45'21	6.33490 AU		1		
	7566 Nov 08 13:06	15° M		conjunction	7572 Apr 03 21:00	15° Y 54'14	-0°30'56
morning rise	7566 Nov 14 23:07	16°M24'19		minimum elong	7572 Apr 03 20:59	15° Ƴ 54'13	0°30'58
•	7567 Jan 25 16:05	0° ∡ ″		morning rise	7572 Apr 16 15:26	18° Y 51'38	
retrograde	7567 Mar 17 18:38	3° ₹ 50'50		C	7572 Jun 07 18:57	$0^{\circ}S$	
C	7567 May 08 09:45	30°₽ M		retrograde	7572 Aug 21 14:37	7° 8 47'40	
opposition	7567 May 17 03:07	28°M51'43	1°13'06	opposition	7572 Oct 20 23:10	2° 8 52'54	-1°01'24
min. Earth dist.	7567 May 16 15:01	28°M55'42	4.40094 AU	min. Earth dist.	7572 Oct 22 03:28	2° 8 43'41	4.09270 AU
direct	7567 Jul 17 10:55	23°M50'07			7572 Nov 13 15:27	30° ₹ Υ	
	7567 Sep 23 02:02	0° ∡ ¹		direct	7572 Dec 20 06:27	27° Y 56'20	
evening set	7567 Nov 20 09:44	11° ₹ '21'16			7573 Jan 25 10:01	0°8	
					7573 Apr 15 19:57	15° 8	
conjunction	7567 Dec 03 15:29	14° ≯ 12'02	0°50'47	evening set	7573 Apr 25 03:54	17° 8 12'15	
minimum elong	7567 Dec 03 15:29	14° ∡ 12'02	0°50'54	max. Earth dist.	7573 May 06 23:44		6.01876 AU
max. Earth dist.	7567 Dec 03 18:31	14° ∡ °13'41	6.45158 AU		•		
morning rise	7567 Dec 16 19:14	17° ∡ ¹01'43		conjunction	7573 May 08 01:47	20° 8 17'35	-0°48'03
C	7568 Feb 24 10:55	8°0		minimum elong	7573 May 08 01:46	20° 8 17'35	0°48'07
retrograde	7568 Apr 15 14:03	3° ⋜ 48′08		morning rise	7573 May 21 00:58	23° 8 23'56	
	7568 Jun 06 12:35	30°R. ✓		•	7573 Jun 18 12:36	$\Pi^{\circ}0$	
opposition	7568 Jun 15 07:29	28° ₹ 52'20	1°09'18	retrograde	7573 Sep 28 09:17	13° Ⅱ 32'38	
min. Earth dist.	7568 Jun 15 14:44	28° ₹ 49'59	4.48332 AU	opposition	7573 Nov 27 06:56	8° Ⅱ 34'57	-1°15'56
direct	7568 Aug 16 14:19	23° ₹ ′50′24		min. Earth dist.	7573 Nov 27 12:46	8° Ⅲ 33′02	3.95975 AU
	7568 Oct 23 22:41	o°ප		direct	7574 Jan 25 02:57	3° Ⅱ 40′24	
evening set	7568 Dec 20 06:03	11° る 04'32		evening set	7574 May 31 11:37	23° Ⅱ 34'33	
max. Earth dist.	7569 Jan 01 06:32	13° る 38'45	6.49390 AU				
				conjunction	7574 Jun 13 15:57	26° Ⅱ 47′23	-0°47'47
conjunction	7569 Jan 02 06:38	13° る 51'40	0°41'41	minimum elong	7574 Jun 13 15:58	26° Ⅱ 47'23	0°47'53
minimum elong	7569 Jan 02 06:39	13° る 51'40	0°41'48	max. Earth dist.	7574 Jun 14 00:35	26° Ⅱ 52'39	5.92287 AU
morning rise	7569 Jan 15 04:42	16° る 37'41		morning rise	7574 Jun 26 22:55	0°901'41	
	7569 Mar 29 09:40	0° ≈			7574 Jun 26 20:09	0 \circ \odot	
retrograde	7569 May 15 09:18	3° ≈ 13'31		retrograde	7574 Nov 06 04:33	20°©51'52	
	7569 Jul 02 01:23	30°Ŗる		opposition	7575 Jan 04 17:24	15° © 50'37	-1°00'25
opposition	7569 Jul 15 08:15	28° පි 20'06	0°47'42	min. Earth dist.	7575 Jan 03 22:28	15° 5 57'00	3.91266 AU
min. Earth dist.	7569 Jul 16 09:17	28° る 12'05	4.48392 AU	direct	7575 Mar 03 17:14	10°956'11	
direct	7569 Sep 16 01:55	23° る 18'33			7575 Jul 04 06:53	$0 {\circ} \Omega$	
	7569 Nov 26 14:11	0°≈		evening set	7575 Jul 08 07:27	0° Ω 58′06	
evening set	7570 Jan 19 11:52	10° ≈ 36′52					
max. Earth dist.	7570 Jan 30 10:00	12° ≈ 58'49	6.45231 AU	conjunction	7575 Jul 21 19:21	4° Ω 14'12	-0°28'17
				minimum elong	7575 Jul 21 19:23	4° Ω 14'13	
conjunction	7570 Feb 01 08:17	13° ≈ 23'58	0°21'40	max. Earth dist.	7575 Jul 23 15:21		5.92929 AU
minimum elong	7570 Feb 01 08:18	13° ≈ 23'59	0°21'44	morning rise	7575 Aug 04 09:40	7° Ω 31'31	
	7570 Feb 08 17:02	15° ≈			7575 Sep 05 14:10	15° Ω	
morning rise	7570 Feb 14 02:50	16° ≈ 10′16		retrograde	7575 Dec 14 00:52	28° Ω 07'42	
	7570 Apr 30 05:51	0°) €		min. Earth dist.	7576 Feb 10 00:32	23° Ω 15'30	3.97225 AU
retrograde	7570 Jun 15 06:50	3°) €06'13		opposition	7576 Feb 11 11:12	23° Ω 03'43	-0°20'08
	7570 Aug 01 00:02	30° R ≈		direct	7576 Apr 09 11:44	18° Ω 07'29	
opposition	7570 Aug 15 05:49	28° ≈ 13'42	0°13'12		7576 Jul 11 02:35	0° m ∕	
min. Earth dist.	7570 Aug 16 19:13	28° ≈ 01'46	4.40252 AU	asc. node	7576 Jul 31 08:15	4° m ∕30'19	
direct	7570 Oct 16 18:53	23° ≈ 13′05		evening set	7576 Aug 14 03:19	7° m ,42′28	
desc. node	7570 Dec 25 04:12	29° ≈ 41'49					
	7570 Dec 26 22:56	0° ∀		conjunction	7576 Aug 27 19:21	10° m 55'27	0°02'12
evening set	7571 Feb 19 02:58	10°) 56'43		minimum elong	7576 Aug 27 19:22	10° m 55'28	0°02'10
max. Earth dist.	7571 Mar 01 14:18	13° ∺ 16'37	6.33651 AU	behind sun begin	7576 Aug 27 10:58	10° m 50'32	

behind sun end	7576 Aug 28 03:46	11° m 00'23		conjunction	7582 Feb 05 14:34	17° ≈ 44'54	0°18'11
max. Earth dist.	7576 Aug 30 07:04	11° m 30'37	6.03524 AU	minimum elong	7582 Feb 05 14:35	17° ≈ 44'54	0°18'15
morning rise	7576 Sep 10 13:01	14° mp 08'58		morning rise	7582 Feb 18 08:35	20°≈31'30	
	7576 Nov 28 22:48	0∘ ⊽			7582 Apr 06 04:14	0° ₩	
retrograde	7577 Jan 17 09:33	3° △ 44'50		retrograde	7582 Jun 19 17:23	7° ∺ 32'15	
	7577 Mar 08 04:57	30°₹ ™	4 4 4 2 2 2 2 4 4 4 4	opposition	7582 Aug 19 17:02	2°) (39'46	
min. Earth dist.	7577 Mar 16 11:51	28° m 53'23	4.11208 AU	min. Earth dist.	7582 Aug 21 06:12	2° ₩ 27'55	4.38757 AU
opposition	7577 Mar 18 01:42	28° mp 40'33	0°25'52	1.	7582 Sep 10 17:22	30°R≈	
direct	7577 May 15 22:23	23° Tp 41'46		direct	7582 Oct 21 03:18	27°≈39'25	
. ,	7577 Jul 20 16:44	0° ⊽		desc. node	7582 Nov 04 02:52	27°≈57'05	
evening set	7577 Sep 19 12:01	12° ≏ 30'16			7582 Nov 30 08:40	0° ∺ 15° ∺ 27'14	
conjunction	7577 Oct 03 03:08	15° ≏ 35'31	0°30'31	evening set max. Earth dist.	7583 Feb 23 12:23 7583 Mar 05 23:36	13° X 27'14 17° X 47'39	6.31942 AU
minimum elong	7577 Oct 03 03:07	15° ⊆ 35'30	0°30'33	max. Earm dist.	7363 Widi 03 23.30	1/ /(4/39	0.31942 AU
max. Earth dist.	7577 Oct 05 06:36	15 = 35 30 16° Ω 04'42	6.19576 AU	conjunction	7583 Mar 08 06:26	18° ¥ 18'26	0000130
morning rise	7577 Oct 16 18:19	18° £ 40′25	0.19370 AU	minimum elong	7583 Mar 08 06:25	18° X 18'25	
morning 11sc	7577 Dec 10 15:09	0°M		behind sun begin	7583 Mar 07 23:28	18° X 14'32	0 00 30
retrograde	7578 Feb 19 05:07	7°M02'00		behind sun end	7583 Mar 08 13:22	18° ¥ 22'18	
min. Earth dist.	7578 Apr 19 02:14	2°M08'50	4.27747 AU	morning rise	7583 Mar 20 23:31	21° H 09'23	
opposition	7578 Apr 20 04:52	1°M59'55	0°59'50	morning rise	7583 May 01 20:14	0°Υ	
оррозион	7578 May 05 14:22	30° R Ω	0 37 30	retrograde	7583 Jul 22 21:41	9° Υ 01'53	
direct	7578 Jun 19 09:42	26° £ 59'11		opposition	7583 Sep 21 15:32	4° Υ 08'40	-0°32'17
	7578 Aug 03 10:20	0°M		min. Earth dist.	7583 Sep 23 05:27	3° Υ 56'29	4.24075 AU
evening set	7578 Oct 23 15:58	15°M01'02		mm. Darun dibu	7583 Oct 29 22:03	30°R) €	2.070110
	7578 Oct 23 14:05	15° ™		direct	7583 Nov 22 03:52	29°) 10′04	
					7583 Dec 15 07:52	$0^{\circ}\Upsilon$	
conjunction	7578 Nov 06 02:41	17° M 57'43	0°47'36	evening set	7584 Mar 26 16:29	17° Ƴ 41'14	
minimum elong	7578 Nov 06 02:40	17° M 57'42	0°47'42	max. Earth dist.	7584 Apr 06 12:55	20° Ƴ 12'13	6.15832 AU
max. Earth dist.	7578 Nov 07 07:44	18°MJ3'40	6.35275 AU		•		
morning rise	7578 Nov 19 11:58	20°M53'29		conjunction	7584 Apr 08 11:11	20° Ƴ 39'08	-0°34'00
	7579 Jan 03 01:20	0°⊀		minimum elong	7584 Apr 08 11:10	20° Ƴ 39'07	0°34'03
retrograde	7579 Mar 21 22:35	8° ∡ 13′28		morning rise	7584 Apr 21 05:53	23° Y 37'24	
opposition	7579 May 21 08:58	3° ҂ 14'49	1°13'45		7584 May 19 14:26	9° 8	
min. Earth dist.	7579 May 20 22:50	3° ≯ 18′08	4.41460 AU	retrograde	7584 Aug 26 14:24	12° 8 41'37	
	7579 Jun 17 09:23	30°RM		opposition	7584 Oct 25 23:02	7° 8 46'29	-1°04'48
direct	7579 Jul 21 19:08	28°M13'07		min. Earth dist.	7584 Oct 27 00:16	7° 8 38'16	4.07727 AU
	7579 Aug 25 15:38	0° ∡ ¹		direct	7584 Dec 25 01:02	2° 8 50'14	
evening set	7579 Nov 24 18:42	15° ∡ ¹41'26			7585 Mar 29 19:56	15° 8	
				evening set	7585 Apr 29 23:37	22° 8 10'08	
conjunction	7579 Dec 07 23:43	18° ∡ ³31'36	0°50'16				
minimum elong	7579 Dec 07 23:44	18° ∡ ³31'36	0°50'22	conjunction	7585 May 12 21:58	25° 8 16'15	
max. Earth dist.	7579 Dec 07 22:57	18° ≯ 31'11	6.46019 AU	minimum elong	7585 May 12 21:57	25° 8 16'15	0°49'12
morning rise	7579 Dec 21 02:37	21° ∡ 20′38		max. Earth dist.	7585 May 11 23:27	25° 8 02'43	6.00680 AU
	7580 Feb 02 03:29	0°₹		morning rise	7585 May 25 22:00	28° 8 23'30	
retrograde	7580 Apr 19 18:42	8° る 04'27			7585 Jun 01 16:16	Π °0	
opposition	7580 Jun 19 12:14	3°る09'06	1°07'13	retrograde	7585 Oct 03 13:15	18° ∏ 38'00	
min. Earth dist.	7580 Jun 19 22:26	3°₹05'49	4.48654 AU	opposition	7585 Dec 02 10:24	13° II 39'50	
1	7580 Jul 15 23:24	30°₹ ҂ 7		min. Earth dist.	7585 Dec 02 13:11		3.95252 AU
direct	7580 Aug 20 21:33	28° ₹ 07'14		direct	7586 Jan 30 04:14	8°II45'18	
. ,	7580 Sep 26 02:19	0°る		evening set	7586 Jun 05 11:37	28° Ⅱ 40'43	
evening set	7580 Dec 24 12:21	15° る 21'14	(40155 ATT		7586 Jun 10 22:04	0ං වෙ	
max. Earth dist.	7581 Jan 05 07:45	17° る 52'56	6.49155 AU	conjunction	7586 Jun 10 17:05	100554107	0.046,00
conjunction	7581 Jan 06 12:12	18° る 08'13	0°39'25	conjunction minimum elong	7586 Jun 18 17:05 7586 Jun 18 17:06	1°954'06 1°954'07	
•	7581 Jan 06 12:12	18°る08'14	0°39'32		7586 Jun 19 07:21		5.92121 AU
minimum elong morning rise	7581 Jan 06 12:13 7581 Jan 19 09:50	18 808 14 20° る 54'08	0 3734	max. Earth dist. morning rise	7586 Jul 02 00:54	2° © 02'49 5° © 08'55	J.74141 AU
morning risc	7581 Mar 05 23:27	20°≈		retrograde	7586 Nov 11 08:38	25°959'16	
retrograde	7581 May 19 16:19	0 ∞ 7°≈31'23		opposition	7587 Jan 09 19:54	23 \$39 10 20° \$57'37	-0°56'05
opposition	7581 Jul 19 14:57	7 ≈31 23 2°≈38'10	0°43'27	min. Earth dist.	7587 Jan 09 19:34 7587 Jan 08 23:27	20 3 3737 21° 9 04'31	3.91688 AU
min. Earth dist.	7581 Jul 20 17:48	2°≈29'34	4.47652 AU	direct	7587 Jan 08 25:27 7587 Mar 08 18:49	16°903'03	5.51000110
uist.	7581 Aug 10 08:38	2 ~2/34 30°Rる	, 352 110		7587 Jun 17 15:48	0°Ω	
direct	7581 Sep 20 08:35	27° ප 36'43		evening set	7587 Jul 13 08:51	6° Ω 02'35	
******	7581 Oct 31 09:27	27 ⊙ 30 4 3		C. Ching Set	.55, 541 15 00.51	0 000233	
evening set	7582 Jan 23 18:24	14°≈57'30		conjunction	7587 Jul 26 21:26	9° Ω 18'35	-0°24'35
<i>5</i>	7582 Jan 23 23:02	15° ≈		minimum elong	7587 Jul 26 21:27	9° Ω 18'36	
max. Earth dist.	7582 Feb 03 16:09		6.44066 AU	max. Earth dist.	7587 Jul 28 19:08		5.93875 AU
				morning rise	7587 Aug 09 12:38	12° Ω 35'48	
				5 ···	5		

direct	7599 Mar 13 23:00	21° 5 21'19
	7599 May 29 04:34	0 $^{\circ}\Omega$
evening set	7599 Jul 18 15:21	11° Ω 19'30
C		
conjunction	7599 Aug 01 04:47	14° Q 35'29 -0°20'31
minimum elong	7599 Aug 01 04:48	14° Ω 35'29 0°20'36
	7599 Aug 02 21:27	15° Ω
max. Earth dist.	7599 Aug 03 05:20	15° Ω 04'46 5.94739 AU
morning rise	7599 Aug 14 20:39	17° £ 52'33
	7599 Oct 08 18:57	0° m
retrograde	7599 Dec 23 22:40	8° m 17'07
min. Earth dist.	7600 Feb 19 21:08	3° m/25'12 4.00056 AU
opposition	7600 Feb 21 09:28	3° m 12'50 -0°07'16
**	7600 Mar 18 05:28	30°R Ω
direct	7600 Apr 19 13:57	28° Ω 15'55
asc. node	7600 Apr 22 19:11	28° Ω 17'00
	7600 May 21 23:48	0° m)
evening set	7600 Aug 24 05:57	17° m 41'09
S	Č	•
conjunction	7600 Sep 06 22:27	20° m 52'39 0°10'37
minimum elong	7600 Sep 06 22:26	20° m 52'39 0°10'37
behind sun begin	7600 Sep 06 16:01	20° m/48'55
behind sun end	7600 Sep 07 04:51	20° m/56'22
max. Earth dist.	7600 Sep 09 10:41	21° Mp 27'48 6.07130 AU
morning rise	7600 Sep 20 15:57	24° Mp 04'22
_	7600 Oct 16 23:57	0∘ ত
retrograde	7601 Jan 26 16:34	13° ≏ 22'04
min. Earth dist.	7601 Mar 25 21:28	8° ≏ 30'23 4.15227 AU
opposition	7601 Mar 27 09:28	8° ≏ 18'13 0°36'52
direct	7601 May 25 13:25	3° £ 18'53
evening set	7601 Sep 29 02:59	21° £ 55'44
C	1	
conjunction	7601 Oct 12 17:10	24° £ 58'48 0°36'31
minimum elong	7601 Oct 12 17:08	24° £ 58'47 0°36'34
max. Earth dist.	7601 Oct 14 15:55	25° 2 25'04 6.23695 AU
morning rise	7601 Oct 26 07:07	28° ♀ 01'21
S	7601 Nov 04 05:40	0° M .
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